

Standard ECMA-323
2nd Edition - December 2002

ECMA International

Standardizing Information and Communication Systems

**XML Protocol for Computer
Supported Telecommunications
Applications (CSTA) Phase III**

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Brief History

This Standard defines an XML protocol for Phase III of Computer Supported Telecommunications Applications (CSTA). This Standard is part of a Suite of Standards and Technical Reports for Phase III of CSTA. All of the Standards and Technical Reports in the Suite are based on practical experience of ECMA member companies and each one represents a pragmatic and widely-based consensus.

Phase III of CSTA extends the previous Phase I and Phase II Standards in major theme directions as well as numerous details. This incorporates technology based upon the *versit* CTI Encyclopedia (Version 1.0), which was contributed to ECMA by *versit*.

This edition of Phase III XML Protocol for CSTA adds feature that:

- enhance the ability to support non-voice media interactions such as Email, Instant Messaging, and Chat.
- enhance the ability for CSTA applications to utilize SIP based features supported by underlying protocol layers.
- enhance the ability to leverage CSTA Standards for Voice Browser applications by the addition of three new profiles.

List of Corrected Errata for ECMA-323, 2nd Edition

Following is a summary of the errors detected and corrected in Standard ECMA-323, XML Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III, 2nd Edition.

29 August 2003

1. Clause 9.5 and 9.10, added include of empty.xsd.
2. Clause 9.7, added escape character to the range character (-) in the first GeneralizedTime pattern.
3. Clause 10, added “system-status.xsd”, “suspend.xsd” to list of files included in csta.xsd.
4. Clause 15.2.8, 15.2.9, 15.2.12, “originatinNIDConnection” element name corrected to “originatingNIDConnection”.
5. Clause 18.1.1, “RouteRegsterResponse” element name corrected to “RouteRegisterResponse”.
6. Clause 20.1.1 and Clause 20.1.2, Call back non-call-related and Call back message non-call-related, updated element names to allign with section titles.
7. Clause 20.1.19, Set Routeing Mode alligned with ECMA-269.
8. Clause 25.1.4, 25.1.5, Start and Stop CDR Transmission, fixed type reference for “csta:extensions” in requests.
9. Annex F.4, changed HTTP Delivered example to use regular HTTP request (HTTP POST).

18 September 2003

1. Annex E.4, F.4: Added missing “>” to example.

XML Tools Acknowledgement

XML specified in this Standard has been checked using the XML SPY tool.

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1 Scope

This Standard specifies an XML protocol for the services described in ECMA-269, Services for Computer Supported Telecommunications Applications (CSTA) Phase III.

This Standard provides an alternative protocol to the ASN.1 based protocol specified in ECMA-285.

Clause 5 to clause 8 inclusive describes the concepts underlying the request/response model, application association, notation and service, and a description of the template used in this Standard.

Clause 9 to clause 26 inclusive contains CSTA-specific protocol details and forms the main part of this Standard.

Annex A specifies the PICS for this Standard.

Examples of CSTA XML encodings are provided in annex B through annex G.

2 Conformance

A manufacturer may select any part of the CSTA protocol, as specified in this Standard, for implementation on a system as long as it satisfies the minimum conformance requirements as specified in clause 2 of ECMA-269.

A Protocol Implementation Conformance Statement (PICS) shall be used to specify the operations which are provided by a particular implementation. A PICS shall also specify the parameter options which are used.

2.1 Static Requirements

To conform to this Standard, a system shall support the syntax as defined by the XML 1.0 specification and the structures and data types as defined in the XML Schema Structure and XML Schema Data Types specifications for the purpose of generating and interpreting CSTA protocol information for the operations supported.

2.2 Dynamic Requirements

To conform to this Standard, a system shall:

- a. follow the procedures as specified in this Standard, and ECMA-269, relevant to each CSTA operation that the system claims to implement; and
- b. satisfy the definitions, as specified in ECMA-269, relevant to each CSTA service that the system claims to implement.

2.3 PICS Requirement

To conform to this Standard, the following shall be stated by the implementer when defining a PICS corresponding to an application or implementation:

- a. which CSTA operations, as defined in ECMA-269, are supported by the system for the particular implementation; and
- b. which optional parameters are supported by each supported operations.

A PICS proforma is specified in annex A of this Standard.

3 References

3.1 ECMA/ISO Standards and Technical Reports

ECMA-269	Services for Computer Supported Telecommunications Applications (CSTA) Phase III, 5th edition (December 2002)
ECMA TR/72	Glossary of Definitions and terminology for Computer Supported Telecommunications Applications (CSTA) Phase III, 3rd edition (June 2000)
ISO/IEC 8649:1996	Information technology - Open Systems Interconnection - Service definition for the Association Control Service Element (this corresponds to ITU-T Rec. X.217 1995)

3.2 World Wide Web Consortium Specifications

XML 1.0	XML 1.0. W3C Recommendation February 1998 (revised October 2000)
----------------	--

XML Schema Part 1	XML Schema Language Part 1: Structures. W3C Recommendation 2 May 2001
XML Schema Part 2	XML Schema Language Part 2: Datatypes. W3C Recommendation 2 May 2001
SOAP 1.1	Simple Object Access Protocol (SOAP) 1.1, W3C Note 08 May 2000

4 Definitions and Abbreviations

CSTA-specific terminology is defined in ECMA TR/72.

5 CSTA Service Definition Model

CSTA services specified in ECMA-269 are modeled as a request/response interaction.

Typically, one entity requests that a particular operation be performed; the other entity attempts to perform the operation and responds to the requestor.

5.1 Request/Response Interactions

CSTA services consist of the following types of request/response interactions:

- Services which specify a response in case of success or failure. The protocol description for these services includes a response element that represents the success (i.e. positive acknowledgement). In case of service failure, a fault element is used to provide the failure information (i.e. negative acknowledgement).
- Services which only specify a response in case of failure. The protocol description for these services do not include a response element. A fault element is used to provide the failure information (i.e. negative acknowledgement).

For CSTA event reports, no response is generated.

5.2 Request/Response Protocol Requirements

This Standard specifies CSTA-specific XML-encoded content for messages that are sent across a CSTA Service boundary. Typically this CSTA-specific XML is enveloped by a request/response protocol that provides a mechanism for correlating a CSTA request with a CSTA response, manages faults, defines header information, etc.

This Standard does not mandate that a specific request/response protocol be used. However, this Standard provides examples of how the CSTA-specific XML can be used with several industry request/response protocols and transports such as SOAP (Simple Object Access Protocol), HTTP, and TCP. These examples are provided beginning in annex E.

5.3 Cross Referencing of Event Reports

The Monitor Cross Reference Identifier in CSTA event reports is used to correlate events to an earlier Monitor Start service request (see 6.7.2.1 of ECMA-269).

5.4 Handling of Private Data

If an entity receives CSTA Private Data in a CSTA message, and it can not recognize the information contained, the CSTA Private Data shall be discarded, and the rest of the message shall be processed.

6 Interconnection service boundary

The protocol in this Standard is an OSI Application Layer protocol that assumes certain services are provided by the underlying layers, and these services are also assumed by the protocol for CSTA.

This protocol also provides a mechanism for secure transmission of CSTA messages as defined in this Standard.

7 Association Management

The protocol in this Standard operates in the context of an application association. This application association can be achieved by:

- an implicit association achieved via off-line agreement; or
- an explicit association that is achieved dynamically.

7.1 Implicit association

An a-priori agreement exists between switching and computing functions: the application context is implicit, dynamic negotiation is not possible.

7.2 Explicit association

An explicit application association is established by a process of exchanging messages that define the application context for the association.

This Standard does not require that a particular standard be used as part of the application association establishment procedure.

When ACSE (ISO/IEC 8649) is used to establish an application association per 7.2 of ECMA-269, the CSTA Association Information includes CSTA Version information that indicates the CSTA protocol versions supported by an implementation. The protocol defined in this Standard is indicated by setting the versionSeven bit in the CSTAVersion parameter of the CSTA Association Information as defined in 8.2.2 of ECMA-285. Note that the ACSE messages are ASN.1 encoded while the CSTA messages are XML encoded as defined by this Standard.

8 XML Template Description

This clause describes the template format used to describe the XML schemas for CSTA services, events, and parameter types as specified in ECMA-269.

The template consists of the following parts:

- XML header - this consists of the text “<?xml version="1.0" encoding="UTF-8"?>” which identifies the XML version used.
- XML Schema header - this identifies the start of an XML schema and provides information such as:
 - the target namespace. In this edition of the Standard the target namespace is defined as “http://www.ecma.ch/standards/ecma-323/csta/ed2”. *Note that this namespace is different than the namespace used in ECMA-323, 1st Edition.*
 - the csta namespace is defined in the same way as the target namespace. XML names that refer to names in the CSTA namespace are prefixed with “csta:”.
 - the xsd namespace. This identifies the XML Schema. XML names that refer to names in the XML Schema namespace are prefixed with “xsd:”.
 - the element form default is specified as “qualified” which requires that all element names must be prefixed with a namespace (csta: or xsd:)
- documentation - this provides a comment that indicates the CSTA specific service, event report, or data-type set.
- included schemas - this provides a list of other CSTA schemas that are referenced by the service, event, or data type set.

- CSTA specific XML:
 - for CSTA services, this consists of a service request element and a service response element. (A comment is provided in some cases where a service response is not specified per ECMA-269.). This is followed, in some cases, by service-specific XML types that are referenced in the previous elements.
 - for CSTA event reports, this consists of an event report element followed, in some cases, by event-specific XML type definitions that are referenced in the event report element.
 - for CSTA data types, this consists of the data types that are referenced (included) by other CSTA XML schemas.
- XML Schema end tag - indicates the end of the schema.

Note that in general, each parameter defined in ECMA-269 is represented as an XML element and each parameter type in ECMA-269 is represented as an XML simple or complex type.

9 CSTA parameter types

9.1 Switching function objects

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-function-objects</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>

  <xsd:complexType name="CSTAObject">
    <xsd:choice>
      <xsd:element name="deviceObject" type="csta:DeviceID"/>
      <xsd:element name="callObject" type="csta:ConnectionID"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

9.2 Device Identifiers

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-identifiers</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="ExtendedDeviceID">
    <xsd:choice>
      <xsd:element name="deviceIdentifier" type="csta:DeviceID"/>
      <xsd:element name="notKnown" type="csta:Empty"/>
      <xsd:element name="restricted" type="csta:Empty"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:complexType name="CallingDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="callingDevice" type="csta:CallingDeviceID"/>

  <xsd:complexType name="CalledDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="calledDevice" type="csta:CalledDeviceID"/>

  <xsd:complexType name="SubjectDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="RedirectionDeviceID">
    <xsd:choice>
      <xsd:element name="numberDialed" type="csta:DeviceID"/>
      <xsd:element name="notKnown" type="csta:Empty"/>
      <xsd:element name="notRequired" type="csta:Empty"/>
      <xsd:element name="notSpecified" type="csta:Empty"/>
      <xsd:element name="restricted" type="csta:Empty"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:element name="lastRedirectionDevice" type="csta:RedirectionDeviceID"/>

  <xsd:complexType name="AssociatedCallingDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="associatedCallingDevice" type="csta:AssociatedCallingDeviceID"/>

  <xsd:complexType name="AssociatedCalledDeviceID">
    <xsd:complexContent>
```

```
<xsd:extension base="csta:ExtendedDeviceID"/>
</xsd:complexContent>
</xsd:complexType>

<xsd:element name="associatedCalledDevice" type="csta:AssociatedCalledDeviceID"/>

<xsd:complexType name="NetworkCallingDeviceID">
  <xsd:complexContent>
    <xsd:extension base="csta:ExtendedDeviceID"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="networkCallingDevice" type="csta:NetworkCallingDeviceID"/>

<xsd:complexType name="NetworkCalledDeviceID">
  <xsd:complexContent>
    <xsd:extension base="csta:ExtendedDeviceID"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="networkCalledDevice" type="csta:NetworkCalledDeviceID"/>

<xsd:complexType name="DeviceID">
  <xsd:annotation>
    <xsd:documentation>uses flattened structure</xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="csta:DeviceIDType">
      <xsd:attribute name="typeOfNumber" default="dialingNumber">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="dialingNumber"/>
            <xsd:enumeration value="deviceNumber"/>
            <xsd:enumeration value="implicitPublic"/>
            <xsd:enumeration value="explicitPublic:unknown"/>
            <xsd:enumeration value="explicitPublic:international"/>
            <xsd:enumeration value="explicitPublic:national"/>
            <xsd:enumeration value="explicitPublic:networkspecific"/>
            <xsd:enumeration value="explicitPublic:subscriber"/>
            <xsd:enumeration value="explicitPublic:abbreviated"/>
            <xsd:enumeration value="implicitPrivate"/>
            <xsd:enumeration value="explicitPrivate:unknown"/>
            <xsd:enumeration value="explicitPrivate:level3RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:level2RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:level1RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:pTNSpecificNumber"/>
            <xsd:enumeration value="explicitPrivate:localNumber"/>
            <xsd:enumeration value="explicitPrivate:abbreviated"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="mediaClass" type="csta:MediaClassAttribute" default="notKnown"/>
      <xsd:attribute name="connectionRate" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:long">
            <xsd:minInclusive value="0"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="bitRate" default="constant">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="constant"/>
            <xsd:enumeration value="variable"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

```
<xsd:attribute name="delayTolerance" type="xsd:long" use="optional"/>
<xsd:attribute name="switchingSubDomainCCIEType" use="optional">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="isdn"/>
      <xsd:enumeration value="atm"/>
      <xsd:enumeration value="isoEthernet"/>
      <xsd:enumeration value="rsvp"/>
      <xsd:enumeration value="sip"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="switchingSubDomainInformationElements" use="optional">
  <xsd:simpleType>
    <xsd:restriction base="xsd:hexBinary"/>
  </xsd:simpleType>
</xsd:attribute>
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>

<xsd:simpleType name="OtherPlan">
  <xsd:restriction base="xsd:hexBinary"/>
</xsd:simpleType>

<xsd:simpleType name="DeviceIDType">
  <xsd:union memberTypes="csta:OtherPlan csta:Number"/>
</xsd:simpleType>

<xsd:simpleType name="Number">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="MediaClassComponents">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="voice"/>
    <xsd:enumeration value="data"/>
    <xsd:enumeration value="image"/>
    <xsd:enumeration value="audio"/>
    <xsd:enumeration value="other"/>
    <xsd:enumeration value="notKnown"/>
    <xsd:enumeration value="chat"/>
    <xsd:enumeration value="email"/>
    <xsd:enumeration value="message"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MediaClassAttribute">
  <xsd:list itemType="csta:MediaClassComponents"/>
</xsd:simpleType>

</xsd:schema>
```


9.3 Call and connection identifiers

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-connection-identifiers</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>

  <xsd:complexType name="ConnectionID">
    <xsd:choice>
      <xsd:element name="deviceID" type="csta:LocalDeviceID"/>
      <xsd:sequence>
        <xsd:element name="callID" type="csta:CallID"/>
        <xsd:element name="deviceID" type="csta:LocalDeviceID" minOccurs="0"/>
      </xsd:sequence>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="CallID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:pattern value="\d+"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="LocalDeviceID">
    <xsd:annotation>
      <xsd:documentation>uses flattened structure - all types included here</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="csta:DeviceIDType">
        <xsd:attribute name="typeOfNumber" default="dialingNumber">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="dialingNumber"/>
              <xsd:enumeration value="deviceNumber"/>
              <xsd:enumeration value="implicitPublic"/>
              <xsd:enumeration value="explicitPublic:unknown"/>
              <xsd:enumeration value="explicitPublic:international"/>
              <xsd:enumeration value="explicitPublic:national"/>
              <xsd:enumeration value="explicitPublic:networkspecific"/>
              <xsd:enumeration value="explicitPublic:subscriber"/>
              <xsd:enumeration value="explicitPublic:abbreviated"/>
              <xsd:enumeration value="implicitPrivate"/>
              <xsd:enumeration value="explicitPrivate:unknown"/>
              <xsd:enumeration value="explicitPrivate:level3RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:level2RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:level1RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:pTNSpecificNumber"/>
              <xsd:enumeration value="explicitPrivate:localNumber"/>
              <xsd:enumeration value="explicitPrivate:abbreviated"/>
              <xsd:enumeration value="other"/>
              <xsd:enumeration value="dynamic"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="mediaClass" type="csta:MediaClassAttribute" default="notKnown"/>
        <xsd:attribute name="connectionRate" use="optional">
          <xsd:simpleType>
            <xsd:restriction base="xsd:long">
              <xsd:minInclusive value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:attribute>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

</xsd:schema>
```

```
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attribute name="bitRate" default="constant">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="constant"/>
          <xsd:enumeration value="variable"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attribute name="delayTolerance" type="xsd:long" use="optional"/>
    <xsd:attribute name="switchingSubDomainCCIEType" use="optional">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="isdn"/>
          <xsd:enumeration value="atm"/>
          <xsd:enumeration value="isoEthernet"/>
          <xsd:enumeration value="rsvp"/>
          <xsd:enumeration value="sip"/>
          <xsd:enumeration value="other"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attribute name="switchingSubDomainInformationElements" use="optional">
      <xsd:simpleType>
        <xsd:restriction base="xsd:hexBinary"/>
      </xsd:simpleType>
    </xsd:attribute>
  </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>

</xsd:schema>
```

9.4 Connection states

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-states</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="ConnectionList">
    <xsd:sequence>
      <xsd:element name="connectionListItem" type="csta:ConnectionListItem" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="LocalConnectionState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="null"/>
      <xsd:enumeration value="initiated"/>
      <xsd:enumeration value="alerting"/>
      <xsd:enumeration value="connected"/>
      <xsd:enumeration value="hold"/>
      <xsd:enumeration value="queued"/>
      <xsd:enumeration value="fail"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="localConnectionInfo" type="csta:LocalConnectionState"/>

  <xsd:complexType name="ConnectionListItem">
    <xsd:sequence>
      <xsd:element name="newConnection" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="oldConnection" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="endpoint" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="notKnown" type="csta:Empty"/>
            <xsd:element name="restricted" type="csta:Empty"/>
          </xsd:choice>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="associatedNID" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="notKnown" type="csta:Empty"/>
          </xsd:choice>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="resultingConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.5 Status reporting

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-status-reporting</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="MonitorObject">
    <xsd:complexContent>
      <xsd:extension base="csta:CSTAObject"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:simpleType name="MonitorCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:pattern value="\d*" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="monitorCrossRefID" type="csta:MonitorCrossRefID"/>

  <xsd:complexType name="MonitorFilter">
    <xsd:sequence>
      <xsd:element name="callcontrol" type="csta:CallControlEvents" minOccurs="0"/>
      <xsd:element name="callAssociated" type="csta:CallAssociatedEvents" minOccurs="0"/>
      <xsd:element name="mediaAttachment" type="csta:MediaAttachmentEvents" minOccurs="0"/>
      <xsd:element name="physicalDeviceFeature" type="csta:PhysicalDeviceFeatureEvents"
minOccurs="0"/>
      <xsd:element name="logicalDeviceFeature" type="csta:LogicalDeviceFeatureEvents"
minOccurs="0"/>
      <xsd:element name="maintenance" type="csta:DeviceMaintenanceEvents" minOccurs="0"/>
      <xsd:element name="voiceUnit" type="csta:VoiceUnitEvents" minOccurs="0"/>
      <xsd:element name="private" type="csta:VendorSpecEvents" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="MonitorType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="call"/>
      <xsd:enumeration value="device"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="MonitorMediaClass">
    <xsd:sequence>
      <xsd:element name="voice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="data" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="image" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="audio" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="chat" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="email" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="message" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

```
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallControlEvents">
  <xsd:sequence>
    <xsd:element name="bridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCleared" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferenced" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionCleared" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="delivered" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="digitsDialed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="diverted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="established" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="held" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="networkCapabilitiesChanged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="networkReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="offered" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="originated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="retrieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="serviceInitiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferred" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallAssociatedEvents">
  <xsd:sequence>
    <xsd:element name="callInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="charging" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dtmfDigitsDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="telephonyTonesDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="serviceCompletionFailure" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MediaAttachmentEvents">
  <xsd:sequence>
    <xsd:element name="mediaAttached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaDetached" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="PhysicalDeviceFeatureEvents">
  <xsd:sequence>
    <xsd:element name="buttonInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonPress" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="displayUpdated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hookswitch" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageWaiting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneGain" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneMute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringerStatus" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolume" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LogicalDeviceFeatureEvents">
  <xsd:sequence>
    <xsd:element name="agentBusy" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentLoggedOn" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentLoggedOff" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentNotReady" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentReady" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentWorkingAfterCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="autoAnswer" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="autoWorkMode" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callBackMessage" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callerIDStatus" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="doNotDisturb" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="forwarding" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="routeingMode" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DeviceMaintenanceEvents">
  <xsd:sequence>
    <xsd:element name="backInService" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceCapabilityChanged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="outOfService" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VoiceUnitEvents">
  <xsd:sequence>
    <xsd:element name="play" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="record" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="review" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="stop" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspendPlay" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspendRecord" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="voiceAttributesChange" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VendorSpecEvents">
  <xsd:sequence>
    <xsd:element name="private" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotDeviceData">
  <xsd:sequence>
    <xsd:element name="snapshotDeviceResponseInfo" type="csta:SnapshotDeviceResponseInfo"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotDeviceResponseInfo">
  <xsd:sequence>
    <xsd:element name="connectionIdentifier" type="csta:ConnectionID"/>
    <xsd:element name="endpointDevice" type="csta:SubjectDeviceID" minOccurs="0"/>
    <xsd:element name="localCallState" type="csta:CallState"/>
    <xsd:element name="csta:servicesPermitted" type="csta:DeviceMediaInfoList" minOccurs="0"/>
    <xsd:element name="mediaServiceInfoList" type="csta:DeviceMediaInfoList" minOccurs="0"/>
    <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DeviceMediaInfoList">
  <xsd:sequence>
    <xsd:element name="deviceMediaInfo" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
          <xsd:element name="connectionInformation" type="csta:ConnectionInformation"
            minOccurs="0"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="SnapshotCallData">
  <xsd:sequence>
    <xsd:element name="snapshotCallResponseInfo" type="csta:SnapshotCallResponseInfo"
      minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotCallResponseInfo">
  <xsd:sequence>
    <xsd:element name="deviceOnCall" type="csta:SubjectDeviceID"/>
    <xsd:element name="callIdentifier" type="csta:ConnectionID" minOccurs="0"/>
    <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
    <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
    <xsd:element name="mediaServiceInfoList" type="csta:CallMediaInfoList" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallMediaInfoList">
  <xsd:sequence>
    <xsd:element name="callMediaInfo" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
          <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
          <xsd:element name="mediaServiceInstance" type="csta:MediaServiceInstanceID"
            minOccurs="0"/>
          <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
          <xsd:element name="connectionInformation" type="csta:ConnectionInformation"
            minOccurs="0"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallState">
  <xsd:choice>
    <xsd:element name="compoundCallState" type="csta:CompoundCallState"/>
    <xsd:element name="simpleCallState" type="csta:SimpleCallState"/>
    <xsd:element name="unknown" type="csta:Empty"/>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="CompoundCallState">
  <xsd:sequence>
    <xsd:element name="localConnectionState" type="csta:LocalConnectionState" minOccurs="0"
      maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="SimpleCallState">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="callNull"/>
    <xsd:enumeration value="callPending"/>
    <xsd:enumeration value="callOriginated"/>
    <xsd:enumeration value="callDelivered"/>
    <xsd:enumeration value="callDeliveredHeld"/>
    <xsd:enumeration value="callReceived"/>
    <xsd:enumeration value="callEstablished"/>
    <xsd:enumeration value="callEstablishedHeld"/>
    <xsd:enumeration value="callReceivedOnHold"/>
    <xsd:enumeration value="callEstablishedOnHold"/>
    <xsd:enumeration value="callQueued"/>
    <xsd:enumeration value="callQueuedHeld"/>
    <xsd:enumeration value="callFailed"/>
    <xsd:enumeration value="callFailedHeld"/>
    <xsd:enumeration value="callBlocked"/>
  </xsd:restriction>
</xsd:simpleType>
```

</xsd:schema>

9.6 Device and feature types and other parameters

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-feature-types</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="event-cause.xsd"/>

  <xsd:simpleType name="AccountInfo">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="64"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="accountCode" type="csta:AccountInfo"/>

  <xsd:simpleType name="AgentID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AgentPassword">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="64"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AgentState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="agentNotReady"/>
      <xsd:enumeration value="agentNull"/>
      <xsd:enumeration value="agentReady"/>
      <xsd:enumeration value="agentBusy"/>
      <xsd:enumeration value="agentWorkingAfterCall"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AuthCode">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="64"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="authCode" type="csta:AuthCode"/>

  <xsd:complexType name="CorrelatorData">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary">
            <xsd:minLength value="0"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
```

```
<xsd:annotation>
<xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:sequence>
    <xsd:any namespace="##any" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>

<xsd:element name="correlatorData" type="csta:CorrelatorData"/>

<xsd:complexType name="IOCrossRefID">
  <xsd:choice>
    <xsd:element name="switchProvided">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="0"/>
          <xsd:maxLength value="4"/>
          <xsd:pattern value="\d*" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="computerProvided">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="0"/>
          <xsd:maxLength value="4"/>
          <xsd:pattern value="\d*" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="IORegisterReqID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MessageID">
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ParticipationType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="silent"/>
    <xsd:enumeration value="active"/>
    <xsd:enumeration value="none"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="routeRegisterReqID" type="csta:RouteRegisterReqID"/>

<xsd:simpleType name="RouteRegisterReqID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>
```

```
<xsd:element name="crossRefIdentifier" type="csta:RouteingCrossRefID"/>

<xsd:simpleType name="RouteingCrossRefID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SelectValue">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normal"/>
    <xsd:enumeration value="leastCost"/>
    <xsd:enumeration value="emergency"/>
    <xsd:enumeration value="aCD"/>
    <xsd:enumeration value="userDefined"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="RetryValue">
  <xsd:choice>
    <xsd:element name="noListAvailable" type="xsd:boolean"/>
    <xsd:element name="noCountAvailable" type="xsd:boolean"/>
    <xsd:element name="retryCount" type="xsd:long"/>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="SysStatRegisterID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="sysStatRegisterID" type="csta:SysStatRegisterID"/>

<xsd:simpleType name="SystemStatus">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="disabled"/>
    <xsd:enumeration value="partiallyDisabled"/>
    <xsd:enumeration value="enabled"/>
    <xsd:enumeration value="initializing"/>
    <xsd:enumeration value="messagesLost"/>
    <xsd:enumeration value="normal"/>
    <xsd:enumeration value="overloadImminent"/>
    <xsd:enumeration value="overloadReached"/>
    <xsd:enumeration value="overloadRelieved"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CallOrigination">
  <xsd:sequence>
    <xsd:element name="internal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="external" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ForwardList">
  <xsd:sequence>
    <xsd:element name="forwardListItem" type="csta:ForwardListItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ForwardListItem">
  <xsd:sequence>
```

```
<xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
<xsd:element name="forwardStatus" type="xsd:boolean"/>
<xsd:element name="forwardDN" type="csta:DeviceID" minOccurs="0"/>
<xsd:element name="forwardDefault" type="csta:ForwardDefault" minOccurs="0"/>
<xsd:element name="ringCount" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:long">
      <xsd:minInclusive value="1"/>
      <xsd:maxInclusive value="100"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ForwardingType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="forwardImmediate"/>
    <xsd:enumeration value="forwardBusy"/>
    <xsd:enumeration value="forwardNoAns"/>
    <xsd:enumeration value="forwardDND"/>
    <xsd:enumeration value="forwardBusyInt"/>
    <xsd:enumeration value="forwardBusyExt"/>
    <xsd:enumeration value="forwardNoAnsInt"/>
    <xsd:enumeration value="forwardNoAnsExt"/>
    <xsd:enumeration value="forwardImmInt"/>
    <xsd:enumeration value="forwardImmExt"/>
    <xsd:enumeration value="forwardDNDInt"/>
    <xsd:enumeration value="forwardDNDExt"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ForwardDefault">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="forwardingTypeAndForwardDN"/>
    <xsd:enumeration value="forwardingType"/>
    <xsd:enumeration value="forwardDN"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PendingAgentState">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="agentNotReady"/>
    <xsd:enumeration value="agentNull"/>
    <xsd:enumeration value="agentReady"/>
    <xsd:enumeration value="agentWorkingAfterCall"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DataPathType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="text"/>
    <xsd:enumeration value="voice"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="DisplayAttributeList">
  <xsd:sequence>
    <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
    <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
    <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TerminatingConditions">
  <xsd:sequence>
    <xsd:element name="durationExceeded" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dTMFDigitDetected" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="endOfMessageDetected" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="speechDetected" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AttributeInfo">
  <xsd:choice>
    <xsd:element name="encodingAlgorithm" type="csta:EncodingAlgorithm"/>
    <xsd:element name="samplingRate" type="xsd:long"/>
    <xsd:element name="duration" type="xsd:long"/>
    <xsd:element name="filename" type="xsd:string"/>
    <xsd:element name="currentPosition" type="xsd:long"/>
    <xsd:element name="currentSpeed" type="xsd:long"/>
    <xsd:element name="currentVolume">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="100"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="currentGain">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="100"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="currentState" type="csta:CurrentState"/>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="EncodingAlgorithm">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="aDPCM6K"/>
    <xsd:enumeration value="aDPCM8K"/>
    <xsd:enumeration value="muLawPCM6K"/>
    <xsd:enumeration value="aLawPCM6K"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="CurrentState">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="stop"/>
    <xsd:enumeration value="play"/>
    <xsd:enumeration value="record"/>
    <xsd:enumeration value="suspendPlay"/>
    <xsd:enumeration value="suspendRecord"/>
    <xsd:enumeration value="review"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ControlData">
  <xsd:sequence>
    <xsd:element name="gender">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="male"/>
          <xsd:enumeration value="female"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="language">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string"/>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

```
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="UserData">
  <xsd:choice>
    <xsd:element name="string">
      <xsd:simpleType>
        <xsd:restriction base="xsd:hexBinary">
          <xsd:minLength value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="private">
      <xsd:annotation>
        <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:sequence>
          <xsd:any namespace="##any" maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:element name="userData" type="csta:UserData"/>

<xsd:simpleType name="TelephonyTone">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="beep"/>
    <xsd:enumeration value="billing"/>
    <xsd:enumeration value="busy"/>
    <xsd:enumeration value="carrier"/>
    <xsd:enumeration value="confirmation"/>
    <xsd:enumeration value="dial"/>
    <xsd:enumeration value="faxCNG"/>
    <xsd:enumeration value="hold"/>
    <xsd:enumeration value="howler"/>
    <xsd:enumeration value="intrusion"/>
    <xsd:enumeration value="modemCNG"/>
    <xsd:enumeration value="park"/>
    <xsd:enumeration value="recordWarning"/>
    <xsd:enumeration value="reorder"/>
    <xsd:enumeration value="ringback"/>
    <xsd:enumeration value="silence"/>
    <xsd:enumeration value="sitVC"/>
    <xsd:enumeration value="sitIC"/>
    <xsd:enumeration value="sitR0"/>
    <xsd:enumeration value="sitNC"/>
    <xsd:enumeration value="switchSpec0"/>
    <xsd:enumeration value="switchSpec1"/>
    <xsd:enumeration value="switchSpec2"/>
    <xsd:enumeration value="switchSpec3"/>
    <xsd:enumeration value="switchSpec4"/>
    <xsd:enumeration value="switchSpec5"/>
    <xsd:enumeration value="switchSpec6"/>
    <xsd:enumeration value="switchSpec7"/>
    <xsd:enumeration value="switchSpec8"/>
    <xsd:enumeration value="switchSpec9"/>
    <xsd:enumeration value="switchSpec10"/>
    <xsd:enumeration value="switchSpec11"/>
    <xsd:enumeration value="switchSpec12"/>
    <xsd:enumeration value="switchSpec13"/>
    <xsd:enumeration value="switchSpec14"/>
    <xsd:enumeration value="switchSpec15"/>
    <xsd:enumeration value="switchSpec16"/>
    <xsd:enumeration value="switchSpec17"/>
    <xsd:enumeration value="switchSpec18"/>
  </xsd:restriction>
</xsd:simpleType>
```

[illegible]

```
<xsd:enumeration value="switchSpec87"/>
<xsd:enumeration value="switchSpec88"/>
<xsd:enumeration value="switchSpec89"/>
<xsd:enumeration value="switchSpec90"/>
<xsd:enumeration value="switchSpec91"/>
<xsd:enumeration value="switchSpec92"/>
<xsd:enumeration value="switchSpec93"/>
<xsd:enumeration value="switchSpec94"/>
<xsd:enumeration value="switchSpec95"/>
<xsd:enumeration value="switchSpec96"/>
<xsd:enumeration value="switchSpec97"/>
<xsd:enumeration value="switchSpec98"/>
<xsd:enumeration value="switchSpec99"/>
<xsd:enumeration value="switchSpec100"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:element name="subjectOfCall" type="xsd:string"/>

<xsd:complexType name="MessageInfo">
  <xsd:sequence>
    <xsd:element name="messageInfoItem" type="csta:MessageInfoItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="messageInfo" type="csta:MessageInfo"/>

<xsd:complexType name="MessageInfoItem">
  <xsd:sequence>
    <xsd:element name="contentTypeAndSubtype" type="xsd:string" minOccurs="0"/>
    <xsd:element name="contents" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="languagePreferences" type="xsd:string"/>

<xsd:complexType name="DeviceHistory">
  <xsd:sequence>
    <xsd:element name="DeviceHistoryListItem" type="csta:DeviceHistoryListItem"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="deviceHistory" type="csta:DeviceHistory"/>

<xsd:complexType name="DeviceHistoryListItem">
  <xsd:sequence>
    <xsd:element name="oldDeviceID" type="csta:RedirectionDeviceID"/>
    <xsd:element name="eventCause" type="csta:EventCause" minOccurs="0"/>
    <xsd:element name="oldConnectionID" type="csta:ConnectionID" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="reason" type="csta:EventCause"/>
</xsd:schema>
```


9.7 Security

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-security</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="CSTASecurityData">
    <xsd:sequence>
      <xsd:element name="messageSequenceNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="timeStamp" type="csta:TimeInfo" minOccurs="0"/>
      <xsd:element name="securityInfo" type="csta:SecurityInfo" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SecurityInfo">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
        <xsd:annotation>
          <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:sequence>
            <xsd:any namespace="##any" maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="TimeInfo">
    <xsd:restriction base="csta:GeneralizedTime"/>
  </xsd:simpleType>

  <xsd:simpleType name="GeneralizedTime">
    <xsd:restriction base="xsd:string">
      <xsd:pattern value="\d{14}[,\.]?[+-]\d{4}" />
      <xsd:pattern value="\d{14}[,\.]?[+-]\d{2}" />
      <xsd:pattern value="\d{14}[,\.]?[+-]\d*" />
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

9.8 Common extensions

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-extension-types</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>

  <xsd:complexType name="CSTACommonArguments">
    <xsd:sequence>
      <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
      <xsd:element name="privateData" type="csta:CSTAPrivateData" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CSTAPrivateData">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
        <xsd:annotation>
          <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:sequence>
            <xsd:any namespace="##any" maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

  <xsd:element name="extensions" type="csta:CSTACommonArguments"/>

</xsd:schema>
```

9.9 Call control

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-control</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>

  <xsd:simpleType name="AutoOriginate">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="prompt"/>
      <xsd:enumeration value="doNotPrompt"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="CallCharacteristics">
    <xsd:sequence>
      <xsd:element name="acdCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="lowPriorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="priorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="highPriorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="maintainanceCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="directAgent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="assistCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="voiceUnitCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="privateCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="personalCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="sensitiveCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="confidentialCall" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="callCharacteristics" type="csta:CallCharacteristics"/>

  <xsd:simpleType name="CallQualifyingData">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="ConsultOptions">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="unrestricted"/>
      <xsd:enumeration value="consultOnly"/>
      <xsd:enumeration value="transferOnly"/>
      <xsd:enumeration value="conferenceOnly"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="consultOptions" type="csta:ConsultOptions"/>

  <xsd:complexType name="NetworkCapability">
    <xsd:sequence>
      <xsd:element name="networkType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="ISDNPublic"/>
            <xsd:enumeration value="nonISDNPublic"/>
            <xsd:enumeration value="ISDNPrivate"/>
            <xsd:enumeration value="nonISDNPrivate"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
```

```

        </xsd:restriction>
    </xsd:simpleType>
</xsd:element>
<xsd:element name="eventsProvided" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="bridged" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="callCleared" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="conferenced" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="connectionCleared" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="delivered" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="digitsDialed" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="diverted" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="established" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="held" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="networkCapabilitiesChange" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="networkReached" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="offered" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="originated" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="retrieved" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="serviceInitiated" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="transferred" type="xsd:boolean" minOccurs="0"/>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ProgressIndicator">
    <xsd:sequence>
        <xsd:element name="progressLocation">
            <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                    <xsd:enumeration value="user"/>
                    <xsd:enumeration value="privateNetServingLocal"/>
                    <xsd:enumeration value="publicNetServingLocal"/>
                    <xsd:enumeration value="transitNetwork"/>
                    <xsd:enumeration value="publicNetServingRemote"/>
                    <xsd:enumeration value="privateNetServingRemote"/>
                    <xsd:enumeration value="localInterface"/>
                    <xsd:enumeration value="internationalNetwork"/>
                    <xsd:enumeration value="networkBeyondInterwk"/>
                    <xsd:enumeration value="other"/>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:element>
        <xsd:element name="progressDescription">
            <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                    <xsd:enumeration value="iSDNProgressDesc"/>
                    <xsd:enumeration value="qSIGProgressDesc"/>
                    <xsd:enumeration value="other"/>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:element>
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ServicesPermitted">
    <xsd:sequence>
        <xsd:element name="callControlServices" type="csta:CallControlServices"/>
        <xsd:element name="callAssociatedServices" type="csta:CallAssociatedServices"/>
        <xsd:element name="mediaAttachmentServices" type="csta:MediaAttachmentServices"/>
        <xsd:element name="routingServices" type="csta:RoutingServices"/>
        <xsd:element name="voiceUnitServices" type="csta:VoiceUnitServices"/>
    </xsd:sequence>
</xsd:complexType>

```

```
</xsd:complexType>

<xsd:element name="servicesPermitted" type="csta:ServicesPermitted"/>

<xsd:complexType name="CallLinkageDataList">
  <xsd:sequence>
    <xsd:element name="newCallLinkageData" type="csta:CallLinkageData"/>
    <xsd:element name="oldCallLinkageData" type="csta:CallLinkageData"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallLinkageData">
  <xsd:sequence>
    <xsd:element name="globalCallData" type="csta:GlobalCallData"/>
    <xsd:element name="threadData" type="csta:ThreadData" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="callLinkageData" type="csta:CallLinkageData"/>

<xsd:complexType name="GlobalCallData">
  <xsd:sequence>
    <xsd:element name="globalCallSwitchingSubDomainName" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:maxLength value="64"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="globalCallLinkageID" type="csta:GlobalCallLinkageID"/>
    <xsd:element name="callLinkageIDTimestamp" type="csta:TimeInfo" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GlobalCallLinkageID">
  <xsd:choice>
    <xsd:element name="subDomainCallLinkageID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:pattern value="\d+"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="globallyUniqueCallLinkageID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:maxLength value="16"/>
          <xsd:pattern value="\d+"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="ThreadData">
  <xsd:sequence>
    <xsd:element name="threadSwitchingSubDomainName" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:maxLength value="64"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="threadLinkageID" type="csta:ThreadLinkageID"/>
<xsd:element name="threadIDTimeStamp" type="csta:TimeInfo" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ThreadLinkageID">
  <xsd:choice>
    <xsd:element name="subDomainThreadID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:pattern value="\d*" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="globallyUniqueThreadID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:maxLength value="16"/>
          <xsd:pattern value="\d*" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="CallControlServices">
  <xsd:sequence>
    <xsd:element name="acceptCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="alternateCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="answerCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callBackMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="campOnCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="clearCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="clearConnection" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferenceCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deflectCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialDigits" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="directedPickupCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="groupPickupCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="holdCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="intrudeCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="joinCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="makeCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="makePredictiveCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="parkCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reconnectCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="retrieveCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="singleStepConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="singleStepTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferCall" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallAssociatedServices">
  <xsd:sequence>
    <xsd:element name="associateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="cancelTelephonyTones" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="generatedDigits" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="generateTelephonyTones" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sendUserInformation" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MediaAttachmentServices">
  <xsd:sequence>
```

```
<xsd:element name="attachMediaService" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="detachMediaService" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RouteingServices">
  <xsd:sequence>
    <xsd:element name="routeRegister" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRegisterCancel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRegisterAbort" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reRoute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeEnd" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeReject" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRequest" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeUsed" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VoiceUnitServices">
  <xsd:sequence>
    <xsd:element name="concatenateMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deleteMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="playMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queryVoiceAttribute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="recordMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reposition" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="resume" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="review" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="setVoiceAttribute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="stop" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspend" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="synthesizeMessage" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

9.10 Capability Exchange

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-capability-exchange</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:simpleType name="ServiceCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="4"/>
      <xsd:pattern value="\d*"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:annotation>
    <xsd:documentation>Capability Bitmaps</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="LogDevServList">
    <xsd:sequence>
      <xsd:element name="callControlServList" type="csta:CallControlServList" minOccurs="0"/>
      <xsd:element name="callAssociatedServList" type="csta:CallAssociatedServList"
minOccurs="0"/>
      <xsd:element name="logicalServList" type="csta:LogicalServList" minOccurs="0"/>
      <xsd:element name="mediaServList" type="csta:MediaServList" minOccurs="0"/>
      <xsd:element name="ioServicesServList" type="csta:IOServicesServList" minOccurs="0"/>
      <xsd:element name="dataCollectionServList" type="csta:DataCollectionServList"
minOccurs="0"/>
      <xsd:element name="voiceUnitServList" type="csta:VoiceUnitServList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LogDevEvtsList">
    <xsd:sequence>
      <xsd:element name="callControlEvtsList" type="csta:CallControlEvtsList" minOccurs="0"/>
      <xsd:element name="callAssociatedEvtsList" type="csta:CallAssociatedEvtsList"
minOccurs="0"/>
      <xsd:element name="logicalEvtsList" type="csta:LogicalEvtsList" minOccurs="0"/>
      <xsd:element name="mediaEvtsList" type="csta:MediaEvtsList" minOccurs="0"/>
      <xsd:element name="voiceUnitEvtsList" type="csta:VoiceUnitEvtsList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CapExchangeServList">
    <xsd:sequence>
      <xsd:element name="getLogicalDeviceInformation" type="csta:GetLogicalDeviceInformationCaps"
minOccurs="0"/>
      <xsd:element name="getPhysicalDeviceInformation"
type="csta:GetPhysicalDeviceInformationCaps" minOccurs="0"/>
      <xsd:element name="getSwitchingFunctionCaps" type="csta:Empty"/>
      <xsd:element name="getSwitchingFunctionDevices" type="csta:GetSwitchingFunctionDevicesCaps"
minOccurs="0"/>
      <xsd:element name="switchingFunctionDevices" type="csta:SwitchingFunctionDevicesCaps"
minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="GetLogicalDeviceInformationCaps">
```



```
<xsd:sequence>
  <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="namedDeviceTypeInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="shortFormDeviceIDInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="miscMonitorCapsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxCallBacksInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxAutoAnswerRingsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxActiveCallsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxHeldCallsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxFwdSettingsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxDevicesInConfInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupParameter" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupConsultationInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupHoldMakeInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupAlternateInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupTwoCallsHoldInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="transAndConfSetupTwoCallsConnectedInAck" type="xsd:boolean"
minOccurs="0"/>
  <xsd:element name="mediaClassSupportInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="connectionRateListInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="delayToleranceListInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="numberOfChannelsInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="maxChannelBindInAck" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GetPhysicalDeviceInformationCaps">
  <xsd:sequence>
    <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="namedDeviceTypesInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherLogicalDeviceListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceModelNameInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxDisplaysInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxButtonsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxLampsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxRingPatternsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GetSwitchingFunctionDevicesCaps">
  <xsd:sequence>
    <xsd:element name="requestedDeviceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryACD" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryACDGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryHuntGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPickGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryOtherGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryNetwInterface" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPark" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryRouteingDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryStation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryVoiceUnit" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwitchingFunctionDevicesCaps">
  <xsd:sequence>
    <xsd:element name="segmentID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceCategory" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListNamedDeviceTypes" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceAttributes" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceModelName" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListNidGroup" type="xsd:boolean" minOccurs="0"/>
```

```
<xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SystemStatusServList">
  <xsd:sequence>
    <xsd:element name="changeSystemStatusFilter" type="csta:ChangeSystemStatusFilterCaps"
      minOccurs="0"/>
    <xsd:element name="systemRegister" type="csta:SystemRegisterCaps" minOccurs="0"/>
    <xsd:element name="systemStatusRegisterAbort" type="csta:SystemStatusRegisterAbortCaps"
      minOccurs="0"/>
    <xsd:element name="systemStatusRegisterCancel" type="csta:SystemStatusRegisterCancelCaps"
      minOccurs="0"/>
    <xsd:element name="requestSystemStatus" type="csta:RequestSystemStatusCaps" minOccurs="0"/>
    <xsd:element name="systemStatus" type="csta:SystemStatusCaps" minOccurs="0"/>
    <xsd:element name="swFunctionCapsChanged" type="csta:SwFunctionCapsChangedCaps"
      minOccurs="0"/>
    <xsd:element name="swFunctionDevicesChanged" type="csta:SwFunctionDevicesChangedCaps"
      minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ChangeSystemStatusFilterCaps">
  <xsd:sequence>
    <xsd:element name="requestedStatusFilterInitializing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterEnabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterMessageLost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterPartiallyDisabled" type="xsd:boolean"
      minOccurs="0"/>
    <xsd:element name="requestedStatusFilterOverloadImminent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterOverloadReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedStatusFilterOverloadRelieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SystemRegisterCaps">
  <xsd:sequence>
    <xsd:element name="requestTypesSystemStatus" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestTypesRequestSystemStatus" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestTypesSwitchingFunctionCapsChanged" type="xsd:boolean"
      minOccurs="0"/>
    <xsd:element name="requestTypesSwitchingFunctionDevicesChanged" type="xsd:boolean"
      minOccurs="0"/>
    <xsd:element name="statusFilterInitializing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterEnabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterMessageLost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterPartiallyDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterOverloadImminent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterOverloadReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="statusFilterOverloadRelieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataOctetString" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataOctetStringInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SystemStatusRegisterCancelCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
</xsd:complexType>

<xsd:complexType name="SystemStatusRegisterAbortCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RequestSystemStatusCaps">
  <xsd:sequence>
    <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusInitializing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusEnabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusMessageLost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusPartiallyDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadImminent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadRelieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsReceiving" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SystemStatusCaps">
  <xsd:sequence>
    <xsd:element name="systemStatusInitializing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusEnabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusMessageLost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusPartiallyDisabled" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadImminent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="systemStatusOverloadRelieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsReceiving" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwFunctionCapsChangedCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwFunctionDevicesChangedCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MonitoringServList">
  <xsd:sequence>
    <xsd:element name="changeMonitorFilter" type="csta:ChangeMonitorFilterCaps" minOccurs="0"/>
    <xsd:element name="monitorStart" type="csta:MonitorStartCaps" minOccurs="0"/>
    <xsd:element name="monitorStop" type="csta:MonitorStopCaps" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ChangeMonitorFilterCaps">
```

```
<xsd:sequence>
  <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MonitorStartCaps">
  <xsd:sequence>
    <xsd:element name="monitorObjectDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorObjectCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorFilter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorTypeCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorTypeDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassParameter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassAudio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassImage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassVoice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassChat" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassEmail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorMediaClassMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorExistingCallsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swDomainDefaultForMonitorTypeIsDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acceptsMonitorStartWhileOOS" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MonitorStopCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="switchingFunctionSupportsReceiving" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotServList">
  <xsd:sequence>
    <xsd:element name="snapshotCall" type="csta:SnapshotCallCaps" minOccurs="0"/>
    <xsd:element name="snapshotDevice" type="csta:SnapshotDeviceCaps" minOccurs="0"/>
    <xsd:element name="snapshotCallData" type="csta:SnapshotCallDataCaps" minOccurs="0"/>
    <xsd:element name="snapshotDeviceData" type="csta:SnapshotDeviceDataCaps" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotCallCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="locaConnectionStateInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInfoListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceVersionInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristicsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callingDeviceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="calledDeviceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCallInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferencesInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceHistoryInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reportsWithSnapsCallData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
```

</xsd:complexType>

```
<xsd:complexType name="SnapshotDeviceCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateCompoundCallState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateSimpleCallState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateUnknown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInfoListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceVersionInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristicsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reportsWithSnapsDeviceData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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<xsd:complexType name="SnapshotCallDataCaps">
  <xsd:sequence>
    <xsd:element name="segmentID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localConnectionState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInformationList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceVersion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstance" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="SnapshotDeviceDataCaps">
  <xsd:sequence>
    <xsd:element name="segmentID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateCompoundCallState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateSimpleCallState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="localCallStateUnknown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInformationList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceVersion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstance" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="endpointDeviceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

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<xsd:complexType name="CallControlServList">
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    <xsd:element name="acceptCall" type="csta:AcceptCallCaps" minOccurs="0"/>
    <xsd:element name="alternateCall" type="csta:AlternateCallCaps" minOccurs="0"/>
    <xsd:element name="answerCall" type="csta:AnswerCallCaps" minOccurs="0"/>
    <xsd:element name="callBack" type="csta:CallBackCaps" minOccurs="0"/>
    <xsd:element name="callBackMessage" type="csta:CallBackMessageCaps" minOccurs="0"/>
    <xsd:element name="campOnCall" type="csta:CampOnCallCaps" minOccurs="0"/>
    <xsd:element name="clearCall" type="csta:ClearCallCaps" minOccurs="0"/>
    <xsd:element name="clearConnection" type="csta:ClearConnectionCaps" minOccurs="0"/>
    <xsd:element name="conferenceCall" type="csta:ConferenceCallCaps" minOccurs="0"/>
    <xsd:element name="consultationCall" type="csta:ConsultationCallCaps" minOccurs="0"/>
    <xsd:element name="deflectCall" type="csta:DeflectCallCaps" minOccurs="0"/>
    <xsd:element name="dialDigits" type="csta:DialDigitsCaps" minOccurs="0"/>
    <xsd:element name="directedPickupCall" type="csta:DirectedPickupCallCaps" minOccurs="0"/>
    <xsd:element name="groupPickupCall" type="csta:GroupPickupCallCaps" minOccurs="0"/>
    <xsd:element name="holdCall" type="csta:HoldCallCaps" minOccurs="0"/>
    <xsd:element name="intrudeCall" type="csta:IntrudeCallCaps" minOccurs="0"/>
    <xsd:element name="joinCall" type="csta:JoinCallCaps" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="makeCall" type="csta:MakeCallCaps" minOccurs="0"/>
<xsd:element name="makePredictiveCall" type="csta:MakePredictiveCallCaps" minOccurs="0"/>
<xsd:element name="parkCall" type="csta:ParkCallCaps" minOccurs="0"/>
<xsd:element name="reconnectCall" type="csta:ReconnectCallCaps" minOccurs="0"/>
<xsd:element name="retrieveCall" type="csta:RetrieveCallCaps" minOccurs="0"/>
<xsd:element name="sendMessage" type="csta:SendMessageCaps" minOccurs="0"/>
<xsd:element name="singleStepConference" type="csta:SingleStepConferenceCaps"
minOccurs="0"/>
<xsd:element name="singleStepTransfer" type="csta:SingleStepTransferCaps" minOccurs="0"/>
<xsd:element name="transferCall" type="csta:TransferCallCaps" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AcceptCallCaps">
  <xsd:sequence>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AlternateCallCaps">
  <xsd:sequence>
    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionConsultOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionTransferOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionConferenceOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionUnrestricted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsOfferedModeOfAlerting" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AnswerCallCaps">
  <xsd:sequence>
    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="initiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsOfferedModeOfAlerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallBackCaps">
  <xsd:sequence>
    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="null" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="targetDeviceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="moreCallBacksNegAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CallBackMessageCaps">
  <xsd:sequence>
    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="null" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="targetDeviceInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="moreCallBacksNegAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CampOnCallCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ClearCallCaps">
  <xsd:sequence>
    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="initiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ClearConnectionCaps">
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    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="fail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="initiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reason" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ConferenceCallCaps">
  <xsd:sequence>
    <xsd:element name="activeCallConnected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="activeCallHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="heldCallConnected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="heldCallHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionParameterInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="endpointDeviceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="resultingConnectionInfo" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="conferenceCallOnfoInAck" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="protectedAgainstClearing" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ConsultationCallCaps">
  <xsd:sequence>
    <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="accountCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="authCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsACDCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsLowPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsHighPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsMaintenanceCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsDirectAgent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsAssistCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsVoiceUnitCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPrivateCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPersonalCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsSensitiveCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsConfidentialCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callingConnectionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="flowDirectionTransmit" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="flowDirectionReceive" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="flowDirectionTransmitAndReceive" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="flowDirectionNone" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberOfChannels" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaSessionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionConsultOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionTransferOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionConferenceOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultOptionUnrestricted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="initiatedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="multiStage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsAdjustmentOfMediaCharacteristics" type="xsd:boolean"
      minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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<xsd:complexType name="DeflectCallCaps">
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    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reason" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```



```
</xsd:complexType>
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  <xsd:sequence>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="DirectedPickupCallCaps">
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    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pickedCallInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pickedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsOfferedModeOfAlerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsPrompting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="promptingMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GroupPickupCallCaps">
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    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pickGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pickedCallInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pickedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsPrompting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="promptingMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsOfferedModeOfAlerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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    <xsd:element name="participationTypeActive" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferencedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsConference" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="participationTypeSilent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="participationTypeActive" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferencedCallInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferencedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="supportsPrompting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="promptingMode" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="authCode" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristicsLowPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPriorityCall" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristicsPersonalCall" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristicsConfidentialCall" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callingConnectionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="offHook" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="signallingConditionCallEstablished" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="signallingConditionActionDestinationDetection" type="xsd:boolean"
minOccurs="0"/>
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<xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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<xsd:element name="promptingMode" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="fail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="initiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsACDCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsLowPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsHighPriorityCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsMaintenanceCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsDirectAgent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsAssistCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsVoiceUnitCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPrivateCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsPersonalCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsSensitiveCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristicsConfidentialCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="authCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ConferencedCallInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionParameterInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="endpointDeviceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="resultingConnectionInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferredCollInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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    <xsd:element name="heldCallHold" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="connectionsParameterInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="endpointDeviceID" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="connectionCleared" type="csta:ConnectionClearedCaps" minOccurs="0"/>
    <xsd:element name="delivered" type="csta:DeliveredCaps" minOccurs="0"/>
    <xsd:element name="digitsDialed" type="csta:DigitsDialedCaps" minOccurs="0"/>
    <xsd:element name="diverted" type="csta:DivertedCaps" minOccurs="0"/>
    <xsd:element name="established" type="csta:EstablishedCaps" minOccurs="0"/>
    <xsd:element name="failed" type="csta:FailedCaps" minOccurs="0"/>
    <xsd:element name="held" type="csta:HeldCaps" minOccurs="0"/>
    <xsd:element name="netwCapsChanged" type="csta:NetwCapsChangedCaps" minOccurs="0"/>
    <xsd:element name="netwReached" type="csta:NetwReachedCaps" minOccurs="0"/>
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    <xsd:element name="originated" type="csta:OriginatedCaps" minOccurs="0"/>
    <xsd:element name="queued" type="csta:QueuedCaps" minOccurs="0"/>
    <xsd:element name="retrieved" type="csta:RetrievedCaps" minOccurs="0"/>
    <xsd:element name="serviceInitiated" type="csta:ServiceInitiatedCaps" minOccurs="0"/>
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    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callLinkageData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callLinkageData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceHistory" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="netwCalledDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="netwCallingDevice" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="messageInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="deviceHistory" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callLinkageData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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```



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    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="changeConnectionInformation" type="csta:ChangeConnectionInformationCaps"
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    <xsd:element name="generateDigits" type="csta:GenerateDigitsCaps" minOccurs="0"/>
    <xsd:element name="generateTelephonyTones" type="csta:GenerateTelephonyTonesCaps"
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```
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    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
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[illegible]

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<xsd:element name="toneToSendSf100" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="toneDuration" type="xsd:boolean" minOccurs="0"/>
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<xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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    <xsd:element name="callInformation" type="csta:CallInformationCaps" minOccurs="0"/>
    <xsd:element name="charging" type="csta:ChargingCaps" minOccurs="0"/>
    <xsd:element name="digitsGenerated" type="csta:DigitsGeneratedCaps" minOccurs="0"/>
    <xsd:element name="telephonyTonesGenerated" type="csta:TelephonyTonesGeneratedCaps"
      minOccurs="0"/>
    <xsd:element name="serviceCompletionFailure" type="csta:ServiceCompletionFailureCaps"
      minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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    <xsd:element name="callingDevice" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="authorisatinonCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="servicesPermitted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callQualifyingData" type="xsd:boolean" minOccurs="0"/>
```

```
<xsd:element name="connectionInfo" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callLinkageData" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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<xsd:element name="genCallInfoForOutdatedConnID" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
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    <xsd:element name="numberUnitsNumberOfChargingUnits" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberUnitsTypeOfUnits" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberUnitsNumberOfCurrencyUnits" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="typeOfChargingInfoSubTotal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="typeOfChargingInfoTotal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierATHousandth" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierAHundredth" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierATenth" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierOne" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierTen" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierHundred" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingMultiplierThousand" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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    <xsd:element name="digitsDurationList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pauseDurationList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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    <xsd:element name="toneToSendBilling" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendBusy" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendCarrier" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendConfirmation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendDial" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendFaxCNG" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendHowler" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendIntrusion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendModemCNG" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendPark" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendRecordWarning" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendReorder" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendRingback" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSilence" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSitVC" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSitIC" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSitRO" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSitNC" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf0" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf1" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf2" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf3" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="toneToSendSf8" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf9" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf10" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneToSendSf11" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

[illegible]

```
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<xsd:element name="toneToSendSf90" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="toneToSendSf91" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="toneToSendSf92" type="xsd:boolean" minOccurs="0"/>
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<xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="secondaryCallConnectionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherDevicesPrimaryCallList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherDevicesSecondaryCallList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
    <xsd:element name="attachMediaService" type="csta:AttachMediaServiceCaps" minOccurs="0"/>
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  </xsd:sequence>
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    <xsd:element name="mediaServiceVersion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeConsultConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeConsultConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDeflect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDirectedPickup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeJoin" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDirect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedConnectionState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceIDInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```



```
<xsd:complexType name="DetachMediaServiceCaps">
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    <xsd:element name="alerting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="fail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfo" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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    <xsd:element name="routeRegisterAbort" type="csta:RouteRegisterAbortCaps" minOccurs="0"/>
    <xsd:element name="reRoute" type="csta:ReRouteCaps" minOccurs="0"/>
    <xsd:element name="routeEnd" type="csta:RouteEndCaps" minOccurs="0"/>
    <xsd:element name="routeReject" type="csta:RouteRejectCaps" minOccurs="0"/>
    <xsd:element name="routeRequest" type="csta:RouteRequestCaps" minOccurs="0"/>
    <xsd:element name="routeSelect" type="csta:RouteSelectCaps" minOccurs="0"/>
    <xsd:element name="routeUsed" type="csta:RouteUsedCaps" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
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    <xsd:element name="requestedMonitorMediaClass" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassAudio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassImage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassVoice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassChat" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassEmail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="actualRouteingMediaClassInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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```
<xsd:element name="allRouteingDevices" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
<xsd:complexType name="RouteRegisterCancelCaps">
  <xsd:sequence>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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  </xsd:sequence>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="RouteEndCaps">
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsReceiving" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="rejectCauseCapacityOverflow" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="rejectCauseCalendarOverflow" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="routeSelAlgorithmACD" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmEmergency" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmLeastCost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmUserDefined" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="priority" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="replyTimeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routedCallInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceHistory" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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  </xsd:sequence>
</xsd:complexType>
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<xsd:element name="remainRetriesRetryCount" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="routeUsed" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="domain" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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      minOccurs="0"/>
    <xsd:element name="getButtonInformation" type="csta:GetButtonInformationCaps"
      minOccurs="0"/>
    <xsd:element name="getDisplay" type="csta:GetDisplayCaps" minOccurs="0"/>
    <xsd:element name="getHookSwitchStatus" type="csta:GetHookSwitchStatusCaps" minOccurs="0"/>
    <xsd:element name="getLampInfo" type="csta:GetLampInfoCaps" minOccurs="0"/>
    <xsd:element name="getLampMode" type="csta:GetLampModeCaps" minOccurs="0"/>
    <xsd:element name="getMessageWaitingIndicator" type="csta:GetMessageWaitingIndicatorCaps"
      minOccurs="0"/>
    <xsd:element name="getMicrophoneGain" type="csta:GetMicrophoneGainCaps" minOccurs="0"/>
    <xsd:element name="getMicrophoneMute" type="csta:GetMicrophoneMuteCaps" minOccurs="0"/>
    <xsd:element name="getRingerStatus" type="csta:GetRingerStatusCaps" minOccurs="0"/>
    <xsd:element name="getSpeakerMute" type="csta:GetSpeakerMuteCaps" minOccurs="0"/>
    <xsd:element name="getSpeakerVolume" type="csta:GetSpeakerVolumeCaps" minOccurs="0"/>
    <xsd:element name="setButtonInformation" type="csta:SetButtonInformationCaps"
      minOccurs="0"/>
    <xsd:element name="setDisplay" type="csta:SetDisplayCaps" minOccurs="0"/>
    <xsd:element name="setHookSwitchStatus" type="csta:SetHookSwitchStatusCaps" minOccurs="0"/>
    <xsd:element name="setLampMode" type="csta:SetLampModeCaps" minOccurs="0"/>
    <xsd:element name="setMessageWaitingIndicator" type="csta:SetMessageWaitingIndicatorCaps"
      minOccurs="0"/>
    <xsd:element name="setMicrophoneGain" type="csta:SetMicrophoneGainCaps" minOccurs="0"/>
    <xsd:element name="setMicrophoneMute" type="csta:SetMicrophoneMuteCaps" minOccurs="0"/>
    <xsd:element name="setRingerStatus" type="csta:SetRingerStatusCaps" minOccurs="0"/>
    <xsd:element name="setSpeakerMute" type="csta:SetSpeakerMuteCaps" minOccurs="0"/>
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    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GetAuditoryApparatusInfoCaps">
  <xsd:sequence>
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    <xsd:element name="auditoryApparatusTypeHandset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeHeadset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeSpeakerOnlyPhone" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeother" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerPresent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolumeSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolumeReadable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMuteSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMuteReadable" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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```
<xsd:element name="microphonePresent" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="buttonLabelInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonLabelSettableInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonFunctionInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonAssociatedNumberInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonAssociatedNumberSettableInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="listOfLampsInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="lampLabelInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampColorInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="lampModeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampBrightnessNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampBrightnessDim" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampBrightnessBright" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampColorInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonInAck" type="xsd:boolean" minOccurs="0"/>
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```

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    <xsd:element name="ringCountInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringPatternInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringVolumeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringVolumeAbsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="speakerVolAbsInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="offset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportsModifyingPosition" type="xsd:boolean" minOccurs="0"/>
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```

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```
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    <xsd:element name="ringVolumeInc" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="resettedAfterCall" type="xsd:boolean" minOccurs="0"/>
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```
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    <xsd:element name="buttonPressIndicator" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="lampModeReserved" type="xsd:boolean" minOccurs="0"/>
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```
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    <xsd:element name="cancelCallBack" type="csta:CancelCallBackCaps" minOccurs="0"/>
    <xsd:element name="cancelCallBackMsg" type="csta:CancelCallBackMsgCaps" minOccurs="0"/>
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    <xsd:element name="getAutoAnswer" type="csta:GetAutoAnswerCaps" minOccurs="0"/>
    <xsd:element name="getAutoWorkMode" type="csta:GetAutoWorkModeCaps" minOccurs="0"/>
    <xsd:element name="getCallerIDStatus" type="csta:GetCallerIDStatusCaps" minOccurs="0"/>
    <xsd:element name="getDoNotDisturb" type="csta:GetDoNotDisturbCaps" minOccurs="0"/>
    <xsd:element name="getForwarding" type="csta:GetForwardingCaps" minOccurs="0"/>
    <xsd:element name="getLastNumberDialed" type="csta:GetLastNumberDialedCaps" minOccurs="0"/>
    <xsd:element name="getRouteingMode" type="csta:GetRouteingModeCaps" minOccurs="0"/>
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    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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<xsd:element name="supportsClearing" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="agentGroupInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="agentStateConditionPauseInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardListBusyInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardListNoAnsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="forwardListBusyIntInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardListDNDExtInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardDefaultTypeAndDNInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="group" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="aCDDDeviceAllowedInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="delayTransitionIfBusy" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeDND" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeDNDExt" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeNoAnsExt" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeImmInt" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="agentNotReady" type="csta:AgentNotReadyCaps" minOccurs="0"/>
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    <xsd:element name="agentWorkingAfterCall" type="csta:AgentWorkingAfterCallCaps"
      minOccurs="0"/>
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    <xsd:element name="autoWorkMode" type="csta:AutoWorkModeCaps" minOccurs="0"/>
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    <xsd:element name="pendingAgentStateNotReady" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="pendingAgentStateNull" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeBusyExt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="forwardingTypeDND" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardingTypeDNDExt" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="forwardDefaultType" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="forwardDefaultDN" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringCount" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dataPathTypeVoice" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="displayAttribOffset" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="ioCauseTimeout" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="terminationDTMFDigitDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationEndOfSpeechDetected" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="accessCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="carrier" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="selectedRoute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorNormalCharging" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorReverseCharging" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorCreditCardCharging" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorCallForwarding" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorCallDeflection" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorCallTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="billingIndicatorOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chargingInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoNormalCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoConsultationCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoTransferCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoCallCompletion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoCallForwarding" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoCallDiversion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoConferencing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoIntrusion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoUserUserInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suppServiceInfoOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reasonForTermNormalClearing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reasonForTermUnsuccessfulCallAttempt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reasonForTermAbnormalTermination" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reasonForTermCallTransferred" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reasonForTermOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="authCode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="accountInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceCategory" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="namedDeviceTypes" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="operatorDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lastStoredCDRReportSent" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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<xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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<xsd:complexType name="StartCDRTransmissionCaps">
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    <xsd:element name="transferModeTransferAtEndOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferModeTransferOnRequest" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferModeTransferOnThresholdReached" type="xsd:boolean"
      minOccurs="0"/>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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<xsd:complexType name="StopCDRTransmissionCaps">
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    <xsd:element name="cdrTermReasonEndOfData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="cdrTermReasonError" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="cdrTermReasonThresholdReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="cdrTermReasonOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swFunctionSupportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swFunctionSupportsReceiving" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="VendorSpecificServList">
  <xsd:sequence>
    <xsd:element name="escapeRegister" type="csta:EscapeRegisterCaps" minOccurs="0"/>
    <xsd:element name="escapeRegisterCancel" type="csta:EscapeRegisterCancelCaps"
      minOccurs="0"/>
    <xsd:element name="escapeRegisterAbort" type="csta:EscapeRegisterAbortCaps" minOccurs="0"/>
    <xsd:element name="escape" type="csta:EscapeCaps" minOccurs="0"/>
    <xsd:element name="privateDataVersionSelection" type="csta:PrivateDataVersionSelectionCaps"
      minOccurs="0"/>
  </xsd:sequence>
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<xsd:complexType name="EscapeRegisterCaps">
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  </xsd:sequence>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="EscapeRegisterAbortCaps">
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
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    <xsd:element name="swFunctionSupportsSending" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swFunctionSupportsReceiving" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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<xsd:complexType name="PrivateDataVersionSelectionCaps">
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  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
    <xsd:element name="privateEvent" type="csta:PrivateEventCaps" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="PrivateEventCaps">
  <xsd:complexContent>
    <xsd:extension base="csta:Empty"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:annotation>
  <xsd:documentation>other types</xsd:documentation>
</xsd:annotation>

<xsd:complexType name="DeviceIDFormat">
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    <xsd:element name="dialableDigitsAsterix" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsHash" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsABCD" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsExclamation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsP" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsT" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsComma" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsW" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsAt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsDollar" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsSemicolon" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprExclamation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprEt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprSlash" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPercent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprNM" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprGeneric" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprImplicitTON" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONUnkown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONInternal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONNational" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONSubscriber" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONAbbreviated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONUnknown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel3" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel2" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel1" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLocal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONAbbreviated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceNumber" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwDomainFeatures">
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    <xsd:element name="isForwardingBefore" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="isForwardingAfter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swFunctionDefaultSettings" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecific" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecificDefaultForwardingType" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecificDefaultForwardDestination" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="negativeAcknowledgment" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportFailedWithAssConn" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportFailedWithoutAssConn" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="supportFailedWithAssConnNotReportet" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="recall" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="extCallsIncoming" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="extCallsOutgoing" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="prompting" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwAppearanceAddressability">
  <xsd:sequence>
    <xsd:element name="nonAddressable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="addressable" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwAppearanceTypes">
  <xsd:sequence>
    <xsd:element name="selectedStandard" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicStandard" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="exclusiveBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="independentSharedBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="interDependentSharedBridged" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="IgnoreUnsupportedParameters">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ignoreParameters"/>
    <xsd:enumeration value="rejectMessage"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PauseTime">
  <xsd:restriction base="xsd:long">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="2000"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="TimeStampMode">
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    <xsd:element name="allEvents" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allAcks" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allServReqs" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MiscMonitorCaps">
  <xsd:sequence>
    <xsd:element name="groupInclusivModel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="groupExclusiveModel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorPhysicalElement" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acdDeviceInclusiv" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acdDeviceExclusiv" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MaxLengthParameters">
  <xsd:sequence>
    <xsd:element name="accountInfo">
      <xsd:simpleType>
        <xsd:restriction base="xsd:short">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="32"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

```
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<xsd:element name="authCode">
  <xsd:simpleType>
    <xsd:restriction base="xsd:short">
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    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="agentID" type="xsd:short"/>
<xsd:element name="agentPassword">
  <xsd:simpleType>
    <xsd:restriction base="xsd:short">
      <xsd:minInclusive value="0"/>
      <xsd:maxInclusive value="32"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="callIDInConnectionID" type="xsd:short"/>
<xsd:element name="correlatorData" type="xsd:short"/>
<xsd:element name="privateData" type="xsd:long"/>
<xsd:element name="deviceIdentifiers" type="xsd:short"/>
<xsd:element name="userData" type="xsd:long"/>
<xsd:element name="buttonLabel">
  <xsd:simpleType>
    <xsd:restriction base="xsd:short">
      <xsd:minInclusive value="0"/>
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    </xsd:restriction>
  </xsd:simpleType>
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<xsd:element name="lampLabel">
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    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="charactersToSend">
  <xsd:simpleType>
    <xsd:restriction base="xsd:short">
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    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MaxLengthParametersContinued">
  <xsd:sequence>
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    <xsd:element name="callQualifyingData" type="xsd:short"/>
    <xsd:element name="subDomainCallLinkageData" type="xsd:short"/>
    <xsd:element name="subDomainThreadID" type="xsd:short"/>
    <xsd:element name="ioData" type="xsd:long"/>
    <xsd:element name="messageInfo" type="xsd:long"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FilterThreshold">
  <xsd:sequence>
    <xsd:element name="getLogicalDeviceInformation" type="xsd:long"/>
    <xsd:element name="getPhysicalDeviceInformation" type="xsd:long"/>
    <xsd:element name="getSwitchingFunctionCaps" type="xsd:long"/>
    <xsd:element name="getSwitchingFunctionDevices" type="xsd:long"/>
    <xsd:element name="switchingFunctionDevices" type="xsd:long"/>
  </xsd:sequence>
</xsd:complexType>
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<xsd:element name="changeSystemStatusFilter" type="xsd:long"/>
<xsd:element name="systemStatusRegister" type="xsd:long"/>
<xsd:element name="systemStatusRegisterAbort" type="xsd:long"/>
<xsd:element name="systemStatusRegisterCancel" type="xsd:long"/>
<xsd:element name="requestSystemStatus" type="xsd:long"/>
<xsd:element name="systemStatus" type="xsd:long"/>
<xsd:element name="switchingFunctionCapsChanged" type="xsd:long"/>
<xsd:element name="switchingFunctionDevsChanged" type="xsd:long"/>
<xsd:element name="changeMonitorFilter" type="xsd:long"/>
<xsd:element name="monitorStart" type="xsd:long"/>
<xsd:element name="monitorStop" type="xsd:long"/>
<xsd:element name="snapshotCall" type="xsd:long"/>
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<xsd:element name="snapshotCallData" type="xsd:long"/>
<xsd:element name="snapshotDeviceData" type="xsd:long"/>
<xsd:element name="acceptCall" type="xsd:long"/>
<xsd:element name="alternateCall" type="xsd:long"/>
<xsd:element name="answerCall" type="xsd:long"/>
<xsd:element name="callBackCallRelated" type="xsd:long"/>
<xsd:element name="callBackMessageCallRelated" type="xsd:long"/>
<xsd:element name="campOnCall" type="xsd:long"/>
<xsd:element name="clearCall" type="xsd:long"/>
<xsd:element name="clearConnection" type="xsd:long"/>
<xsd:element name="conferenceCall" type="xsd:long"/>
<xsd:element name="consultationCall" type="xsd:long"/>
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<xsd:element name="groupPickupCall" type="xsd:long"/>
<xsd:element name="holdCall" type="xsd:long"/>
<xsd:element name="intrudeCall" type="xsd:long"/>
<xsd:element name="joinCall" type="xsd:long"/>
<xsd:element name="makeCall" type="xsd:long"/>
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<xsd:element name="parkCall" type="xsd:long"/>
<xsd:element name="reconnectCall" type="xsd:long"/>
<xsd:element name="retrieveCall" type="xsd:long"/>
<xsd:element name="singleStepConferenceCall" type="xsd:long"/>
<xsd:element name="singleStepTransferCall" type="xsd:long"/>
<xsd:element name="transferCall" type="xsd:long"/>
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<xsd:element name="cancelTelephonyTone" type="xsd:long"/>
<xsd:element name="generateDigits" type="xsd:long"/>
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<xsd:element name="sendUserInformation" type="xsd:long"/>
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<xsd:element name="getButtonInformation" type="xsd:long"/>
<xsd:element name="getDisplay" type="xsd:long"/>
<xsd:element name="getHookswitchStatus" type="xsd:long"/>
<xsd:element name="getLampInformation" type="xsd:long"/>
<xsd:element name="getLampMode" type="xsd:long"/>
<xsd:element name="getMicrophoneGain" type="xsd:long"/>
```



```
<xsd:element name="getMicrophoneMute" type="xsd:long"/>
<xsd:element name="getMessageWaitingIndicator" type="xsd:long"/>
<xsd:element name="getRingerStatus" type="xsd:long"/>
<xsd:element name="getSpeakerMute" type="xsd:long"/>
<xsd:element name="getSpeakerVolume" type="xsd:long"/>
<xsd:element name="setButtonInformation" type="xsd:long"/>
<xsd:element name="setDisplay" type="xsd:long"/>
<xsd:element name="setHookswitchStatus" type="xsd:long"/>
<xsd:element name="setLampMode" type="xsd:long"/>
<xsd:element name="setMsgWaitingIndicator" type="xsd:long"/>
<xsd:element name="setMicrophoneGain" type="xsd:long"/>
<xsd:element name="setMicrophoneMute" type="xsd:long"/>
<xsd:element name="setRingerStatus" type="xsd:long"/>
<xsd:element name="setSpeakerMute" type="xsd:long"/>
<xsd:element name="setSpeakerVolume" type="xsd:long"/>
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<xsd:element name="getAutoWorkMode" type="xsd:long"/>
<xsd:element name="getCallerIDStatus" type="xsd:long"/>
<xsd:element name="getDoNotDisturb" type="xsd:long"/>
<xsd:element name="getForwarding" type="xsd:long"/>
<xsd:element name="getLastNumberDialed" type="xsd:long"/>
<xsd:element name="getRouteingMode" type="xsd:long"/>
<xsd:element name="setAgentState" type="xsd:long"/>
<xsd:element name="setAutoAnswer" type="xsd:long"/>
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<xsd:element name="setCallerIDStatus" type="xsd:long"/>
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<xsd:element name="setForwarding" type="xsd:long"/>
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<xsd:element name="dataPathResumed" type="xsd:long"/>
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<xsd:element name="sendData" type="xsd:long"/>
<xsd:element name="sendMulticastData" type="xsd:long"/>
<xsd:element name="startDataPath" type="xsd:long"/>
<xsd:element name="stopDataPath" type="xsd:long"/>
<xsd:element name="suspendDataPath" type="xsd:long"/>
<xsd:element name="concatenateMsg" type="xsd:long"/>
<xsd:element name="deleteMsg" type="xsd:long"/>
<xsd:element name="playMsg" type="xsd:long"/>
<xsd:element name="queryVoiceAttribute" type="xsd:long"/>
<xsd:element name="recordMsg" type="xsd:long"/>
<xsd:element name="reposition" type="xsd:long"/>
<xsd:element name="resume" type="xsd:long"/>
<xsd:element name="review" type="xsd:long"/>
<xsd:element name="setVoiceAttribute" type="xsd:long"/>
<xsd:element name="stop" type="xsd:long"/>
<xsd:element name="suspend" type="xsd:long"/>
<xsd:element name="synthesizeMsg" type="xsd:long"/>
<xsd:element name="CDRNotification" type="xsd:long"/>
<xsd:element name="CDRReport" type="xsd:long"/>
<xsd:element name="sendStoredCDRs" type="xsd:long"/>
<xsd:element name="startCDRTransmission" type="xsd:long"/>
<xsd:element name="stopCDRTransmission" type="xsd:long"/>
<xsd:element name="escapeRegister" type="xsd:long"/>
```

```
<xsd:element name="escapeRegisterAbort" type="xsd:long"/>
<xsd:element name="escapeRegisterCancel" type="xsd:long"/>
<xsd:element name="escape" type="xsd:long"/>
<xsd:element name="privateDataVersion" type="xsd:long"/>
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</xsd:complexType>

<xsd:complexType name="MediaServiceCapsList">
  <xsd:sequence>
    <xsd:element name="mediaServiceCapsItem" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
          <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
          <xsd:element name="mediaServiceInstance" type="csta:MediaServiceInstanceID"
            minOccurs="0"/>
          <xsd:element name="connectionMode" type="csta:ConnectionModeBMap" minOccurs="0"/>
          <xsd:element name="mediaStreamIDSupported" type="xsd:boolean"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="DeviceCategory">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="acd"/>
    <xsd:enumeration value="group"/>
    <xsd:enumeration value="networkInterface"/>
    <xsd:enumeration value="park"/>
    <xsd:enumeration value="routeingDevice"/>
    <xsd:enumeration value="station"/>
    <xsd:enumeration value="voiceUnit"/>
    <xsd:enumeration value="other"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="GroupDeviceAttributes">
  <xsd:sequence>
    <xsd:element name="acd" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hunt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pick" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="NamedDeviceTypes">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="acd"/>
    <xsd:enumeration value="acdGroup"/>
    <xsd:enumeration value="button"/>
    <xsd:enumeration value="buttonGroup"/>
    <xsd:enumeration value="conferenceBridge"/>
    <xsd:enumeration value="line"/>
    <xsd:enumeration value="lineGroup"/>
    <xsd:enumeration value="operator"/>
    <xsd:enumeration value="operatorGroup"/>
    <xsd:enumeration value="parkingDevice"/>
    <xsd:enumeration value="station"/>
    <xsd:enumeration value="stationGroup"/>
    <xsd:enumeration value="trunk"/>
    <xsd:enumeration value="trunkGroup"/>
    <xsd:enumeration value="other"/>
    <xsd:enumeration value="otherGroup"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ACDModels">
```

```
<xsd:sequence>
  <xsd:element name="visibleACDRelatedDevices" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="nonVisibleACDRelatedDevices" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AgentLogOnModels">
  <xsd:sequence>
    <xsd:element name="logOnToACDDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="logOnToACDGroupExplOneStep" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="logOnToACDGroupExplTwoSteps" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="logOnToACDImplOneStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="AppearanceType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="selectedStandard"/>
    <xsd:enumeration value="basicStandard"/>
    <xsd:enumeration value="basicBridged"/>
    <xsd:enumeration value="exclusiveBridged"/>
    <xsd:enumeration value="independentSharedBridged"/>
    <xsd:enumeration value="interdependentSharedBridged"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="TransAndConfSetup">
  <xsd:sequence>
    <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="holdCallMakeCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="alternateCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="twoCallsInHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="twoCallsInConnected" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

9.11 Call Detail Record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-record</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:simpleType name="CDRCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="4"/>
      <xsd:pattern value="\d*" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="cdrCrossRefID" type="csta:CDRCrossRefID"/>

  <xsd:simpleType name="CDRReason">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="timeout"/>
      <xsd:enumeration value="thresholdReached"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="CDRInfo">
    <xsd:sequence>
      <xsd:element name="cdrInformationItem" type="csta:CDRInformationItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CDRInformationItem">
    <xsd:sequence>
      <xsd:element name="recordNumber" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="1"/>
            <xsd:maxInclusive value="128"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="recordCreationTime" type="csta:TimeInfo"/>
      <xsd:element ref="csta:callingDevice" minOccurs="0"/>
      <xsd:element ref="csta:calledDevice" minOccurs="0"/>
      <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
      <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
      <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
      <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
      <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
      <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
      <xsd:element name="chargedDevice" type="csta:ChargedDevice" minOccurs="0"/>
      <xsd:element name="recordedCall" type="csta:ConnectionID" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

```
<xsd:element name="nodeNumber" type="csta:NodeNumber" minOccurs="0"/>
<xsd:element name="tariffTable" type="xsd:long" minOccurs="0"/>
<xsd:element name="connectionStart" type="csta:TimeInfo" minOccurs="0"/>
<xsd:element name="connectionEnd" type="csta:TimeInfo" minOccurs="0"/>
<xsd:element name="connectionDuration" type="xsd:long" minOccurs="0"/>
<xsd:element name="accessCode" type="xsd:string" minOccurs="0"/>
<xsd:element name="carrier" type="xsd:long" minOccurs="0"/>
<xsd:element name="selectedRoute" type="xsd:long" minOccurs="0"/>
<xsd:element name="billingID" type="csta:BillingID" minOccurs="0"/>
<xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
<xsd:element name="supplServiceInfo" type="csta:SupplServiceInfo" minOccurs="0"/>
<xsd:element name="reasonForTerm" type="csta:ReasonForTerm" minOccurs="0"/>
<xsd:element name="authCode" type="csta:AuthCode" minOccurs="0"/>
<xsd:element name="accountInfo" type="csta:AccountInfo" minOccurs="0"/>
<xsd:element name="deviceCategory" type="csta:DeviceCategory" minOccurs="0"/>
<xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
<xsd:element name="operatorDevice" type="csta:DeviceID" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ChargedDevice">
  <xsd:choice>
    <xsd:element name="operator" type="csta:DeviceID"/>
    <xsd:element name="nonOperator" type="csta:DeviceID"/>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="NodeNumber">
  <xsd:sequence>
    <xsd:element name="area0" type="xsd:long" minOccurs="0"/>
    <xsd:element name="area1" type="xsd:long" minOccurs="0"/>
    <xsd:element name="area2" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="BillingID">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normalCharging"/>
    <xsd:enumeration value="reverseCharging"/>
    <xsd:enumeration value="creditCardCharging"/>
    <xsd:enumeration value="callForwarding"/>
    <xsd:enumeration value="callDeflection"/>
    <xsd:enumeration value="callTransfer"/>
    <xsd:enumeration value="other"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="SupplServiceInfo">
  <xsd:sequence>
    <xsd:element name="normalCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCompletion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callForwarding" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callDiversion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferencing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="intrusion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userUserInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ReasonForTerm">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normalClearing"/>
    <xsd:enumeration value="unsuccessfulCallAttempt"/>
    <xsd:enumeration value="abnormalTermination"/>
    <xsd:enumeration value="callTransferred"/>
  </xsd:restriction>
</xsd:simpleType>
```

```
        <xsd:enumeration value="other"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CDRTimePeriod">
    <xsd:sequence>
        <xsd:element name="beginningOfCDR" type="csta:TimeInfo"/>
        <xsd:element name="endOfCDR" type="csta:TimeInfo"/>
    </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="CDRTransferMode">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="transferAtEndOfCall"/>
        <xsd:enumeration value="transferOnRequest"/>
        <xsd:enumeration value="transferOnThresholdReached"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="CDRTermReason">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="endOfDataDetected"/>
        <xsd:enumeration value="errorDetected"/>
        <xsd:enumeration value="thresholdReached"/>
        <xsd:enumeration value="other"/>
    </xsd:restriction>
</xsd:simpleType>

</xsd:schema>
```

9.12 Charge information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-charge-info</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="ChargingInfo">
    <xsd:sequence>
      <xsd:element name="numberUnits" type="csta:NumberUnits"/>
      <xsd:element name="typeOfChargingInfo">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="subTotal"/>
            <xsd:enumeration value="total"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="NumberUnits">
    <xsd:choice>
      <xsd:element name="numberOfChargeUnits" type="csta:NumberOfChargingUnits"/>
      <xsd:element name="numberOfCurrencyUnits" type="csta:NumberOfCurrencyUnits"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:complexType name="NumberOfChargingUnits">
    <xsd:sequence>
      <xsd:element name="chargingUnitsRecord" type="csta:ChargingUnitsRecord" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ChargingUnitsRecord">
    <xsd:sequence>
      <xsd:element name="chargingUnits" type="xsd:long"/>
      <xsd:element name="typeOfUnits" type="xsd:string" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="NumberOfCurrencyUnits">
    <xsd:sequence>
      <xsd:element name="currencyType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="currencyAmount" type="xsd:long"/>
      <xsd:element name="currencyMultiplier">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="oneThousandth"/>
            <xsd:enumeration value="oneHundredth"/>
            <xsd:enumeration value="oneTenth"/>
            <xsd:enumeration value="one"/>
            <xsd:enumeration value="ten"/>
            <xsd:enumeration value="hundred"/>
            <xsd:enumeration value="thousand"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
```

```
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:schema>
```


9.13 Data call types

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-call-types</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="NumberOfChannels">
    <xsd:restriction base="xsd:long"/>
  </xsd:simpleType>

  <xsd:simpleType name="MaxChannelBind">
    <xsd:restriction base="xsd:long"/>
  </xsd:simpleType>

  <xsd:complexType name="ConnectionRateList">
    <xsd:sequence>
      <xsd:element name="connectionRate" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DelayToleranceList">
    <xsd:sequence>
      <xsd:element name="delayTolerance" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.14 Escape types

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-types</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="EscapeRegisterID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="4"/>
      <xsd:pattern value="\d*" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="escapeRegisterID" type="csta:EscapeRegisterID"/>

</xsd:schema>
```

9.15 Media services

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:annotation>
    <xsd:documentation>CSTA-media-services</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="MediaServiceType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="cstaVoiceUnit"/>
      <xsd:enumeration value="dataModem"/>
      <xsd:enumeration value="digitalDataIsochronousIeee1394"/>
      <xsd:enumeration value="digitalDataIsochronousGeoport"/>
      <xsd:enumeration value="digitalDataIsochronousIeeeAtm"/>
      <xsd:enumeration value="digitalDataIsochronousIeeeIsdn"/>
      <xsd:enumeration value="digitalDataApi"/>
      <xsd:enumeration value="ectfS100MediaServicesDefault"/>
      <xsd:enumeration value="ectfS100MediaServicesAppServices"/>
      <xsd:enumeration value="cstaIVRScript1"/>
      <xsd:enumeration value="cstaIVRScript2"/>
      <xsd:enumeration value="cstaIVRScript3"/>
      <xsd:enumeration value="cstaIVRScript4"/>
      <xsd:enumeration value="cstaIVRScript5"/>
      <xsd:enumeration value="cstaIVRScript6"/>
      <xsd:enumeration value="cstaIVRScript7"/>
      <xsd:enumeration value="cstaIVRScript8"/>
      <xsd:enumeration value="cstaIVRScript9"/>
      <xsd:enumeration value="cstaIVRScript10"/>
      <xsd:enumeration value="liveSoundCaptureAnalog"/>
      <xsd:enumeration value="liveSoundTransmitAnalog"/>
      <xsd:enumeration value="liveSoundCaptureIeee1394"/>
      <xsd:enumeration value="liveSoundTransmitIeee1394"/>
      <xsd:enumeration value="liveSoundCaptureTransmitGeoport"/>
      <xsd:enumeration value="liveSoundCaptureTransmitAtm"/>
      <xsd:enumeration value="liveSoundCaptureTransmitISDN"/>
      <xsd:enumeration value="soundCaptureTransmitADPCM"/>
      <xsd:enumeration value="soundCaptureTransmitApi"/>
      <xsd:enumeration value="usb"/>
      <xsd:enumeration value="sfSpecific1"/>
      <xsd:enumeration value="sfSpecific2"/>
      <xsd:enumeration value="sfSpecific3"/>
      <xsd:enumeration value="sfSpecific4"/>
      <xsd:enumeration value="sfSpecific5"/>
      <xsd:enumeration value="sfSpecific6"/>
      <xsd:enumeration value="sfSpecific7"/>
      <xsd:enumeration value="sfSpecific8"/>
      <xsd:enumeration value="sfSpecific9"/>
      <xsd:enumeration value="sfSpecific10"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="MediaStreamID">
    <xsd:restriction base="xsd:string">
      <xsd:pattern value="\d*" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="MediaServiceInstanceID">
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="64" />
    </xsd:restriction>
  </xsd:simpleType>
```

```
<xsd:pattern value="\d*" />
</xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ConnectionInformation">
  <xsd:sequence>
    <xsd:element name="flowDirection" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="transmit" />
          <xsd:enumeration value="receive" />
          <xsd:enumeration value="transmitAndReceive" />
          <xsd:enumeration value="none" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="numberOfChannels" type="xsd:long" default="1" minOccurs="0" />
    <xsd:element name="mediaSessionInfo" type="xsd:string" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ConnectionMode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="consultationConference" />
    <xsd:enumeration value="consultationConferenceHold" />
    <xsd:enumeration value="directedPickup" />
    <xsd:enumeration value="join" />
    <xsd:enumeration value="singleStepConference" />
    <xsd:enumeration value="singleStepConferenceHold" />
    <xsd:enumeration value="singleStepTransfer" />
    <xsd:enumeration value="transfer" />
    <xsd:enumeration value="direct" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ConnectionModeBMap">
  <xsd:sequence>
    <xsd:element name="consultationConference" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="consultationConferenceHold" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="directedPickup" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="join" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="singleStepConference" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="singleStepConferenceHold" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="singleStepTransfer" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="transfer" type="xsd:boolean" minOccurs="0" />
    <xsd:element name="direct" type="xsd:boolean" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MediaCallCharacteristics">
  <xsd:sequence>
    <xsd:element name="mediaClass" type="csta:MediaClass" />
    <xsd:element name="connectionRate" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="bitRate" default="constant" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="constant" />
          <xsd:enumeration value="variable" />
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="delayTolerance" type="xsd:long" minOccurs="0" />
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="switchingSubDomainCCIEType" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="isdn"/>
      <xsd:enumeration value="atm"/>
      <xsd:enumeration value="isoEthernet"/>
      <xsd:enumeration value="rsvp"/>
      <xsd:enumeration value="sip"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="switchingSubDomainInformationElements" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:hexBinary"/>
  </xsd:simpleType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

<xsd:element name="mediaCallCharacteristics" type="csta:MediaCallCharacteristics"/>

<xsd:complexType name="MediaClass">
  <xsd:sequence>
    <xsd:element name="voice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="data" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="image" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="audio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="notKnown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chat" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="email" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="message" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

9.16 Physical device features

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-physical-device-features</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="AuditoryApparatusList">
    <xsd:sequence>
      <xsd:element name="auditoryApparatusItem" type="csta:AuditoryApparatusItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AuditoryApparatusItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="auditoryApparatusType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="speakerphone"/>
            <xsd:enumeration value="handset"/>
            <xsd:enumeration value="headset"/>
            <xsd:enumeration value="speakerOnlyPhone"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="speaker">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="present" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="volumeSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="volumeReadable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteReadable" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="microphone">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="present" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="gainSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="gainReadable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteReadable" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="hookswitch">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="hookswitchSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="hookswitchOnHook" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="hookswitchID" type="csta:HookswitchID"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
<xsd:simpleType name="AuditoryApparatusID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ButtonID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="CharacterSet">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ascii"/>
    <xsd:enumeration value="unicode"/>
    <xsd:enumeration value="proprietary"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DisplayID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="HookswitchID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampBrightness">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="unspecified"/>
    <xsd:enumeration value="dim"/>
    <xsd:enumeration value="bright"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampColor">
  <xsd:annotation>
    <xsd:documentation>named values are represented as integer</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:short">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d*" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampMode">
  <xsd:annotation>
```

```
<xsd:documentation>named values are represented as integer</xsd:documentation>
</xsd:annotation>
<xsd:restriction base="xsd:short">
  <xsd:minInclusive value="0"/>
  <xsd:maxInclusive value="100"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="MicrophoneGain">
  <xsd:choice>
    <xsd:element name="micGainAbs" type="csta:MicGainAbs"/>
    <xsd:element name="micGainInc" type="csta:MicGainInc"/>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="MicGainInc">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="increment"/>
    <xsd:enumeration value="decrement"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MicGainAbs">
  <xsd:restriction base="xsd:short">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="RingerID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
    <xsd:maxLength value="4"/>
    <xsd:pattern value="\d+"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="RingMode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ringing"/>
    <xsd:enumeration value="notRinging"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="Volume">
  <xsd:choice>
    <xsd:element name="volAbs" type="csta:VolAbs"/>
    <xsd:element name="volInc" type="csta:VolInc"/>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="VolInc">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="increment"/>
    <xsd:enumeration value="decrement"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="VolAbs">
  <xsd:restriction base="xsd:short">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>

</xsd:schema>
```


9.17 Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="DcollCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
      <xsd:maxLength value="4"/>
      <xsd:pattern value="\d*"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="dcollCrossRefID" type="csta:DcollCrossRefID"/>

</xsd:schema>
```

9.18 Event Cause

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-event-cause</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="EventCause">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="aCDBusy"/>
      <xsd:enumeration value="aCDForward"/>
      <xsd:enumeration value="aCDSaturated"/>
      <xsd:enumeration value="activeParticipation"/>
      <xsd:enumeration value="alertTimeExpired"/>
      <xsd:enumeration value="alternate"/>
      <xsd:enumeration value="autoWork"/>
      <xsd:enumeration value="blocked"/>
      <xsd:enumeration value="busy"/>
      <xsd:enumeration value="busyOverflow"/>
      <xsd:enumeration value="calendarOverflow"/>
      <xsd:enumeration value="callBack"/>
      <xsd:enumeration value="callCancelled"/>
      <xsd:enumeration value="callForward"/>
      <xsd:enumeration value="callForwardImmediate"/>
      <xsd:enumeration value="callForwardBusy"/>
      <xsd:enumeration value="callForwardNoAnswer"/>
      <xsd:enumeration value="callNotAnswered"/>
      <xsd:enumeration value="callPickup"/>
      <xsd:enumeration value="campOn"/>
      <xsd:enumeration value="campOnTrunks"/>
      <xsd:enumeration value="capacityOverflow"/>
      <xsd:enumeration value="characterCountReached"/>
      <xsd:enumeration value="conference"/>
      <xsd:enumeration value="consultation"/>
      <xsd:enumeration value="destDetected"/>
      <xsd:enumeration value="destNotObtainable"/>
      <xsd:enumeration value="destOutOfOrder"/>
      <xsd:enumeration value="distributed"/>
      <xsd:enumeration value="distributionDelay"/>
      <xsd:enumeration value="doNotDisturb"/>
      <xsd:enumeration value="dtmFDigitDetected"/>
      <xsd:enumeration value="durationExceeded"/>
      <xsd:enumeration value="endOfMessageDetected"/>
      <xsd:enumeration value="enteringDistribution"/>
      <xsd:enumeration value="forcedPause"/>
      <xsd:enumeration value="forcedTransition"/>
      <xsd:enumeration value="incompatibleDestination"/>
      <xsd:enumeration value="intrude"/>
      <xsd:enumeration value="invalidAccountCode"/>
      <xsd:enumeration value="invalidNumberFormat"/>
      <xsd:enumeration value="joinCall"/>
      <xsd:enumeration value="keyOperation"/>
      <xsd:enumeration value="keyOperationInUse"/>
      <xsd:enumeration value="lockout"/>
      <xsd:enumeration value="maintenance"/>
      <xsd:enumeration value="makeCall"/>
      <xsd:enumeration value="makePredictiveCall"/>
      <xsd:enumeration value="messageDurationExceeded"/>
      <xsd:enumeration value="messageSizeExceeded"/>
      <xsd:enumeration value="multipleAlerting"/>
      <xsd:enumeration value="multipleQueuing"/>
      <xsd:enumeration value="networkCongestion"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:schema>
```

```
<xsd:enumeration value="networkDialling"/>
<xsd:enumeration value="networkNotObtainable"/>
<xsd:enumeration value="networkOutOfOrder"/>
<xsd:enumeration value="networkSignal"/>
<xsd:enumeration value="newCall"/>
<xsd:enumeration value="nextMessage"/>
<xsd:enumeration value="noAvailableAgents"/>
<xsd:enumeration value="normal"/>
<xsd:enumeration value="normalClearing"/>
<xsd:enumeration value="noSpeechDetected"/>
<xsd:enumeration value="notAvaliableBearerService"/>
<xsd:enumeration value="notSupportedBearerService"/>
<xsd:enumeration value="numberChanged"/>
<xsd:enumeration value="numberUnallocated"/>
<xsd:enumeration value="overflow"/>
<xsd:enumeration value="override"/>
<xsd:enumeration value="park"/>
<xsd:enumeration value="pathReplacement"/>
<xsd:enumeration value="queueCleared"/>
<xsd:enumeration value="queueTimeOverflow"/>
<xsd:enumeration value="recall"/>
<xsd:enumeration value="recallBusy"/>
<xsd:enumeration value="recallForwarded"/>
<xsd:enumeration value="recallNoAnswer"/>
<xsd:enumeration value="recallResourcesNotAvailable"/>
<xsd:enumeration value="redirected"/>
<xsd:enumeration value="remainsInQueue"/>
<xsd:enumeration value="reorderTone"/>
<xsd:enumeration value="reserved"/>
<xsd:enumeration value="resourcesNotAvailable"/>
<xsd:enumeration value="selectedTrunkBusy"/>
<xsd:enumeration value="silentParticipation"/>
<xsd:enumeration value="singleStepConference"/>
<xsd:enumeration value="singleStepTransfer"/>
<xsd:enumeration value="speechDetected"/>
<xsd:enumeration value="suspend"/>
<xsd:enumeration value="switchingFunctionTerminated"/>
<xsd:enumeration value="terminationCharacterReceived"/>
<xsd:enumeration value="timeout"/>
<xsd:enumeration value="transfer"/>
<xsd:enumeration value="trunksBusy"/>
<xsd:enumeration value="unauthorisedBearerService"/>
<xsd:enumeration value="unknownOverflow"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:element name="cause" type="csta:EventCause"/>
</xsd:schema>
```

9.19 Error Value

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-error-definition</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:simpleType name="OperationErrors">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="generic"/>
      <xsd:enumeration value="atLeastOneConditionalParameterNotProvided"/>
      <xsd:enumeration value="featureAlreadySet"/>
      <xsd:enumeration value="invalidMsgID"/>
      <xsd:enumeration value="invalidParameterValue"/>
      <xsd:enumeration value="invalidAccountCode"/>
      <xsd:enumeration value="invalidAgentGroup"/>
      <xsd:enumeration value="invalidAgentIdentifier"/>
      <xsd:enumeration value="invalidAgentPassword"/>
      <xsd:enumeration value="invalidAgentState"/>
      <xsd:enumeration value="invalidAlertTime"/>
      <xsd:enumeration value="invalidAllocationState"/>
      <xsd:enumeration value="invalidAuthCode"/>
      <xsd:enumeration value="invalidAutoAnswer"/>
      <xsd:enumeration value="invalidBitRate"/>
      <xsd:enumeration value="invalidButtonIdentifier"/>
      <xsd:enumeration value="invalidCallType"/>
      <xsd:enumeration value="invalidConnectionRate"/>
      <xsd:enumeration value="invalidConsultPurpose"/>
      <xsd:enumeration value="invalidCorrelatorData"/>
      <xsd:enumeration value="invalidCrossRefID"/>
      <xsd:enumeration value="invalidDelayTolerance"/>
      <xsd:enumeration value="invalidDestination"/>
      <xsd:enumeration value="invalidDestinationDetect"/>
      <xsd:enumeration value="invalidDoNotDisturb"/>
      <xsd:enumeration value="invalidEscapeCrossRefID"/>
      <xsd:enumeration value="invalidFeature"/>
      <xsd:enumeration value="invalidFile"/>
      <xsd:enumeration value="invalidFlowDirection"/>
      <xsd:enumeration value="invalidForwardingDestination"/>
      <xsd:enumeration value="invalidForwardingFlag"/>
      <xsd:enumeration value="invalidForwardingType"/>
      <xsd:enumeration value="invalidHookswitchType"/>
      <xsd:enumeration value="invalidHookswitchComponent"/>
      <xsd:enumeration value="invalidLampMode"/>
      <xsd:enumeration value="invalidLampID"/>
      <xsd:enumeration value="invalidMessageWaitingSetting"/>
      <xsd:enumeration value="invalidMicrophoneGain"/>
      <xsd:enumeration value="invalidMicrophoneMute"/>
      <xsd:enumeration value="invalidMonitorCrossRefID"/>
      <xsd:enumeration value="invalidMonitorFilter"/>
      <xsd:enumeration value="invalidMonitorObject"/>
      <xsd:enumeration value="invalidMonitorType"/>
      <xsd:enumeration value="invalidNumberOfChannels"/>
      <xsd:enumeration value="invalidParticipationType"/>
      <xsd:enumeration value="invalidRemainRetry"/>
      <xsd:enumeration value="invalidRingCount"/>
      <xsd:enumeration value="invalidRingPattern"/>
      <xsd:enumeration value="invalidRingVolume"/>
      <xsd:enumeration value="invalidRouteingAlgorithm"/>
      <xsd:enumeration value="invalidRouteingCrossRefID"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:schema>
```

```
<xsd:enumeration value="invalidRouteRegistrationCrossRefID"/>
<xsd:enumeration value="invalidSpeakerVolume"/>
<xsd:enumeration value="invalidSpeakerMute"/>
<xsd:enumeration value="invalidSwitchingSubdomainCharsType"/>
<xsd:enumeration value="invalidObjectType"/>
<xsd:enumeration value="invalidActiveCallObject"/>
<xsd:enumeration value="invalidCalledDeviceObjectType"/>
<xsd:enumeration value="invalidCallingDeviceObjectType"/>
<xsd:enumeration value="invalidCallToBePickedUpObjectType"/>
<xsd:enumeration value="invalidCallToDivertObjectType"/>
<xsd:enumeration value="invalidCallToParkObjectType"/>
<xsd:enumeration value="invalidDestinationDeviceObject"/>
<xsd:enumeration value="invalidHeldCallObject"/>
<xsd:enumeration value="invalidMonitorObjectType"/>
<xsd:enumeration value="invalidParkToObjectType"/>
<xsd:enumeration value="messageIDRequired"/>
<xsd:enumeration value="notDifferentDevices"/>
<xsd:enumeration value="notSameDevice"/>
<xsd:enumeration value="objectNotKnown"/>
<xsd:enumeration value="invalidCallID"/>
<xsd:enumeration value="invalidActiveCallID"/>
<xsd:enumeration value="invalidHeldCallID"/>
<xsd:enumeration value="invalidConnectionID"/>
<xsd:enumeration value="invalidActiveConnectionID"/>
<xsd:enumeration value="invalidHeldConnectionID"/>
<xsd:enumeration value="invalidDeviceID"/>
<xsd:enumeration value="invalidActiveDeviceID"/>
<xsd:enumeration value="invalidCalledDeviceID"/>
<xsd:enumeration value="invalidCallingDeviceID"/>
<xsd:enumeration value="invalidCallToParkDeviceID"/>
<xsd:enumeration value="invalidDestinationDeviceID"/>
<xsd:enumeration value="invalidDivertingDeviceID"/>
<xsd:enumeration value="invalidHeldDeviceID"/>
<xsd:enumeration value="invalidParkToDeviceID"/>
<xsd:enumeration value="invalidPickUpDeviceID"/>
<xsd:enumeration value="parameterNotSupported"/>
<xsd:enumeration value="accountCodeNotSupported"/>
<xsd:enumeration value="agentGroupNotSupported"/>
<xsd:enumeration value="agentPasswordNotSupported"/>
<xsd:enumeration value="agentStateNotSupported"/>
<xsd:enumeration value="alertTimeNotSupported"/>
<xsd:enumeration value="allocationNotSupported"/>
<xsd:enumeration value="authorisationCodeNotSupported"/>
<xsd:enumeration value="autoAnswerNotSupported"/>
<xsd:enumeration value="bitRateNotSupported"/>
<xsd:enumeration value="buttonNotSupported"/>
<xsd:enumeration value="callTypeNotSupported"/>
<xsd:enumeration value="charactersToSendNotSupported"/>
<xsd:enumeration value="connectionRateNotSupported"/>
<xsd:enumeration value="connectionReservationNotSupported"/>
<xsd:enumeration value="consultPurposeNotSupported"/>
<xsd:enumeration value="correlatorDataNotSupported"/>
<xsd:enumeration value="delayToleranceNotSupported"/>
<xsd:enumeration value="destinationDetectNotSupported"/>
<xsd:enumeration value="digitModeNotSupported"/>
<xsd:enumeration value="errorValueNotSupported"/>
<xsd:enumeration value="flowDirectionNotSupported"/>
<xsd:enumeration value="forwardingDestinationNotSupported"/>
<xsd:enumeration value="lampNotSupported"/>
<xsd:enumeration value="monitorTypeNotSupported"/>
<xsd:enumeration value="numberOfChannelsNotSupported"/>
<xsd:enumeration value="parameterTypeNotSupported"/>
<xsd:enumeration value="priorityNotSupported"/>
<xsd:enumeration value="privateDataNotSupported"/>
<xsd:enumeration value="pulseDurationNotSupported"/>
<xsd:enumeration value="pulseRateNotSupported"/>
<xsd:enumeration value="remainRetryNotSupported"/>
<xsd:enumeration value="ringCountNotSupported"/>
```

```
<xsd:enumeration value="routeUsedNotSupported"/>
<xsd:enumeration value="securityNotSupported"/>
<xsd:enumeration value="swSubdomainCCIETypeNotSupported"/>
<xsd:enumeration value="toneDurationNotSupported"/>
<xsd:enumeration value="sysStatRegIDNotSupported"/>
<xsd:enumeration value="userDataNotSupported"/>
<xsd:enumeration value="privilegeViolationSpecifiedDevice"/>
<xsd:enumeration value="privilegeViolationActiveDevice"/>
<xsd:enumeration value="privilegeViolationCalledDevice"/>
<xsd:enumeration value="privilegeViolationCallingDevice"/>
<xsd:enumeration value="privilegeViolationCallToParkDevice"/>
<xsd:enumeration value="privilegeViolationDestinationDevice"/>
<xsd:enumeration value="privilegeViolationOnDivertingDevice"/>
<xsd:enumeration value="privilegeViolationHeldDevice"/>
<xsd:enumeration value="privilegeViolationOnParkToDevice"/>
<xsd:enumeration value="privilegeViolationPickUpDevice"/>
<xsd:enumeration value="routeingTimerExpired"/>
<xsd:enumeration value="requestIncompatibleWithObject"/>
<xsd:enumeration value="requestIncompatibleWithConnection"/>
<xsd:enumeration value="requestIncompatibleWithActiveConnection"/>
<xsd:enumeration value="requestIncompatibleWithHeldConnection"/>
<xsd:enumeration value="requestIncompatibleWithDevice"/>
<xsd:enumeration value="requestIncompatibleWithCalledDevice"/>
<xsd:enumeration value="requestIncompatibleWithCallingDevice"/>
<xsd:enumeration value="requestIncompatibleWithSubjectDevice"/>
<xsd:enumeration value="requestIncompatibleWithActiveDevice"/>
<xsd:enumeration value="requestIncompatibleWithCallToParkDevice"/>
<xsd:enumeration value="requestIncompatibleWithDestinationDevice"/>
<xsd:enumeration value="requestIncompatibleWithDivertingDevice"/>
<xsd:enumeration value="requestIncompatibleWithHeldDevice"/>
<xsd:enumeration value="requestIncompatibleWithMedia"/>
<xsd:enumeration value="requestIncompatibleWithParkToDevice"/>
<xsd:enumeration value="requestIncompatibleWithPickupDevice"/>
<xsd:enumeration value="serviceNotSupported"/>
<xsd:enumeration value="securityViolation"/>
<xsd:enumeration value="valueOutOfRange"/>
<xsd:enumeration value="agentStateOutOfRange"/>
<xsd:enumeration value="alertTimeOutOfRange"/>
<xsd:enumeration value="allocationOutOfRange"/>
<xsd:enumeration value="autoAnswerOutOfRange"/>
<xsd:enumeration value="bitRateOutOfRange"/>
<xsd:enumeration value="callTypeOutOfRange"/>
<xsd:enumeration value="connectionRateOutOfRange"/>
<xsd:enumeration value="connectionReservoationOutOfRange"/>
<xsd:enumeration value="consultPurposeOutOfRange"/>
<xsd:enumeration value="correlatorDataOutOfRange"/>
<xsd:enumeration value="delayToleranceOutOfRange"/>
<xsd:enumeration value="destinationDetectOutOfRange"/>
<xsd:enumeration value="digitModeOutOfRange"/>
<xsd:enumeration value="doNotDisturbOutOfRange"/>
<xsd:enumeration value="flowDirectionOutOfRange"/>
<xsd:enumeration value="forwardingFlagOutOfRange"/>
<xsd:enumeration value="forwardingTypeOutOfRange"/>
<xsd:enumeration value="hookswitchComponentOutOfRange"/>
<xsd:enumeration value="hookswitchTypeOutOfRange"/>
<xsd:enumeration value="lampModeOutOfRange"/>
<xsd:enumeration value="messageWaitingSettingOutOfRange"/>
<xsd:enumeration value="micGainOutOfRange"/>
<xsd:enumeration value="micMuteOutOfRange"/>
<xsd:enumeration value="monitorTypeOutOfRange"/>
<xsd:enumeration value="numberOfChannelsOutOfRange"/>
<xsd:enumeration value="participationTypeOutOfRange"/>
<xsd:enumeration value="pulseDurationOutOfRange"/>
<xsd:enumeration value="pulseRateOutOfRange"/>
<xsd:enumeration value="ringCountOutOfRange"/>
<xsd:enumeration value="ringPatternOutOfRange"/>
<xsd:enumeration value="ringVolumnOutOfRange"/>
<xsd:enumeration value="routeingAlgorithmOutOfRange"/>
```

```
<xsd:enumeration value="speakerMuteOutOfRange"/>
<xsd:enumeration value="speakerVolumeOutOfRange"/>
<xsd:enumeration value="switchingCcittTypeOutOfRange"/>
<xsd:enumeration value="systemStatusOutOfRange"/>
<xsd:enumeration value="toneCharacterOutOfRange"/>
<xsd:enumeration value="toneDurationOutOfRange"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SecurityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="sequenceNumberViolated"/>
    <xsd:enumeration value="timeStampViolated"/>
    <xsd:enumeration value="securityInfoViolated"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="StateIncompatibilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="invalidObjectState"/>
    <xsd:enumeration value="invalidDeviceState"/>
    <xsd:enumeration value="connectedCallExists"/>
    <xsd:enumeration value="invalidActiveDeviceState"/>
    <xsd:enumeration value="invalidCalledDeviceState"/>
    <xsd:enumeration value="invalidCallingDeviceState"/>
    <xsd:enumeration value="invalidCallToParkDeviceState"/>
    <xsd:enumeration value="invalidDestinationDeviceState"/>
    <xsd:enumeration value="invalidDivertingDeviceState"/>
    <xsd:enumeration value="invalidHeldDeviceState"/>
    <xsd:enumeration value="invalidParkToDeviceState"/>
    <xsd:enumeration value="invalidConnectionState"/>
    <xsd:enumeration value="invalidActiveConnectionState"/>
    <xsd:enumeration value="invalidConnectionIDForActiveCall"/>
    <xsd:enumeration value="invalidHeldConnectionState"/>
    <xsd:enumeration value="noActiveCall"/>
    <xsd:enumeration value="noCallToAnswer"/>
    <xsd:enumeration value="noCallToClear"/>
    <xsd:enumeration value="noCallToComplete"/>
    <xsd:enumeration value="noConnectionToClear"/>
    <xsd:enumeration value="noHeldCall"/>
    <xsd:enumeration value="incorrectMsgState"/>
    <xsd:enumeration value="beginningOfMsg"/>
    <xsd:enumeration value="endOfMsg"/>
    <xsd:enumeration value="msgSuspended"/>
    <xsd:enumeration value="notAbleToPlay"/>
    <xsd:enumeration value="notAbleToResume"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SystemResourceAvailabilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="resourceBusy"/>
    <xsd:enumeration value="internalResourceBusy"/>
    <xsd:enumeration value="classifierBusy"/>
    <xsd:enumeration value="noMediaChannelsAvailable"/>
    <xsd:enumeration value="channelsInUseForBridgedDevices"/>
    <xsd:enumeration value="channelsInUseForData"/>
    <xsd:enumeration value="toneDetectorBusy"/>
    <xsd:enumeration value="toneGeneratorBusy"/>
    <xsd:enumeration value="networkBusy"/>
    <xsd:enumeration value="resourceOutOfService"/>
    <xsd:enumeration value="deviceOutOfService"/>
    <xsd:enumeration value="activeDeviceOutOfService"/>
    <xsd:enumeration value="calledDeviceOutOfService"/>
    <xsd:enumeration value="callingDeviceOutOfService"/>
  </xsd:restriction>
</xsd:simpleType>
```

```
<xsd:enumeration value="callToParkDeviceOutOfService"/>
<xsd:enumeration value="destinationDeviceOutOfService"/>
<xsd:enumeration value="divertingDeviceOutOfService"/>
<xsd:enumeration value="heldDeviceOutOfService"/>
<xsd:enumeration value="parkToDeviceOutOfService"/>
<xsd:enumeration value="pickupDeviceOutOfService"/>
<xsd:enumeration value="networkOutOfService"/>
<xsd:enumeration value="otherResourceOutOfService"/>
<xsd:enumeration value="resourceLimitExceeded"/>
<xsd:enumeration value="overallMonitorLimitExceeded"/>
<xsd:enumeration value="conferenceMemberLimitExceeded"/>
<xsd:enumeration value="registrationLimitExceeded"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SubscribedResourceAvailabilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="objectMonitorLimitExceeded"/>
    <xsd:enumeration value="trunkLimitExceeded"/>
    <xsd:enumeration value="outstandingReqLimitExceeded"/>
    <xsd:enumeration value="objectRegistrationLimitExceeded"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PerformanceManagementErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="performanceLimitExceeded"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PrivateDataInfoErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="cSTAPrivateDataInfoError"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="CSTAErrorCode" type="csta:UniversalFailure"/>
<xsd:complexType name="UniversalFailure">
  <xsd:choice>
    <xsd:element name="operation" type="csta:OperationErrors"/>
    <xsd:element name="security" type="csta:SecurityErrors"/>
    <xsd:element name="stateIncompatibility" type="csta:StateIncompatibilityErrors"/>
    <xsd:element name="systemResourceAvailability"
      type="csta:SystemResourceAvailabilityErrors"/>
    <xsd:element name="subscribedResourceAvailability"
      type="csta:SubscribedResourceAvailabilityErrors"/>
    <xsd:element name="performanceManagement" type="csta:PerformanceManagementErrors"/>
    <xsd:element name="privateData" type="csta:PrivateDataInfoErrors"/>
    <xsd:element name="unspecified" type="csta:Empty"/>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="ErrorValue">
  <xsd:complexContent>
    <xsd:extension base="csta:UniversalFailure"/>
  </xsd:complexContent>
</xsd:complexType>

</xsd:schema>
```


9.20 Empty (null element)

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>replacement for ASN.1 NULL type and helper type for representation of the
ASN.1 BIT STRING type</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="Empty"/>

</xsd:schema>
```

10 Top level schema

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:import namespace="http://schemas.xmlsoap.org/soap/envelope/" />

  <xsd:annotation>
    <xsd:documentation>csta</xsd:documentation>
  </xsd:annotation>

  <xsd:annotation>
    <xsd:documentation>Capability Exchange Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="get-logical-device-information.xsd"/>
  <xsd:include schemaLocation="get-physical-device-information.xsd"/>
  <xsd:include schemaLocation="get-switching-function-capabilities.xsd"/>
  <xsd:include schemaLocation="get-switching-function-devices.xsd"/>
  <xsd:include schemaLocation="switching-function-devices.xsd"/>

  <xsd:annotation>
    <xsd:documentation>System Services</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="change-system-status-filter.xsd"/>
  <xsd:include schemaLocation="system-register.xsd"/>
  <xsd:include schemaLocation="system-register-abort.xsd"/>
  <xsd:include schemaLocation="system-register-cancel.xsd"/>
  <xsd:include schemaLocation="request-system-status.xsd"/>
  <xsd:include schemaLocation="system-status.xsd"/>
  <xsd:include schemaLocation="switching-functions-capabilities-changed.xsd"/>
  <xsd:include schemaLocation="switching-functions-devices-changed.xsd"/>
  <xsd:annotation>
    <xsd:documentation>Monitoring Services</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="change-monitor-filter.xsd"/>
  <xsd:include schemaLocation="monitor-start.xsd"/>
  <xsd:include schemaLocation="monitor-stop.xsd"/>
  <xsd:annotation>
    <xsd:documentation>Snapshot Services</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="snapshot-call.xsd"/>
  <xsd:include schemaLocation="snapshot-device.xsd"/>
  <xsd:include schemaLocation="snapshot-call-data.xsd"/>
  <xsd:include schemaLocation="snapshot-device-data.xsd"/>
  <xsd:annotation>
    <xsd:documentation>Call Control Services</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="accept-call.xsd"/>
  <xsd:include schemaLocation="alternate-call.xsd"/>
  <xsd:include schemaLocation="answer-call.xsd"/>
  <xsd:include schemaLocation="call-back-call-related.xsd"/>
  <xsd:include schemaLocation="call-back-message-call-related.xsd"/>
  <xsd:include schemaLocation="camp-on-call.xsd"/>
  <xsd:include schemaLocation="clear-call.xsd"/>
  <xsd:include schemaLocation="clear-connection.xsd"/>
  <xsd:include schemaLocation="conference-call.xsd"/>
  <xsd:include schemaLocation="consultation-call.xsd"/>
  <xsd:include schemaLocation="deflect-call.xsd"/>
  <xsd:include schemaLocation="dial-digits.xsd"/>
  <xsd:include schemaLocation="directed-pickup-call.xsd"/>
  <xsd:include schemaLocation="group-pickup-call.xsd"/>
  <xsd:include schemaLocation="hold-call.xsd"/>
  <xsd:include schemaLocation="intrude-call.xsd"/>
```

```
<xsd:include schemaLocation="join-call.xsd"/>
<xsd:include schemaLocation="make-call.xsd"/>
<xsd:include schemaLocation="make-predictive-call.xsd"/>
<xsd:include schemaLocation="park-call.xsd"/>
<xsd:include schemaLocation="reconnect-call.xsd"/>
<xsd:include schemaLocation="retrieve-call.xsd"/>
<xsd:include schemaLocation="send-message.xsd"/>
<xsd:include schemaLocation="single-step-conference-call.xsd"/>
<xsd:include schemaLocation="single-step-transfer.xsd"/>
<xsd:include schemaLocation="transfer-call.xsd"/>
<xsd:annotation>
  <xsd:documentation>Call Control Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="bridged-event.xsd"/>
<xsd:include schemaLocation="call-cleared-event.xsd"/>
<xsd:include schemaLocation="conferenced-event.xsd"/>
<xsd:include schemaLocation="connection-cleared-event.xsd"/>
<xsd:include schemaLocation="delivered-event.xsd"/>
<xsd:include schemaLocation="digits-dialed-event.xsd"/>
<xsd:include schemaLocation="diverted-event.xsd"/>
<xsd:include schemaLocation="failed-event.xsd"/>
<xsd:include schemaLocation="established-event.xsd"/>
<xsd:include schemaLocation="held-event.xsd"/>
<xsd:include schemaLocation="network-capabilities-changed-event.xsd"/>
<xsd:include schemaLocation="network-reached-event.xsd"/>
<xsd:include schemaLocation="offered-event.xsd"/>
<xsd:include schemaLocation="originated-event.xsd"/>
<xsd:include schemaLocation="queued-event.xsd"/>
<xsd:include schemaLocation="retrieved-event.xsd"/>
<xsd:include schemaLocation="service-initiated-event.xsd"/>
<xsd:include schemaLocation="transferred-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Call Associated Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="associate-data.xsd"/>
<xsd:include schemaLocation="cancel-telephony-tones.xsd"/>
<xsd:include schemaLocation="change-connection-information.xsd"/>
<xsd:include schemaLocation="generate-digits.xsd"/>
<xsd:include schemaLocation="generate-telephony-tones.xsd"/>
<xsd:include schemaLocation="send-user-information.xsd"/>
<xsd:annotation>
  <xsd:documentation>Call Associated Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="call-information-event.xsd"/>
<xsd:include schemaLocation="charging-event.xsd"/>
<xsd:include schemaLocation="digits-generated-event.xsd"/>
<xsd:include schemaLocation="telephony-tones-generated-event.xsd"/>
<xsd:include schemaLocation="service-completion-failure-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Media Attachment Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="attach-media-service.xsd"/>
<xsd:include schemaLocation="detach-media-service.xsd"/>
<xsd:annotation>
  <xsd:documentation>Media Attachment Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="media-attached-event.xsd"/>
<xsd:include schemaLocation="media-detached-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Routeing Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="route-register.xsd"/>
<xsd:include schemaLocation="route-register-abort.xsd"/>
<xsd:include schemaLocation="route-register-cancel.xsd"/>
<xsd:include schemaLocation="re-route.xsd"/>
<xsd:include schemaLocation="route-end.xsd"/>
<xsd:include schemaLocation="route-reject.xsd"/>
<xsd:include schemaLocation="route-request.xsd"/>
```

```
<xsd:include schemaLocation="route-select.xsd"/>
<xsd:include schemaLocation="route-used.xsd"/>
<xsd:annotation>
  <xsd:documentation>Physical Device Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="button-press.xsd"/>
<xsd:include schemaLocation="get-auditory-apparatus-information.xsd"/>
<xsd:include schemaLocation="get-button-information.xsd"/>
<xsd:include schemaLocation="get-display.xsd"/>
<xsd:include schemaLocation="get-hookswitch-status.xsd"/>
<xsd:include schemaLocation="get-lamp-information.xsd"/>
<xsd:include schemaLocation="get-lamp-mode.xsd"/>
<xsd:include schemaLocation="get-message-waiting-indicator.xsd"/>
<xsd:include schemaLocation="get-microphone-gain.xsd"/>
<xsd:include schemaLocation="get-microphone-mute.xsd"/>
<xsd:include schemaLocation="get-ringer-status.xsd"/>
<xsd:include schemaLocation="get-speaker-mute.xsd"/>
<xsd:include schemaLocation="get-speaker-volume.xsd"/>
<xsd:include schemaLocation="set-button-information.xsd"/>
<xsd:include schemaLocation="set-display.xsd"/>
<xsd:include schemaLocation="set-hookswitch-status.xsd"/>
<xsd:include schemaLocation="set-lamp-mode.xsd"/>
<xsd:include schemaLocation="set-message-waiting-indicator.xsd"/>
<xsd:include schemaLocation="set-microphone-gain.xsd"/>
<xsd:include schemaLocation="set-microphone-mute.xsd"/>
<xsd:include schemaLocation="set-ringer-status.xsd"/>
<xsd:include schemaLocation="set-speaker-mute.xsd"/>
<xsd:include schemaLocation="set-speaker-volume.xsd"/>
<xsd:annotation>
  <xsd:documentation>Physical Device Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="button-information-event.xsd"/>
<xsd:include schemaLocation="button-press-event.xsd"/>
<xsd:include schemaLocation="display-updated-event.xsd"/>
<xsd:include schemaLocation="hookswitch-event.xsd"/>
<xsd:include schemaLocation="lamp-mode-event.xsd"/>
<xsd:include schemaLocation="message-waiting-event.xsd"/>
<xsd:include schemaLocation="microphone-gain-event.xsd"/>
<xsd:include schemaLocation="microphone-mute-event.xsd"/>
<xsd:include schemaLocation="ringer-status-event.xsd"/>
<xsd:include schemaLocation="speaker-mute-event.xsd"/>
<xsd:include schemaLocation="speaker-volume-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Logical Device Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="call-back-non-call-related.xsd"/>
<xsd:include schemaLocation="call-back-message-non-call-related.xsd"/>
<xsd:include schemaLocation="cancel-call-back.xsd"/>
<xsd:include schemaLocation="cancel-call-back-message.xsd"/>
<xsd:include schemaLocation="get-agent-state.xsd"/>
<xsd:include schemaLocation="get-auto-answer.xsd"/>
<xsd:include schemaLocation="get-auto-work-mode.xsd"/>
<xsd:include schemaLocation="get-caller-id-status.xsd"/>
<xsd:include schemaLocation="get-do-not-disturb.xsd"/>
<xsd:include schemaLocation="get-forwarding.xsd"/>
<xsd:include schemaLocation="get-last-number-dialed.xsd"/>
<xsd:include schemaLocation="get-routeing-mode.xsd"/>
<xsd:include schemaLocation="set-agent-state.xsd"/>
<xsd:include schemaLocation="set-auto-answer.xsd"/>
<xsd:include schemaLocation="set-auto-work-mode.xsd"/>
<xsd:include schemaLocation="set-caller-id-status.xsd"/>
<xsd:include schemaLocation="set-do-not-disturb.xsd"/>
<xsd:include schemaLocation="set-forwarding.xsd"/>
<xsd:include schemaLocation="set-routeing-mode.xsd"/>
<xsd:annotation>
  <xsd:documentation>Logical Device Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="agent-busy-event.xsd"/>
```

```
<xsd:include schemaLocation="agent-logged-off-event.xsd"/>
<xsd:include schemaLocation="agent-logged-on-event.xsd"/>
<xsd:include schemaLocation="agent-not-ready-event.xsd"/>
<xsd:include schemaLocation="agent-ready-event.xsd"/>
<xsd:include schemaLocation="agent-working-after-call-event.xsd"/>
<xsd:include schemaLocation="auto-answer-event.xsd"/>
<xsd:include schemaLocation="auto-work-mode-event.xsd"/>
<xsd:include schemaLocation="call-back-event.xsd"/>
<xsd:include schemaLocation="call-back-message-event.xsd"/>
<xsd:include schemaLocation="caller-id-status-event.xsd"/>
<xsd:include schemaLocation="do-not-disturb-event.xsd"/>
<xsd:include schemaLocation="forwarding-event.xsd"/>
<xsd:include schemaLocation="routeing-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Device Maintenance Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="back-in-service-event.xsd"/>
<xsd:include schemaLocation="device-capabilities-changed-event.xsd"/>
<xsd:include schemaLocation="out-of-service-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>I/O Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="io-register.xsd"/>
<xsd:include schemaLocation="io-register-abort.xsd"/>
<xsd:include schemaLocation="io-register-cancel.xsd"/>
<xsd:include schemaLocation="data-path-resumed.xsd"/>
<xsd:include schemaLocation="data-path-suspended.xsd"/>
<xsd:include schemaLocation="fast-data.xsd"/>
<xsd:include schemaLocation="resume-data-path.xsd"/>
<xsd:include schemaLocation="send-broadcast-data.xsd"/>
<xsd:include schemaLocation="send-data.xsd"/>
<xsd:include schemaLocation="send-multicast-data.xsd"/>
<xsd:include schemaLocation="start-data-path.xsd"/>
<xsd:include schemaLocation="stop-data-path.xsd"/>
<xsd:include schemaLocation="suspend-data-path.xsd"/>
<xsd:annotation>
  <xsd:documentation>Data Collection Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="data-collected.xsd"/>
<xsd:include schemaLocation="data-collection-resumed.xsd"/>
<xsd:include schemaLocation="data-collection-suspended.xsd"/>
<xsd:include schemaLocation="resume-data-collection.xsd"/>
<xsd:include schemaLocation="start-data-collection.xsd"/>
<xsd:include schemaLocation="stop-data-collection.xsd"/>
<xsd:include schemaLocation="suspend-data-collection.xsd"/>
<xsd:annotation>
  <xsd:documentation>Voice Unit Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="concatenate-message.xsd"/>
<xsd:include schemaLocation="delete-message.xsd"/>
<xsd:include schemaLocation="play-message.xsd"/>
<xsd:include schemaLocation="query-voice-attribute.xsd"/>
<xsd:include schemaLocation="record-message.xsd"/>
<xsd:include schemaLocation="reposition.xsd"/>
<xsd:include schemaLocation="resume.xsd"/>
<xsd:include schemaLocation="review.xsd"/>
<xsd:include schemaLocation="set-voice-attribute.xsd"/>
<xsd:include schemaLocation="stop.xsd"/>
<xsd:include schemaLocation="suspend.xsd"/>
<xsd:include schemaLocation="synthesize-message.xsd"/>
<xsd:annotation>
  <xsd:documentation>Voice Unit Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="play-event.xsd"/>
<xsd:include schemaLocation="record-event.xsd"/>
<xsd:include schemaLocation="review-event.xsd"/>
<xsd:include schemaLocation="stop-event.xsd"/>
<xsd:include schemaLocation="suspend-play-event.xsd"/>
```

```
<xsd:include schemaLocation="suspend-record-event.xsd"/>
<xsd:include schemaLocation="voice-attribute-changed-event.xsd"/>
<xsd:annotation>
  <xsd:documentation>Call Detail Record Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="call-detail-records-notification.xsd"/>
<xsd:include schemaLocation="call-detail-records-report.xsd"/>
<xsd:include schemaLocation="send-stored-call-detail-records.xsd"/>
<xsd:include schemaLocation="start-call-detail-records-transmission.xsd"/>
<xsd:include schemaLocation="stop-call-detail-records-transmission.xsd"/>
<xsd:annotation>
  <xsd:documentation>Vendor Specific Extensions Services</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="escape-register.xsd"/>
<xsd:include schemaLocation="escape-register-abort.xsd"/>
<xsd:include schemaLocation="escape-register-cancel.xsd"/>
<xsd:include schemaLocation="escape.xsd"/>
<xsd:include schemaLocation="private-data-version-selection.xsd"/>
<xsd:annotation>
  <xsd:documentation>Vendor Specific Extensions Events</xsd:documentation>
</xsd:annotation>
<xsd:include schemaLocation="private-event.xsd"/>

</xsd:schema>
```

11 Capability exchange services

11.1 Services

11.1.1 Get logical device information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-logical-device-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="data-call-types.xsd"/>

  <xsd:element name="GetLogicalDeviceInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLogicalDeviceInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"
minOccurs="0"/>
        <xsd:element name="groupDeviceAttributes" type="csta:GroupDeviceAttributes" minOccurs="0"/>
        <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
        <xsd:element name="shortFormDeviceID" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="hasPhysicalElement" type="xsd:boolean"/>
        <xsd:element name="acdModels" type="csta:ACDModels"/>
        <xsd:element name="agentLogOnModels" type="csta:AgentLogOnModels" minOccurs="0"/>
        <xsd:element name="appearanceAddressable" type="xsd:boolean"/>
        <xsd:element name="appearanceType" type="csta:AppearanceType"/>
        <xsd:element name="appearanceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="appearance" type="xsd:string" minOccurs="0" maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="otherPhysicalDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="miscMonitorCaps" type="csta:MiscMonitorCaps" minOccurs="0"/>
        <xsd:element name="associatedGroupList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

```
<xsd:element name="maxCallbacks" type="xsd:long" minOccurs="0"/>
<xsd:element name="maxAutoAnswerRings" type="xsd:long" minOccurs="0"/>
<xsd:element name="maxActiveCalls" type="xsd:long" minOccurs="0"/>
<xsd:element name="maxHeldCalls" type="xsd:long" minOccurs="0"/>
<xsd:element name="maxFwdSettings" type="xsd:long" minOccurs="0"/>
<xsd:element name="maxDevicesInConf" type="xsd:long" minOccurs="0"/>
<xsd:element name="transAndConfSetup" type="csta:TransAndConfSetup" minOccurs="0"/>
<xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
<xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
minOccurs="0"/>
<xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
<xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
<xsd:element name="mediaClassSupport" type="csta:MonitorMediaClass" minOccurs="0"/>
<xsd:element name="mediaServiceCapsList" type="csta:MediaServiceCapsList" minOccurs="0"/>
<xsd:element name="connectionRateList" type="csta:ConnectionRateList" minOccurs="0"/>
<xsd:element name="delayToleranceList" type="csta:DelayToleranceList" minOccurs="0"/>
<xsd:element name="numberOfChannels" type="csta:NumberOfChannels" minOccurs="0"/>
<xsd:element name="maxChannelBind" type="csta:MaxChannelBind" minOccurs="0"/>
<xsd:element name="routeingServList" type="csta:RouteingServList" minOccurs="0"/>
<xsd:element name="logDevServList" type="csta:LogDevServList" minOccurs="0"/>
<xsd:element name="logDevEvtsList" type="csta:LogDevEvtsList" minOccurs="0"/>
<xsd:element name="deviceMaintEvtsList" type="csta:DeviceMaintEvtsList" minOccurs="0"/>
<xsd:element ref="csta:extensions" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

</xsd:schema>
```


11.1.2 Get physical device information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-physical-device-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="GetPhysicalDeviceInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetPhysicalDeviceInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"/>
        <xsd:element name="groupDeviceAttributes" type="csta:GroupDeviceAttributes" minOccurs="0"/>
        <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
        <xsd:element name="hasLogicalElement" type="xsd:boolean"/>
        <xsd:element name="otherLogicalDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="deviceModelName" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
              <xsd:maxLength value="64"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
minOccurs="0"/>
        <xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="maxDisplays" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxButtons" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxLamps" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxRingPatterns" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physDevServList" type="csta:PhysDevServList" minOccurs="0"/>
        <xsd:element name="physDevEvtsList" type="csta:PhysDevEvtsList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

11.1.3 Get switching function capabilities

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">
```

```
<xsd:annotation>
  <xsd:documentation>CSTA-get-switching-function-capabilities</xsd:documentation>
</xsd:annotation>
```

```
<xsd:include schemaLocation="status-reporting.xsd"/>
<xsd:include schemaLocation="security.xsd"/>
<xsd:include schemaLocation="extension-types.xsd"/>
<xsd:include schemaLocation="call-control.xsd"/>
<xsd:include schemaLocation="capability-exchange.xsd"/>
<xsd:include schemaLocation="data-call-types.xsd"/>
```

```
<xsd:element name="GetSwitchingFunctionCaps">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="csta:extensions" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

```
<xsd:element name="GetSwitchingFunctionCapsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="switchingSubDomainName">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="0"/>
            <xsd:maxLength value="64"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="manufacturerName">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="0"/>
            <xsd:maxLength value="64"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="profiles" type="csta:Profiles"/>
      <xsd:element name="deviceIDFormat" type="csta:DeviceIDFormat"/>
      <xsd:element name="swDomainFeatures" type="csta:SwDomainFeatures"/>
      <xsd:element name="swAppearanceAddressability" type="csta:SwAppearanceAddressability"/>
      <xsd:element name="swAppearanceTypes" type="csta:SwAppearanceTypes"/>
      <xsd:element name="ignoreUnsupportedParameters" type="csta:IgnoreUnsupportedParameters"/>
      <xsd:element name="callCharacteristicsSupported" type="csta:CallCharacteristics"
minOccurs="0"/>
      <xsd:element name="mediaClassSupport" type="csta:MonitorMediaClass" minOccurs="0"/>
      <xsd:element name="numberOfChannels" type="csta:NumberOfChannels" minOccurs="0"/>
      <xsd:element name="maxChannelBind" type="csta:MaxChannelBind" minOccurs="0"/>
      <xsd:element name="miscMediaCallCharacteristics" type="csta:MiscMediaCallCharacteristics"
minOccurs="0"/>
      <xsd:element name="connectionRateList" type="csta:ConnectionRateList" minOccurs="0"/>
      <xsd:element name="delayToleranceList" type="csta:DelayToleranceList" minOccurs="0"/>
      <xsd:element name="pauseTime" type="csta:PauseTime" minOccurs="0"/>
      <xsd:element name="currentTime" type="csta:TimeInfo" minOccurs="0"/>
      <xsd:element name="messageSeqNumbers" type="csta:MessageSeqNumbers" minOccurs="0"/>
      <xsd:element name="timeStampMode" type="csta:TimeStampMode" minOccurs="0"/>
      <xsd:element name="securityMode" type="csta:SecurityMode" minOccurs="0"/>
      <xsd:element name="securityFormat" type="csta:SecurityFormat" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

```
<xsd:element name="privateDataFormat" type="csta:SecurityFormat" minOccurs="0"/>
<xsd:element name="transAndConfSetup" type="csta:TransAndConfSetup" minOccurs="0"/>
<xsd:element name="monitorFilterItems" type="csta:MonitorFilterItems" minOccurs="0"/>
<xsd:element name="miscMonitorCaps" type="csta:MiscMonitorCaps" minOccurs="0"/>
<xsd:element name="correlatorDataSupported" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="dynamicFeatureSupported" type="csta:DynamicFeatureSupported"
minOccurs="0"/>
<xsd:element name="callLinkageOptions" type="csta:CallLinkageOptions" minOccurs="0"/>
<xsd:element name="aCDModels" type="csta:ACDModels" minOccurs="0"/>
<xsd:element name="agentLogOnModels" type="csta:AgentLogOnModels" minOccurs="0"/>
<xsd:element name="agentStateModels" type="csta:AgentStateModels" minOccurs="0"/>
<xsd:element name="connectionView" type="csta:ConnectionView"/>
<xsd:element name="maxLengthParameters" type="csta:MaxLengthParameters"/>
<xsd:element name="maxLengthParametersContinued" type="csta:MaxLengthParametersContinued"
minOccurs="0"/>
<xsd:element name="servEvsList" type="csta:ServEvsList" minOccurs="0"/>
<xsd:element name="privateDataVersionList" type="csta:PrivateDataVersionList"
minOccurs="0"/>
<xsd:element name="systemStatusTimer" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:long">
      <xsd:minInclusive value="0"/>
      <xsd:maxInclusive value="180"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="simpleThreshold" type="xsd:long" minOccurs="0"/>
<xsd:element name="filterThreshold" type="csta:FilterThreshold" minOccurs="0"/>
<xsd:element name="mediaServiceCapsList" type="csta:MediaServiceCapsList" minOccurs="0"/>
<xsd:element name="MaxDeviceHistoryEntries" type="xsh:short" minOccurs="0"/>
<xsd:element name="extensions" type="csta:CSTACCommonArguments" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:complexType name="MonitorFilterItems">
  <xsd:sequence>
    <xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
    <xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
minOccurs="0"/>
    <xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
    <xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MessageSeqNumbers">
  <xsd:sequence>
    <xsd:element name="allEvents" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allAcks" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allServReqs" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="SecurityMode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="allEvents"/>
    <xsd:enumeration value="allAcks"/>
    <xsd:enumeration value="allServReqs"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="SecurityFormat">
  <xsd:sequence>
    <xsd:element name="octetStringFromSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherTypeFromSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="octetStringToSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherTypeToSF" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="Profiles">
  <xsd:sequence>
    <xsd:element name="basicTelephonyProfile" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="routingProfile" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="l1aVoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="l1bVoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
<xsd:element name="l2VoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="DynamicFeatureSupported">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="none"/>
    <xsd:enumeration value="all"/>
    <xsd:enumeration value="some"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CallLinkageOptions">
  <xsd:sequence>
    <xsd:element name="callLinkageFeatureSupported" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="threadLinkageFeatureSupported" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="AgentStateModels">
  <xsd:sequence>
    <xsd:element name="multiState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="multiStateSemiIndependentLinked" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentOriented" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="ConnectionView">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="fixed"/>
    <xsd:enumeration value="local"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="ServEvtsList">
  <xsd:sequence>
    <xsd:element name="capExchangeServList" type="csta:CapExchangeServList" minOccurs="0"/>
    <xsd:element name="systemServList" type="csta:SystemStatusServList" minOccurs="0"/>
    <xsd:element name="monitoringServList" type="csta:MonitoringServList" minOccurs="0"/>
    <xsd:element name="snapshotServList" type="csta:SnapshotServList" minOccurs="0"/>
    <xsd:element name="callControlServList" type="csta:CallControlServList" minOccurs="0"/>
    <xsd:element name="callControlEvtsList" type="csta:CallControlEvtsList" minOccurs="0"/>
    <xsd:element name="callAssociatedServList" type="csta:CallAssociatedServList"
      minOccurs="0"/>
    <xsd:element name="callAssociatedEvtsList" type="csta:CallAssociatedEvtsList"
      minOccurs="0"/>
    <xsd:element name="mediaServList" type="csta:MediaServList" minOccurs="0"/>
    <xsd:element name="mediaEvtsList" type="csta:MediaEvtsList" minOccurs="0"/>
    <xsd:element name="routingServList" type="csta:RoutingServList" minOccurs="0"/>
    <xsd:element name="physDevServList" type="csta:PhysDevServList" minOccurs="0"/>
    <xsd:element name="physDevEvtsList" type="csta:PhysDevEvtsList" minOccurs="0"/>
    <xsd:element name="logicalServList" type="csta:LogicalServList" minOccurs="0"/>
    <xsd:element name="logicalEvtsList" type="csta:LogicalEvtsList" minOccurs="0"/>
    <xsd:element name="deviceMaintEvtsList" type="csta:DeviceMaintEvtsList" minOccurs="0"/>
    <xsd:element name="iOServicesServList" type="csta:IOServicesServList" minOccurs="0"/>
    <xsd:element name="dataCollectionServList" type="csta:DataCollectionServList"
      minOccurs="0"/>
    <xsd:element name="voiceUnitServList" type="csta:VoiceUnitServList" minOccurs="0"/>
    <xsd:element name="voiceUnitEvtsList" type="csta:VoiceUnitEvtsList" minOccurs="0"/>
    <xsd:element name="cdrServList" type="csta:CDRServList" minOccurs="0"/>
    <xsd:element name="vendorSpecificServList" type="csta:VendorSpecificServList"
      minOccurs="0"/>
    <xsd:element name="vendorSpecificEvtsList" type="csta:VendorSpecificEvtsList"
      minOccurs="0"/>
    <xsd:element name="statusReportingServList" type="csta:StatusReportingServList"
      minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="StatusReportingServList">
  <xsd:sequence>
```

```

    <xsd:element name="monitoringServices" type="csta:MonitoringServList" minOccurs="0"/>
    <xsd:element name="snapshotServices" type="csta:SnapshotServList" minOccurs="0"/>
    <xsd:element name="systemServices" type="csta:SystemStatusServList" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MiscMediaCallCharacteristics">
  <xsd:sequence>
    <xsd:element name="supportAdjustment" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="PrivateDataVersionList">
  <xsd:sequence>
    <xsd:element name="privateDataVersion" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:schema>
```

11.1.4 Get switching function devices

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-switching-function-devices</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="GetSwitchingFunctionDevices">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="requestedDeviceID" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="requestedDeviceCategory" type="csta:ReqDeviceCategory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSwitchingFunctionDevicesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="ReqDeviceCategory">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="acd"/>
      <xsd:enumeration value="groupACD"/>
      <xsd:enumeration value="groupHunt"/>
      <xsd:enumeration value="groupPick"/>
      <xsd:enumeration value="groupOther"/>
      <xsd:enumeration value="networkInterface"/>
      <xsd:enumeration value="park"/>
      <xsd:enumeration value="routeingDevice"/>
      <xsd:enumeration value="station"/>
      <xsd:enumeration value="voiceUnit"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

11.1.5 Switching function devices

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-function-devices</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SwitchingFunctionDevices">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="deviceList" type="csta:DeviceList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DeviceList">
    <xsd:sequence>
      <xsd:element name="device" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"
minOccurs="0"/>
            <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
            <xsd:element name="deviceAttributes" type="csta:DeviceAttributes" minOccurs="0"/>
            <xsd:element name="deviceModelName" minOccurs="0">
              <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                  <xsd:minLength value="0"/>
                  <xsd:maxLength value="64"/>
                </xsd:restriction>
              </xsd:simpleType>
            </xsd:element>
            <xsd:element name="nidGroup" type="csta:DeviceID" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DeviceAttributes">
    <xsd:sequence>
      <xsd:element name="mediaAccessDevice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="routingDevice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupACD" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupHunt" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupPick" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

12 System services

12.1 Registration services

12.1.1 Change system status filter

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-change-system-status-filter</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeSysStatFilter">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element name="requestedStatusFilter" type="csta:StatusFilterList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeSysStatFilterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualStatusFilter" type="csta:StatusFilterList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="StatusFilterList">
    <xsd:sequence>
      <xsd:element name="initializing" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="enabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="normal" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="messageLost" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="disabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="partiallyDisabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadImminent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadReached" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadRelieved" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```


12.1.2 System register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="requestTypes" type="csta:RequestTypes"/>
        <xsd:element name="requestedStatusFilter" type="csta:StatusFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element name="actualStatusFilter" type="csta:StatusFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="StatusFilter">
    <xsd:sequence>
      <xsd:element name="initializing" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="enabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="normal" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="messageLost" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="disabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="partiallyDisabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadImminent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadReached" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadRelieved" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="RequestTypes">
    <xsd:sequence>
      <xsd:element name="systemStatus" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="requestSystemStatus" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="switchingFunctionCapsChanged" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="switchingFunctionDevicesChanged" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

12.1.3 System register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

12.1.4 System register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2 Services

12.2.1 Request system status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-request-system-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RequestSystemStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RequestSystemStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="systemStatus" type="csta:SystemStatus"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.2 System status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element name="systemStatus" type="csta:SystemStatus"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.3 Switching function capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-functions-capabilities-changed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SwFunctionCapsChanged">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SwFunctionCapsChangedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.4 Switching function devices changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-functions-devices-changed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SwFunctionDevicesChanged">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SwFunctionDevicesChangedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

13 Monitoring services

13.1 Services

13.1.1 Change monitor filter

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-change-monitor-filter</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeMonitorFilter">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="requestedFilterList" type="csta:MonitorFilter"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeMonitorFilterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualFilterList" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


13.1.2 Monitor start

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-monitor-start</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="MonitorStart">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="monitorObject" type="csta:MonitorObject"/>
        <xsd:element name="requestedMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="monitorType" type="csta:MonitorType" minOccurs="0"/>
        <xsd:element name="requestedMonitorMediaClass" type="csta:MonitorMediaClass"
minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MonitorStartResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="actualMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="actualMonitorMediaClass" type="csta:MonitorMediaClass" minOccurs="0"/>
        <xsd:element name="monitorExistingCalls" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

13.1.3 Monitor stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-monitor-stop</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="MonitorStop">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MonitorStopResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14 Snapshot services

14.1 Services

14.1.1 Snapshot call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SnapshotCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="snapshotObject" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SnapshotCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="crossRefIDorSnapshotData">
          <xsd:complexType>
            <xsd:choice>
              <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
              <xsd:element name="snapshotData" type="csta:SnapshotCallData"/>
            </xsd:choice>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element ref="csta:calledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14.1.2 Snapshot device

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-device</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotDevice">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="snapshotObject" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SnapshotDeviceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="crossRefIDorSnapshotData">
          <xsd:complexType>
            <xsd:choice>
              <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
              <xsd:element name="snapshotData" type="csta:SnapshotDeviceData"/>
            </xsd:choice>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14.1.3 Snapshot calldata

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-call-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotCallData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="snapshotData" type="csta:SnapshotCallData"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

14.1.4 Snapshot devicedata

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-device-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotDeviceData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="snapshotData" type="csta:SnapshotDeviceData"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

15 Call control services and events

15.1 Services

15.1.1 Accept call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-accept-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AcceptCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeAccepted" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AcceptCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.2 Alternate call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-alternate-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:element name="AlternateCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:consultOptions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AlternateCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.1.3 Answer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-answer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AnswerCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeAnswered" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AnswerCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.4 Call back call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:element name="CallBack">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callbackConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="targetDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.5 Call back message call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callbackMessageConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="targetDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.6 Camp on call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-camp-on-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CamponCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="camponConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CamponCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.7 Clear call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-clear-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:element name="ClearCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeCleared" type="csta:ConnectionID"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ClearCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.8 Clear Connection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-clear-connection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ClearConnection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToBeCleared" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ClearConnectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.9 Conference call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-conference-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="ConferenceCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConferenceCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferenceCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="conferenceCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.10 Consultation call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-consultation-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="ConsultationCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element name="consultedDevice" type="csta:DeviceID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="callingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:consultOptions" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConsultationCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="initiatedCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.1.11 Deflect call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-deflect-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DeflectCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeDiverted" type="csta:ConnectionID"/>
        <xsd:element name="newDestination" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DeflectCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.12 Dial digits

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-dial-digits</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DialDigits">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="diallingConnection" type="csta:ConnectionID"/>
        <xsd:element name="diallingSequence" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DialDigitsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.13 Directed pickup call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-directed-pickup-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="DirectedPickupCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBePickedUp" type="csta:ConnectionID"/>
        <xsd:element name="requestingDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DirectedPickupCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pickedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="pickedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.14 Group pickup call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-group-pickup-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="GroupPickupCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="newDestination" type="csta:DeviceID"/>
        <xsd:element name="pickGroup" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GroupPickupCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pickedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="pickedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.15 Hold call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-hold-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="HoldCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeHeld" type="csta:ConnectionID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="HoldCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.16 Intrude call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-intrude-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="IntrudeCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="intrude" type="csta:ConnectionID"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IntrudeCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.17 Join call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-join-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="JoinCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="joiningDevice" type="csta:DeviceID"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="JoinCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.18 Make call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-make-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="MakeCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="calledDirectoryNumber" type="csta:DeviceID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"
minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="callingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MakeCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:ConnectionID"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.1.19 Make predictive call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-make-predictive-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="MakePredictiveCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="calledDirectoryNumber" type="csta:DeviceID"/>
        <xsd:element name="signallingDetection" type="csta:SignallingDetection" minOccurs="0"/>
        <xsd:element name="destinationDetection" type="csta:DestinationDetection" minOccurs="0"/>
        <xsd:element name="defaultAction" type="csta:DetectionAction" minOccurs="0"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"
minOccurs="0"/>
        <xsd:element name="alertTime" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MakePredictiveCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="initiatedCall" type="csta:ConnectionID"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SignallingDetection">
    <xsd:sequence>
      <xsd:element name="signallingCondition" type="csta:SignallingCondition"/>
      <xsd:element name="signallingConditionsAction" type="csta:SignallingConditionsAction"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="SignallingCondition">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="callDelivered"/>
      <xsd:enumeration value="callEstablished"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="SignallingConditionsAction">
```

```
<xsd:restriction base="xsd:string">
  <xsd:enumeration value="destinationDetection"/>
  <xsd:enumeration value="remainConnected"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="DestinationDetection">
  <xsd:sequence>
    <xsd:element name="detectionItem" type="csta:DetectionItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DetectionItem">
  <xsd:sequence>
    <xsd:element name="destinationCondition" type="csta:DestinationCondition"/>
    <xsd:element name="detectionAction" type="csta:DetectionAction"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="DestinationCondition">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="humanVoice"/>
    <xsd:enumeration value="answeringMachine"/>
    <xsd:enumeration value="facsimileMachine"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DetectionAction">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="clearCalledConnection"/>
    <xsd:enumeration value="remainConnected"/>
  </xsd:restriction>
</xsd:simpleType>

</xsd:schema>
```

15.1.20 Park call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-park-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ParkCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="parking" type="csta:ConnectionID"/>
        <xsd:element name="parkTo" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ParkCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="parkedTo" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.21 Reconnect call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-reconnect-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ReconnectCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ReconnectCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.22 Retrieve call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-retrieve-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RetrieveCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeRetrieved" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RetrieveCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.23 Send Message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SendMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="destinationDevices" type="csta:DeviceListItems"/>
        <xsd:element name="messageInfo" type="csta:MessageInfo"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionList" type="csta:ConnectionListItems"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DeviceListItems">
    <xsd:sequence>
      <xsd:element name="device" type="csta:DeviceID" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ConnectionListItems">
    <xsd:sequence>
      <xsd:element name="connection" type="csta:ConnectionID" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

15.1.24 Single step conference call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-single-step-conference-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SingleStepConferenceCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="deviceToJoin" type="csta:DeviceID"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SingleStepConferenceCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.25 Single step transfer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-single-step-transfer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SingleStepTransferCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="transferredTo" type="csta:DeviceID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SingleStepTransferCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferredCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="transferredCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.1.26 Transfer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-transfer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="TransferCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="TransferCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferredCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="transferredCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2 Events

15.2.1 Bridged

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-bridged-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="BridgedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="bridgedConnection" type="csta:ConnectionID"/>
        <xsd:element name="bridgedAppearance" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="bridgedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.2 Call cleared

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-cleared-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CallClearedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="clearedCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.3 Conferenced

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-conferenced-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ConferencedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryOldCall" type="csta:ConnectionID"/>
        <xsd:element name="secondaryOldCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="conferencingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="addedParty" type="csta:SubjectDeviceID"/>
        <xsd:element name="conferenceConnections" type="csta:ConnectionList"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.4 Connection cleared

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-cleared-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ConnectionClearedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="droppedConnection" type="csta:ConnectionID"/>
        <xsd:element name="releasingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="droppedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.5 Delivered

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-delivered-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DeliveredEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="alertingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.6 Digits dialed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-digits-dialed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DigitsDialedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="dialingConnection" type="csta:ConnectionID"/>
        <xsd:element name="dialingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="dialingSequence" type="csta:DeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element name="dialingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.7 Diverted

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-diverted-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DivertedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="divertingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="newDestination" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element ref="csta:calledDevice" minOccurs="0"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.2.8 Established

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-established-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="EstablishedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="establishedConnection" type="csta:ConnectionID"/>
        <xsd:element name="answeringDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="establishedConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.9 Failed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-failed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="FailedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="failedConnection" type="csta:ConnectionID"/>
        <xsd:element name="failingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="failedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.10 Held

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-held-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="HeldEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="heldConnection" type="csta:ConnectionID"/>
        <xsd:element name="holdingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="heldConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.11 Network capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-network-capabilities-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="NetworkCapabilitiesChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="outboundConnection" type="csta:ConnectionID"/>
        <xsd:element name="networkInterfaceUsed" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element name="progressIndicator" type="csta:ProgressIndicator"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="networkCapability" type="csta:NetworkCapability" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="outboundConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.12 Network reached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-network-reached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="NetworkReachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="outboundConnection" type="csta:ConnectionID"/>
        <xsd:element name="networkInterfaceUsed" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="networkCapability" type="csta:NetworkCapability" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="outboundConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.13 Offered

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-offered-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OfferedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="offeredConnection" type="csta:ConnectionID"/>
        <xsd:element name="offeredDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="offeredConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.14 Originated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-originated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OriginatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatedConnection" type="csta:ConnectionID"/>
        <xsd:element name="callingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element name="originatingDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="originatedConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.15 Queued

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-queued-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="QueuedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="queuedConnection" type="csta:ConnectionID"/>
        <xsd:element name="queue" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="numberQueued" type="xsd:long" minOccurs="0"/>
        <xsd:element name="callsInFront" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="queuedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


15.2.16 Retrieved

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-retrieved-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RetrievedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="retrievedConnection" type="csta:ConnectionID"/>
        <xsd:element name="retrievingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="retrievedConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.17 Service initiated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-service-initiated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ServiceInitiatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="initiatedConnection" type="csta:ConnectionID"/>
        <xsd:element name="initiatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedConnectionInfo" type="csta:ConnectionInformation"
minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.18 Transferred

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-transferred-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="TransferredEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryOldCall" type="csta:ConnectionID"/>
        <xsd:element name="secondaryOldCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="transferringDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="transferredToDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="transferredConnections" type="csta:ConnectionList"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16 Call associated features

16.1 Services

16.1.1 Associate data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-associate-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="AssociateData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element name="callQualifyingData" type="csta:CallQualifyingData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AssociateDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.2 Cancel telephony tones

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-telephony-tones</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelTelephonyTones">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToStopTone" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelTelephonyTonesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.3 Change connection information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeConnectionInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToBeChanged" type="csta:ConnectionID"/>
        <xsd:element name="requestedConnectionInfo" type="csta:ConnectionInformation"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeConnectionInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualConnectionInfo" type="csta:ConnectionInformation"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.4 Generate digits

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-generate-digits</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GenerateDigits">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToSendDigits" type="csta:ConnectionID"/>
        <xsd:element name="digitMode" type="csta:DigitMode" minOccurs="0"/>
        <xsd:element name="charactersToSend" type="xsd:string"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pulseRate" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GenerateDigitsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="DigitMode">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="rotaryPulse"/>
      <xsd:enumeration value="dTMF"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

16.1.5 Generate telephony tones

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-generate-telephony-tones</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GenerateTelephonyTones">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToSendTone" type="csta:ConnectionID"/>
        <xsd:element name="toneToSend" type="csta:TelephonyTone"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GenerateTelephonyTonesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


16.1.6 Send user information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-user-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendUserInfo">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:userData"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendUserInfoResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2 Events

16.2.1 Call information

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">
```

```
  <xsd:annotation>
    <xsd:documentation>CSTA-call-information-event</xsd:documentation>
  </xsd:annotation>
```

```
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
```

```
  <xsd:element name="CallInformationEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="accountInfo" type="csta:AccountInfo" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="callQualifyingData" type="csta:CallQualifyingData" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```
</xsd:schema>
```

16.2.2 Charging

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-charging-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ChargingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="chargedDevice" type="csta:DeviceID"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.3 Digits generated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-digits-generated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DigitsGeneratedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="digitGeneratedList" type="xsd:string"/>
        <xsd:element name="digitDurationList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="digitDuration" type="xsd:long" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="pauseDurationList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.4 Telephony tones generated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-telephony-tones-generated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="TelephonyTonesGeneratedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="toneGenerated" type="csta:TelephonyTone" minOccurs="0"/>
        <xsd:element name="toneFrequency" type="xsd:long" minOccurs="0"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.5 Service completion failure

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">
```

```
  <xsd:annotation>
    <xsd:documentation>CSTA-service-completion-failure-event</xsd:documentation>
  </xsd:annotation>
```

```
  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
```

```
  <xsd:element name="ServiceCompletionFailureEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryCall" type="csta:PrimaryOrSecondaryCall"/>
        <xsd:element name="secondaryCall" type="csta:PrimaryOrSecondaryCall" minOccurs="0"/>
        <xsd:element name="otherDevsPrimaryCallList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="otherDevsPrimaryCall" type="csta:OtherCall" minOccurs="0"
                maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="otherDevsSecondaryCallList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="otherDevsSecondaryCall" type="csta:OtherCall" minOccurs="0"
                maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```
  <xsd:complexType name="PrimaryOrSecondaryCall">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID"/>
      <xsd:element name="connectionID" type="csta:ConnectionID"/>
      <xsd:element name="localConnectionState" type="csta:LocalConnectionState"/>
      <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
  <xsd:complexType name="OtherCall">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID"/>
      <xsd:element name="connectionID" type="csta:ConnectionID"/>
      <xsd:element name="localConnectionState" type="csta:LocalConnectionState" minOccurs="0"/>
      <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

17 Media attachment services and events

17.1 Services

17.1.1 Attach media service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-attach-media-service</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="AttachMediaService">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
minOccurs="0"/>
        <xsd:element name="connectionMode" type="csta:ConnectionMode"/>
        <xsd:element name="requestedConnectionState" type="csta:LocalConnectionState"
minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AttachMediaServiceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="mediaConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="mediaDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

17.1.2 Detach media service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-detach-media-service</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="DetachMediaService">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DetachMediaServiceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


17.2 Events

17.2.1 Media attached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-media-attached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MediaAttachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="mediaConnection" type="csta:ConnectionID"/>
        <xsd:element name="mediaDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
minOccurs="0"/>
        <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

17.2.2 Media detached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-media-detached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MediaDetachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="mediaConnection" type="csta:ConnectionID"/>
        <xsd:element name="mediaDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
minOccurs="0"/>
        <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18 Routeing services

18.1 Registration services

18.1.1 Route register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="RouteRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="routeingDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="requestedRouteingMediaClass" type="csta:MediaClass" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RouteRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element name="actualRouteingMediaClass" type="csta:MediaClass" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18.1.2 Route register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.1.3 Route register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RouteRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18.2 Services

18.2.1 Re-Route

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-re-route</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="ReRoute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="replyTimeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.2 Route end

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-end</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="error.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteEnd">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="errorValue" type="csta:ErrorValue" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.3 Route reject

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-reject</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteReject">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="rejectCause" type="csta:RejectCause" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="RejectCause">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="busyOverflow"/>
      <xsd:enumeration value="queueTimeOverflow"/>
      <xsd:enumeration value="capacityOverflow"/>
      <xsd:enumeration value="calendarOverflow"/>
      <xsd:enumeration value="unknownOverflow"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```


18.2.4 Route request

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-request</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="RouteRequest">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="currentRoute" type="csta:CalledDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="routeingDevice" type="csta:SubjectDeviceID" minOccurs="0"/>
        <xsd:element name="routedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="routeSelAlgorithm" type="csta:SelectValue" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element name="priority" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="replyTimeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="routeCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.5 Route select

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-select</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteSelect">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="routeSelected" type="csta:DeviceID"/>
        <xsd:element name="alternateRoutes" type="csta:alternateRoutesRecord" minOccurs="0"/>
        <xsd:element name="remainRetries" type="csta:RetryValue" minOccurs="0"/>
        <xsd:element name="routeUsedReq" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="alternateRoutesRecord">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.6 Route used

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-used</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="RouteUsed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="routeUsed" type="csta:CalledDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="domain" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

19 Physical device features

19.1 Services

19.1.1 Button press

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-press</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="ButtonPress">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ButtonPressResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.2 Get auditory apparatus information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auditory-apparatus-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetAuditoryApparatusInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAuditoryApparatusInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="auditoryApparatusList" type="csta:AuditoryApparatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.3 Get button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-button-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetButtonInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetButtonInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="buttonList" type="csta:ButtonList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ButtonList">
    <xsd:sequence>
      <xsd:element name="buttonItem" type="csta:ButtonItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ButtonItem">
    <xsd:sequence>
      <xsd:element name="button" type="csta:ButtonID"/>
      <xsd:element name="buttonLabel" type="xsd:string" minOccurs="0"/>
      <xsd:element name="buttonLabelSettable" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="buttonFunction" type="xsd:string" minOccurs="0"/>
      <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
      <xsd:element name="buttonAssociatedNumberSettable" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="buttonPressIndicator" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="lampList" type="csta:LampIDList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampIDList">
    <xsd:sequence>
      <xsd:element name="lampID" type="csta:LampID" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.4 Get display

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-display</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetDisplay">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="display" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetDisplayResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="displayList" type="csta:DisplayList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DisplayList">
    <xsd:sequence>
      <xsd:element name="displayListItem" type="csta:DisplayListItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DisplayListItem">
    <xsd:sequence>
      <xsd:element name="displayID" type="csta:DisplayID"/>
      <xsd:element name="logicalRows" type="xsd:long"/>
      <xsd:element name="logicalColumns" type="xsd:long"/>
      <xsd:element name="physicalRows" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalColumns" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="characterSet" type="csta:CharacterSet" minOccurs="0"/>
      <xsd:element name="contentsOfDisplay" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.5 Get hookswitch status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-hookswitch-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetHookswitchStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetHookswitchStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="hookswitchStatusList" type="csta:HookswitchStatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="HookswitchStatusList">
    <xsd:sequence>
      <xsd:element name="hookswitchStatusItem" type="csta:HookswitchStatusItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="HookswitchStatusItem">
    <xsd:sequence>
      <xsd:element name="hookswitch" type="csta:HookswitchID"/>
      <xsd:element name="hookswitchOnHook" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```


19.1.6 Get lamp information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-lamp-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetLampInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLampInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="lampList" type="csta:LampList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="LampList">
    <xsd:sequence>
      <xsd:element name="lampItem" type="csta:LampItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampItem">
    <xsd:sequence>
      <xsd:element name="lamp" type="csta:LampID"/>
      <xsd:element name="lampLabel" type="xsd:string" minOccurs="0"/>
      <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
      <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.7 Get lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-lamp-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetLampMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLampModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="lampModeList" type="csta:LampModeList"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="LampModeList">
    <xsd:sequence>
      <xsd:element name="lampModeItem" type="csta:LampModeItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampModeItem">
    <xsd:sequence>
      <xsd:element name="lamp" type="csta:LampID"/>
      <xsd:element name="lampMode" type="csta:LampMode"/>
      <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
      <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
      <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.8 Get message waiting indicator

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-message-waiting-indicator</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetMessageWaitingIndicator">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMessageWaitingIndicatorResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="lampIsPresent" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.9 Get microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-microphone-gain</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetMicrophoneGain">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMicrophoneGainResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="microphoneGainList" type="csta:MicrophoneGainList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MicrophoneGainList">
    <xsd:sequence>
      <xsd:element name="microphoneGainItem" type="csta:MicrophoneGainItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="MicrophoneGainItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="micGainAbs" type="csta:MicGainAbs" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.10 Get microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-microphone-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetMicrophoneMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMicrophoneMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="microphoneMuteList" type="csta:MicrophoneMuteList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MicrophoneMuteList">
    <xsd:sequence>
      <xsd:element name="microphoneMuteItem" type="csta:MicrophoneMuteItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="MicrophoneMuteItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.11 Get ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-ringer-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetRingerStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetRingerStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ringerStatusList" type="csta:RingerStatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="RingerStatusList">
    <xsd:sequence>
      <xsd:element name="ringerStatusItem" type="csta:RingerStatusItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="RingerStatusItem">
    <xsd:sequence>
      <xsd:element name="ringer" type="csta:RingerID"/>
      <xsd:element name="ringMode" type="csta:RingMode"/>
      <xsd:element name="ringCount" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="1000"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
      <xsd:element name="ringVolAbs" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="100"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.12 Get speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-speaker-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetSpeakerMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSpeakerMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="speakerMuteList" type="csta:SpeakerMuteList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SpeakerMuteList">
    <xsd:sequence>
      <xsd:element name="speakerMuteItem" type="csta:SpeakerMuteItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SpeakerMuteItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.13 Get speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-speaker-volume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetSpeakerVolume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSpeakerVolumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="speakerVolumeList" type="csta:SpeakerVolumeList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SpeakerVolumeList">
    <xsd:sequence>
      <xsd:element name="speakerVolumeItem" type="csta:SpeakerVolumeItem" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SpeakerVolumeItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="speakerVolAbs" type="csta:VolAbs" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```


19.1.14 Set button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-button-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetButtonInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
              <xsd:maxLength value="64"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetButtonInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.15 Set display

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-display</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetDisplay">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="display" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="contentsOfDisplay">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
              <xsd:maxLength value="240"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetDisplayResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.16 Set hookswitch status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-hookswitch-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetHookswitchStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID"/>
        <xsd:element name="hookswitchOnhook" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetHookswitchStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.17 Set lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-lamp-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetLampMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID"/>
        <xsd:element name="LampMode" type="csta:LampMode"/>
        <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
        <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetLampModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.18 Set message waiting indicator

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-message-waiting-indicator</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetMessageWaitingIndicator">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMessageWaitingIndicatorResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.19 Set microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-microphone-gain</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetMicrophoneGain">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneGain" type="csta:MicrophoneGain"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMicrophoneGainResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.20 Set microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-microphone-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetMicrophoneMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMicrophoneMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.21 Set ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-ringer-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetRingerStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID"/>
        <xsd:element name="ringMode" type="csta:RingMode" minOccurs="0"/>
        <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
        <xsd:element name="ringVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetRingerStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


19.1.22 Set speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-speaker-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetSpeakerMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetSpeakerMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.23 Set speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-speaker-volume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetSpeakerVolume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerVolume" type="csta:Volume"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetSpeakerVolumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2 Events

19.2.1 Button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-information-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ButtonInformationEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minlength value="0"/>
              <xsd:maxLength value="64"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="buttonPressIndicator" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.2 Button press

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-press-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ButtonPressEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
              <xsd:maxLength value="64"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.3 Display updated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-display-updated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DisplayUpdatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="logicalRows" type="xsd:long"/>
        <xsd:element name="logicalColumns" type="xsd:long"/>
        <xsd:element name="physicalRows" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalColumns" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="characterSet" type="csta:CharacterSet" minOccurs="0"/>
        <xsd:element name="contentsOfDisplay" type="xsd:string"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.4 Hookswitch

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-hookswitch-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="HookswitchEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID"/>
        <xsd:element name="hookswitchOnHook" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.5 Lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-lamp-mode-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="LampModeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="lamp" type="csta:LampID"/>
        <xsd:element name="lampLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
              <xsd:maxLength value="64"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="lampMode" type="csta:LampMode"/>
        <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
        <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.6 Message waiting

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-message-waiting-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MessageWaitingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


19.2.7 Microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-microphone-gain-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MicrophoneGainEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneGain" type="csta:MicrophoneGain"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.8 Microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-microphone-mute-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MicrophoneMuteEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.9 Ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-ringer-status-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RingerStatusEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID"/>
        <xsd:element name="ringMode" type="csta:RingMode"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="0"/>
              <xsd:maxInclusive value="1000"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
        <xsd:element name="ringVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.10 Speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-speaker-mute-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SpeakerMuteEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.11 Speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-speaker-volume-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SpeakerVolumeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerVolume" type="csta:Volume"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20 Logical device features

20.1 Services

20.1.1 Call back non-call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-non-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackNonCallRelated">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackNonCallRelatedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.2 Call back message non-call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-non-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessageNonCallRelated">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackMessageNonCallRelatedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.3 Cancel call back

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-call-back</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelCallBack">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelCallBackResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


20.1.4 Cancel call back message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-call-back-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelCallBackMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelCallBackMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.5 Get agent state

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-agent-state</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAgentState">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAgentStateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="agentStateList" type="csta:AgentStateList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="AgentStateList">
    <xsd:sequence>
      <xsd:element name="agentStateEntry" type="csta:AgentStateEntry" maxOccurs="32"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AgentStateEntry">
    <xsd:sequence>
      <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
      <xsd:element name="loggedOnState" type="xsd:boolean"/>
      <xsd:element name="agentInfo" minOccurs="0">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="agentInfoItem" type="csta:AgentInfo" minOccurs="0"
              maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AgentInfo">
    <xsd:sequence>
      <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
      <xsd:element name="agentState" type="csta:AgentState"/>
      <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
      <xsd:element name="agentStateCondition" type="csta:AgentStateCondition" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="AgentStateCondition">
    <xsd:restriction base="xsd:string">
```

```
        <xsd:enumeration value="forcedPause"/>
        <xsd:enumeration value="other"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>
```

20.1.6 Get auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auto-answer</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAutoAnswer">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAutoAnswerResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.7 Get auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auto-work-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAutoWorkMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAutoWorkModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.8 Get caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-caller-id-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetCallerIDStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetCallerIDStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.9 Get do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-do-not-disturb</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetDoNotDisturb">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetDoNotDisturbResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
                maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.10 Get forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-forwarding</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetForwarding">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetForwardingResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="forwardingList" type="csta:ForwardList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


20.1.11 Get last number dialed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-last-number-dialed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetLastNumberDialed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLastNumberDialedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="numberDialed" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.12 Get routeing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-routeing-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetRouteingMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetRouteingModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="routeingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.13 Set agent state

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-agent-state</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAgentState">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="requestedAgentState" type="csta:ReqAgentState"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="password" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element name="group" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAgentStateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="ReqAgentState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="loggedOn"/>
      <xsd:enumeration value="loggedOff"/>
      <xsd:enumeration value="notReady"/>
      <xsd:enumeration value="ready"/>
      <xsd:enumeration value="workingAfterCall"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

20.1.14 Set auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-auto-answer</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAutoAnswer">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAutoAnswerResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.15 Set auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-auto-work-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAutoWorkMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAutoWorkModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.16 Set caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-caller-id-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetCallerIDStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetCallerIDStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.17 Set do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-do-not-disturb</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetDoNotDisturb">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
                maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="SetDoNotDisturbResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

20.1.18 Set forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-forwarding</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetForwarding">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
        <xsd:element name="activateForward" type="xsd:boolean"/>
        <xsd:element name="forwardDN" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:long">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetForwardingResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


20.1.19 Set routing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-routing-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetRoutingMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="routingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetRoutingModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2 Events

20.2.1 Agent busy

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-busy-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentBusyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.2 Agent logged off

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-logged-off-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentLoggedOffEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="agentPassword" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.3 Agent logged on

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-logged-on-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentLoggedOnEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="agentPassword" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.4 Agent not ready

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-not-ready-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentNotReadyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.5 Agent ready

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-ready-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentReadyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.6 Agent working after call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-working-after-call-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentWorkingAfterCallEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="pendingAgentState" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="notReady"/>
              <xsd:enumeration value="ready"/>
              <xsd:enumeration value="null"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.7 Auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-auto-answer-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="AutoAnswerEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


20.2.8 Auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-auto-work-mode-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="AutoWorkModeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.9 Call back

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="callBackSetCanceled" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.10 Call back message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessageEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="callBackMsgSetCanceled" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.11 Caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-caller-id-status-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CallerIDStatusEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.12 Do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-do-not-disturb-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DoNotDisturbEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
                maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.13 Forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-forwarding-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ForwardingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
        <xsd:element name="forwardStatus" type="xsd:boolean"/>
        <xsd:element name="forwardTo" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="forwardDefault" type="csta:ForwardDefault" minOccurs="0"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:short">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.14 Routing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-routing-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RoutingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="routingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21 Device maintenance events

21.1 Events

21.1.1 Back in service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-back-in-service-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="BackInServiceEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


21.1.2 Device capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-capabilities-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DeviceCapsChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21.1.3 Out of service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-out-of-service-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OutOfServiceEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22 I/O services

22.1 Registration services

22.1.1 I/O register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IORegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.1.2 I/O register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

22.1.3 I/O register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IORegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2 Services

22.2.1 Data path resumed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-path-resumed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DataPathResumed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataPathResumedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.2 Data path suspended

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-path-suspended</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DataPathSuspended">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataPathSuspendedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.3 Fast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-fast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="FastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="object" type="csta:CSTAObject"/>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayAttribute" type="csta:DisplayAttribute" minOccurs="0"/>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="FastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DisplayAttribute">
    <xsd:sequence>
      <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
      <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```


22.2.4 Resume data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ResumeDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.5 Send broadcast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-broadcast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendBroadcastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendBroadcastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.6 Send data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ioCause" type="csta:EventCause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.7 Send multicast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-multicast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendMulticastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefIDList">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID" minOccurs="0"
maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="ioData" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendMulticastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.8 Start data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="StartDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="object" type="csta:CSTAObject"/>
        <xsd:element name="dataPathDirection" type="csta:DataPathDirection" minOccurs="0"/>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="numberOfCharactersToCollect" type="xsd:long" minOccurs="0"/>
        <xsd:element name="terminationCharacter" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:length value="1"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="numberOfCharactersToCollect" type="xsd:long" minOccurs="0"/>
        <xsd:element name="terminationCharacter" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:length value="1"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="DataPathDirection">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="computeFunctionToObject"/>
      <xsd:enumeration value="objectToComputeFunction"/>
      <xsd:enumeration value="bidirectional"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

22.2.9 Stop data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="StopDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.10 Suspend data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SuspendDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23 Data Collection Services

23.1 Services

23.1.1 Data Collected

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collected</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollected">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element name="digitsData" type="csta:DigitsData" minOccurs="0"/>
        <xsd:element name="telTonesData" type="csta:TelTonesData" minOccurs="0"/>
        <xsd:element name="connectionInformation" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element name="dcollCause" type="csta:DcollCause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DigitsData">
    <xsd:sequence>
      <xsd:element name="digitsDetected">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="0"/>
            <xsd:maxLength value="64"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="digitsDuration" type="csta:DigitsDurationList" minOccurs="0"/>
      <xsd:element name="digitsPauseDuration" type="csta:DigitsPauseDurationList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="TelTonesData">
    <xsd:sequence>
      <xsd:element name="toneDetected" type="csta:ToneDetected"/>
      <xsd:element name="toneFrequency" type="xsd:long" minOccurs="0"/>
      <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
      <xsd:element name="tonePauseDuration" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="ToneDetected">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="beep"/>
    </xsd:restriction>
  </xsd:simpleType>
```



```
<xsd:enumeration value="billing"/>
<xsd:enumeration value="busy"/>
<xsd:enumeration value="carrier"/>
<xsd:enumeration value="confirmation"/>
<xsd:enumeration value="dial"/>
<xsd:enumeration value="faxCNG"/>
<xsd:enumeration value="hold"/>
<xsd:enumeration value="howler"/>
<xsd:enumeration value="intrusion"/>
<xsd:enumeration value="modemCNG"/>
<xsd:enumeration value="park"/>
<xsd:enumeration value="recordWarning"/>
<xsd:enumeration value="reorder"/>
<xsd:enumeration value="ringback"/>
<xsd:enumeration value="silence"/>
<xsd:enumeration value="sitVC"/>
<xsd:enumeration value="sitIC"/>
<xsd:enumeration value="sitRO"/>
<xsd:enumeration value="sitNC"/>
<xsd:enumeration value="other"/>
</xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DcollCause">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="flushCharReceived"/>
    <xsd:enumeration value="charCountReceived"/>
    <xsd:enumeration value="timeout"/>
    <xsd:enumeration value="sfTerminated"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="DigitsDurationList">
  <xsd:sequence>
    <xsd:element name="digitsDurationItem" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DigitsPauseDurationList">
  <xsd:sequence>
    <xsd:element name="digitsPauseDurationItem" type="xsd:long" minOccurs="0"
      maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

23.1.2 Data Collection Resumed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection-resumed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollectionResumed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectionResumedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.3 Data Collection Suspended

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection-suspended</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollectionSuspended">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectionSuspendedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.4 Resume Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="ResumeDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.5 Start Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="StartDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="object" type="csta:CallObject"/>
        <xsd:element name="dataCollType" type="csta:DataCollType" minOccurs="0"/>
        <xsd:element name="digitsReportingCriteria" type="csta:DigitsReportingCriteria"
minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="CallObject">
    <xsd:choice>
      <xsd:element name="device" type="csta:DeviceID"/>
      <xsd:element name="call" type="csta:ConnectionID"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="DataCollType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="digits"/>
      <xsd:enumeration value="telTones"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="DigitsReportingCriteria">
    <xsd:sequence>
      <xsd:element name="numChars" type="xsd:long" minOccurs="0"/>
      <xsd:element name="flushChar" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:length value="1"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

23.1.6 Stop Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="StopDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.7 Suspend Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="SuspendDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24 Voice unit services and events

24.1 Services

24.1.1 Concatenate message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-concatenate-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ConcatenateMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messagesToConcatenate" type="csta:MessageIDList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConcatenateMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="concatenatedMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MessageIDList">
    <xsd:sequence>
      <xsd:element name="messageIDItem" type="csta:MessageID" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```


24.1.2 Delete message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-delete-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DeleteMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToBeDeleted" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DeleteMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.3 Play message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-play-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="PlayMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToBePlayed" type="csta:MessageID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="duration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="termination" type="csta:TerminatingConditions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PlayMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.4 Query voice attribute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-query-voice-attribute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="QueryVoiceAttribute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToQuery" type="csta:MessageID"/>
        <xsd:element name="attributeToQuery" type="csta:AttributeToQuery"/>
        <xsd:element name="connection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="QueryVoiceAttributeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="attribute" type="csta:AttributeInfo"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="AttributeToQuery">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="encodingAlgorithm"/>
      <xsd:enumeration value="samplingRate"/>
      <xsd:enumeration value="duration"/>
      <xsd:enumeration value="filename"/>
      <xsd:enumeration value="currentPosition"/>
      <xsd:enumeration value="currentSpeed"/>
      <xsd:enumeration value="currentVolume"/>
      <xsd:enumeration value="currentLevel"/>
      <xsd:enumeration value="currentState"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

24.1.5 Record message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-record-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RecordMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeRecorded" type="csta:ConnectionID"/>
        <xsd:element name="samplingRate" type="xsd:long" minOccurs="0"/>
        <xsd:element name="encodingAlgorithm" type="csta:EncodingAlgorithm" minOccurs="0"/>
        <xsd:element name="maxDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="termination" type="csta:TerminatingConditions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RecordMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="resultingMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.6 Reposition

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-reposition</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Reposition">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="periodOfReposition" type="csta:Period"/>
        <xsd:element name="messageToReposition" type="csta:MessageID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RepositionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="Period">
    <xsd:choice>
      <xsd:element name="absolutePosition">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="startOfMessage"/>
            <xsd:enumeration value="endOfMessage"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="relativePosition" type="xsd:long"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

24.1.7 Resume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Resume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToResume" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="duration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.8 Review

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-review</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Review">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="periodToReview" type="csta:PeriodToReview"/>
        <xsd:element name="messageToReview" type="csta:MessageID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ReviewResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="PeriodToReview">
    <xsd:choice>
      <xsd:element name="startOfMessage" type="csta:Empty"/>
      <xsd:element name="lengthOfReview" type="xsd:long"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

24.1.9 Set voice attribute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-voice-attribute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetVoiceAttribute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="attributeToSet" type="csta:AttributeToSet"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetVoiceAttributeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="AttributeToSet">
    <xsd:choice>
      <xsd:element name="currentSpeed" type="xsd:long"/>
      <xsd:element name="currentVolume" type="csta:Volume"/>
      <xsd:element name="currentGain">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="100"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```


24.1.10 Stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Stop">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToBeStopped" type="csta:MessageID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.11 Suspend

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Suspend">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.12 Synthesize message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-synthesize-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SynthesizeMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="textToBeSynthesized" type="xsd:string"/>
        <xsd:element name="control" type="csta:ControlData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SynthesizeMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="synthesizedMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2 Events

24.2.1 Play

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-play-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="PlayEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element name="speed" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.2 Record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-record-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RecordEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.3 Review

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-review-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ReviewEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.4 Stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="StopEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.5 Suspend play

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-play-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SuspendPlayEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


24.2.6 Suspend record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-record-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SuspendRecordEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.7 Voice attribute changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-voice-attribute-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="VoiceAttributeChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID"/>
        <xsd:element name="playVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element name="recordingGain" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="0"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="speed" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25 Call detail record services

25.1 Services

25.1.1 Call detail records notification

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-records-notification</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="CDRNotification">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="cdrReason" type="csta:CDRReason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CDRNotificationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.2 Call detail records report

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-records-report</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="CDRReport">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="numberOfRecordsSent">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="128"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="cdrInfo" type="csta:CDRInfo"/>
        <xsd:element name="lastStoredCDRReportSent" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CDRReportResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.3 Send stored call detail records

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-stored-call-detail-records</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="SendStoredCDR">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="timePeriod" type="csta:CDRTimePeriod" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendStoredCDRResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.4 Start call detail records transmission

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-call-detail-records-transmission</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="StartCDRTransmission">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferMode" type="csta:CDRTransferMode"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartCDRTransmissionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdxCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.5 Stop call detail records transmission

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-call-detail-records-transmission</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="StopCDRTransmission">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="cdrTermReason" type="csta:CDRTermReason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopCDRTransmissionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26 Vendor specific extensions services and events

26.1 Registration services

26.1.1 Escape register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


26.1.2 Escape register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

26.1.3 Escape register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26.2 Services

26.2.1 Escape

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="Escape">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID" minOccurs="0"/>
        <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
        <xsd:element name="privateData" type="csta:CSTAPrivateData"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26.2.2 Private data version selection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-private-data-version-selection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="PrivateDataVersionSelection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="privateDataVersionSelectionArgument"
          type="csta:PrivateDataVersionSelectionArgument"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PrivateDataVersionSelectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="PrivateDataVersionSelectionArgument">
    <xsd:restriction base="xsd:integer"/>
  </xsd:simpleType>

</xsd:schema>
```

26.3 Events

26.3.1 Private event

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma.ch/standards/ecma-323/csta/ed2"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2"

elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:annotation>
    <xsd:documentation>CSTA-private-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="PrivateEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
        <xsd:element name="privateData" type="csta:CSTAPrivateData"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```


Annex A

(normative)

Protocol Implementation Conformance Statement (PICS) Proforma

A.1 Introduction

The Protocol Implementation Conformance Statement (PICS) is a statement of which capabilities and options of the protocol have been implemented. The PICS can have a number of uses, including use:

- by the protocol implementor, as a check-list to reduce the risk of failure to conform to the standard through oversight;
- by the supplier and acquirer (or potential acquirer) of the implementation, as a detailed indication of the capabilities of the implementation, stated relative to the common basis for understanding provided by the standard PICS proforma;
- by the user (or potential user) of the implementation, as a basis for initially checking the possibility of interworking with another implementation (note that, while interworking cannot be guaranteed, failure to interwork can often be predicted from incompatible PICS);
- by a protocol tester, as the basis for selecting appropriate tests against which to assess the claim for conformance of the implementation.

A.2 Conformance

The supplier of a protocol implementation which is claimed to conform to this Standard shall complete a copy of the Protocol Implementation Conformance Statement (PICS) proforma in A.5, "PICS proforma".

A.3 Instructions for completing the PICS proforma

The first part of the PICS proforma, the Implementation Identification (A.4, "Implementation identification", on page 336), is to be completed as indicated with the information necessary to identify fully both the supplier and the implementation.

The main part of the PICS proforma, A.5, "PICS proforma", is a fixed format questionnaire divided into subclauses each containing a group of individual items. These items represent options specified in ECMA-269 (mandatory items are not represented). Answers to the questionnaire items are to be provided in the appropriate columns by marking an answer to indicate a restricted choice (Yes or No), and optionally clarifying this response with a comment.

Where a service or event is not supported, as indicated by entering No for the first entry in a table, any parameters or dependent service components in the rest of that table are not applicable, it is then not necessary to complete items in any subsidiary entries in the table.

Note that ECMA-269 should be used as a reference when completing the PICS proforma.

A.4 Implementation identification

Supplier	
Protocol Version	XML Protocol for CSTA Phase III, 2nd Edition
Date of Statement	
Contact point for queries about the PICS	
Implementation Name(s) and Version(s)	
Other information necessary for full identification - e.g. Name(s) and Version(s) for machines and/or operating systems; system name(s)	

The first five items are required for all implementations; other information may be completed as appropriate in meeting the requirement for full identification.

The terms Name and Version should be interpreted appropriately to correspond with a supplier's terminology (e.g. Type, Series, Model).

A.5 PICS proforma

A.5.1 CSTA Profiles

CSTA Profiles group together services and events, where each profile specifies a set of services and events that are supported by the implementation. Switching Function implementors shall indicate support for one or more profiles in the table below. Specifying support for a profile shall be accompanied by specifying support for the services and events encompassed by the profile, as well as any other services and events that the implementation supports.

Refer to ECMA-269 for a description of the CSTA Services and Events that must be supported for a specific CSTA profile.

Description: Profile(s) Supported	Supported?		Comments
	Yes	No	
Basic Telephony Profile			
Routeing Profile			
Level 1a Voice Browser Profile			
Level 1b Voice Browser Profile			
Level 2 Voice Browser Profile			

A.5.2 Capability Exchange Services

A.5.2.1 Get Logical Device Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Logical Device Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
groupDeviceAttributes			
namedDeviceTypes			
shortFormDeviceID			
agentLogOnModels			
appearanceList			
otherPhysicalDeviceList			
miscMonitorCaps			
associatedGroupList			
maxCallbacks			
maxAutoAnswerRings			
maxActiveCalls			
maxHeldCalls			
maxFwdSettings			
maxDevicesInConf			
transAndConfSetup			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			
mediaClassSupport			
mediaServiceCapsList			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
connectionRateList			
delayToleranceList			
numberOfChannels			
maxChannelBind			
routeingServList			
logDevServList			
logDevEvtsList			
deviceMaintEvtsList			
security			
privateData			

A.5.2.2 Get Physical Device Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Physical Device Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
groupDeviceAttributes			
namedDeviceTypes			
otherLogicalDeviceList			
deviceModelName			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			
maxDisplays			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
maxButtons			
maxLamps			
maxRingPatterns			
physDevServList			
physDevEvtsList			
security			
privateData			

A.5.2.3 Get Switching Function Capabilities

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Switching Function Capabilities			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
callCharacteristicsSupported			
mediaClassSupport			
numberOfChannels			
maxChannelBind			
miscMediaCallCharacteristics			
connectionRateList			
delayToleranceRateList			
pauseTime			
currentTime			
messageSeqNumbers			
timeStampMode			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
securityMode			
securityFormat			
privateDataFormat			
transAndConfSetup			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			
miscMonitorCaps			
correlatorDataSupported			
dynamicFeatureSupported			
callLinkageOptionsSupported			
acdModels			
agentLogonModels			
agentStateModels			
maxLengthParametersContinued			
routeingServList			
logDevServList			
logDevEvtsList			
physDevServList			
physDevEvtsList			
deviceMaintEvtsList			
statusReportingServList			
capExchangeServList			
cdrServList			
vendorSpecificServList			
vendorSpecificEvtsList			
privateDataVersionList			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
systemStatusTimer			
simpleThreshold			
filterThreshold			
mediaServiceCapsList			
maxDeviceHistoryEntries			
security			
privateData			

A.5.2.4 Get Switching Function Devices

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Switching Function Devices			
Service Request optional parameters			
requestedDeviceID			
requestedDeviceCategory			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.2.5 Switching Function Devices

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Switching Function Devices			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.3 System Services

A.5.3.1 Change System Status Filter

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Change System Status Filter			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.2 System Register

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
System Register			
Service Request optional parameters			
requestedStatusFilter			
security			
privateData			
Service Response optional parameters			
actualStatusFilter			
security			
privateData			

A.5.3.3 System Register Abort

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
System Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.3.4 System Register Cancel

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
System Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.5 Request System Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Request System Status			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.6 System Status

The System Status service shall be supported as part of the Application Association Initialisation as specified in Clause 7 of ECMA-269.

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
System Status			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.7 Switching Function Capabilities Changed

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Switching Function Capabilities Changed			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.8 Switching Function Devices Changed

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Switching Function Devices Changed			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.4 Monitoring Services

A.5.4.1 Change Monitor Filter

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Change Monitor Filter			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
actualFilterList			
security			
privateData			

A.5.4.2 Monitor Start

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Monitor Start			
Service Request optional parameters			
requestedMonitorFilter			
monitorType			
requestedMonitorMediaClass			
security			
privateData			
Service Response optional parameters			
actualMonitorFilter			
actualMonitorMediaClass			
monitorExistingCalls			
security			
privateData			

A.5.4.3 Monitor Stop

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Monitor Stop			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.5 Snapshot Services

A.5.5.1 Snapshot Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Snapshot Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
serviceCrossRefID			
snapshotData			
mediaCallCharacteristics			
callCharacteristics			
callingDevice			
calledDevice			
associatedCallingDevice			
associatedCalledDevice			
correlatorData			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.5.2 Snapshot Device

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Snapshot Device			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
serviceCrossRefID			
snapshotData			
security			
privateData			

A.5.5.3 Snapshot CallData

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Snapshot CallData			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.5.4 Snapshot DeviceData

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Snapshot DeviceData			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.6 Call Control Services

A.5.6.1 Accept Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Accept Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.2 Alternate Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Alternate Call			
Service Request optional parameters			
connectionReservation			
consultOptions			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.3 Answer Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Answer Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.4 Call Back Call-Related

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Back Call-Related			
Service Request optional parameters			
callCharateristics			
security			
subjectOfCall			
languagePreferences			
privateData			
Service Response optional parameters			
targetDevice			
security			
privateData			

A.5.6.5 Call Back Message Call-Related

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Back Message Call-Related			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
targetDevice			
security			
privateData			

A.5.6.6 Camp On Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Camp On Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.7 Clear Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Clear Call			
Service Request optional parameters			
userData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.8 Clear Connection

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Clear Connection			
Service Request optional parameters			
correlatorData			
userData			
reason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.9 Conference Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Conference Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
connections			
conferenceCallInfo			
security			
privateData			

A.5.6.10 Consultation Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Consultation Call			
Service Request optional parameters			
connectionReservation			
accountCode			
authCode			
correlatorData			
userData			
callCharacteristics			
mediaCallCharacteristics			
callingConnectionInfo			
consultOptions			
subjectOfCall			
languagePreferences			
security			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
mediaCallCharacteristics			
initiatedCallInfo			
security			
privateData			

A.5.6.11 Deflect Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Deflect Call			
Service Request optional parameters			
correlatorData			
userData			
subjectOfCall			
languagePreferences			
reason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.12 Dial Digits

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Dial Digits			
Service Request optional parameters			
correlatorData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.13 Directed Pickup Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Directed Pickup Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
pickedCall			
pickedCallInfo			
security			
privateData			

A.5.6.14 Group Pickup Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Group Pickup Call			
Service Request optional parameters			
pickGroup			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
pickedCall			
pickedCallInfo			
security			
privateData			

A.5.6.15 Hold Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Hold Call			
Service Request optional parameters			
connectionReservation			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.16 Intrude Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Intrude Call			
Service Request optional parameters			
participationType			
userData			
security			
privateData			
Service Response optional parameters			
conferencedCall			
conferencedCallInfo			
security			
privateData			

A.5.6.17 Join Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Join Call			
Service Request optional parameters			
autoOriginate			
participationType			
accountCode			
authCode			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
conferencedCallInfo			
security			
privateData			

A.5.6.18 Make Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Make Call			
Service Request optional parameters			
accountCode			
authCode			
autoOriginate			
correlatorData			
userData			
callCharacteristics			
mediaCallCharacteristics			
callingConnectionInfo			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
mediaCallCharacteristics			
initiatedCallInfo			
security			
privateData			

A.5.6.19 Make Predictive Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Make Predictive Call			
Service Request optional parameters			
signallingDetection			
destinationDetection			
defaultAction			
accountCode			
authCode			
autoOriginate			
alertTime			
correlatorData			
callCharacteristics			
subjectOfCall			
languagePreferences			
userData			
security			
privateData			
Service Response optional parameters			
initiatedCallInfo			
security			
privateData			

A.5.6.20 Park Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Park Call			
Service Request optional parameters			
correlatorData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
parkedTo			
security			
privateData			

A.5.6.21 Reconnect Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Reconnect Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.22 Retrieve Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Retrieve Call			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.6.23 Send Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send Message			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
callCharacteristics			
mediaCallCharacteristics			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.24 Single Step Conference Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Single Step Conference Call			
Service Request optional parameters			
participationType			
accountCode			
authCode			
correlatorData			
userData			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
conferencedCallInfo			
security			
privateData			

A.5.6.25 Single Step Transfer Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Single Step Transfer Call			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
userData			
subjectOfCall			
languagePreferences			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
reason			
security			
privateData			
Service Response optional parameters			
connections			
transferredCallInfo			
security			
privateData			

A.5.6.26 Transfer Call

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Transfer Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
connections			
transferredCallInfo			
security			
privateData			

A.5.7 Call Control Events

A.5.7.1 Bridged

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Bridged			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
bridgedConnectionInfo			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.2 Call Cleared

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Call Cleared			
correlatorData			
userData			
mediaCallCharacteristics			
callCharacteristics			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.3 Conferenced

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Conferenced			
secondaryOldCall			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.4 Connection Cleared

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Connection Cleared			
localConnectionInfo			
correlatorData			
userData			
chargingInfo			
servicesPermitted			
mediaCallCharateristics			
callCharacteristics			
droppedConnectionInfo			
callLinkageData			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.5 Delivered

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Delivered			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
connectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.6 Digits Dialed

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Digits Dialed			
localConnectionInfo			
correlatorData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
diallingConnectionInfo			
callCharacteristics			
languagePreferences			
security			
privateData			

A.5.7.7 Diverted

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Diverted			
callingDevice			
calledDevice			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
connectionInfo			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.8 Established

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Established			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
establishConnectionInfo			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.9 Failed

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Failed			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
failedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
deviceHistory			
security			
privateData			

A.5.7.10 Held

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Held			
localConnectionInfo			
correlatorData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
heldConnectionInfo			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.11 Network Capabilities Changed

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Network Capabilities Changed			
localConnectionInfo			
correlatorData			
userData			
networkCapability			
servicesPermitted			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
mediaCallCharacteristics			
callCharacteristics			
outboundConnectionInfo			
languagePreferences			
security			
privateData			

A.5.7.12 Network Reached

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Network Reached			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
networkCapability			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
outboundConnectionInfo			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.13 Offered

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Offered			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
offeredConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.14 Originated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Originated			
originatingDevice			
localConnectionInfo			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
correlatorData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
originatedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
security			
privateData			

A.5.7.15 Queued

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Queued			
numberQueued			
callsInFront			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
queuedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.16 Retrieved

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Retrieved			
localConnectionInfo			
correlatorData			
servicePermitted			
mediaCallCharacteristics			
callCharacteristics			
retrievedConnectionInfo			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.17 Service Initiated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Service Initiated			
localConnectionInfo			
correlatorData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
initiatedConnectionInfo			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
subjectOfCall			
messageInfo			
languagePreferences			
security			
privateData			

A.5.7.18 Transferred

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Transferred			
secondaryOldCall			
localConnectionInfo			
correlatorData			
userData			
chargingInfo			
servicesPermitted			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
mediaCallCharacteristics			
callCharacteristics			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.8 Call Associated Feature Services

A.5.8.1 Associate Data

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Associate Data			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
callQualifyingData			
callCharacteristics			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.2 Cancel Telephony Tones

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Cancel Telephony Tones			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.3 Change Connection Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Change Connection Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.4 Generate Digits

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Generate Digits			
Service Request optional parameters			
digitMode			
toneDuration			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
pulseRate			
pauseDuration			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.5 Generate Telephony Tones

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Generate Telephony Tones			
Service Request optional parameters			
toneDuration			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.6 Send User Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send User Information			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.9 Call Associated Feature Events

A.5.9.1 Call Information

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Call Information			
callingDevice			
accountInfo			
authorisationCode			
correlatorData			
servicesPermitted			
userData			
callQualifyingData			
connectionInfo			
callCharacteristics			
subjectOfCall			
languagePreferences			
security			
privateData			

A.5.9.2 Charging

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Charging			
cause			
security			
privateData			

A.5.9.3 Digits Generated

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Digits Generated			
digitDurationList			
pauseDurationList			
connectionInfo			
security			
privateData			

A.5.9.4 Telephony Tones Generated

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Telephony Tones Generated			
toneGenerated			
toneFrequency			
toneDuration			
pauseDuration			
connectionInfo			
security			
privateData			

A.5.9.5 Service Completion Failure

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Service Completion Failure			
secondaryCall			
otherDevicesPrimaryCallList			
otherDevicesSecondaryCallList			
mediaCallCharacteristics			
security			
privateData			

A.5.10 Media Attachment Services

A.5.10.1 Attach Media Service

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Attach Media Service			
Service Request optional parameters			
mediaServiceVersion			
mediaServiceInstanceID			
requestedConnectionState			
security			
privateData			
Service Response optional parameters			
mediaConnection			
mediaDevice			
mediaServiceInstanceID			
mediaConnectionInfo			
security			
privateData			

A.5.10.2 Detach Media Service

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Detach Media Service			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.11 Media Attachment Events

A.5.11.1 Media Attached

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Media Attached			
mediaServiceVersion			
mediaServiceInstanceID			
mediaStreamID			
mediaCallCharacteristics			
callCharacteristics			
localConnectionInfo			
mediaConnectionInfo			
security			
privateData			

A.5.11.2 Media Detached

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Media Detached			
mediaServiceVersion			
mediaServiceInstanceID			
mediaStreamID			
mediaCallCharacteristics			
callCharacteristics			
localConnectionInfo			
mediaConnectionInfo			
security			
privateData			

A.5.12 Routing Services

A.5.12.1 Route Register

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Register			
Service Request optional parameters			
routeingDevice			
requestedRouteingMediaClass			
security			
privateData			
Service Response optional parameters			
actualRouteingMediaClass			
security			
privateData			

A.5.12.2 Route Register Abort

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.12.3 Route Register Cancel

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.12.4 Re-Route

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Re-Route			
Service Request optional parameters			
routeRegisterReqID			
replyTimeout			
correlatorData			
security			
privateData			

A.5.12.5 Route End

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route End			
Service Request optional parameters			
routeRegisterReqID			
errorValue			
correlatorData			
security			
privateData			

A.5.12.6 Route Reject

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Reject			
Service Request optional parameters			
routeRegisterReqID			
rejectCause			
correlatorData			
security			
privateData			

A.5.12.7 Route Request

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Request			
Service Request optional parameters			
routeRegisterReqID			
callingDevice			
routeingDevice			
routedCall			
routeSelAlgorithm			
associatedCallingDevice			
associatedCalledDevice			
priority			
replyTimeout			
correlatorData			
mediaCallCharacteristics			
callCharacteristics			
routedCallInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.12.8 Route Select

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Select			
Service Request optional parameters			
routeRegisterReqID			
alternateRoutes			
remainRetries			
routeUsedReq			
correlatorData			
security			
privateData			

A.5.12.9 Route Used

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Route Used			
Service Request optional parameters			
routeRegisterReqID			
callingDevice			
domain			
correlatorData			
security			
privateData			

A.5.13 Physical Device Services

A.5.13.1 Button Press

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Button Press			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.2 Get Auditory Apparatus Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Auditory Apparatus Information			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.3 Get Button Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Button Information			
Service Request optional parameters			
button			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.4 Get Display

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Display			
Service Request optional parameters			
displayID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.5 Get HookSwitch Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get HookSwitch Status			
Service Request optional parameters			
hookswitch			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.6 Get Lamp Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Lamp Information			
Service Request optional parameters			
lamp			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.7 Get Lamp Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Lamp Mode			
Service Request optional parameters			
lamp			
security			
privateData			
Service Response optional parameters			
lamp			
security			
privateData			

A.5.13.8 Get Message Waiting Indicator

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Message Waiting Indicator			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
deviceForMessage			
lampIsPresent			
security			
privateData			

A.5.13.9 Get Microphone Gain

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Microphone Gain			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.10 Get Microphone Mute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Microphone Mute			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.11 Get Ringer Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Ringer Status			
Service Request optional parameters			
ringer			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.12 Get Speaker Mute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Speaker Mute			
Service Request optional parameters			
auditoryApparatus			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.13 Get Speaker Volume

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Speaker Volume			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.14 Set Button Information

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Button Information			
Service Request optional parameters			
buttonLabel			
buttonAssociatedNumber			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.15 Set Display

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Display			
Service Request optional parameters			
displayID			
physicalBaseRowNumber			
physicalBaseColumnNumber			
offset			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.16 Set HookSwitch Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set HookSwitch Status			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.17 Set Lamp Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Lamp Mode			
Service Request optional parameters			
lampBrightness			
lampColor			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.18 Set Message Waiting Indicator

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Message Waiting Indicator			
Service Request optional parameters			
deviceForMessage			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.19 Set Microphone Gain

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Microphone Gain			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.20 Set Microphone Mute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Microphone Mute			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.21 Set Ringer Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Ringer Status			
Service Request optional parameters			
ringMode			
ringPattern			
ringVolume			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.22 Set Speaker Mute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Speaker Mute			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.23 Set Speaker Volume

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Speaker Volume			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.14 Physical Device Events

A.5.14.1 Button Information

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Button Information			
buttonLabel			
buttonAssociatedNumber			
buttonPressIndicator			
security			
privateData			

A.5.14.2 Button Press

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Button Press			
buttonLabel			
buttonAssociatedNumber			
security			
privateData			

A.5.14.3 Display Updated

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Display Updated			
displayID			
physicalRows			
physicalColumns			
physicalBaseRowNumber			
physicalBaseColumnNumber			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
characterSet			
security			
privateData			

A.5.14.4 Hookswitch

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Hookswitch			
security			
privateData			

A.5.14.5 Lamp Mode

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Lamp Mode			
lampLabel			
lampBrightness			
lampColor			
security			
privateData			

A.5.14.6 Message Waiting

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Message Waiting			
deviceForMessage			
security			
privateData			

A.5.14.7 Microphone Gain

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Microphone Gain			
security			
privateData			

A.5.14.8 Microphone Mute

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Microphone Mute			
security			
privateData			

A.5.14.9 Ringer Status

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Ringer Status			
ringMode			
ringCount			
ringPattern			
ringVolume			
security			
privateData			

A.5.14.10 Speaker Mute

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Speaker Mute			
security			
privateData			

A.5.14.11 Speaker Volume

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Speaker Volume			
timeStamp			
security			
privateData			

A.5.15 Logical Device Services

A.5.15.1 Call Back Non-Call-Related

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Back Non-Call-Related			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.2 Call Back Message Non-Call-Related

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Back Message Non-Call-Related			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.3 Cancel Call Back

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Cancel Call Back			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.4 Cancel Call Back Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Cancel Call Back Message			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.15.5 Get Agent State

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Agent State			
Service Request optional parameters			
acdGroup			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.6 Get Auto Answer

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Auto Answer			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
numberOfRings			
security			
privateData			

A.5.15.7 Get Auto Work Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Auto Work Mode			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
autoWorkInterval			
security			
privateData			

A.5.15.8 Get Caller ID Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Caller ID Status			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.9 Get Do Not Disturb

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Do Not Disturb			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
callOrigination			
callingDeviceList			
security			
privateData			

A.5.15.10 Get Forwarding

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Forwarding			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.11 Get Last Number Dialed

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Last Number Dialed			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.12 Get Routeing Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Get Routeing Mode			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.13 Set Agent State

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Agent State			
Service Request optional parameters			
agentID			
password			
group			
security			
privateData			
Service Response optional parameters			
pendingAgentState			
security			
privateData			

A.5.15.14 Set Auto Answer

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Auto Answer			
Service Request optional parameters			
numberOfRings			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.15 Set Auto Work Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Auto Work Mode			
Service Request optional parameters			
autoWorkInterval			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.16 Set Caller ID Status

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Caller ID Status			
Service Request optional parameters			
security			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.17 Set Do Not Disturb

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Do Not Disturb			
Service Request optional parameters			
callOrigination			
callingDeviceList			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.18 Set Forwarding

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Forwarding			
Service Request optional parameters			
forwardingType			
forwardDN			
ringCount			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.15.19 Set Routeing Mode

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Routeing Mode			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.16 Logical Device Events

A.5.16.1 Agent Busy

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Busy			
agentID			
acdGroup			
pendingAgentState			
cause			
security			
privateData			

A.5.16.2 Agent Logged Off

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Logged Off			
agentID			
acdGroup			
agentPassword			
cause			
security			
privateData			

A.5.16.3 Agent Logged On

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Logged On			
agentID			
acdGroup			
agentPassword			
cause			
security			
privateData			

A.5.16.4 Agent Not Ready

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Not Ready			
agentID			
acdGroup			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
cause			
security			
privateData			

A.5.16.5 Agent Ready

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Ready			
agentID			
acdGroup			
cause			
security			
privateData			

A.5.16.6 Agent Working After Call

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Agent Working After Call			
agentID			
acdGroup			
pendingAgentState			
cause			
security			
privateData			

A.5.16.7 Auto Answer

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Auto Answer			
numberOfRings			
security			
privateData			

A.5.16.8 Auto Work Mode

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Auto Work Mode			
security			
privateData			

A.5.16.9 Call Back

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Call Back			
security			
privateData			

A.5.16.10 Call Back Message

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Call Back Message			
security			
privateData			

A.5.16.11 Caller ID Status

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Caller ID Status			
security			
privateData			

A.5.16.12 Do Not Disturb

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Do Not Disturb			
callOrigination			
callingDeviceList			
security			
privateData			

A.5.16.13 Forwarding

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Forwarding			
forwardingType			
forwardTo			
forwardDefault			
ringCount			
security			
privateData			

A.5.16.14 Routeing Mode

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Routeing Mode			
security			
privateData			

A.5.17 Device Maintenance Events

A.5.17.1 Back In Service

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Back In Service			
cause			
security			
privateData			

A.5.17.2 Device Capabilities Changed

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Device Capabilities Changed			
cause			
security			
privateData			

A.5.17.3 Out of Service

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Out of Service			
cause			
security			
privateData			

A.5.18 I/O Services

A.5.18.1 I/O Register

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
I/O Register			
Service Request optional parameters			
ioDevice			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.2 I/O Register Abort

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
I/O Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.18.3 I/O Register Cancel

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
I/O Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.4 Data Path Resumed

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Data Path Resumed			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.5 Data Path Suspended

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Data Path Suspended			
Service Request optional parameters			
ioRegisterReqID			
security			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.6 Fast Data

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Fast Data			
Service Request optional parameters			
ioRegisterReqID			
dataPathType			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.7 Resume Data Path

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Resume Data Path			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.18.8 Send Broadcast Data

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send Broadcast Data			
Service Request optional parameters			
dataPathType			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.9 Send Data

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send Data			
Service Request optional parameters			
ioRegisterReqID			
displayAttributes			
ioCause			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.18.10 Send Multicast Data

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send Multicast Data			
Service Request optional parameters			
ioData			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.11 Start Data Path

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Start Data Path			
Service Request optional parameters			
ioRegisterReqID			
dataPathDirection			
dataPathType			
displayID			
numberOfCharsToCollect			
terminationCharacter			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
timeout			
security			
privateData			
Service Response optional parameters			
numberOfCharsToCollect			
terminationCharacter			
timeout			
security			
privateData			

A.5.18.12 Stop Data Path

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Stop Data Path			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.13 Suspend Data Path

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Suspend Data Path			
Service Request optional parameters			
ioRegisterReqID			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19 Data Collection Services

A.5.19.1 Data Collected

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Data Collected			
Service Request optional parameters			
digitsData			
telTonesData			
connectionInfo			
dcolCause			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.2 Data Collection Resumed

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Data Collection Resumed			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.3 Data Collection Suspended

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Data Collection Suspended			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.4 Resume Data Collection

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Resume Data Collection			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.19.5 Start Data Collection

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Start Data Collection			
Service Request optional parameters			
dataCollType			
digitsReportingCriteria			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.6 Stop Data Collection

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Stop Data Collection			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.7 Suspend Data Collection

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Suspend Data Collection			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20 Voice Unit Services

A.5.20.1 Concatenate Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Concatenate Message			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.2 Delete Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Delete Message			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.20.3 Play Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Play Message			
Service Request optional parameters			
duration			
termination			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.4 Query Voice Attribute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Query Voice Attribute			
Service Request optional parameters			
connection			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.5 Record Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Record Message			
Service Request optional parameters			
samplingRate			
encodingAlgorithm			
maxDuration			
termination			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.6 Reposition

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Reposition			
Service Request optional parameters			
messageToReposition			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.7 Resume

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Resume			
Service Request optional parameters			
messageToResume			
duration			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.8 Review

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Review			
Service Request optional parameters			
messageToReview			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.9 Set Voice Attribute

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Set Voice Attribute			
Service Request optional parameters			
message			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.10 Stop

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Stop			
Service Request optional parameters			
messageToBeStopped			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.11 Suspend

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Suspend			
Service Request optional parameters			
message			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.12 Synthesize Message

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Synthesize Message			
Service Request optional parameters			
control			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.21 Voice Unit Events

A.5.21.1 Play

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Play			
length			
currentPosition			
speed			
cause			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
servicesPermitted			
security			
privateData			

A.5.21.2 Record

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Record			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.3 Review

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Review			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.4 Stop

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Stop			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.5 Suspend Play

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Suspend Play			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.6 Suspend Record

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Suspend Record			
length			
currentPosition			
cause			

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
servicesPermitted			
security			
privateData			

A.5.21.7 Voice Attribute Changed

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Voice Attribute Changed			
playVolume			
recordingGain			
speed			
currentPosition			
cause			
security			
privateData			

A.5.22 Call Detail Record (CDR) Services

A.5.22.1 Call Detail Records Notification

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Detail Records Notification			
Service Request optional parameters			
cdrReason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.2 Call Detail Records Report

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Call Detail Records Report			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.3 Send Stored Call Detail Records

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Send Stored Call Detail Records			
Service Request optional parameters			
timePeriod			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.4 Start Call Detail Records Transmission

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Start Call Detail Records Transmission			
Service Request optional parameters			
security			

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.5 Stop Call Detail Records Transmission

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Stop Call Detail Records Transmission			
Service Request optional parameters			
cdrTermReason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23 Vendor Specific Extension Services

A.5.23.1 Escape Register

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Escape Register			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23.2 Escape Register Abort

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Escape Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.23.3 Escape Register Cancel

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Escape Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23.4 Escape

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Escape			
Service Request optional parameters			
escapeRegisterID			
security			
Service Response optional parameters			
security			
privateData			

A.5.23.5 Private Data Version Selection

Description: Service, optional parameters	Supported?		Comments
	Yes	No	
Private Data Version Selection			
Service Response optional parameters			
security			
privateData			

A.5.24 Vendor Specific Extension Events

A.5.24.1 Private Event

Description: Event, optional parameters	Supported?		Comments
	Yes	No	
Private Event			
security			

Annex B

(informative)

Examples of Device Identifier Element Encodings

This annex illustrates how deviceIDs are encoded in the XML protocol.

The CSTA Device Identifiers (deviceIDs) element type is associated with many different parameters in CSTA services and events.

In order to enhance readability, XML attributes are used to qualify the different possible types of deviceIDs.

B.1 Simple DeviceID (no attributes)

```
<csta:deviceID>4711</csta:deviceID>
```

B.2 DeviceID typed as a dialing number

```
<csta:deviceID typeOfNumber="dialingNumber">4711</csta:deviceID>
```

B.3 DeviceID typed as a device number

```
<csta:deviceID typeOfNumber="deviceNumber">100</csta:deviceID>
```

B.4 DeviceID typed as a explicit national number

```
<csta:deviceID typeOfNumber="explicitPublic:national">18005551212</  
csta:deviceID>
```

B.5 DeviceID typed as other type of numbering plan

```
<csta:deviceID typeOfNumber="other">abc=</csta:deviceID>
```

B.6 DeviceID media characteristics

```
<csta:deviceID mediaClass="voice audio other"  
switchingSubDomainCCIEType="isdn" bitRate="variable">4711</csta:deviceID>
```

B.7 DeviceID including all attributes

```
<csta:deviceID typeOfNumber="implicitPublic" bitRate="constant"  
connectionRate="0" delayTolerance="10" mediaClass="voice"  
switchingSubDomainCCIEType="isdn"  
switchingSubDomainInformationElements="abcdef==">123456</csta:deviceID>
```


Annex C

(informative)

Examples of Connection ID Encodings

This annex illustrates how connectionIDs are encoded in the XML protocol.

C.1 Fully Specified Connection ID

A CSTA connectionID, unless otherwise specified in ECMA-269, contains a callID and a deviceID portion. This is called a fully specified connectionID.

```
<camponConnection>  
  <callID>1</callID>  
  <deviceID>22222</deviceID>  
</camponConnection>
```

C.2 CallID only ConnectionID

In some cases, as specified in ECMA-269, a callID-only connectionID can be used (e.g., Clear Call service).

```
<callToBeAnswered>  
  <callID>1</callID>  
</callToBeAnswered>
```

C.3 DeviceID only ConnectionID

In some cases, as specified in ECMA-269, a device-only connectionID can be used (e.g., Answer Call service).

```
<connectionToBeCleared>  
  <deviceID>22222</deviceID>  
</connectionToBeCleared>
```


Annex D

(informative)

Examples of CSTA-specific XML

This annex illustrates examples of CSTA-specific information in XML instance documents.

D.1 Make Call service request - with only mandatory elements

This example illustrates a CSTA Make Call service with just the mandatory elements provided.

```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCall xmlns="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <callingDevice>22343</callingDevice>
  <calledDirectoryNumber>18005551212</calledDirectoryNumber>
</MakeCall>
```

D.2 Make Call service request - with optional elements

This example illustrates some of the optional elements specified in the Make Call service.

```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCall xmlns="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <callingDevice>22343</callingDevice>
  <calledDirectoryNumber>18005551212</calledDirectoryNumber>
  <accountCode>0001</accountCode>
  <authCode>0001</authCode>
  <autoOriginate>prompt</autoOriginate>
  <correlatorData>
    <string>0001</string>
  </correlatorData>
  <userData>
    <string>0001</string>
  </userData>
  <callCharacteristics>
    <priorityCall>true</priorityCall>
  </callCharacteristics>
  <mediaCallCharacteristics>
    <mediaClass>
      <voice>true</voice>
    </mediaClass>
  </mediaCallCharacteristics>
  <callingConnectionInfo>
    <flowDirection>transmitAndReceive</flowDirection>
    <numberOfChannels>2</numberOfChannels>
  </callingConnectionInfo>
  <extensions>
    <security>
      <messageSequenceNumber>123</messageSequenceNumber>
      <securityInfo>
        <string>0001</string>
      </securityInfo>
    </security>
  </extensions>
</MakeCall>
```

```
    <privateData>
      <string>0001</string>
    </privateData>
  </extensions>
</MakeCall>
```

D.3 Make Call - Positive Acknowledgement

This example illustrates a positive acknowledgement to the Make Call service.

```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCallResponse xmlns="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <callingDevice>
    <callID>1</callID>
    <deviceID>22343</deviceID>
  </callingDevice>
</MakeCallResponse>
```

D.4 Make Call - Negative Acknowledgement

This example illustrates a negative acknowledgement to the Make Call service.

```
<?xml version="1.0" encoding="UTF-8"?>
<CSTAErrorCode xmlns="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <operation>invalidCallingDeviceID</operation>
</CSTAErrorCode>
```

D.5 Delivered Event

This example illustrates a Delivered event.

```
<?xml version="1.0" encoding="UTF-8"?>
<DeliveredEvent xmlns="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <monitorCrossRefID>1</monitorCrossRefID>
  <connection>
    <callID>1</callID>
    <deviceID>33333</deviceID>
  </connection>
  <alertingDevice>
    <deviceIdentifier>33333</deviceIdentifier>
  </alertingDevice>
  <callingDevice>
    <deviceIdentifier>22222</deviceIdentifier>
  </callingDevice>
  <calledDevice>
    <deviceIdentifier>33333</deviceIdentifier>
  </calledDevice>
  <lastRedirectionDevice>
    <notRequired/>
  </lastRedirectionDevice>
  <cause>normal</cause>
</DeliveredEvent>
```

Annex E

(informative)

CSTA XML with SOAP

This annex illustrates examples of CSTA XML instance documents using the Simple Object Access Protocol (SOAP). These examples do not assume that HTTP is used as the transport.

Since multiple requests can be outstanding for a particular CSTA service, information is added to the SOAP Header element to provide the necessary correlation information. (When SOAP is used with HTTP, the additional header information is not necessary because there can only be one outstanding HTTP request per connection as illustrated in the following annex).

E.1 CSTA service request

This example illustrates a CSTA Make Call service with SOAP. The invokeID is provided in the SOAP header.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Header>
    <invokeID>1</invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <csta:MakeCall>
      <csta:callingDevice>4711</csta:callingDevice>
      <csta:calledDirectoryNumber>4712</csta:calledDirectoryNumber>
    </csta:MakeCall>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

E.2 CSTA service response (positive acknowledgement)

This example illustrates a positive acknowledgement to the Make Call service. The invokeID in the SOAP header can be used to correlate the response to the request.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Header>
    <invokeID>1</invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <csta:MakeCallResponse>
      <csta:callingDevice>
        <csta:callID>1</callID>
        <csta:deviceID>22343</deviceID>
      </csta:callingDevice>
    </csta:MakeCallResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

E.3 CSTA service response (negative acknowledgement)

This example illustrates a negative acknowledgement to the Make Call service. The SOAP FAULT element is used to provide the error information. The invokeID in the SOAP header can be used to correlate the response to the request.

The faultcode indicates that the failure is due to incorrect information provided by the client. The CSTAErrorCode indicates that the error category is "Operation" and the specific error is "Invalid Called DeviceID".

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Header>
    <invokeID>1</invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <SOAP-ENV:faultcode>Client</SOAP-ENV:faultcode>
      <SOAP-ENV:faultstring>CSTA Error</SOAP-ENV:faultstring>
      <SOAP-ENV:detail>
        <csta:CSTAErrorCode
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
          <csta:operation>invalidCalledDeviceID</csta:operation>
        </csta:CSTAErrorCode>
      </SOAP-ENV:detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

E.4 Delivered Event

This example illustrates a Delivered event.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Body>
    <csta:DeliveredEvent>
      <csta:monitorCrossRefID>1</csta:monitorCrossrefID>
      <csta:connection>
        <csta:callID>1</csta:callID>
        <csta:deviceID>33333</csta:deviceID>
      </csta:connection>
      <csta:alertingDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
      </csta:alertingDevice>
      <csta:callingDevice>
        <csta:deviceIdentifier>22222</csta:deviceIdentifier>
      </csta:callingDevice>
      <csta:calledDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
      </csta:calledDevice>
      <csta:lastRedirectionDevice>
        <csta:notRequired/>
      </csta:lastRedirectionDevice>
      <csta:cause>csta:normal</csta:cause>
    </csta:DeliveredEvent>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```
    </csta:DeliveredEvent>  
  </SOAP-ENV:Body>  
</SOAP-ENV:Envelope>
```


Annex F

(informative)

CSTA XML with SOAP with HTTP

This annex illustrates examples of CSTA XML instance documents using the Simple Object Access Protocol (SOAP) with HTTP.

Since, with HTTP, only one request can be outstanding for a particular CSTA service, header information is not needed to correlate the service request to the service response. (The single response can be correlated to the request via the method name (e.g. MakeCall and MakeCallRequest)).

F.1 CSTA service request

This example illustrates a CSTA Make Call service with SOAP and HTTP. The first group of lines represent the HTTP header information.

```
POST /anyserver HTTP/1.1
Host: anyweb.com
Content-Type: text/xml
Content-Length: nnn
SOAPAction: Makecall
```

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Body>
    <csta:MakeCall>
      <csta:callingDevice>4711</csta:callingDevice>
      <csta:calledDirectoryNumber>4712</csta:calledDirectoryNumber>
    </csta:MakeCall>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

F.2 CSTA service response (positive acknowledgement)

This example illustrates a positive acknowledgement to the Make Call service. The first group of lines represent the HTTP header information. The 200 response code indicates a successful response.

```
HTTP/1.1 200 OK
Content-Type: text/xml
Content-Length: nnnn
```

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Body>
    <csta:MakeCallResponse>
      <csta:callingDevice>
        <csta:callID>1</callID>
        <csta:deviceID>22343</deviceID>
      </csta:callingDevice>
    </csta:MakeCallResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```
    </csta:MakeCallResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

F.3 CSTA service response (negative acknowledgement)

This example illustrates a negative acknowledgement to the Make Call service. The SOAP FAULT element is used to provide the error information. The 500 response code indicates that the request failed.

```
HTTP/1.1 500 Internal Server Error
Content-Type: text/xml
Content-Length: nnnn
```

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">

  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <SOAP-ENV:faultcode>Client</SOAP-ENV:faultcode>
      <SOAP-ENV:faultstring>CSTA Error</SOAP-ENV:faultstring>
      <SOAP-ENV:detail>
        <csta:CSTAErrorCode
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
          <csta:operation>invalidCalledDeviceID</csta:operation>
        </csta:CSTAErrorCode>
      </SOAP-ENV:detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

F.4 Delivered Event

This example illustrates a Delivered event. For CSTA events, the SOAP proxy (in the client machine) becomes a type of SOAP server.

```
POST /anyserver HTTP/1.1
Host: anyweb.com
Content-Type: text/xml
Content-Length: nnn
SOAPAction: DeliveredEvent
```

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma.ch/standards/ecma-323/csta/ed2">
  <SOAP-ENV:Body>
    <csta:DeliveredEvent>
      <csta:monitorCrossRefID>1</csta:monitorCrossrefID>
      <csta:connection>
        <csta:callID>1</csta:callID>
        <csta:deviceID>33333</csta:deviceID>
      </csta:connection>
      <csta:alertingDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
      </csta:alertingDevice>
      <csta:callingDevice>
```

```
        <csta:deviceIdentifier>22222</csta:deviceIdentifier>
    </csta:callingDevice>
    <csta:calledDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
    </csta:calledDevice>
    <csta:lastRedirectionDevice>
        <csta:notRequired/>
    </csta:lastRedirectionDevice>
    <csta:cause>csta:normal</csta:cause>
</csta:DeliveredEvent>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```


Annex G

(informative)

CSTA XML over TCP

This annex illustrates how CSTA XML instance documents are transported over TCP/IP.

G.1 Message Format

Each XML instance message that is sent across a TCP/IP stream is preceded by a message prefix. This prefix consists of a two byte header and a two byte length component as illustrated below..

0	1	2	3	4 . . .
Header		Length		message body

- the header is two bytes. It indicates the format of the XML instance message. The following header formats are defined:
 - 00 - indicates that the message body consists of a CSTA XML instance message without SOAP. As illustrated in G.2, the message body consists of an Invoke ID component followed by an XML instance message.
 - 01 - indicates that the message body consists of a SOAP enveloped CSTA XML instance message as illustrated in G.3.
- the length is defined as the length of the full message, i.e., the length of the message body plus the length of the message prefix. The byte ordering is most significant byte first.

There is one XML instance message (CSTA service request, service response, or event) per TCP packet.

The XML instance message is encoded as ASCII text. White space and line feeds are allowed (and ignored) between XML statements.

G.2 TCP without SOAP

When TCP is used to transport a CSTA XML instance message without SOAP, a four byte Invoke ID is provided in order to correlate CSTA service request with response messages. This Invoke ID is provided in the message body that precedes the XML instance message as illustrated in the following figure.

0	1	2	3	4	5	6	7	8 . . .
0	0	Length		Invoke ID				XML message body

- Invoke ID is four bytes. It is used to correlate a CSTA service request with a service response. It is encoded as four ASCII numerical characters. A new Invoke ID is created in a CSTA service request message and is repeated in the corresponding service (positive or fault) response message. A value of "9999" is used for CSTA events.
- XML Message Body. Examples of the XML message body content are provided in annex D.

G.3 TCP with SOAP

When TCP is used to transport a CSTA XML instance message with SOAP, the message body consists of the SOAP enveloped CSTA XML instance message as illustrated in the following figure.

0	1	2	3	4 . . .
0	1	Length	SOAP XML message body	

- SOAP XML Message - Examples of the SOAP XML message body content are provided in annex E. Note that the Invoke ID is contained in the SOAP header as described in annex E.

Annex H

(informative)

Summary of changes in this edition

1. Changed target and CSTA Namespace from “http://www.ecma.ch/standards/ecma-323/csta” to “http://www.ecma.ch/standards/ecma-323/csta/ed2”.
2. New Services:
 - a. 15.1.23, New Send Message service.
 - b. 16.1.3, New Change Connection Information service.
3. New Profiles:
 - a. 11.1.3, Three new profiles added to profiles parameter in Get Switching Function Capabilities service.
4. Additions to existing parameter types:
 - a. 9.2, Added choice of “restricted” to Device ID parameter types.
 - b. 9.6, Enhanced CorrelatorData and UserData to allow open content <any>.
 - c. 9.9, Values added to existing Call Characteristics parameter type for privacy and security levels.
 - d. 9.15, Value “none” added to flowDirection of ConnectionInformation parameter type.
 - e. 9.15, Added mediaSessionInfo to ConnectionInformation parameter type.
 - f. 9.15, New values added to mediaClass parameter type (message, chat, Email).
 - g. 9.15, “SIP” added to list of CCIE types in MediaCallCharacteristics parameter type.
 - h. 9.18, New causes added to EventCause parameter type (busyOverflow, calendarOverflow, capacityOverflow, pathReplacement, queueTimeOverflow, unknownOverflow, recallBusy, recallNoAnswer, recallForwarded, recallResourcesNotAvailable).
5. Removed max length constraints from data types: callID, monitorCrossRefID, deviceID, UserData, AgentID, CorrelatorData, CallQualifyingData, subDomainCallLinkageID, subDomainThreadID, and ioData.
6. New Parameter Types:
 - a. 9.6, New SubjectOfCall parameter type.
 - b. 9.6, New LanguagePreferences parameter type.
 - c. 9.6, New MessageInfo parameter type.
 - d. 9.6, New DeviceHistory parameter type.
7. Parameter Additions to Existing Services and Events:
 - a. 11.1.3, Get Switching Function Capabilities: maxLengthParametersContinued, maxDeviceHistoryLength.
 - b. 11.1.5, Switching Function Devices: nidGroup.
 - c. 14.1.1, Snapshot Call: subjectOfCall, messageInfo, languagePreferences, deviceHistory.
 - d. 14.1.2, SnapShot Device, Snapshot DeviceData: endpointDeviceID.
 - e. 15.1.4, Call Back Call-Related: subjectOfCall, languagePreferences.
 - f. 15.1.8, Clear Connection: reason.
 - g. 15.1.10, Consultation Call: subjectOfCall, languagePreferences.
 - h. 15.1.11, Deflect Call: subjectOfCall, languagePreferences, reason.

- i. 15.1.18, Make Call: subjectOfCall, languagePreferences.
 - j. 15.1.19, Make Predictive Call: subjectOfCall, languagePreferences.
 - k. 15.1.20, Park Call: subjectOfCall, languagePreferences.
 - l. 15.1.24, Single Step Conference: subjectOfCall, languagePreferences.
 - m. 15.1.25, Single Step Transfer: subjectOfCall, languagePreferences, reason.
 - n. 15.2, Call Control events:
 - subjectOfCall - added to: Delivered, Diverted, Established, Failed, Offered, Originated, Queued, Service Initiated.
 - messageInfo - added to: Delivered, Diverted, Established, Failed, Offered, Originated, Queued, Service Initiated.
 - languagePreferences - added to all call control events.
 - deviceHistory - added to: Conferenced, Connection Cleared, Delivered, Diverted, Established, Failed, Network Reached, Offered, Queued, Transferred.
 - o. 16.1.1, Associate Data service: callCharacteristics, subjectOfCall, languagePreferences.
 - p. 16.2.1, Call Information event: callCharacteristics, subjectOfCall, languagePreferences.
 - q. 18.2.4, Route Request: subjectOfCall, messageInfo, languagePreferences, deviceHistory.
8. Other Changes (errata):
- a. 9.3, Connection Identifier Format. Changed structure to eliminate XML parser read ahead problem.
 - b. 9.4, Connection States. Added "Unbounded" tag to ConnectionListItem in ConnectionList element to allow multiple list items.
 - c. 9.7 SecurityInfo. Added "Unbounded" tag to allow multiple private elements.
 - d. 9.8 CSTA PrivateData. Added "Unbounded" tag to allow multiple private elements.
 - e. 12.1.1, Change System Status Filter service. Replace SystemStatus element type references to StatusFilterList. Define StatusFilterList as a list of boolean elements of the possible System Status values.
 - f. 15.1.15, Hold Call. Changed connectionReservation element to optional.
 - g. 15.1.22, Retrieve Call. Changed extensions element to optional.
 - h. 19.2.1, Button Information event. Changed minlength, maxlength values.
 - i. G.1, CSTA XML Over TCP. Specify byte ordering for length.

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