

ECMA-93, 2nd edition, Distributed Application for Message Interchange (MIDA)

SCOPE

This ECMA Standard Distributed Application for Message Interchange (MIDA):

- defines a MIDA model based on store and forward capabilities for asynchronous communication between an undetermined number of users (See Clause 2);
- defines operations on the MIDA model as abstract interactions between the MIDA service users and the MIDA service provider (See Clause 3);
- defines the protocols to support the above services and their mapping onto the underlying service (See Clause 4);
- specifies the requirements for conformance with these protocols (See Clause 5).

This Standard defines what is needed for a basic Message transfer and access to MIDA. It provides the consistent technical basis for further MIDA protocol standards with extended scope.

This Standard defines what is needed for compatible interconnection between information processing systems. It does not define local interactions between the MIDA service user and the MIDA service. It in no way defines interlayer interfaces.

This Standard is for distributed applications located in the Application Layer of Open Systems Interconnection (See ISO 7498) and includes a presentation definition for this application.

1. 2 Field of Application

The CCITT Recommendations of the X.400 series describe a public message handling service, the protocols to be applied between public administration management domains, and the protocols by which a private management domain may connect to an administration domain.

This MIDA Standard describes extensions to the CCITT Recommendations of the X.400 series with the following objectives:

- to permit the creation of multivendor management domains (public or private) by defining inter-equipment extensions to the CCITT inter-domain protocol;
- to allow free interchange of messages between MIDA Users and Users connected to an administration domain;
- to provide a topological addressing mechanism for use within management domains;
- to define mechanisms for handling undeliverable messages within a management domain;
- to enable additional functionality within a management domain, including transfer of structured documents (ODA);
- to allow a choice of lower level mappings within a management domain;
- to enable the above functions to be supported between two MIDA domains by direct connection;
- to enable the above functions to be supported as far as possible, between two MIDA domains connected via one or more administration domains;

-to enable the free and open inter connection of MIDA systems without the need for bilateral agreements.