

# **ECMA-72, Transport Protocol**

## **SCOPE**

This Standard relates to the Transport layer entities of Open Systems conforming to the ISO Reference Model for Open Systems Interconnection. It provides:

- A definition of the set of Abstract Service Primitives through which the Services of the Transport Layer are made visible to higher layer entities.
- A specification of the protocol to be implemented by the end system peer transport entities comprising the Transport Layer and existing to provide the Transport Service.

The provisions of the Transport Layer Protocol are prescribed by both the definition of the Transport Service as given in this document and by the definitions of the various Network Services existing to provide interconnection of end systems.

Two classes of Transport Service have been identified, Connection oriented and Transaction oriented. This edition of the Standard addresses only the requirements for Connection oriented Transport Services based on the assumption that the underlying Network Service is either connection oriented or of the datagram type.

To meet the requirement for a reliable connection oriented service over a datagram network requires the definition of a sophisticated and robust Error Detection and Recovery Transport Protocol. It is intended that this should be met by the Class 4 protocol to be included in a future edition.

It has been recognized that the proposed Class 4 protocol is not restricted to use over datagram networks. It could also serve over unreliable connection oriented networks subject to a high incidence of

unreported errors. However, in such a case not all the provisions of the proposed Class 4 may be needed. The possibility of a reduced Class 4 is therefore also envisaged.