

# **ECMA-127, 2<sup>nd</sup> edition, Remote Procedure Call using OSI (RPC)**

## **SCOPE**

The subject of this Standard ECMA-127 is Remote Procedure Call (RPC) for distributed applications, using the OSI standards ISO 8649, ISO 8650 (ACSE), ISO 8824, ISO 8825 (ASN.1), and ISO/IEC 9072 (ROSE).

This standard:

- (a) defines the model of computation that is supported (see 6);
- (b) defines an Interface Definition Notation (see 7);
- (c) defines the RPC Service (see 8);
- (d) defines the RPC Protocol (see 9);
- (e) provides tutorial explanation and guidance (see Appendices).

This standard:

- (f) is restricted to an interaction structure which is common to the procedure call constructs and data types of ISO programming languages;
- (g) does not address the implementation of the RPC Service Provider using a connectionless transport and/or unreliable communication services.
- (h) is restricted to those matters which relate to the use of existing OSI standards;
- (i) does not include the architectural structure of support environments for RPC, or RPC programming language interfaces, and language bindings;
- U) does not address security issues.

More comprehensive RPC standardization is left for future study in the context of the Reference Model of Open Distributed Processing

currently under development in ISO/IEC JTC1/SC21 WG7 (see ECMA TR/49). This standard is intended as a first step by enabling existing OSI standards to be used for the interconnection of applications written in higher level programming languages.