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**DATA NETWORKS AND OPEN SYSTEM
COMMUNICATIONS – OPEN SYSTEMS
INTERCONNECTION – CONFORMANCE TESTING**

**OSI CONFORMANCE TESTING
METHODOLOGY AND FRAMEWORK
FOR PROTOCOL RECOMMENDATIONS
FOR ITU-T APPLICATIONS – PROTOCOL
PROFILE TEST SPECIFICATION**

ITU-T Recommendation X.295

(Previously “CCITT Recommendation”)

FOREWORD

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The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

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NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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DATA NETWORKS AND OPEN SYSTEM COMMUNICATIONS

(February 1994)

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SUMMARY

This Recommendation provides OSI protocol profile testing methodology based on the protocol testing methodology specified in Recommendation X.291. This Recommendation describes the meaning of conformance to a profile, the method of expressing profile conformance requirements, and profile testing principles which are based on the methodology defined for the base protocol specifications. The text was developed jointly with ISO/IEC JTC1.

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INTRODUCTION

This Recommendation provides OSI protocol profile testing methodology based on the protocol testing methodology specified in Recommendation X.291.

Recommendation X.290 defines terminology and introduces general concepts for both protocol and profile testing. Recommendation X.293 places requirements on test realization and Recommendation X.294 places requirements on the conformance assessment process, both of which are applicable to profile testing. Recommendation X.296 describes how profile requirements are documented in Implementation Conformance Statements (ICSs) and profile Requirements Lists (RLs).

A profile specification is a document containing one or more profiles. An International Standardized Profile (ISP) is an example of a standardized profile specification.

A profile is defined as the selection of one or more base specifications and the identification of the chosen classes, common subsets, options and parameters of those base specifications necessary for accomplishing a particular function. Profiles are defined to facilitate interworking between systems implementing the same profile.

A profile implementation is tested for conformance to the relevant profile specification in order to give confidence that interworking can be achieved, and to verify that the implementation conforms to the profile specification.

The meaning of conformance to a profile and the method of expressing profile conformance requirements are described in clause 6.

Profile testing principles, based on the methodology defined for the base protocol specifications, are described in clause 7.

The Profile Test Specification (PTS) is the complete set of documents needed to specify conformance testing for a profile. The PTS is based on the Abstract Test Suite (ATS) specifications of the protocols referenced by the profile. The PTS is described in clause 7.

The PTS-Summary provides, in a single document, references to all the elements of the PTS. The PTS-Summary is described in clause 8 and a template for a PTS-Summary is described in Annex A.

The Profile Specific Test Specification (PSTS) contains any changes to the ATS specifications relevant to the base specifications and the additional test cases required for the profile testing. The PSTS is described in clause 9.

This Recommendation is also published as ISO/IEC 9646-6:1994.

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