

Methods for Testing and Specification (MTS); Guidelines for the use of formal SDL as a descriptive tool



Reference

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Foreword

This ETSI Guide (EG) has been produced by ETSI Technical Committee Methods for Testing and Specification (MTS).

1 Scope

The present document establishes a set of guidelines for the formal use of Specification and Description Language (SDL) for descriptive, rather than detailed design, purposes. It also provides some guidance on the use of Message Sequence Charts (MSC), Abstract Syntax Notation 1 (ASN.1) and the Unified Modeling Language (UML) when used in conjunction with SDL. The objective of the guidelines is to provide assistance to rapporteurs of protocol standards so that the SDL that appears in ETSI deliverables is formally expressed, easy to read and understand and at a level of detail consistent with other standards. The present document applies to all standards that make use of SDL to specify protocols, services or any other type of behaviour.

Users of the present document are assumed to have a working knowledge of SDL and, where necessary, MSC, ASN.1 and UML. It should not be considered to be a tutorial in any of these notations and should be read in conjunction with EG 201 383 [1], EG 201 015 [2] and EG 201 872 [3].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ETSI EG 201 383 (V1.1.1): "Methods for Testing and Specification (MTS); Use of SDL in ETSI deliverables; Guidelines for facilitating validation and the development of conformance tests".
- [2] ETSI EG 201 015 (V1.2.1): "Methods for Testing and Specification (MTS); Specification of protocols and services; Validation methodology for standards using Specification and Description Language (SDL); Handbook".
- [3] ETSI EG 201 872 (V1.2.1): "Methods for Testing and Specification (MTS); Methodological approach to the use of object-orientation in the standards making process".
- [4] ITU-T Recommendation Z.100: "Specification and Description Language (SDL)".
- [5] ITU-T Recommendation Z.105: "SDL combined with ASN.1 modules (SDL/ASN.1)".
- [6] Void.
- [7] ITU-T Recommendation Z.120 Corrigendum 1: "Messages sequence chart (MSC)".
- [8] ITU-T Recommendation X.680: "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
- [9] ITU-T Recommendation X.681: "Information technology - Abstract Syntax Notation One (ASN.1): Information object specification".
- [10] ITU-T Recommendation X.682: "Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification".
- [11] ITU-T Recommendation X.683: "Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications".