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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | SG17-TD2199 |
| **STUDY GROUP 17** |
| **Original: English** |
| **Question(s):** | All, 12/17 | Geneva, 27 August - 5 September 2019 |
| **TD** |
| **Source:** | TSB |
| **Title:** | Status of Z-series Recommendations (revised 14 May 2019) |
| **Purpose:** | Information |
| **Contact:** | TSB | E-mail: tsbsg17@itu.int  |

Status of Z-series Recommendations

(Revised 14 May 2019)

These tables give the status of the work program for the ITU-T Z-series Recommendations. These tables provide a listing of Z-series Recommendations (approved and draft texts) including for each:

– Recommendation number

– Full title of Recommendation

– Approval year for current edition and, if not published, the location of the text

– An indication whether the current edition is common text (C) with ISO/IEC or twin (T) with ISO/IEC or other SDO or is not collaborative (I)

– Name of the editor

– Location of the latest text for on-going work

– Number of the equivalent standard, if there is one

– Target date (date of Study Group or Working Party "*consent*" or “*determination*” meeting) for on-going work

– An indication whether the on-going work is intended to be common text (C) with ISO/IEC or twin (T) with ISO/IEC or other SDO or is not collaborative (I)

AAP denotes Last Call or Additional Review text

nn? denotes a Question number (not confirmed)

LATEST TEXT\* denotes series of Recommendations subject to Implementers' Guide

FORMAL DESCRIPTION TECHNIQUES (FDT)

Specification and Description Language (SDL)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT\* | TEXT | DATE |
| **Z.100** | Specification and description language - Overview of SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1801](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1801/en) | None | New edition2019-09 | I |
| **Z.100Annex F1** | SDL 2010 formal definition: General overview | 2018 | I | 17 | 12 | Edel Sherratt | SG17-[TD1809](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1809/en) | None | New edition2019-09 | I |
| **Z.100Annex F2** | SDL-2010 formal definition: Static semantics | 2018 | I | 17 | 12 | Edel Sherratt | SG17-[TD1810](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1810/en) | None | New edition2019-09 | I |
| **Z.100Annex F3** | SDL-2010 formal definition: Dynamic semantics | 2018 | I | 17 | 12 | Edel Sherratt | SG17-[TD1811](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1811/en) | None | New edition2019-09 | I |
| **Z.101** | Specification and description language - Basic SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1802](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1802/en) | None | New edition2019-09 | I |
| **Z.102** | Specification and description language - Comprehensive SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1803](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1803/en) | None | New edition2019-09 | I |
| **Z.103** | Specification and description language - Shorthand notation and annotation in SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1804](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1804/en) | None | New edition2019-09 | I |
| **Z.104** | Specification and description language - Data and action language in SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1805](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1805/en) | None | New edition2019-09 | I |
| **Z.105** | Specification and description language - SDL-2010 combined with ASN-1 modules | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1806](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1806/en) | None | New edition2019-09 | I |
| **Z.106** | Specification and description language - Common interchange format for SDL-2010 | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1807](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1807/en) | None | New edition2019-09 | I |
| **Z.107** | Specification and description language - Object-oriented data in SDL-2010(Formerly withdrawn Z.107 was *SDL with embedded ASN.1*) | 2016 | I | 17 | 12 | Rick Reed | SG17-[TD1808](https://www.itu.int/md/T17-SG17-190122-TD-PLEN-1808/en) | None | New edition2019-09 | I |
| **Z.109** | Specification and description language - Unified modeling language profile for SDL-2010 | 2016 | I | 17 | 12 | Alexander Kraas |  | None |  |  |

Application of Formal Description Techniques

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| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.110** | Criteria for use of formal description techniques by ITU-T | 2008 | I | 17 | 12 | Ostap Monkewich |  | None |  |  |
| **Z.111** | Notations and guidelines for the definition of ITU-T languages | 2016 | I | 17 | 12 | Rick Reed |  | None |  |  |
| **Z.119** | Guidelines for UML profile design | 2007 | I | 17 | 12 | Thomas Weigert |  | None |  |  |

Message Sequence Chart (MSC)

|  |  |  |  |  |  |  |  |
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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.120** | Message sequence chart (MSC) | 2011 | I | 17 | 12 | Loic Helouet |  | None |  |  |
| **Z.120Annex B** | Formal semantics of message sequence charts | 1998 | I | 17 | 12 |  |  | None |  |  |
| **Z.121** | Specification and Description Language (SDL) data binding to Message Sequence Charts (MSC) | 2003 | I | 17 | 12 | Michael Andersson |   | None |  |  |

See note at end of the tables.

User Requirements Notation (URN)

| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.150** | User requirements notation (URN) – Language requirements and framework | 2011 | I | 17 | 12 | Daniel Amyot |  | None |  |  |
| **Z.151** | User requirements notation (URN) – Language definition | 2018 | I | 17 | 12 | Gunter Mussbacher |  | None |  |  |

Testing and Test Control Notation (TTCN)

| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.161** | Testing and Test Control Notation version 3: TTCN-3 core language | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-1 | New edition2019-09 | T |
| **Z.161.1** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Support of interfaces with continuous signals | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 786 |  |  |
| **Z.161.2** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Configuration and deployment support | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 781 | New edition2019-09 | T |
| **Z.161.3** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Advanced parameterization | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 784 |  |  |
| **Z.161.4** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Behaviour types | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 785 |  |  |
| **Z.161.5** | Testing and Test Control Notation version 3: TTCN-3 Language extensions: Performance and real time testing | 2015 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 782 |  |  |
| **Z.161.6** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Advanced matching | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 203 022 | New edition2019-09 | T |
| **Z.162** | Testing and Test Control Notation version 3: TTCN-3 tabular presentation format (TFT) | 2007 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-2 |  |  |
| **Z.163** | Testing and Test Control Notation version 3: TTCN-3 graphical presentation format (GFT) | 2007 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-3 |  |  |
| **Z.164** | Testing and Test Control Notation version 3: TTCN-3 operational semantics | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-4 |  |  |
| **Z.165** | Testing and Test Control Notation version 3: TTCN-3 runtime interface (TRI) | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-5 |  |  |
| **Z.165.1** | Testing and Test Control Notation version 3: TTCN-3 language extensions: Extended TRI | 2015 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 202 789 |  |  |
| **Z.166** | Testing and Test Control Notation version 3: TTCN-3 control interface (TCI) | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-6 | New edition2019-09 | T |
| **Z.167** | Testing and Test Control Notation version 3: Using ASN.1 with TTCN-3 | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-7 |  |  |
| **Z.168** | Testing and Test Control Notation version 3: The IDL to TTCN-3 mapping | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-8 |  |  |
| **Z.169** | Testing and Test Control Notation version 3: Using XML schema with TTCN-3 | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-9 | New edition2019-09 | T |
| **Z.170** | Testing and Test Control Notation version 3: TTCN-3 documentation comment specification | 2017 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-10 |  |  |
| **Z.171** | Testing and Test Control Notation version 3: Using JSON with TTCN-3 | 2018 | T | 17 | 12 | Dieter Hogrefe |  | ETSI ES 201 873-11 |  |  |

PROGRAMMING LANGUAGES

CHILL: The ITU-T high level language

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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.200** | CHILL - The ITU-T Programming Language | 1999 | C | 17 | 12 |  |  | ISO/IEC 9496 |  |  |

MAN-MACHINE LANGUAGE

General principles

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.301** | Introduction to the CCITT man-machine language | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.302** | The meta-language for describing MML syntax and dialogue procedures | 1988 | I | 2 | 8? |  |  | None |  |  |

Basic syntax and dialogue procedures

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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.311** | Introduction to syntax and dialogue procedures | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.312** | Basic format layout | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.314** | The character set and basic elements | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.315** | Input (command) language syntax specification | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.316** | Output language syntax specification | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.317** | Man-machine dialogue procedures | 1988 | I | 2 | 8? |  |  | None |  |  |

Extended MML for visual display terminals

| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.321** | Introduction to the extended MML for visual display terminals | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.322** | Capabilities of visual display terminals | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.323/E.333** | Man-machine interaction | 1988 | I | 2 | 8? |  |  | None |  |  |

Specification of the man-machine interface

| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.331** | Introduction to the specification of the man-machine interface | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.332** | Methodology for the specification of the man-machine interface - General working procedure | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.333** | Methodology for the specification of the man-machine interface - Tools and methods | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.334** | Subscriber administration | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.335** | Routing administration | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.336** | Traffic measurement administration | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.337** | Network management administration | 1988 | I | 2 | 8? |  |  | None |  |  |
| **Z.341** | Glossary of terms | 1988 | I | 2 | 8? |  |  | None |  |  |

Data-oriented human-machine interfaces

|  |  |  |  |  |  |  |  |
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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.351** | Data oriented human-machine interface specification technique - Introduction | 1993 | I | 2 | 8? |  |  | None |  |  |
| **Z.352** | Data oriented human-machine interface specification technique - Scope, approach and reference model | 1993 | I | 2 | 8? |  |  | None |  |  |

Human-machine interfaces for the management of telecommunications networks

|  |  |  |  |  |  |  |  |
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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.360** | Graphic GDMO: A graphic notation for the Guidelines for the Definition of Managed Objects | 1997 | I | 2 | 8? |  |  | None |  |  |
| **Z.361** | Design guidelines for Human-Computer Interfaces (HCI) for the management of telecommunications networks | 1999 | I | 2 | 8? |  |  | None |  |  |
| **Z.371** | Graphic information for telecommunication management objects | 2005 | I | 2 | 8? |  |  | None |  |  |
| **Z.372** | Templates for telecommunications human-machine interfaces | 2005 | I | 2 | 8? |  |  | None |  |  |

QUALITY

Quality of telecommunication software

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.400** | Structure and format of quality manuals for telecommunications software | Withdrawn |  |  |  |  |  |  |  |  |

Quality aspects of protocol-related Recommendations

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| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.450** | Quality aspects of protocol-related Recommendations | 2008 | I | 17 | 12 | Ostap Monkewich |  | None |  |  |

METHODS

Methods for validation and testing

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.500** | Framework on formal methods in conformance testing | 1997 | I | 11 | 11 | Dieter Hogrefe |  | None |  |  |

MIDDLEWARE

Processing Environment Architectures

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.600** | Distributed processing environment architecture | Withdrawn |  |  |  |  |  |  |  |  |
| **Z.601** | Data architecture of one software system | Withdrawn |  |  |  |  |  |  |  |  |

**SUPPLEMENTS TO THE Z-SERIES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z Suppl.1** | Supplement 1 to ITU-T Z.100-series – Supplement on SDL+ methodology: Use of ITU System Design Languages | 2015 | I | 17 | 12 | Rick Reed |  | None |  |  |

**Z-SERIES IMPLEMENTERS' GUIDES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| Z.Imp100 | Specification and Description Language implementer's guide – Version 3.0.1 | 2018 | I | 17 | 12 | Rick Reed | SG17-[TD1813](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG17-190122-TD-PLEN-1813) | None | New edition2019-09 | I |

Note: The following sub-division and associated Recommendations were withdrawn in July 2008

Extended Object Definition Language (eODL)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RECOMMENDATION | CURRENT | SG | Q | EDITOR | LATEST | EQUIVALENT | TARGET |
| No. | TITLE | PUBLICATION | TEXT | TEXT | DATE |
| **Z.130** | ITU object definition language | Withdrawn |  |  |  |  |  |  |  |  |
| **Z.130Amd.1** | New Annex E: ODL to CIDL mapping | Withdrawn |  |  |  |  |  |  |  |  |

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