



ISO/IEC JTC1/SC22
Languages
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ISO/IEC JTC1/SC22

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For information to SC22 Member Bodies.

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ISO/IEC JTC1/SC22

PROJECT INFORMATION

1. Designation and Title of Subcommittee

SC22, Languages

Area of Work:

1. Standardization of Languages in the field of information processing systems and applications excluding specialized languages that have been explicitly assigned to the program of work of another Sub-Committee or Technical Committee.
2. In the area of information processing, standardization of cross-language facilities.

2. Secretariat

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3. Interim Chairman

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4. Working Groups

WG2: Pascal

Secretariat: BSI

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WG3: APL

Secretariat: SCC

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WG4: COBOL

Secretariat: ANSI

Convenor: Wallace, A. (Int.)
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WG5: **FORTTRAN**
Secretariat ANSI
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WG8: **BASIC**
Secretariat ANSI
Convenor: Kurtz, T
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WG9: **Ada**
Secretariat: ANSI
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WG11: Binding Techniques for Languages

Secretariat: ANSI

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WG13: Modula 2

Secretariat: BSI

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WG14: C

Secretariat: ANSI

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WG15: **POSIX**
Secretariat: **ANSI**
Convenor: Isaak J.
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WG16: **Lisp**
Secretariat: **AFNOR**

Convenor: Queinnec C.
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WG17: **Prolog**
Secretariat: **BSI**

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WG18: Forms Interface Management System(FIMS)

Secretariat: ANSI

**Convenor: Frantz D.
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WG19: Vienna Development Method- Syntactic Language

Secretariat: BSI

**Convenor: Mr. D. Andrews
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Project Editors:

**Dr. J. Klensin - projects 97.22.05, 97.22.06 (PL/I)
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**Mr. B. Meek - project 97.22.13 (Guidelines for the
Preparation of Programming Language Standards)
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5. Projects

Note: For project stage definition, please refer to the list attached as Annex 1.

Work Item 22.01.01 - Review of Programming Language COBOL (ISO 1989-1978)

Stage	Target Date	Actual Date
03.01		85-01-10
03.02		85-07-11
03.05		85-08
03.06	85-11	85-10-11
04.00	85-11	85-11-27
05.00	86-05	85-12

Working Group: 4

Secretariat: ANSI

Convenor:

Current Reference Documents:

Current ISO/CS Registered Document: ISO 1989-1985

Work Item 22.01.03 - Language Extensions for COBOL - ISO 1989 Addendum 1 - Intrinsic Functions

Stage	Target Date	Actual Date
00.03		85-01-15
00.04		85-03-22
01.00		85-04-12
02.01	87-06	87-08-20
02.02	87-06-19	87-11-27
02.03		88-04-15
02.04	88-07-22	88-07-22
04.00	90-08	90-06-27
05.00	90-11	

Working Group: 4

Secretariat: ANSI

Convenor: A. Wallace

Current Reference Documents: N782

Current ISO/CS Registered Document: ISO 1989:1985 DAD 1

Work Item 22.01.04 -Correction Addendum to ISO 1989-1985
Cobol

Stage	Target Date	Actual Date
01.01		87-09
01.02	89-01	
01.04	90-04-15	90-05-15
02.00	91-01-15	
02.07	91-07-15	
03.00	91-08-31	
03.01	91-10-15	
03.05	92-05-15	
03.06	92-06-15	
04.00	92-07-31	

Working Group: 4

Secretariat: ANSI

Convenor: A. Wallace

Current Reference Documents: N772

Current ISO/CS registered Document:

Work Item 22.01.05 -Cobol Addendum: Cobol Interface to
FIMS

Stage	Target Date	Actual Date
01.01		87-09
01.02	89-01	

Working Group: 4

Secretariat: ANSI

Convenor: A. Wallace

Current Reference Documents:

Current ISO/CS registered Document:

Work Item 22.01.06 -Cobol Addendum: MOCS support in Cobol

Stage	Target Date	Actual Date
01.01		87-09
01.02	89-01	

Working Group: 4

Secretariat: ANSI

Convenor: A. Wallace

Current Reference Documents:

Current ISO/CS registered Document:

Work Item 22.01.07 - Revision of ISO 1989:1985 Cobol

Stage	Target Date	Actual Date
01.01		
01.02		

Working Group: 4

Secretariat: ANSI

Convenor: A. Wallace

Current Reference Documents:

Current ISO/CS registered Document:

**Work Item 22.02.01 - Programming Language FORTRAN
(Revision of ISO 1539-1980)**

Stage	Target Date	Actual Date
01.01	78-01	
01.02	86-05	78-01
01-03	86-08	86-05
01-04	86-12	86-05
01-05	87-03	
02.00	87-04	88-10-01
02.01	87-04	87-10-15
02.02	87-07	88-01-29
02.08	88-09-15	

03.00	89-03
03.01	90-07
03.02	90-12
04.00	91-02
05.00	91-06

Working Group: 5

Secretariat: ANSI

Convenor: J. Martin

Current Reference Documents: N692

Current ISO/CS Registered Document: ISO DP1539

Work Item 22.02.02 - Addendum to Fortran ISO 1539 on
Variable Length Character String Module

Stage	Target Date	Actual Date
01.00		88-09
01.02		89-07
01.03	91-01	
01.04	91-04	
01.05	91-07	
02.00	91-09	
03.00		
04.00		
05.00		

Working Group: 5

Secretariat: ANSI

Convenor: J. Martin

Current Reference Documents: N680, N723

Current ISO/CS Registered Document:

Work Item 22.05 - Programming Language - PL/I (Revision of ISO 6160-1979)

Stage	Target Date	Actual Date
05.01	87-01-19	
05.02	87-05-01	
05.03		87-06-01

Project Editor: J. Klensin

Current Reference Documents: N291,N328

Current ISO/CS Registered Document: ISO 6160-1979

Work Item 22.06 - Programming Languages - PL/I -General Purpose Subset (Revision of ISO 6522-1985)

Stage	Target Date	Actual Date
01.04	87-01-19	87-01-16
01.05	87-05-01	87-05-01
02.00	87-07-01	87-09-15
02.01	87-08-01	87-11-20
02.02	87-11-15	88-02-26
03.00	88-02-15	88-11
03.01	89-05-01	
03.02	89-12-01	
04.00	90-02-15	
05.00	90-04-15	

Project Editor: J. Klensin

Current Reference Documents: N432

Current ISO/CS Registered Document: ISO DP6522

Work Item 22.07 - Programming Language - Minimal BASIC

Stage	Target Date	Actual Date
05.00		84-03-15

Working Group: 8

Secretariat: ANSI

Convenor: T. Kurtz

Current Reference Documents:

Current ISO/CS Registered Document: ISO 6373-1984

Work Item 22.10 - Programming Language - Ada

Stage	Target Date	Actual Date
02.01		85-01-15
02.02		85-04-15
02.07		85-04-29
02.08		85-05-28
03.00		85-08-30
03.01	85-10	86-01-23
03.02	86-09-23	86-09-23
03.05	86-10-30	86-10-01
03.06	86-12-01	86-12-12
04.00	87-05-01	86-12-12
05.00	87-07-01	87-06-15

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Documents: N238

Current ISO/CS Registered Document: ISO 8652

Work Item 22.10.02 - Ada Numeric Packages (Development of a TR)

Stage	Target Date	Actual Date
01.00		85-01-15
02.00	90-09	
03.00	91-02	
04.00	91-10-01	
05.00	91-12-15	

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Documents: N752

Current ISO/CS Registered Document:

Work Item 22.11 - Programming Language - BASIC

Stage	Target Date	Actual Date
02.00	87-10	88-11-15
02.01		89-01-12
02.02	89-04-20	
03.00	89-09-01	
04.00	91-01-01	90-06-01
05.00	91-06-01	

Working Group: 8

Secretariat: ANSI

Convenor: T. Kurtz

Current Reference Documents: N698

Current ISO/CS Registered Document: ISO DIS 10279

**Work Item 22.13 - Guidelines for the Preparation of
Programming Language Standards**

Stage	Target Date	Actual Date
00.05		
00.06		84-02-13
01.00		84-05-07
01.04		86-12-19
01.05	87-04-03	87-04-03
06.00		88-03-18
06.01	88-06-29	88-06-29
06.03		89-07-27
06.04	89-11-30	
06.09	90-06-01	

Current Reference Documents: N780

Current ISO/CS Registered Document: DTR 10176

Work Item 22.14 - Binding Techniques for Programming Languages

Stage	Target Date	Actual Date
00.05		84-02-13
00.06		84-05-07
01.00		84-08
01.02	86-05-15	86-11-01
01.03	87-01-30	87-01-30
06.00	88-09-01	
06.01		90-05-05
06.09	91-12	

Working Group: 11

Secretariat: ANSI

Convenor: W. Wakker

Current Reference Documents: N791

Current ISO/CS Registered Document: PDTR 10182

Work Item 22.15.01 - Conformity Requirements and Testing: Guidelines for the preparation of conformity clauses in programming language standards.

Stage	Target Date	Actual Date
00.05		85-04-10
00.06		85-07-31
01.00	85-08	85-08-19
01.01	86-06	86-01
01.04	87-05	87-05-22
01.05	87-08-28	
06.00	87-12	87-10-07
06.01	87-12	88-01-22
06.03	88-05	88-07-01
06.09	89-09	

Working Group: 12

Secretariat: AFNOR

Convenor: J. Sidi

Current Reference Documents: N624

Current ISO/CS Registered Document: TR 10034

Work Item 22.15.02 - Test methods for programming language processors: Guidelines for their development and their acceptability.

Stage	Target Date	Actual Date
00.05		85-04-10
00.06		85-07-31
01.00	85-08	85-08-19
01.04	86-12-19	86-12-19
01.05	87-04-03	87-04-03
06.02	87-05-26	87-05-26
06.03	87-05-28	87-06-04
06.04	87-08-28	87-09-04
06.09	88-01-15	88-04-01

Working Group: 12

Secretariat: AFNOR

Convenor: J. Sidi

Current Reference Documents: N333

Current ISO/CS Registered Document: TR 9547

Work Item 22.16 - Specification for a Model for Common Language-Independent, Procedure Calling Mechanisms

Stage	Target Date	Actual Date
00.03		85-04-30
00.04		85-07-01
00.05	85-09-15	85-10-17
00.06	85-11-15	86-01-20
01.00	86-03-01	86-03
01.04	91-02-01	
01.05	91-06-01	

Working Group: 11

Secretariat: ANSI

Convenor: W. Wakker

Current Reference Documents: N058, N211, 97 N1572

Current ISO/CS Registered Documents:

**Work Item 22.17 - Specification for a Set of Common
Language-Independent Data Types**

Stage	Target Date	Actual Date
00.03		85-04-30
00.04		85-07-01
00.05	85-09-15	85-10-17
00.06	85-11-15	86-01-30
01.00	86-03-01	86-03
01.04	90-09-01	
01.05	90-12-01	

Working Group: 11

Secretariat: ANSI

Convenor: W. Wakker

Current Reference Documents: NO58, N212, 97 N1573

Current ISO/CS Registered Document:

**Work Item 22.18 - Specification for Computer Programming
Language - Modula 2**

Stage	Target Date	Actual Date
00.03		1985-07-15
00.04		1985-10-15
00.05		1986-01-07
00.06	86-04-18	1986-04-18
01.00	86-06-01	1986-04-23
01.02		1989-08-23
01.05		1989-09-29
02.00		1989-10-26
02.01		1989-11-23
02.02	90-03-02	1990-04-02
02.03	90-11-08	
02.04	91-02-22	
03.00	91-04-22	
04.00	92-02-01	
05.00	92-06-01	

Working Group: 13

Secretariat: BSI

Convenor: R. Henry

Current Reference Documents: N773

Current ISO/CS Registered Document: DP10514

Work Item 22.19 - Programming Language - Extended Pascal

Stage	Target Date	Actual Date
00.03		85-08-16
00.04	85-10-18	85-10-18
00.05	85-11-15	86-01-07
00.06	86-01-15	86-04-18
01.00	86-06-01	86-04-23
01.04	86-12-30	86-11-06
01.05	87-03-30	87-02-13
02.00	88-03-01	88-09-12
02.01		88-09-16
02.02		88-12-30
03.00	89-02-01	89-10-24
03.01		89-12-21
03.02		90-06-21
04.00	90-10-01	
05.00	91-02-01	

Working Group: 2

Convenor: D.A. Joslin

Current Reference Documents: N728

Current ISO/CS Registered Document: DIS 10206

Work Item 22.20.01 - Specification for the Programming Language C

Stage	Target Date	Actual Date
00.05		86-01-17
00.06	86-04-18	86-04-18
01.00	86-06-01	86-04-23
01.02	86-10-15	86-10-15
01.05	87-02-13	87-02-13
02.00	87-03-01	87-08
02.01	87-03-30	87-10-07
02.02	87-06-30	88-01-22
02.03		89-03-03
02.04	89-06-30	
03.00	89-12-01	
04.00	90-07-15	
05.00	90-09-15	

Working Group: 14

Secretariat: ANSI

Convenor: P.J. Plauger

Current Reference Documents: N619

Current ISO/CS Registered Document: ISO DIS 9899

Work Item 22.20.02 - Normative Addendum on C Integrity

Stage	Target Date	Actual Date
01.00		89-09
02.00	90-09	
03.00	91-06-01	
04.00	91-10-15	
05.00	92-03-15	

Working Group: 14

Secretariat: ANSI

Convenor: P.J. Plauger

Current Reference Documents: N729 (Resolution 129)

Current ISO/CS Registered Document:

**Work Item 22.21.01.01: Portable Operating System Interface
for Computer Environments - POSIX**

Stage	Target Date	Actual Date
01.00		87-04
01.02		87-07
02.01		87-11-13
02.02		88-02-26
03.01		89-03-02
03.02	89-09-02	89-09-02
03.04	90-06-29	
04.00	90-08-15	
05.00	90-10-15	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N7864

Current ISO/CS Registered Document: ISO DIS 9945-1

**Work Item 22.21.01.02: Addendum to ISO 9945-1 on System
Interface Real Time & Extensions**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1991	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.01.03.01: Addendum to ISO 9945-1 on
Distribution Services- Transparent File Access**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1992	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.01.03.02: Addendum to ISO 9945-1 on
Distribution Services- Remote Procedure Call**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1991	
03.00	1992	
04.00	1993	
05.00	1993	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.01.03.03: Addendum to ISO 9945-1 on
Distribution Services- Protocol Independent Interface**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1993	
03.00	1993	
04.00	1994	
05.00	1994	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.01.03.04: Addendum to ISO 9945-1 on
Distribution Services- Name Space & Directory Service**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1991	
03.00	1992	
04.00	1993	
05.00	1993	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.02.01: POSIX Shell & Utilities - Shell and
Utility Applications for Computer Environments**

Stage	Target Date	Actual Date
01.00		89-09
02.00		89-10
03.00	1990	
04.00	1991	
05.00	1991	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N768

Current ISO/CS Registered Document: ISO 9945-2

**Work Item 22.21.02.02: POSIX Shell & Utilities - User
Portability Extensions**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1991	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N795

Current ISO/CS Registered Document:

**Work Item 22.21.03.01: POSIX System Administration -
System Administration**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1992	
03.00	1993	
04.00	1993	
05.00	1994	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.03.02: POSIX System Administration -
Batch Services**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1992	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.21.04.01: POSIX/Language Bindings -
C Language**

Stage	Target Date	Actual Date
01.00		89-09
02.00	1991	
03.00	1992	
04.00	1993	
05.00	1993	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

Work Item 22.21.04.02: POSIX/Language Bindings -
Ada Language

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1991	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

Work Item 22.21.04.03: POSIX/Language Bindings -
Fortran Language

Stage	Target Date	Actual Date
01.00		89-09
02.00	1990	
03.00	1991	
04.00	1991	
05.00	1992	

Working Group: 15

Secretariat: ANSI

Convenor: J. Isaak

Current Reference Documents: N729 (resolution 136)

Current ISO/CS Registered Document:

**Work Item 22.22: Specification for the Computer
Programming Language - Prolog**

Stage	Target Date	Actual Date
01.00		87-09

Working Group: 17

Secretariat: BSI

Convenor: R. Scowen

Current Reference Documents: SC22/WG17 N53, N40

Current ISO/CS Registered Document:

**Work Item 22.23: Specification for the Computer
Programming Language - Lisp**

Stage	Target Date	Actual Date
01.00		87-09

Working Group: 16

Secretariat: AFNOR

Convenor: C. Queinnec

Current Reference Document:

Current ISO/CS Registered Document:

**Work Item 22.24.01: Specification for the Computer
Programming Language - Extended APL**

Stage	Target Date	Actual Date
01.00		87-09

Working Group: 3

Secretariat: SCC

Convenor: L. Dickey

Current Reference Document:

Current ISO/CS Registered Document:

**Work Item 22.24.02: Further Extensions to the Computer
Programming Language - Extended APL**

Stage	Target Date	Actual Date
01.00		89-09

Working Group: 3

Secretariat: SCC

Convenor: L. Dickey

Current Reference Document: N729 (Resolution 126)

Current ISO/CS Registered Document:

Work Item 22.25: Addressing Comments on the Ada Standard

Stage	Target Date	Actual Date
00.05	88-02-15	
01.00		88-06-28

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Document: N546

Work Item 22.26: Uniformity of Ada Implementation

Stage	Target Date	Actual Date
00.05	88-02-15	
01.00		88-06-29

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Document: N547

Work Item 22.29: Vienna Development Method Syntactic Language

Stage	Target Date	Actual Date
00.03		87-11-30
00.04		88-03-11
00.05		88-06-17
00.06	88-10-07	
00.05	89-04	
00.06	89-09	

Working Group: 19

Secretariat: BSI

Convenor: D. Andrews

Current Reference Document: N783

Work Item 22.30: Functionality for Internationalization of Application

Stage	Target Date	Actual Date
01.00		90-05-15

Working Group:

Secretariat:

Convenor:

Current Reference Document: N783

Work Item 22.31: Ada/SQL Language Interface

Stage	Target Date	Actual Date
00.05	88-02-15	
01.00		88-06-29

Working Group: 9

Secretariat: ANSI

Convenor: R. Mathis

Current Reference Document: N548

Current Reference Document: N636

Work Item 22.XX: Programming Language C ++

Stage	Target Date	Actual Date
00.05	89-09-30	
01.00	90-03	

Current Reference Document: N639

SCHEDULE OF SC22 MEETINGS

WG2 - Pascal	90-09-10/14	Nashua, NH USA
	91-03-11/15	Teeside, UK
	91-09	Mount Pleasant, MI USA
WG3 - APL	90-08-20/24	Copenhagen, Denmark
WG4 - Cobol	90-10-13/19	Berlin, Germany FR
WG5 - Fortran	90-08-13/17	Rotterdam, Netherlands
	1991	Sweden
	1992	Victoria, BC Canada
WG13 - Modula 2	91-06	Tubingen, Germany FR
WG15 - POSIX	91-10-23/26	East Sound, WA USA
WG17 - Prolog	1991	Paris, France
SC22 AG	90-10-10/12	London, UK
SC22 Ad Hoc	90-10-08/09	London, UK
SC22 Plenary	91-09-	Vienna, Austria
(tentative)	92 or 93	Denmark
"	92 or 93	France
"	1994	The Netherlands
"	1995	UK or USA



PROJECT STAGES

00.01	Potential work item document review initiated	03.04	Second DIS ballot closes
00.02	Potential work item document review closes	03.05	DIS voting results sent to TC SEC by ISO/CS
00.03	NWI ballot initiated within SC	03.06	Revised DIS text and disposition of comments report available
00.04	NWI ballot within SC closes	04.00	Final DIS text and final report submitted to ISO/CS
00.05	NWI ballot initiated within TC	04.01	Final DIS text submitted to ISO Council for acceptance
00.06	NWI ballot within TC closes	04.02	Review of ISO Council comments on DIS initiated
00.07	NWI proposal returned to submitter for further definition	04.03	DIS accepted by ISO Council for publication
00.08	NWI proposal rejected	05.00	IS published
00.09	NWI reconsideration ballot initiated within TC	05.01	5-year review ballot initiated
00.10	NWI reconsideration ballot within TC closes	05.02	5-year review ballot closes
01.00	NWI accepted by TC and added to the programme of work	05.03	IS reaffirmed
01.01	PD consideration initiated	05.04	IS withdrawn
01.02	WD comment period initiated within SC	05.05	IS referred to committee for revision
01.03	WD comment period within SC closes	06.00	Proposed DTR ballot initiated within SC
01.04	WD ballot initiated within SC	06.01	Proposed DTR ballot within SC closes
01.05	WD ballot within SC closes	06.02	DTR registered at ISO/CS
02.00	DP registered at ISO/CS	06.03	DTR ballot initiated within TC
02.01	First DP ballot initiated	06.04	DTR ballot within TC closes
02.02	First DP ballot closes	06.05	DTR text submitted to ISO/CS
02.03	Second DP ballot initiated	06.06	DTR text submitted to ISO Council for acceptance
02.04	Second DP ballot closes	06.07	Review of ISO Council comments on DTR initiated
02.05	Third DP ballot initiated	06.08	DTR accepted by ISO Council for publication
02.06	Third DP ballot closes	06.09	TR published
02.07	DP voting summary issues	06.10	TR review ballot initiated
02.08	Revised DP text and disposition of comments report available	06.11	TR review ballot closes
02.09	DP cancelled, project review initiated	06.12	TR reaffirmed
03.00	DIS text and explanatory report submitted to ISO/CS	06.13	TR withdrawn
03.01	First DIS ballot initiated	06.14	TR referred to committee for revision
03.02	First DIS ballot closes		
03.03	Second DIS ballot initiated		

