

ISO/IEC JTC 1/SC 2
Coded character sets
Secretariat: JISC (Japan)

Document type: Secretariat Report

Title: Secretariat Report to the 19th Plenary Meeting of ISO/IEC JTC 1/SC 2, Colombo, Sri Lanka, 2014-09-30, 10-03

Status: This document is circulated to the SC 2 members for information at the 19th Plenary Meeting to be held in Colombo, Sri Lanka.

Date of document: 2014-09-08

Source: SC 2 Secretariat

Expected action: INFO

No. of pages: 8

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Committee URL: <http://isotc.iso.org/livelink/livelink/open/jtc1sc2>

**Secretariat Report to the 19th Plenary Meeting of ISO/IEC JTC 1/SC 2,
Colombo, Sri Lanka, 2014-09-30, 10-03**

Part I: Administration

1. Title

Coded Character Sets

2. Scope

Standardization of graphic character sets and their characteristics, including string ordering, associated control functions, their coded representation for information interchange and code extension techniques. Excluded: audio and picture coding.

3. Chairman and Secretariat

Chairman: Prof. Yoshiki MIKAMI (re-appointed at the 2013 JTC 1 Perros-Guirec Plenary Meeting)

Secretariat: JISC - Japan

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4. Membership

4.1. P - Members (28)

Austria (ASI); Canada (SCC); China (SAC); Egypt (EOS); Finland (SFS); France (AFNOR); Germany (DIN); Greece(ELOT); Hungary (MSZT); Iceland (IST); India (BIS); Indonesia (BSN); Ireland (NSAI); Japan (JISC); Korea, Democratic People's Republic (CSK); Korea, Republic of (KATS) ; Lithuania (LST); Mongolia (MASM); Norway (SN); Poland (PKN); Russian Federation (GOST R); Serbia (ISS) ; Sri Lanka (SLSI) ;Thailand (TISI); Tunisia (INNORPI); USA (ANSI) ; Ukraine (DSSU); United Kingdom (BSI)

*P-member NB added since the 18th plenary: none, removed: **Romania (ASRO); Sweden (SIS)***

4.2. O - Members (21)

Armenia (SARM); Belgium (NBN); Bosnia and Herzegovina (BAS); Cuba (NC); Czech Republic (UNMZ); Estonia (EVS); Ghana (GSB); Hong Kong, China (ITCHKSAR); Iran, Islamic Republic of (ISIRI); Israel (SII); Italy (UNI); Kazakhstan (KAZMEMST); Malaysia (DSM); Morocco (IMANOR); Netherlands (NEN); Romania (ASRO); Slovenia (SIST); Sweden (SIS); Switzerland (SNV); Turkey (TSE); Viet Nam (STAMEQ)

*O-member NB added since the 18th plenary: **Romania (ASRO); Sweden (SIS)**, removed: **Ethiopia (QSAE); Singapore (SPRING SG)***

4.3. L - Members

4.3.1. Internal Liaisons (7)

ISO/IEC JTC 1/SC 22	Programming languages, their environments and system software interfaces
ISO/IEC JTC 1/SC 29	Coding of Audio, Picture, Multimedia and Hypermedia Information
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages
ISO/IEC JTC 1/SC 35	User interfaces
ISO/TC 37/SC 2	Terminographical and lexicographical working methods
ISO/TC 46/SC 4	Conversion of written languages
ISO/TC 211	Geographic information/Geomatics

4.3.2. External Liaisons

Category A (3)

ISOC/IETF	Internet Society – Internet Engineering Task Force
ITU-T	International Telecommunication Union – Telecommunication Standardization Sector
UNICODE	The Unicode Consortium

Category B (6)

CCSDS	Consultative Committee for Space Data Systems
EC	Commission of European Communities
UNCTAD	United Nations Conference on Trade and Development
UNECE	United Nations Economic Commission for Europe
WIPO	World Intellectual Property Organization
WMO	World Meteorological Organization

Category C (3)

TCA	Taipei Computer Association
UC Berkeley	UC Berkeley
W3C	World Wide Web Consortium

5. Working Group Structure

5.1. OWG-SORT: Maintenance of ISO/IEC 14651

Terms of Reference:

- Incorporate the following changes in the latest edition of ISO/IEC 14651:
 - a new Common Template Table (CTT) for sorting all characters included in the third edition of ISO/IEC 10646 and its Amendments 1 and 2 (corresponding to Unicode 7.0) ;
 - corrections to the CTT to fix potential problems discovered since the latest official publication.
 - an informative annex summarizing the character string search problems (sub-product of the string comparison algorithm) that should contain a list of issues associated with implementation of collation, searching etc. and provide a pointer to UTS10 [decided at the 2012 Mountain View meeting]
- As interim results, produce:
 - a first working draft of Amendment 2 to ISO/IEC 14651:2012 synchronized with Unicode 6.2.1 (December 2012) and a second working draft, synchronized with Unicode 7.0, to be sent for PDAM 2 to ISO/IEC 14651:2012 ballot (after June 2013) meeting.

Convenor: Mr. Alain LaBonté

5.2. Working Group 2: Universal Coded Character Set

Area of Work:

To standardize the Universal Coded character Set (UCS)

Programme of Work:

- To maintain ISO/IEC 10646
- To allocate additional graphic characters
- To develop a coherent list of graphic character names
- To maintain TR 15285 on a Character/glyph model

Convenor: Mr. Mike Ksar (ending at the SC 2 Plenary meeting in 2014)

Recording Secretary: Dr. V.S. Umamaheswaran

5.2.1. Ideographic Rapporteur Group (IRG)

Terms of Reference:

Working for ideograph related tasks under WG 2, Work Item JTC1.02.18 - ISO/IEC 10646 including CJK strokes.

Rapporteur: Dr. Qin LU

6. Editors

6.1. Project Editors (On-going projects only):

02.14651	Mr. Alain LaBonté
02.10646	Mr. Michel Suignard

6.1. Contributing Editors (On-going projects only):

02.14651	Dr. Ken Whistler
02.10646	Mr. Chen Zhuang
	Mr. Michael Everson
	Mr. Peter Constable
	Ms. Wang Xiaoming
	Dr. Ken Whistler
	Dr. Lu Qin
	Dr. Asmus Freytag
	Mr. Rick McGowan
	Mr. John Jenkins

7. Liaison Representatives

ISO/IEC JTC 1/SC 29	Mr. Mike Ksar
ISO/IEC JTC 1/SC 34	Mr. Tatsuo Kobayashi
ISO/IEC JTC 1/SC 35	Mr. Alain LaBonté
ISO/TC 37/SC 2	Mr. Peter Constable
ISO/TC 46/SC 4	Mr. Michael Everson
ISOC/IETF	Mr. Michel Suignard
Unicode	Mr. Mike Ksar
W3C	Mr. Mike Ksar

Part II: Meetings

Plenary

No.	Date	Place	Agenda	Resolutions	Report
19	2014-09-30, 10-03	Colombo, Sri Lanka			
18	2012-10-26	Chiang-Mai, Thailand	4236	4263	--
17	2011-06-10	Helsinki, Finland	4191	4194	4198
16	2009-10-30	Tokyo, Japan	4080	4112	4119
15	2008-04-25	Redmond, WA, USA	3992	4021	4030
14	2006-04-27/28	Mountain View, CA, USA	3829	3865	3873
13	2004-06-24/25	Markam, Ontario, Canada	4774Rev.	3755	3781
12	2002-12-12	Tokyo, Japan	3657	3668	3675
11	2001-10-18/19	Singapore, Singapore	3570	3574	--
10	2000-09-25/26	Athens, Greece	3490	3492	3521
9	1999-03-16/17	Fukuoka, Japan	3260	3296	3324
8	1998-03-24/25	Redmond, Washington, USA	3073	3077	--
7	1997-07-08/09	Iraklion - Crete, Greece	2935	2940	3012
6	1996-08-20/21	Quebec, Canada	2735	2749	2756
5	1995-06-26/28	Helsinki, Finland	2583	2616	2635
4	1993-05-24/26	Athens, Greece	2428	2466	2468
3	1991-10-14/17	Rennes, France	2228	2296	2297
2	1990-04-09/12	Washington DC, USA		2166	

OWG-SORT

No.	Date	Place	Agenda	Resolutions/Report
18	2014-09-	Colombo, Sri Lanka		
17	2014-02-27	San José, CA, USA	4309	4313
16	2013-06-11,13	Vilnius, Lithuania	4279	4282
15	2012-10-25	Chiang-Mai, Thailand	4247	4264
14	2012-02-16	Mountain view, CA, USA	4215	4217
13	2011-06-09	Helsinki, Finland	4186	4189
12	2010-10-04	Busan, Korea	4154	4166
11	2010-05-19	San Jose, CA, USA	4126	4139
10	2009-10-26	Tokyo, Japan	4095	4106
9	2009-04-20	Dublin, Ireland	4059	4069
8	2008-10-13	Hong Kong, China	4032	4039
7	2008-04-21/24	Redmond, WA, USA	3996	4015
6	2007-09-19/20	Hangzhou, China	3965	3970
5	2007-04-26/27	Frankfurt, Germany	3931	3935
4	2006-09-26	Tokyo, Japan	3887	3896
3	2006-04-27	Mountain View, CA, USA	3835	--
2	2005-09-13	Sophia Antipolis, France	3793	3811
1	2005-01-25	Xiamen, China	3764	3783

WG 2

No.	Date	Place	Agenda	Resolutions	Reports
63	2014-09-29/10-03	Colombo, Sri Lanka			
62	2014-02-24/28	San Jose, CA, USA,	4299	4315	
61	2013-06-10/14	Vilnius, Lithuania	4271	4283	4311
60	2012-10-22/26	Chiang-Mai, Thailand	4242	4261	4281
59	2012-02-13/17	Mountain View, CA, USA	4210	4218	4246
58	2011-06-06/10	Helsinki, Finland	4184	4187	4188
57	2010-10-04/08	Busan, Korea	4157	4162	4182
56	2010-04-19/23	San Jose, CA, USA	4117	4138	WG2N3808
55	2009-09-26/30	Tokyo, Japan	4082	4110	WG2N3703
54	2009-04-20/24	Dublin, Ireland	4067	4068	4081
53	2008-10-13/17	Hong Kong, China	4026	4040	4043
52	2008-04-21/24	Redmond, WA, USA	3994	4020	4030

51	2007-09-17/21	Hangzhou, China	2963	3972	3983
50	2007-04-23/27	Frankfurt, Germany	3919	3936	3971
49	2006-09-25/28	Tokyo, Japan	3882	3897	--
48	2006-04-24/27	Mountain View, CA, USA	3834	3861	3888
47	2005-09-12/15	Sophia Antipolis, France	3785	3815	3837
46	2005-01-24/28	Xiamen, China	3770	3784	3836
45	2004-06-21/24	Markham, Canada	3717	3746	3780
44	2003-10-20/23	Mountain View, USA	3693	3701	3754
43	2002-12-09/12	Tokyo, Japan	3634	3658	3691
42	2002-05-20/23	Dublin, Ireland	3593	3614	3644
41	2001-09-15/18	Singapore, Singapore	3551	3568	3607
40	2001-04-02/05	Mountain View, CA, USA	3508	3518	3547
39	2000-09-19/25	Athens, Greece	3448	3489	3517
38	2000-03-21/24	Beijing, China	3404	3442	3464
37	1999-09-20/24	Copenhagen, Denmark	3335	3357	3425
36	1999-03-09/15	Fukuoka, Japan	3238	3291	3352
35	1998-09-21/25	London, UK	3123	3175 Rev	3255
34	1998-03-16/20	Redmond, WA, U.S.A	3021	3073	3148
33	1997-06-30/07-04	Iraklion - Crete, Greece	2860	2927	3009
32	1997-01-20/24	Singapore, Singapore	WG 2 N 1465	2808	2872
31	1996-08-12/16	Quebec City, Quebec, Canada	WG 2 N 1387	2747	WG 2 N 1453
30	1996-04-22/26	Copenhagen, Denmark	WG 2 N 1327	2683	WG 2 N 1353
29	1995-11-06/10	Tokyo, Japan	WG 2 N 1245	2646	WG 2 N 1303
28	1995-06-26/28	Helsinki, Finland	WG 2 N 1211	2609	WG 2 N 1253
27	1995-04-03/07	Geneva, Switzerland		2577	WG 2 N 1203
26	1994-10-10/14	San Francisco, Calif. U.S.A.		2549	2559
25	1994-04-18/25	Antalya, Turkey		2536	WG 2 N 1203
24	1993-11-01/05	Washington, DC, U.S.A		2478	2504
23	1993-04-24/26	Athens, Greece	2416	2458	WG 2 N 903

IRG

No.	Date	Place	Agenda	Resolutions/Reports
43	2014-11-17/21	San Jose, USA	4346	
42	2014-05-19/23	Qingdao, China	4310	4341
41	2013-11-18/22	Tokyo, Japan	4297	4305
40	2013-05-20/24	Hong Kong, China	4273	IRGN1940
39	2012-11-12/16	Hanoi, Vietnam	4241	IRGN1910
38	2012-06-18/22	Gyeongju, Korea	4221	IRGN1870
37	2011-11-07/11	Mountain View, CA, USA	4197	IRGN1810
36	2011-04-11/15	Chong Qing, China	4179	WG2N4020, N4021
35	2010-11-08/12	Macao SAR, China	4155	IRGN1730
34	2010-06-21/25	Nagaoka, Japan	4129	4148
33	2009-11-23/27	Da Nang, Vietnam	4099	4128
32	2009-06-15/18	Hong Kong, China	4057	4083
31	2008-11-10/14	Kunming, China	4033	4054
30	2008-06-09/06-14	Busan, Republic of Korea	4002	IRGN1450
29	2007-11-12/16	San Jose, California, U.S.A,	3977	3999
28	2007-04/08	Shaanxi, China	3928	3952, 3953
27	2006-11-27/12-01	San Ya, Hannan, China	3902	3917, 3918
26	2006-06-05/09	Hue, Vietnam,	3844	3889
25	2005-11-28/12-02	Berkeley, CA, USA	3821	IRGN1158
24	2005-05-24/27	Kyoto, Japan	3794	
23	2004-11-29/12-03	Jeju Island, Republic of Korea	3763	IRGN1074

Part III: Programme of Work

1. Projects under development:

as of 2014-08-25

Reference	Document title	Crnt stage	Project Editor
1 ISO/IEC 10646	Information technology -- Universal Coded Character Set (UCS)	Under publication	M.Suignard
2 ISO/IEC 10646/DAMd 1	Information technology -- Universal Coded Character Set (UCS) -- Amendment 1: Cherokee supplement and other characters	DAM ballot closing 2014-08-29	M.Suignard
3 ISO/IEC 10646/PDAMd 2	Information technology -- Universal Coded Character Set (UCS) -- Amendment 2	PDAM ballot closing 2014-09-05	M.Suignard
4 ISO/IEC 14651:2011/DAMd 2	Information technology -- International string ordering and comparison -- Method for comparing character strings and description of the common template tailorable ordering -- Amendment 2	DAM ballot closing 2014-09-02	A.LaBonté

2. Published standards:

Stage code - **90.93**: International Standard confirmed, **90.92**: International Standards under revision, **60.60**: International Standard published

Alert Reference	Document title	Crnt stage	Committee
1 ISO 962:1974	Information processing -- Implementation of the 7- bit coded character set and its 7- bit and 8-bit extensions on 9- track 12,7 mm (0.5 in) magnetic tape	90.93	ISO/IEC JTC 1/SC 2
2 ISO 1113:1979	Information processing -- Representation of the 7- bit coded character set on punched tape	90.93	ISO/IEC JTC 1/SC 2
3 ISO 1154:1975	Information processing -- Punched paper tape -- Dimensions and location of feed holes and code holes	90.93	ISO/IEC JTC 1/SC 2
4 ISO 1681:1973	Information processing -- Unpunched paper cards -- Specification	90.93	ISO/IEC JTC 1/SC 2
5 ISO 2033:1983	Information processing -- Coding of machine readable characters (MICR and OCR)	90.93	ISO/IEC JTC 1/SC 2
6 ISO 2047:1975	Information processing -- Graphical representations for the control characters	90.93	ISO/IEC JTC 1/SC 2
7 ISO 3275:1974	Information processing -- Implementation of the 7- bit coded character set and its 7- bit and 8- bit extensions on 3,81 mm magnetic cassette for data interchange	90.93	ISO/IEC JTC 1/SC 2
8 ISO 5426:1983	Extension of the Latin alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
9 ISO 5426-2:1996	Information and documentation -- Extension of the Latin alphabet coded character set for bibliographic information interchange -- Part 2: Latin characters used in minor European languages and obsolete typography	90.93	ISO/IEC JTC 1/SC 2
10 ISO 5427:1984	Extension of the Cyrillic alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
11 ISO 5428:1984	Greek alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
12 ISO 6438:1983	Documentation -- African coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
13 ISO 6586:1980	Data processing -- Implementation of the ISO 7- bit and 8- bit coded character sets on punched cards	90.93	ISO/IEC JTC 1/SC 2
14 ISO 6861:1996	Information and documentation -- Glagolitic alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
15 ISO 6862:1996	Information and documentation -- Mathematical coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
16 ISO 6936:1988	Information processing -- Conversion between the two coded character sets of ISO 646 and ISO 6937-2 and the CCITT international telegraph alphabet No. 2 (ITA 2)	90.93	ISO/IEC JTC 1/SC 2
17 ISO 8957:1996	Information and documentation -- Hebrew alphabet coded character sets for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
18 ISO 9036:1987	Information processing -- Arabic 7-bit coded character set for information interchange	90.93	ISO/IEC JTC 1/SC 2
19 ISO 10585:1996	Information and documentation -- Armenian alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
20 ISO 10586:1996	Information and documentation -- Georgian alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
21 ISO 11822:1996	Information and documentation -- Extension of the Arabic alphabet coded character set for bibliographic information interchange	90.93	ISO/IEC JTC 1/SC 2
22 ISO/IEC 646:1991	Information technology -- ISO 7-bit coded character set for information interchange	90.93	ISO/IEC JTC 1/SC 2
23 ISO/IEC 2022:1994	Information technology -- Character code structure and extension techniques	90.93	ISO/IEC JTC 1/SC 2
24 ISO/IEC 2022:1994/Cor 1:1999	Information technology -- Character code structure and extension techniques - Technical Corrigendum 1	60.60	ISO/IEC JTC 1/SC 2
25 ISO/IEC 2375:2003	Information technology -- Procedure for registration of escape sequences and coded character sets	90.93	ISO/IEC JTC 1/SC 2

26	ISO/IEC 4873:1991	Information technology -- ISO 8-bit code for information interchange -- Structure and rules for implementation	90.93	ISO/IEC JTC 1/SC 2
27	ISO/IEC 6429:1992	Information technology -- Control functions for coded character sets	90.93	ISO/IEC JTC 1/SC 2
28	ISO/IEC 6937:2001	Information technology -- Coded graphic character set for text communication -- Latin alphabet	90.93	ISO/IEC JTC 1/SC 2
29	ISO/IEC 7350:1991	Information technology -- Registration of repertoires of graphic characters from ISO/IEC 10367	90.93	ISO/IEC JTC 1/SC 2
30	ISO/IEC 8859-1:1998	Information technology -- 8-bit single-byte coded graphic character sets -- Part 1: Latin alphabet No. 1	90.93	ISO/IEC JTC 1/SC 2
31	ISO/IEC 8859-2:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 2: Latin alphabet No. 2	90.93	ISO/IEC JTC 1/SC 2
32	ISO/IEC 8859-3:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 3: Latin alphabet No. 3	90.93	ISO/IEC JTC 1/SC 2
33	ISO/IEC 8859-4:1998	Information technology -- 8-bit single-byte coded graphic character sets -- Part 4: Latin alphabet No. 4	90.93	ISO/IEC JTC 1/SC 2
34	ISO/IEC 8859-5:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 5: Latin/Cyrillic alphabet	90.93	ISO/IEC JTC 1/SC 2
35	ISO/IEC 8859-6:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 6: Latin/Arabic alphabet	90.93	ISO/IEC JTC 1/SC 2
36	ISO/IEC 8859-7:2003	Information technology -- 8-bit single-byte coded graphic character sets -- Part 7: Latin/Greek alphabet	90.93	ISO/IEC JTC 1/SC 2
37	ISO/IEC 8859-8:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 8: Latin/Hebrew alphabet	90.93	ISO/IEC JTC 1/SC 2
38	ISO/IEC 8859-9:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 9: Latin alphabet No. 5	90.93	ISO/IEC JTC 1/SC 2
39	ISO/IEC 8859-10:1998	Information technology -- 8-bit single-byte coded graphic character sets -- Part 10: Latin alphabet No. 6	90.93	ISO/IEC JTC 1/SC 2
40	ISO/IEC 8859-11:2001	Information technology -- 8-bit single-byte coded graphic character sets -- Part 11: Latin/Thai alphabet	90.93	ISO/IEC JTC 1/SC 2
41	ISO/IEC 8859-13:1998	Information technology -- 8-bit single-byte coded graphic character sets -- Part 13: Latin alphabet No. 7	90.93	ISO/IEC JTC 1/SC 2
42	ISO/IEC 8859-14:1998	Information technology -- 8-bit single-byte coded graphic character sets -- Part 14: Latin alphabet No. 8 (Celtic)	90.93	ISO/IEC JTC 1/SC 2
43	ISO/IEC 8859-15:1999	Information technology -- 8-bit single-byte coded graphic character sets -- Part 15: Latin alphabet No. 9	90.93	ISO/IEC JTC 1/SC 2
44	ISO/IEC 8859-16:2001	Information technology -- 8-bit single-byte coded graphic character sets -- Part 16: Latin alphabet No. 10	90.93	ISO/IEC JTC 1/SC 2
45	ISO/IEC 10367:1991	Information technology -- Standardized coded graphic character sets for use in 8-bit codes	90.93	ISO/IEC JTC 1/SC 2
46	ISO/IEC 10367:1991/Cor 1:2001	Information technology -- Standardized coded graphic character sets for use in 8-bit codes -- Technical Corrigendum 1	60.60	ISO/IEC JTC 1/SC 2
47	ISO/IEC 10538:1991	Information technology -- Control functions for text communication	90.93	ISO/IEC JTC 1/SC 2
48	ISO/IEC 10646:2012	Information technology -- Universal Coded Character Set (UCS)	90.92	ISO/IEC JTC 1/SC 2/WG 2
49	ISO/IEC 10646:2012/Amd 1:2013	Information technology -- Universal Coded Character Set (UCS) -- Amendment 1: Linear A, Palmyrene, Manichaean, Khajki, Khudawadi, Bassa Vah, Duployan, and other characters	60.60	ISO/IEC JTC 1/SC 2/WG 2
50	ISO/IEC 14651:2011	Information technology -- International string ordering and comparison -- Method for comparing character strings and description of the common template tailorable ordering	60.60	ISO/IEC JTC 1/SC 2
51	ISO/IEC 14651:2011/Amd 1:2012	Information technology -- International string ordering and comparison -- Method for comparing character strings and description of the common template tailorable ordering -- Amendment 1	60.60	ISO/IEC JTC 1/SC 2
52	ISO/IEC TR 15285:1998	Information technology -- An operational model for characters and glyphs	90.93	ISO/IEC JTC 1/SC 2