

**ISO/IEC JTC 1/SC 2  
Coded Character Sets  
Secretariat: [Japan \(JISC\)](#)**

<b>DOC. TYPE</b>	Secretariat Report	
<b>TITLE</b>	Secretariat Report to the 15th Plenary Meeting of ISO/IEC JTC 1/SC 2, Redmond, Washington, USA, 2008-04-25	
<b>SOURCE</b>	SC 2 Secretariat	
<b>PROJECT</b>		
<b>STATUS</b>	For information and review at the 15th Plenary Meeting to be held in Redmond, Washington, USA, 2008-04-25.	
<b>ACTION ID</b>	FYI	
<b>DUE DATE</b>		
<b>DISTRIBUTION</b>	P, O and L Members of ISO/IEC JTC 1/SC 2 ; ISO/IEC JTC 1 Secretariat; ISO/IEC ITTF	
<b>ACCESS LEVEL</b>	Open	
<b>ISSUE NO.</b>	305	
<b>FILE</b>	<b>NAME</b>	02n4005.htm
	<b>SIZE (KB)</b>	10
	<b>PAGES</b>	

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**Secretariat Report to the 15th Plenary Meeting of ISO/IEC JTC 1/SC 2,  
Redmond, Washington, USA, 2008-04-25**

**1.1 Title**

Coded Character Sets

**1.2 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.

### **1.3 Chairman**

Mr. Tatsuo L. Kobayashi  
JISC - Japan

### **1.4 Secretariat**

JISC - Japan  
Attn.: Toshiko Kimura  
IPSJ/ITSCJ  
Room 308-3, Kikai-shinko-kaikan  
Minato-ku, Shiba-koen,  
Tokyo 105-0011  
Japan

### **1.5 Membership**

#### **1.5.1 P - Members (29)**

Belgium, Canada, China, Egypt, Finland, France, Germany, Greece, Iceland, India, Indonesia, Iran Islamic Republic of, Ireland, Italy, Japan, Kazakhstan, Korea Democratic People's Republic, Korea Republic of, Mongolia, Norway, Poland, Romania, Russian Fed., Serbia, Sweden, Thailand, Tunisia, USA, United Kingdom

#### **1.5.2 O - Members (18)**

Armenia, Cuba, Czech Republic, Estonia, Ethiopia, Hong Kong, Hungary, Israel, Lithuania, Malaysia, Morocco, Netherlands, Singapore, Slovenia, Sri Lanka, Switzerland, Turkey, Viet Nam

#### **1.5.3 L - Members**

##### **Internal Liaison (9)**

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 31	Automatic identification and data capture techniques
ISO/IEC JTC 1/SC 32	Data management and interchange
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages
ISO/IEC JTC 1/SC 35	User interfaces
ISO/TC 37/SC 2	Terminology and other language and content resources -- Terminographical and lexicographical working methods
ISO/TC 46/SC 2	Conversion of written languages
ISO/TC 211	Geographic information/Geomatics

##### **External Liaison (14)**

CCSD	B	Consultative Committee on Space Data Systems
CEC	A	Commission of European Communities
CEN/TC304 (dormant)		European Localization Requirements
HK ITF	C	Hong Kong Information Technology Federation
IETF	A	Internet Engineering Task Force

ITU-T	A	International Telecommunication Union - Telecommunication Standardization Sector
TCA	C	Taipei Computer Association
UNCTAD	A	United Nations Conference on Trade and Development
UNICODE	C	The Unicode Consortium
UNU/IIST	C	United Nations University International Institute for Software Technologies
U-ECE/WP4	A	United Nations Economic Commission for Europe
W3C	C	World Wide Web Consortium
WIPO	B	World Intellectual Property Organization
WMO	B	World Meteorological Organization

## **1.6 Working Group Structure**

### **16.1 OWG-SORT: Maintenance of ISO/IEC 14651**

**Convener:**Mr. Alain LaBonté

### **1.6.2 Working Group 2: Universal Coded Character Set**

**Convener:**

Mr. Mike Ksar (Re-appointed : 2004-04)

**Secretariat :**ANSI

**Recording Secretary:**

Dr. V.S. Umamaheswaran  
IBM Toronto Software Lab, Canada

**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

### **1.6.3 Ideographic Rapporteur Group (IRG)**

**Rapporteur:**

Dr. Qin LU (Re-appointed : 2006-04)  
The Hong Kong Polytechnic University  
Hong Kong, China

**Terms of Reference:**

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

### **1.7 Project Editors/Contributing Editors (active projects only):**

02.14651 Mr. Alain LaBonté  
02.10646 Mr. Michel Suignard

### **1.8 Contributing Editors (active projects only):**

02.10646 Mr. Chen, Zhuang  
Mr. Michael Everson  
Dr. Asmus Freytag  
Dr. Lu, Qin  
Dr. Ken Whistler  
Ms. Wang, Xiaoming

### **1.9 Liaison Representatives**

ISO/IEC JTC 1/SC 22 Mr. Mike Ksar  
ISO/IEC JTC 1/SC 29 Mr. Mike Ksar  
ISO/IEC JTC 1/SC 34 Dr. Asmus Freytag  
ISO/IEC JTC 1/SC 35 Mr. Alain LaBonté  
ISO/TC 46/SC 4 Mr. Michael Everson  
ISOC/IETF Mr. Michel Suignard  
Unicode Mr. Mike Ksar  
W3C Mr. Mike Ksar

## **2. Meetings**

### **SC 2**

<b>No.</b>	<b>Date</b>	<b>Place</b>	<b>Agenda</b>	<b>Resolutions</b>	<b>Report</b>
15	2008-04-25	Redmond, WA, USA	3992		
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**

<b>No.</b>	<b>Date</b>	<b>Place</b>	<b>Agenda</b>	<b>Resolutions</b>	<b>Report</b>
8	2008-04-21/24	Redmond, WA, USA	3996		
7	2007-09-19/20	Hangzhou, China	3965	3970	3970

6	2007-04-26/27	Frankfurt, Germany	3931	3935	3935
5	2006-09-26	Tokyo, Japan	3887	3896	3896
4	2006-04-27	Mountain View, CA, USA	3835		
3	2005-09-13	Sophia Antipolis, France	3793		3811
2	2005-01-25	Xiamen, China	3764		3783

## **WG 2**

<b>No.</b>	<b>Date</b>	<b>Place</b>	<b>Agenda</b>	<b>Resolutions Report</b>	
52	2008-04-21/24	Redmond, WA, USA	3994		
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**

<b>No.</b>	<b>Date</b>	<b>Place</b>	<b>Agenda</b>	<b>Resolutions/Report</b>	
30	2008-06-09/06-14	Busan, Republic of Korea	4002		
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	
24	2005-05-24/27	Kyoto, Japan	3794	
23	2004-11-29/12-03	Jeju Island, Republic of Korea,	3763	

### **WG 3 (Disbanded)**

<b>No.</b>	<b>Date</b>	<b>Place</b>	<b>Agenda Resolutions Report</b>		
16	2000-09-18/19	Athens, Greece	3460	3477	
15	1999-09-16/17	Copenhagen, Denmark	3344	3379	
14	1998-09-25	London, UK	3143	3176	
13	1998-03-20, 23	Redmond, Washington, U.S.A	3026	3072	
12	1997-07-04,07	Iraklion - Crete, Greece	2837	2933	
11	1996-08-19	Quebec City, Quebec, Canada	2748	2757	
10	1995-04-03/07	Helsinki, Finland	2608	2638	
9	1994-10-07	California, USA			
8	1994-04-22	Antalya, Turkey	2521	2522	
7	1993-05-26	Athens, Greece	2427	2453	2489

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### 3. ISO/IEC JTC 1/SC 2 Programme of Work

Updated: 2008-03-27

SC 2 Project # (JTC 1.02.)	Reference	TITLE	Project Editor	Current Stage	Target Date (Top)/ Actual Date (Bottom) *=completion				
					WD	CD/ PDAM	FCD/ FPDAM	FDIS/ FDAM	IS/ AMD
<b>OWG-SORT</b>									
14651.00.00.00.02	<a href="#">ISO/IEC 14651:2007</a>  (Freely available from ITTF site)	Information technology -- International string ordering and comparison -- Method for comparing character strings and description of the common template tailorable ordering (Revision of ISO/IEC 14651: 2001)	A.LaBonté	-	Published: 2007-12-01				
14651.01.00.00.02	SC 2 N 3969	International string ordering and comparison -- Method for comparing character strings and description of the common template tailorable ordering -- Amendment 1	A.LaBonté	1					
<b>WG 2: Universal Coded Character Set</b>									
10646	<a href="#">ISO/IEC 10646:2003</a>  (Freely available from ITTF site)	Universal Multiple-Octet Coded Character Set (UCS)		-	Published: 2003-12-15				
10646.00.01.00.01	<a href="#">ISO/IEC 10646:2003/Amd.1:2005</a>  (Freely available from ITTF site)	Universal Multiple-Octet Coded Character set (UCS) -- Amendment 1: Glagolitic, Coptic, Georgian and other characters		-	Published: 2005-11-15				
10646.00.02.00.01	<a href="#">ISO/IEC 10646:2003/Amd.2:2006</a>  (Freely available from ITTF site)	Universal Multiple-Octet Coded Character Set (UCS) -- Amendment 2: N'Ko, Phags-pa, Phoenician and other characters		-	Published: 2006-07-15				

10646 00.03.00.01	<a href="#">ISO/IEC 10646: 2003/Amd.3: 2006</a> (Freely available from ITTF site)	Universal Multiple-Octet Coded Character Set (UCS) -- Amendment 3: Lepcha, Ol Chiki, Saurashtra, Vai, and other characters		-	Published: 2008-02-15				
10646.00.04.00.01	ISO/IEC 10646/FDAM4	Universal Multiple-Octet Coded Character Set (UCS) -- Amendment 4: Lanna, Cham, Game Tiles, and other characters	M.Suignard	4	06-12 06-12	07-06 07-05	07-12 08-01		
10646.00.05.00.01	ISO/IEC 10646/FPDAM5	Universal Multiple-Octet Coded Character Set (UCS) -- AMENDMENT 5: Meitei Mayek, Bamum, Tai Viet, Avestan, Egyptian Hieroglyphs, CJK Unified Ideographs Extension C, and other characters	M.Suignard	3	07-05 07-05	07-10	08-07		
10646.00.06.00.01	SISO/IEC 10646/PDAM 6	Universal Multiple-Octet Coded Character Set (UCS) -- AMENDMENT 6	M.Suignard	3	- 07-12				
10646.00.00.00.02	SC 2 N 3974	Universal Multiple-Octet Coded Character Set (UCS) (Second Edition: Consolidating ISO/IEC 10646: 2003 and Amendment 1 - 5 into a New Edition of ISO/IEC 10646)	M.Suignard	1					
15285	<a href="#">ISO/IEC TR 15285: 1998</a> (Freely available from the ITTF site)	An Operational Model for Characters and Glyphs [Technical Report Type 3]		-	Published: 1998-12-15				
<b>SC 2 (Former WG 3: 7-bit and 8-bit codes and their extension)</b>									
01	ISO/IEC 646:1991	ISO 7-bit coded character set for information interchange		*	Published: 1991-12-01 (Third Edition)				
02	ISO/IEC 2022: 1994	Character code Structure and extension techniques		*	Published: 1994-12-01 (Fourth Edition)				
02.00.01	ISO/IEC 2022/ Cor.1: 1999	Character code Structure and extension techniques -- Technical Corrigendum 1		*	Published: 1999-04-15				
04.00.00	ISO/IEC 2375:	Procedure for registration of escape sequences		-	Published: 2003-02-15				



	2003				
08	ISO/IEC 4873: 1991	ISO 8-bit code for information interchange -- Structure and rules for implementation		*	Published: 1991-12-15
13	ISO/IEC 6429: 1992	Control functions for coded character sets		*	Published: 1992-12-15 (Third Edition)
14.01/02	ISO/IEC 6937: 2001	Code graphic character set for text communication		-	Published: 2001-12-15
14.03/04	ISO/IEC 10538: 1991	Control functions for text communication		-	Published: 1991-09-15
16	ISO/IEC 7350: 1991	Registration of repertoires of graphic characters from ISO 10367		*	Published: 1991-12-15 (Second Edition)
19	ISO 9036: 1987	Arabic 7-bit coded character set for information interchange		*	Published: 1987-04-15
20.01	ISO/IEC 8859-1: 1998	8-bit single-byte coded graphic character sets -- Part 1: Latin alphabet No.1		*	Published: 1998-04-15
20.02	ISO/IEC 8859-2: 1999	8-bit single-byte coded graphic character sets -- Part 2: Latin alphabet No. 2		-	Published: 1999-01-15
20.03	ISO/IEC 8859-3: 1999	8-bit single-byte coded graphic character sets -- Part 3: Latin alphabet No. 3		-	Published: 1999-01-15
20.04	ISO/IEC 8859-4: 1998	8-bit single-byte coded graphic character sets -- Part 4: Latin alphabet No. 4		*	Published: 1998-07-01
20.05	ISO/IEC 8859-5: 1999	8-bit single-byte coded graphic character sets -- Part 5: Latin/Cyrillic alphabet		-	Published: 1999-01-15
20.06	ISO/IEC 8859-6:1999	8-bit single-byte coded graphic character sets -- Part 6: Latin/Arabic alphabet		-	Published: 1999-01-15
20.07	ISO/IEC 8859-7: 2003	8-bit single-byte coded graphic character sets -- Part 7: Latin/Greek alphabet		-	Published: 2003-10-15
20.08	ISO/IEC 8859-8: 1999	8-bit single-byte coded graphic character sets -- Part 8: Latin/Hebrew alphabet		-	Published: 1999-01-15
20.09	ISO/IEC 8859-9:1999)	8-bit single-byte coded graphic character sets -- Part 9: Latin alphabet No. 5		-	Published: 1999-01-15
20.10	ISO/IEC 8859-10: 1998	8-bit single-byte coded graphic character sets -- Part 10: Latin alphabet No. 6		*	Published: 1998-07-15
20.11	ISO/IEC 8859-	8-bit single-byte coded graphic character sets -- Part 11:		-	Published: 2001-12-15

	11: 2001	Latin/Thai character set			
20.13	ISO/IEC 8859-13: 1998	8-bit single-byte coded graphic character sets -- Part 13: Latin alphabet No.7		*	Published: 1998-10-15
20.14	ISO/IEC 8859-14: 1998	8-bit single-byte coded graphic character sets -- Part 14: Latin alphabet No.8 (Celtic)		*	Published: 1998-11-15
20.15	ISO/IEC 8859-15: 1999	8-bit single-byte coded graphic character sets -- Part 15: Latin alphabet N. 9		-	Published: 1999-03-15
20.16	ISO/IEC 8859-16: 2001	8-bit single-byte coded graphic character sets -- Part 16: Latin alphabet N. 10		-	Published: 2001-07-15
22	ISO/IEC 10367: 1991	Standardized coded graphic character sets for use in 8-bit codes		-	Published: 1991-12-15
22.00.00.01.01	ISO/IEC 10367/Cor. 1	Standardized coded graphic character sets for use in 8-bit codes -- Technical Corrigendum 1		-	Published: 2001-06-01
00962	ISO 962: 1974	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		*	Published: 1974
01113	ISO 1113: 1979	Representation of the 7- bit coded character set on punched tape		*	Published: 1979
01154	ISO 1154: 1975	Punched paper tape -- Dimensions and location of feed holes and code holes		*	Published: 1975
01681	ISO 1681: 1973	Unpunched paper cards -- Specification		*	Published: 1973
02033	ISO 2033: 1983	Coding of machine readable characters (MICR and OCR)		*	Published: 1983
02047	ISO 2047: 1975	Graphical representations for the control characters of the 7- bit coded character set		*	Published: 1975
03275	ISO 3275: 1974	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		*	Published: 1974
06586	ISO 6586: 1980	Implementation of the ISO 7- bit and 8- bit coded character sets on punched cards		*	Published: 1980
06936	ISO 6936: 1988	Conversion between the two coded character sets of ISO 646 and ISO 6937-2 and the CCITT international telegraph alphabet No. 2 (ITA 2)		*	Published: 1988
05426	ISO 5426: 1983	Extension of the Latin alphabet coded character set for		*	Published: 1983-11-01

		bibliographic information interchange			
05426-2	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		-	Published: 1996
05427	ISO 5427: 1984	Extension of the Cyrillic alphabet coded character set for bibliographic information interchange		*	Published: 1984-09-15
05428	ISO 5428: 1984	Greek alphabet coded character set for bibliographic information interchange		*	Published: 1984-11-01
06438	ISO 6438: 1983	Documentation - African coded character set for bibliographic information interchange		*	Published: 1983-08-01
06861	ISO 6861: 1996	Information and documentation -- Glagolitic alphabet coded character set for bibliographic information interchange		-	Published: 1996
06862	ISO 6862: 1996	Information and documentation -- Mathematical coded character set for bibliographical information interchange		*	Published: 1996-10-01
08957	ISO 8957: 1996	Information and documentation -- Hebrew alphabet coded character sets for bibliographic information interchange		-	Published: 1996
10585	ISO 10585: 1996	Information and documentation - Armenian alphabet coded character set for bibliographic information interchange		*	Published: 1996-12-15
10586	ISO 10586: 1996	Information and documentation - Georgian alphabet coded character set for bibliographic information interchange		*	Published: 1996-12-15
11822	ISO 11822: 1996	Information and documentation - Extension of the Arabic alphabet coded character set for bibliographic information interchange		*	Published: 1996-12-15

**Target Dates:** WD: Introduction of the first edition of WD by editors, CD: Registration of the first CD/PDAM (and subsequent CDs/PDAMs), FCD: Registration of FCD/FPDAM, FDIS: Submission of text for FDIS/FDAM processing, IS: Publication

**Stages:** 0: A study period under way, 1: An NP is under consideration, 2: A WD is under consideration, 3: A CD/FCD is under consideration, 4: An FDIS is under consideration, 5: An IS is being prepared, -: Published, \*: Stabilised