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CODED CHARACTER SETS  
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**ISO**  
**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**  
**ORGANISATION INTERNATIONALE DE NORMALISATION**  
**ISO/IEC JTC 1/ SC 2/ WG 2**  
**Universal Multiple-Octet Coded Character Set**  
**(U C S)**

**WG2 N2248**

**Date: 2000-09-25**

<b>Title:</b>	<b>WG2 Report to the tenth SC2 plenary meeting in Athens, Greece</b>
<b>Source:</b>	<b>Mike Ksar, SC2/WG2 Convener</b>
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**1. Meetings**

Since the last SC2 plenary session, which was held in Fukuoka, Japan in March 1999, WG2 met in Copenhagen, Denmark in September 1999, in Beijing, China in March 2000 and in Athens, Greece in September 2000. Earlier meetings are included for reference.

<u>Meeting #</u>	<u>Location</u>	<u>Date</u>	<u>Document #, Minutes/Resolutions</u>
23	Athens, Greece	24 - 26 May 1993	N903, N904

24	Washington, DC, U.S.A.	1 - 5 Nov. 1993	N955, N949
25	Antalya, Turkey	18 - 25 April 1994	N1033, N1034
26	San Francisco, Calif. U.S.A.	10 - 14 Oct. 1994	N1117, N1118
27	Geneva, Switzerland	3 - 7 April 1995	N1203, N1204
28	Helsinki, Finland	26 - 28 June 1995	N1253, N1254
29	Tokyo, Japan	6 - 10 November 1995	<a href="#">N1303</a> , N1304
30	Copenhagen, Denmark	22 - 26 April 1996	<a href="#">N1353</a> , N1354
31	Quebec City, Quebec, Canada	12 - 16 August 1996	N1453, N1454
32	Singapore	20 - 24 January 1997	N1503, N1504
33	Heraklion, Crete, Greece	30 June – 4 July 1997	<a href="#">N1603</a> , <a href="#">N1604</a>
34	Redmond, WA, U.S.	16 – 20 March 1998	<a href="#">N1703</a> , N1704R
35	London, UK	21 – 25 September 1998	<a href="#">N1903</a> , <a href="#">N1904r</a>
36	Fukuoka, Japan	9 - 15 March 1999	N2003, <a href="#">N2004</a>
37	Copenhagen, Denmark	13 - 16 September 1999	2103, 2104
38	China	20 - 23 March 2000	2203, 2204
39	Greece	September 2000	2253*, 2254
40	US West Coast	2001-04-02	

41	Singapore	2001-10-15	
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\* Unconfirmed.

## 2. Scope of Work

Develop a universal multiple-octet coded character set that encompasses the world's scripts. This is Work Item JTC1.02.18 - ISO/IEC 10646.

## 3. Achievements since last SC2 plenary

Here is a summary of projects completed and published as amendments since the last SC2 plenary in March 1998.

1. Completed development of 10646-1:2000. It has been in ITTF hands since March 2000 but unfortunately ISO Central Secretariat has not yet published it.
2. Approved disposition of comments on FCD 10646-2 and approved preparation of FDIS for submittal to SC2 for further processing.
3. Approved preparation of pDAM 1 for 10646-1:2000.

Here are the details of all WG2 work items/projects within SC2 :

### WG 2: Multi Octet Codes

WG	SC 2 Project #	Title	Current Stage	Reference	Editor	Target Date (Top)/Actual Date (Bottom)				
						WD	CD	FCD	DIS	IS
2	02.18.01	Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and basic Multilingual Plane	-	ISO/IEC 10646-1: 1993	<a href="#">J. B. Paterson</a>	Published: 1993-05-01				

2	02.18.01.00.01	TECHNICAL CORRIGENDUM 1 to ISO/IEC 10646-1: 1993	-	ISO/IEC 10646-1: 1993/Cor.1		Published: 1996-03-01				
2	02.18.01.00.02	TECHNICAL CORRIGENDUM 2 to ISO/IEC 10646-1: 1993	-	ISO/IEC 10646-1: 1993/Cor.2 ( <a href="#">SC2N3082</a> )		Published: 1998-07-15				
2	02.18.01.00.03	TECHNICAL CORRIGENDUM 3 to ISO/IEC 10646-1: 1993	5	<a href="#">SC2N3306</a>					- 99-03	- 99-09
2	02.18.01.01	AMENDMENT 1 to ISO/IEC 10646-1: 1993: Transformation Format for 16 planes of group 00 (UTF-16)	-	ISO/IEC 10646- 1:1993/Amd.1		Published: 1996-10-15				
2	02.18.01.02	AMENDMENT 2 to ISO/IEC 10646-1: 1993: UCS Transformation Format 8 (UTF-8)	-	ISO/IEC 10646-1: 1993/Amd.2		Published: 1996-10-15				
2	02.18.01.03	AMENDMENT 3 to ISO/IEC 10646-1: 1993: Code positions for control characters	-	ISO/IEC 10646-1: 1993/Amd.3		Published: 1996-10-15				
2	02.18.01.04	AMENDMENT 4 to ISO/IEC 10646-1: 1993: Removal of annex G (UTF- 1)	-	ISO/IEC 10646-1: 1993/Amd.4		Published: 1996-10-15				
2	02.18.01.05	AMENDMENT 5 to ISO/IEC 10646-1: 1993: Hangul syllables	-	ISO/IEC 10646-1: 1993/Amd 5 (SC 2 N 2986)		Published: 1998-05-15				
2	02.18.01.06	AMENDMENT 6 to ISO/IEC 10646-1: 1993: Tibetan	-	ISO/IEC 10646-1: 1993/Amd.6		Published: 1997-11-15				
2	02.18.01.07	AMENDMENT 7 to ISO/IEC 10646-1: 1993: 33	-	ISO/IEC 10646-1: 1993/Amd.7		Published: 1997-11-15				

		additional characters								
2	02.18.01.08	AMENDMENT 8 (New annex on CJK Ideographs) to ISO/IEC 10646-1: 1993	-	ISO/IEC 10646-1: 1993/Amd.8 <a href="#">(SC2N2963)</a>		Published: 1997-12-15				
2	02.18.01.09	AMENDMENT 9 to ISO/IEC 10646-1: 1993: Identifiers for Characters	-	ISO/IEC 10646-1: 1993/Amd.9 <a href="#">(SC2N2981)</a>		Published: 1997-12-15				
2	02.18.01.10	AMENDMENT 10 to ISO/IEC 10646-1: 1993: Ethiopic script	-	ISO/IEC 10646-1: 1993/Amd.10 <a href="#">(SC 2 N 3016)</a>		Published: 1998-10-01				
2	02.18.01.11	AMENDMENT 11 to ISO/IEC 10646-1: 1993: Unified Canadian Aboriginal Syllabics	-	ISO/IEC 10646-1: 1993/Amd.11(SC2N2965)		Published: 1998-07-15				
2	02.18.01.12	AMENDMENT 12 to ISO/IEC 10646-1: 1993: Cherokee	-	ISO/IEC 10646-1: 1993/Amd.12 (SC2N2967)		Published: 1998-09-01				
2	02.18.01.13	AMEDMENT 13 : CJK unified ideographs	-	ISO/IEC 10646-1: 1993/Amd.13 (SC2N3078)		Published: 1998-10-15				
2	02.18.01.14	AMENDMENT 14 to ISO/IEC 10646-1: 1993: Yi syllables and Yi radicals	5	<a href="#">SC2N3315</a>		- 98-04	- 98-08	98-08 98-11	99-05 99-04	99-08 99-10
2	02.18.01.15	AMENDMENT 15 to ISO/IEC 10646-1: 1993: Radicals and Numerals	5	<a href="#">SC2N3361</a>		- 98-10	- 99-02	99-04 99-04	99-10 99-09	00-02 00-02
2	02.18.01.16	AMENDMENT 16 to ISO/IEC 10646-1: 1993: Braille Patterns	-	ISO/IEC 10646-1: 1993/Amd.16 <a href="#">(SC2N3079)</a>		Published: 1998-11-01				
2	02.18.01.17	AMENDMENT 17 to ISO/IEC 10646-1: 1993: CJK Unified Ideograph Extension	-	ISO/IEC 10646-1: 1993/Amd 17 (SC2N3220)		Published: 1999-07-15				

2	02.18.01.18	AMENDMENT 18 to ISO/IEC 10646-1: 1993: Symbols and Others	-	ISO/IEC 10646-1: 1993/Amd 18 <a href="#">(SC2N3188)</a>		Published: 1999-07-15				
2	02.18.01.19	AMENDMENT 19 to ISO/IEC 10646-1: 1993: Runic	-	<a href="#">SC2N3080</a>		Published: 1998-11-01				
2	02.18.01.20	AMENDMENT 20 to ISO/IEC 10646-1: 1993: Ogham	-	<a href="#">SC2N3081</a>		Published: 1998-11-01				
2	02.18.01.21	AMENDMENT 21 to ISO/IEC 10646-1: 1993: Sinhala	-	<a href="#">SC2N3190</a>		Published: 1999-06-01				
2	02.18.01.22	AMENDMENT 22 to ISO/IEC 10646-1: 1993: Keyboard symbols	5	<a href="#">SC2N3316</a>		- 97-12	98-03 98-03	98-10 98-10	99-05 99-04	99-09 99-10
2	02.18.01.23	AMENDMENT 23 to ISO/IEC 10646-1: 1993: Bopomofo and various other characters	-	ISO/IEC 10646-1: 1993/Amd 23 <a href="#">(SC2N3194)</a>		Published: 1999-05-15				
2	02.18.01.24	AMENDMENT 24 to ISO/IEC 10646-1: 1993: Thaana Script	5	<a href="#">SC2N3330</a>		98-03 98-03	- 98-09	99-05 98-10	99-05 99-04	99-10 99-11
2	02.18.01.25	AMENDMENT 25 to ISO/IEC 10646-1: 1993: Khmer Script	5	<a href="#">SC2N3318</a>		98-03 98-03	- 98-09	99-05 98-10	99-05 99-04	99-10 99-10
2	02.18.01.26	AMENDMENT 26 to ISO/IEC 10646-1: 1993: Burmese Script	5	<a href="#">SC2N3319</a>		98-03 98-03	- 98-09	99-05 98-10	99-05 99-04	99-10 99-10
2	02.18.01.27	AMENDMENT 27 to ISO/IEC 10646-1: 1993: Syriac Script	5	<a href="#">SC2N3320</a>		98-03 98-03	- 98-09	99-05 98-10	99-05 99-04	99-10 99-10
2	02.18.01.28	AMENDMENT 28 to ISO/IEC 10646-1: 1993: Ideographic Description	5	<a href="#">SC2N3363</a>		98-10 98-10	- 99-02	99-04 99-04	99-10 99-09	00-02 00-02

		Sequences								
2	02.18.01.29	AMENDMENT 29 to ISO/IEC 10646-1: 1993: Mongolian	5	<a href="#">SC2N3365</a>		98-09 98-10	- 99-02	99-04 99-04	99-10 99-10	00-02 00-02
2	02.18.01.30	AMENDMENT 30 to ISO/IEC 10646-1: 1993: Additional Latin and other characters	5	<a href="#">SC2N3367</a>		98-09 98-10	- 99-02	99-04 99-04	99-10 99-10	00-02 00-02
2	02.18.01.31	AMENDMENT 31 to ISO/IEC 10646-1: 1993: Tibetan Extension	5	<a href="#">SC2N3385</a>		98-09 98-10	- 99-02	99-04 99-04	99-10 99-10	00-02 00-03
2	02.18.01.00.00.02	Second Ed. of ISO/IEC 10646-1(to incorporate all Amendments and Corrigenda)	5	<a href="#">SC2N3411</a>		99-03	N/A N/A	N/A N/A	N/A N/A	2000-03 2000-03
2	02.18.01.01.00.02*	Amendment 1 to ISO/IEC 10646-1: 2000, Encoding space limitations and repertoire additions	2	<a href="#">SC2N3449</a>		2000-10		2001-02	2001-08	2002-03
2	02.18.02	Universal Multiple-Octet Coded Character set (UCS) -- Part 2: CJK Unified, Ideographs Supplementary plane, General Scripts and Symbols Plane, General Purpose Plane	3	<a href="#">SC2N3393</a>	<a href="#">M. Suignard</a>	98-03 98-03	99-11 99-11	00-05	01-05	01-12
2	02.15285	TR Type 3: An Operational Model for Characters and Glyphs	-	<a href="#">SC2N3142</a>	<a href="#">A. Griffee</a> <a href="#">E. Hart</a>	Published: 1998-12-15				

\*= Subject to JTC 1's endorsement.

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**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

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**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

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## **5. Other Achievements**

1. Continued to enhance the set of principles and a process to prioritize the various repertoire additions to WG2. The new process has been extremely helpful in managing and prioritizing repertoire additions to 10646. Document N2002 is being updated to reflect the latest feedback on the Principles and Procedures.
2. The Rapporteur of the IRG is Mr. Zhang Zhoucai of China. His term, if approved by the 10 SC2 plenary, will continue until the next SC2 plenary session in September 2001.
3. Updated the World Wide Web site for WG2 and posted an increasing number of documents to the site. The URL is [www.dkuug.dk/JTC1/SC2/WG2](http://www.dkuug.dk/JTC1/SC2/WG2). Keld Simonsen of the Danish Unix Users Group (dkuug) in Copenhagen, Denmark continues to operate the site. A summary of the documents submitted to WG2 and the action taken is now available on the web as document N2200.
4. No paper distribution at meeting 39. Documents were available on the web site and the host printed a hard copy of the document for their use. WG2 expects that this would be the norm for distributing WG2 documents.

## **6. Proposals for future WG2 meetings:**

1. Complete development of 10646-2
2. Process editorial corrigendum for 10646-1
3. Process Amendment 1 of 10646-1:2000
4. Review and reach consensus on Dai scripts
5. Continue to update the Roadmaps of 10646
6. Continue to work with DPRK and the Korean ad hoc group to include their requirements in 10646

## **7. WG2 Liaisons**

WG2 continues to work very closely with the following liaison organizations.

- ITU-T/SG8
- The Unicode Consortium
- Taipei Computer Association (TCA)
- Hong Kong Information Technology Federation (HKITF)
- United Nations University (UNU)
- CEN/TC304
- W3C

In addition, WG2 has worked very closely with the following working groups but no official liaisons exist between them and WG2.

- SC2/WG3 - 7-bit and 8-bit Codes
- ISO/TC46/SC2
- SC22/WG3 - APL
- SC22/WG20 - Internationalization
- ECMA TC39 - Web Scripting Languages

## **8. Mailing List**

The average number of recipients of WG2 documents is 80. Their national bodies or individuals that are linguistic and/or technical experts on coding technology nominate them. The number of attendees, representing about 19 national bodies, 3 liaison organizations and 18 affiliations, is now steady at an average of 35 people per meeting. There are approximately 150 technical experts who actively provide input to our working group.