

Source:	Tao Yang, Eiso Chan, Wang Yifan
Meeting:	IRG#49, San Jose, USA UTC#154
Title:	Proposal of 4 IDCs
Status:	Individual
Actions required:	To be considered by IRG & UTC
Distribution:	IRG
Medium:	Electronic
Pages:	12
Appendixes:	4

4 new IDCs are in need for describing the following characters. Using them may reduce the quantity of unnecessary and irregular components for IDS.

1. Unicode Properties





2FFC;IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM
RIGHT;So;0;ON; ; ; ; ;N; ; ; ; ;

2FFD;IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM
LOWER RIGHT;So;0;ON; ; ; ; ;N; ; ; ; ;

2FFE;IDEOGRAPHIC DESCRIPTION CHARACTER HORIZONTAL
REFLECTION;So;0;ON; ; ; ; ;N; ; ; ; ;

2FFF;IDEOGRAPHIC DESCRIPTION CHARACTER ONE HUNDRED
EIGHTY DEGREE ROTATION;So;0;ON; ; ; ; ;N; ; ; ; ;

Script=Common

Proposed Code Points	2FFC	2FFD	2FFE	2FFF
PUA	A0000	A0001	A0002	A0003
Character Names	IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM RIGHT	IDEOGRAPHIC DESCRIPTION CHARACTER SURROUND FROM LOWER RIGHT	IDEOGRAPHIC DESCRIPTION CHARACTER HORIZONTAL REFLECTION	IDEOGRAPHIC DESCRIPTION CHARACTER ONE HUNDRED EIGHTY DEGREE ROTATION
Glyph				

2. IDS Syntax

IDS ::= <Unary_Symbol><IDS1> | <Binary_Symbol><IDS1><IDS1> |

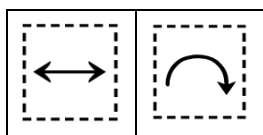
<Ternary_Symbol><IDS1><IDS1><IDS1>

<IDS1> ::= <IDS> | <Ideograph_Component>

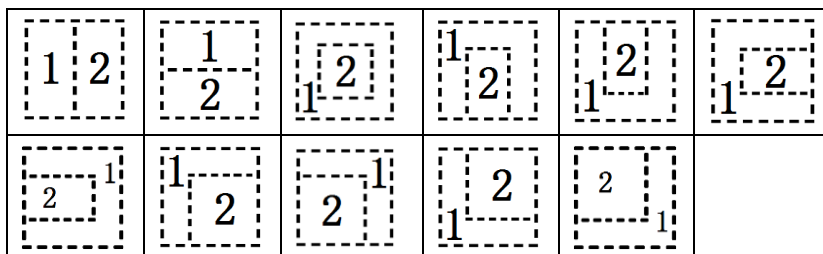
<Ideograph_Component> ::= coded_ideograph | coded_radical |

coded_component

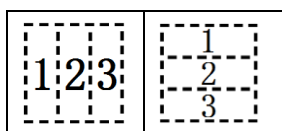
<Unary_Symbol> ::=




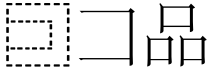

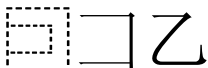
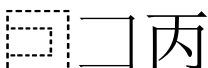
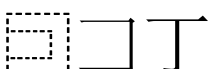

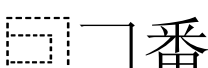


<Binary_Symbol> ::=



<Ternary_Symbol> ::=



3. Ideographic Description Character Surround from Right

Code	Character	IDS
NC ¹	义	 义、
NC	品	 品
NC	采	 采
NC	乙	 乙
NC	丙	 丙
NC	丁	 丁
NC	口	 口
NC	番	 番
NC	耳	 耳口
NC	互	 互、

¹ NC: New character, collected by the Project “Chinese Character Repertoire”.

4. Ideographic Description Character Surround from Lower Right

Code	Character	IDS
NC	𠂇	𠂇 尸 卜 日
NC	𠂈	𠂈 𠂇 尸 卜 日 斤
U+7742	𠂉	𠂉 𠂇 欠 目
U+25171	𠂊	𠂊 𠂇 𠂈 目
U+2519E	𠂋	𠂋 𠂇 𠂈 𠂈
U+24401	𠂌	𠂌 𠂇 𠂈 𠂇 𠂈 火
NC	𠂍	𠂍 宀 𠂇 大、
NC	𠂎	𠂎 尸 𠂇 七、
U+6C37	冰	𠂏 水、
NC	𠂐	𠂐 大、
U+2669D	脉	𠂑 月 𠂇 水 彡

U+2097C	斗	𠂇十十
U+20DF3	晷	𠂇𠂇处日口
U+2298F	戔	𠂇戈十
U+22992	戔	𠂇戈丰
U+22994	戔	𠂇戈才
NC	戔	𠂇戈日一ノ
NC	戔	𠂇戈兀
NC	戔	𠂇戈中
U+39B0	戔	𠂇戈从
U+8CAE	戔	𠂇𠂇弋一貝
U+5F10	弋	𠂇𠂇弋一二
U+6B66	武	𠂇𠂇弋一止

NC	戡	 戈大日口壬
U+38A4	戕	 弋十力
U+39B1	戎	 戈一土
U+2BEF2	戕	 戈人欠
U+2192A	嬖	 女  戈  非
U+21B76	戕	 弋少且
U+22387	戕	 弋十手
U+229B1	戕	 戈一日
U+229E4	戡	 戈大呈
U+24CC0	戕	 戈纟田
U+254DB	磔	 石  戈一幺
U+276E6	裁	 戈市衣

U+27D92	戡	𠄎𠄎戈口貝
U+27F6B	越	𠄎走𠄎𠄎戈口日
NC	擻	𠄎才𠄎𠄎戈卅韭
NC	輶	𠄎車𠄎𠄎戈口月

5. Ideographic Description Character Horizontal Reflection

Code	Character	IDS
U+23944	𠄎	↔正
U+23957	𠄎	𠄎止↔止
U+23960	𠄎	𠄎↔止止
U+20141	𠄎	↔亡
U+2009C	𠄎	𠄎丿↔止
U+2456A	𠄎	↔𠄎

U+25E28	𠂔	↔ 𠂔
U+268E9	𠂔	𠂔 臣 ↔ 臣
U+81E6	𠂔	𠂔 ↔ 臣 臣
U+81E9	𠂔	𠂔 𠂔 ↔ 臣 臣 𠂔
U+22374	𠂔	𠂔 𠂔 ↔ 臣 臣 𠂔
U+28F5D	𠂔	𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 ↔ 𠂔
U+28F61	𠂔	𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 ↔ 𠂔
NC	𠂔	↔ 巴
U+28668	𠂔	↔ 邑
U+286DC	𠂔	𠂔 ↔ 邑 邑
NC	𠂔	↔ 弓
U+2BE2C	𠂔	𠂔 弓 ↔ 弓

6. Ideographic Description Character One Hundred Eighty Degree

Rotation

Code	Character	IDS
U+20114	𠂇	𠂇予
U+2010F	𠂆	𠂆了
U+221B4	𠂇	𠂇么𠂇了
NC	𠂇	𠂇或或
NC	𠂇	𠂇或𠂇或
NC	𠂇	𠂇或𠂇或
NC	𠂇	𠂇或𠂇或
U+22A0B	𠂇	𠂇或𠂇或
U+23952	𠂇	𠂇止止
NC	𠂇	𠂇虎

NC	𧇧	𧇧 虎 虎
NC	𧇨	𧇨 虎 虎
U+27E42	𧇩	𧇩 虎 虎 貝
U+2C88C	𧇪	𧇪 虎 虎 見
NC	𧇫	𧇫 木 月 月

**ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646²**

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

A. Administrative

1. Title:	<i>Proposal of 4 IDCs</i>	
2. Requester's name:	<i>Tao Yang, Eiso Chan, Wang Yifan</i>	
3. Requester type (Member body/Liaison/Individual contribution):	<i>Individual contribution</i>	
4. Submission date:	<i>2018-01-04</i>	
5. Requester's reference (if applicable):	<i>ISO/IEC JTC 1/SC 2/WG 2/IRG N2273</i>	
6. Choose one of the following:		
This is a complete proposal:		<i>Yes</i>
(or) More information will be provided later:		

B. Technical – General

1. Choose one of the following:		
a. This proposal is for a new script (set of characters):		<i>No</i>
Proposed name of script:		
b. The proposal is for addition of character(s) to an existing block:		<i>Yes</i>
Name of the existing block:	<i>Ideographic Description Characters</i>	
2. Number of characters in proposal:		<i>4</i>
3. Proposed category (select one from below - see section 2.2 of P&P document):		
A-Contemporary <input checked="" type="checkbox"/>	B.1-Specialized (small collection) <input type="checkbox"/>	B.2-Specialized (large collection) <input type="checkbox"/>
C-Major extinct <input type="checkbox"/>	D-Attested extinct <input type="checkbox"/>	E-Minor extinct <input type="checkbox"/>
F-Archaic Hieroglyphic or Ideographic <input type="checkbox"/>	G-Obscure or questionable usage symbols <input type="checkbox"/>	
4. Is a repertoire including character names provided?		<i>Yes</i>
a. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document?		<i>Yes</i>
b. Are the character shapes attached in a legible form suitable for review?		<i>Yes</i>
5. Fonts related:		
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?	<i>Dr. Ken Lunde</i>	
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):	<i>Dr. Ken Lunde(lunde@adobe.com)</i>	
6. References:		
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?		
b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?		
7. Special encoding issues:		
Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?		

8. Additional Information:

Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database (<http://www.unicode.org/reports/tr44/>) and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

² Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? If YES explain	<i>No</i>
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? If YES, with whom? If YES, available relevant documents:	<i>No</i>
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference:	<i>Yes</i> <i>ISO/IEC JTC 1/SC 2/WG 2/IRG N2273</i>
4. The context of use for the proposed characters (type of use; common or rare) Reference:	<i>common</i>
5. Are the proposed characters in current use by the user community? If YES, where? Reference:	<i>Yes</i>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? If YES, is a rationale provided? If YES, reference:	<i>Yes</i> <i>Yes</i>
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	<i>Yes</i>
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to, or could be confused with, an existing character? If YES, is a rationale for its inclusion provided? If YES, reference:	<i>No</i>
11. Does the proposal include use of combining characters and/or use of composite sequences? If YES, is a rationale for such use provided? If YES, reference: Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? If YES, reference:	<i>No</i>
12. Does the proposal contain characters with any special properties such as control function or similar semantics? If YES, describe in detail (include attachment if necessary)	<i>No</i>
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified? If YES, reference:	<i>No</i>