

Title: CJK & Unihan Working Group Recommendations for UTC Meeting #188

Author: Ken Lunde

Date: 2026-07-16

This document provides the CJK & Unihan Working Group recommendations for UTC Meeting #188, based on a meeting that took place on 2026-07-10 from 6 to 8PM PDT, which was attended by Yi Bai, Eiso Chan, Ned Holbrook, Ken Lunde, William Nelson, Roozbeh Pournader, CheonHyeong Sim, Hong Sng, Stephan Hyeonjun Stiller, Harald Tveiten, Yifán Wáng, and Jiping Zhao via Webex. The Chair of the [CJK & Unihan Working Group](#), Ken Lunde, chaired the meeting.

The CJK & Unihan Working Group reviewed public feedback and documents that were received since UTC Meeting #187 took place. Comments are marked in **green**, and Recommendations to the UTC are marked in **red**. A “plain text” Copy&Paste-ready version of the Recommendations is also provided as the PDF attachment named *recommendations-20260710.txt*.

PRI #520 Feedback

No additional [PRI #520](#) (*Draft UAX #60*) feedback was submitted prior to its closing date of 2026-07-07.

PRI #534 Feedback

The seven items of [PRI #534](#) (*Proposed Update UAX #38*) feedback that are in this section were reviewed and discussed by the WG, and for convenience, the following data files, which are PDF attachments, include the recommended Unihan database additions and changes based on them:

- *Unihan_IRGSources-changes-20260710.txt*
- *Unihan-additions-20260710.txt*
- *kMandarin-changes-20260710.txt*

With the exception of the *kMandarin* property value changes, the recommended Unihan database additions and changes are also shown inline, following the **Recommendations**.

01) ID20260517103203

Date/Time: Sun May 17 10:32:03 PT 2026

ReportID: ID20260517103203

Name: Ng Koon Hang

Report Type: Report Error in Publication/Data

Opt Subject: **Suggested new entry for kStrange (PRI #534)**

I suggest that a new kStrange entry be added to 芴 U+2B1E7:

U+2B1E7 kStrange I:U+82A9

Rationale: The character 𪗇 U+2B1E7 looks like 𪗇 U+82A9 with the middle stroke in the 今 component missing, and it shares the same pronunciation as 𪗇.

Comments: The WG reviewed and discussed this feedback, and agreed that “l:U+82A9” is an appropriate *kStrange* property value for U+2B1E7 𪗇. The WG therefore recommends adding this property value to U+2B1E7 𪗇 with Unicode Version 18.0 as the target.

Recommendations: The WG recommends to the UTC the following disposition ➡

Action Item for Ken Lunde, CJK: Update the UniHan database to add “l:U+82A9” as the *kStrange* property value of U+2B1E7, based on PRI #534 feedback [ID20260517103203] and Section 01 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 01 of document L2/26-157. See PRI #534 feedback [ID20260517103203].

New:

U+2B1E7 *kStrange* l:U+82A9

02) ID20260517144156

Date/Time: Sun May 17 14:41:56 PT 2026

ReportID: ID20260517144156

Name: Wenjie Dong

Report Type: Report Error in Publication/Data

Opt Subject: **kRSUnicode value for U+2BB89**

The current *kRSUnicode* value for U+2BB89 (TD-2437) is 32.9 (土部 9畫).

However, according to official data released on the CNS 11643 website, the radical assigned to TD-2437 is 土. (<https://www.cns11643.gov.tw/wordView.jsp?ID=861239>)

After investigation, we found that the existing radical classification of this character results from the former unification with the now-withdrawn source GCYY-00338. According to the data submitted by TCA in IRG N892 and IRG N1276, The original radical assigned for TD-2437 was 土. During the preparation of CJK Ext.D V2.0 (IRG N1341), TD-2437 was unified with GCYY-00338 and adopted the radical data of GCYY-00338, which is 32.9. Later, GCYY-00338 was officially withdrawn in IRG N1531, yet its inherited radical information was not adjusted back to the original radical 土 assigned for TD-2437 (see CJK Ext.D V5.0, IRG N1549).

Therefore, for better matching with data from CNS 11643 Official Website, we propose updating the *kRSUnicode* value for U+2BB89 from 32.9 to 33.9.

Comments: The WG reviewed and discussed this feedback, and agreed with the suggested *kRSUnicode* property value change, which should be targeted for Unicode Version 18.0. In addition, one of the WG members noted that China is proposing to horizontally extend U+2BB89 埤 in document [IRG N2929](#), but it would be better for China to remove it due to unification issues, then submit GCW-83758 (aka GCYY-00338) for a future IRG working set.

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept the informative kRSUnicode property value change for U+2BB89, based on PRI #534 feedback [ID20260517144156] and Section 02 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to change the kRSUnicode property value of U+2BB89, based on PRI #534 feedback [ID20260517144156] and Section 02 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Convey to China feedback on document IRG N2929, based on the CJK & UniHan Working Group comments in Section 02 of document L2/26-157. See PRI #534 feedback [ID20260517144156].

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 02 of document L2/26-157. See PRI #534 feedback [ID20260517144156].

Current:

U+2BB89 kRSUnicode 32.9

Adjusted:

U+2BB89 kRSUnicode **33.9**

03) ID20260615125721

Date/Time: Mon Jun 15 12:57:21 PT 2026

ReportID: ID20260615125721

Name: 杨先生

Report Type: Report Error in Publication/Data

Opt Subject: [UniHan] U+2DD0A和U+3DFB的普通话发音问题

一个是简化字形，另一个是繁体字形，为什么这一个读mó另一个却读wú?

Readings

Data type	Value
kCantonese	mou4
kDefinition	(same as 無) without, none, a negative (a variant 燜) to burn food in cooking; singed; burnt
kMandarin	mó

Readings

Data type	Value
kCantonese	mou4
kDefinition	(same as 無) without, none, a negative (a variant 燜) to burn food in cooking; singed; burnt
kJapanese	ア コ
kMandarin	wú

Comments: The WG reviewed and discussed this feedback—submitted in Chinese that roughly translates into English as “One is the simplified form, and the other is the traditional form. Why is one read ‘mó’ while the other is read ‘wú?’”—and agreed that there is an apparent discrepancy between the *kMandarin* property values of U+2DD0A 炆 (*mó*) and U+3DFB 燠 (*wú*),

which form a simplified/traditional pair. This discrepancy was due to the CLDR-TC not agreeing with the recommended *kMandarin* property value for U+2DD0A 𪛐, *wú*, in document [L2/22-027](#) (Lunde). See page 114 of document [L2/24-209](#) for the CLDR-TC's response for that particular ideograph, which is highlighted in red. Upon further checking, the WG found 163 additional discrepancies, so the WG recommends that the CLDR-TC double-check all 164 of them, then report back to the UTC.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Sharon Chen, CJK: Ask the CLDR-TC to check 164 *kMandarin* property value discrepancies, then report back to the UTC. See PRI #534 feedback [ID20260615125721] and Section 03 of document L2/26-157.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 03 of document L2/26-157. See PRI #534 feedback [ID20260615125721].

04) ID20260628220827

Date/Time: Sun June 28 22:08:27 PT 2026

ReportID: ID20260628220827

Name: Lee Collins

Report Type: Report Error in Publication/Data

Opt Subject: **U+2C07B has wrong radical in Unihan data**

U+2C07B means a kind of sausage in Vietnamese. The current radical is 74 (moon), it should be 130 (meat).

Comments: The WG reviewed and discussed this feedback, and agreed with the suggested *kRSUnicode* property value change, which should be targeted for Unicode Version 18.0.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the informative *kRSUnicode* property value change for U+2C07B, based on PRI #534 feedback [ID20260628220827] and Section 04 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the Unihan database to change the *kRSUnicode* property value of U+2C07B, based on PRI #534 feedback [ID20260628220827] and Section 04 of document L2/26-157, for Unicode Version 18.0.

Current:

U+2C07B	<i>kRSUnicode</i>	74.6
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Adjusted:

U+2C07B	<i>kRSUnicode</i>	130.6
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05) ID20260629042814

Date/Time: Mon June 29 04:28:14 PT 2026

ReportID: ID20260629042814

Name: Ng Koon Hang

Report Type: Report Error in Publication/Data

Opt Subject: **Addition of kJinmeiyōKanji for U+52D2 勒**

It is announced that 勒 has been added to Jinmeiyō Kanji on 26 June 2026. As a result, a new kJinmeiyōKanji value needs to be added to U+52D2 勒.

U+52D2 kJinmeiyōKanji 2026

Source: <https://www.sankei.com/article/20260626-ET3LTBEWGBGWVJKRKJU24T6JWI/>

Comments: The WG reviewed and discussed this feedback, and agreed that “2026” should be added as the *kJinmeiyōKanji* property value for U+52D2 勒. The WG therefore recommends adding this property value to U+52D2 勒, along with updating the Description of the provisional *kJinmeiyōKanji* property in UAX #38 to account for the 2026 addition, with Unicode Version 18.0 as the target.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Update the UniHan database to add “2026” as the kJinmeiyōKanji property value of U+52D2, based on PRI #534 feedback [ID20260629042814] and Section 05 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the Description of the kJinmeiyōKanji property in UAX #38, based on PRI #534 feedback [ID20260629042814] and Section 05 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 05 of document L2/26-157. See PRI #534 feedback [ID20260629042814].

New:

U+52D2 kJinmeiyōKanji 2026

06) ID20260630175343

Date/Time: Tue June 30 17:53:43 PT 2026

ReportID: ID20260630175343

Name: Harriet Riddle

Report Type: Report Error in Publication/Data

Opt Subject: 534

U+9832 kZVariant U+2BE14

U+2BE14 kZVariant U+9832

(UCV #307 (level 1). UCV #1 (level 2) has already been applied between G-source and T-source glyphs at U+2BE14.)

U+7C5C kSpoofingVariant (or kZVariant?) U+2BF9F

U+2BF9F kSpoofingVariant (or kZVariant?) U+7C5C

(Relevant level-2 UCV is UCV #307f; the Korean reading of U+2BF9F given on zi.tools is very similar to the Korean reading of U+7C5C, but the Mandarin reading of U+2BF9F per the CNS 11643 website is very different from that of U+7C5C.)

Comments: The WG reviewed and discussed this feedback, and agreed that the provisional *kZVariant* property is more suitable for both pairs, which should be targeted for Unicode Version 18.0. They should also be added to UTS #39 as new confusable pairs.

The WG noted that U+2BE14 𪛗 is similar to VS19 (*Moji_Joho MJ028212*) and VS20 (*Moji_Joho MJ028213*) of U+9832 𪛖 as shown below:

9832	𪛖	𪛗	𪛘						
	E0101 Moji_Joho MJ028211	E0102 Moji_Joho MJ028212	E0103 Moji_Joho MJ028213						
9832 頁 181.7	𪛖	𪛖	𪛖	𪛖	𪛖	𪛖	2BE14 𪛗 54.13	𪛗	𪛗
	G3-6072	HB2-EC5B	T2-5B67	J14-7C3A	K2-6D52	KP1-86E2		GCES1-00280	TD-6954

Recommendations: The WG recommends to the UTC the following disposition ➡

Action Item for Ken Lunde, CJK: Update the UniHan database to add kZVariant property values to U+7C5C, U+9832, U+2BE14, and U+2BF9F, based on PRI #534 feedback [ID20260630175343] and Section 06 of document L2/26-157, for Unicode Version 18.0.

Action Item for Josh Hadley, Roozbeh Pournader, PAG: Update the UTS #39 confusables.txt data file by adding two new confusable pairs, U+7C5C/U+2BF9F and U+9832/U+2BE14, based on PRI #534 feedback [ID20260630175343] and Section 06 of document L2/26-157, for a future version of the standard.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 06 of document L2/26-157. See PRI #534 feedback [ID20260630175343].

Note: This feedback demonstrates that feedback submitters should make an effort to more clearly specify which particular addition or change is being proposed, and should not be left to a UTC working group or the UTC to figure out.

New:

U+7C5C	kZVariant	U+2BF9F
U+9832	kZVariant	U+2BE14
U+2BE14	kZVariant	U+9832
U+2BF9F	kZVariant	U+7C5C

07) ID20260706081427

Date/Time: Mon July 06 08:14:27 PT 2026

ReportID: ID20260706081427

Name: Ken Lunde

Report Type: Report Error in Publication/Data

Opt Subject: **534**

Eiso and I determined that the kIRG_GSource property value of U+32CDD 𪛗石安 in Extension J, G7-462A, is incorrect. That source reference corresponds to the ideograph at position 38-10 in the G7 source, which is actually U+33154 𪛗酉安, also in Extension J. Its kIRG_GSource property value is GKJ-00945. U+32CDD 𪛗石安 corresponds to the ideograph at position 38-85 in the G7 source, so its kIRG_GSource property value should be changed to G7-4675.

Comments: The WG reviewed and discussed this feedback, and agreed that the normative kIRG_GSource property value of U+32CDD 𪛗 should be changed, also noting that China agreed with the change, which should be targeted for Unicode Version 18.0.

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept the normative kIRG_GSource property value change for U+32CDD, based on PRI #534 feedback [ID20260706081427] and Section 07 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to change the kIRG_GSource property value of U+32CDD, based on PRI #534 feedback [ID20260706081427] and Section 07 of document L2/26-157, for Unicode Version 18.0.

Current:

U+32CDD	kIRG_GSource	G7-462A
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Adjusted:

U+32CDD	kIRG_GSource	G7-46 75
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PRI #544 Feedback

The single item of [PRI #544](#) (*Other Feedback for UTC #188*) feedback that is in this section was reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachment, includes the recommended UAX #45 *USourceData.txt* data file changes based on it:

- *USource-changes-20260710.txt*

The recommended UAX #45 *USourceData.txt* data file changes are also shown inline, following the **Recommendations**.

08) ID20260614092409

Date/Time: Sun June 14 09:24:09 PT 2026

ReportID: ID20260614092409

Name: Ken Lunde

Report Type: Report Error in Publication/Data

Opt Subject: **IDSes in UAX #45**

The following UAX #45 records should be changed to add or update their IDSes from:

UTC-00970;ExtG;U+30008;1.4;;;UTCDoc L2/12-333 2;;5;1

UTC-01044;ExtG;U+30AB1;119.5;;米? ;UTCDoc L2/12-333 76;;11;1

UK-01462;ExtB;U+24261;86.7;;凹? ;UTCDoc L2/15-260 150;;11;2

UK-01653;ExtG;U+30DCD;154.11;;? 貝;UTCDoc L2/15-260 341;;18;1

to:

UTC-00970;ExtG;U+30008;1.4;;丰マ;UTCDoc L2/12-333 2;;5;1

UTC-01044;ExtG;U+30AB1;119.5;;米专;UTCDoc L2/12-333 76;;11;1

UK-01462;ExtB;U+24261;86.7;;凹勺;UTCDoc L2/15-260 150;;11;2

UK-01653;ExtG;U+30DCD;154.11;;臧貝;UTCDoc L2/15-260 341;;18;1

That is all.

Comments: The WG reviewed and discussed this feedback, and agreed that an IDS should be added to UTC-00970, and that the IDSes of UTC-01044, UK-01462, and UK-01653 should be updated, which should be targeted for Unicode Version 18.0.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Change the UAX #45 records for UTC-00970, UTC-01044, UK-01462, and UK-01653, based on PRI #544 feedback [ID20260614092409] and Section 08 of document L2/26-157, for Unicode Version 18.0.

Current:

UTC-00970;ExtG;U+30008;1.4;;;UTCDoc L2/12-333 2;;5;1

UTC-01044;ExtG;U+30AB1;119.5;;米? ;UTCDoc L2/12-333 76;;11;1

UK-01462;ExtB;U+24261;86.7;;凹? ;UTCDoc L2/15-260 150;;11;2

UK-01653;ExtG;U+30DCD;154.11;;? 貝;UTCDoc L2/15-260 341;;18;1

Adjusted:

UTC-00970;ExtG;U+30008;1.4;;丰マ;UTCDoc L2/12-333 2;;5;1

UTC-01044;ExtG;U+30AB1;119.5;;米专;UTCDoc L2/12-333 76;;11;1

UK-01462;ExtB;U+24261;86.7;;凹勺;UTCDoc L2/15-260 150;;11;2

UK-01653;ExtG;U+30DCD;154.11;;臧貝;UTCDoc L2/15-260 341;;18;1

PRI #545 Feedback

The single item of [PRI #545](#) (*Proposed Update UAX #11*) feedback that is in this section was reviewed and discussed by the WG.

09) ID20260426150711

Date/Time: Sun April 26 15:07:11 PT 2026

ReportID: ID20260426150711

Name: Vikki McDonough

Report Type: Report Error in Publication/Data

Opt Subject: **UAX #11 East Asian Width**

UAX #11 (current version <https://www.unicode.org/reports/tr11/tr11-44.html> for Unicode 17.0.0) states, as part of section 6.1:

"Unassigned code points in ranges intended for CJK ideographs are classified as Wide. Those ranges are:

- the CJK Unified Ideographs block, 4E00..9FFF
- the CJK Unified Ideographs Extension A block, 3400..4DBF
- the CJK Compatibility Ideographs block, F900..FAFF
- the Supplementary Ideographic Plane, 20000..2FFFF
- the Tertiary Ideographic Plane, 30000..3FFFF"

However, the CJK Unified Ideographs and CJK Unified Ideographs Extension A blocks no longer contain any unassigned codepoints (the last remaining space in Extension A having been assigned in Unicode 13.0, and the last remaining space in the URO in Unicode 14.0), making the continued reference to unassigned code points in these blocks erroneous; the only remaining unassigned code points classified as Wide are those in CJK Compatibility Ideographs, the SIP, and the TIP, and the list in section 6.1 of UAX #11 should be trimmed down to just the three lines for those three ranges.

Comments: The WG reviewed and discussed this feedback, and noted that the 2026-04-26 draft of Proposed Updated UAX #11 reflects the feedback, and additionally adjusts the final code points for Planes 2 and 3 to be 2FFFD and 3FFFD, respectively, so no UTC action is necessary other than to convey to the feedback submitter the comments in this section.

Recommendations: The WG recommends to the UTC the following disposition ➡

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 09 of document L2/26-157. See PRI #545 feedback [ID20260426150711].

PRI #548 Feedback

The two items of [PRI #548](#) (*Unicode 18.0 Beta Review*) feedback that are in this section were reviewed and discussed by the WG.

10) ID20260702100216

Date/Time: Thu July 02 10:02:16 PT 2026

ReportID: ID20260702100216

Name: Ken Lunde

Report Type: Public Review Issue

Opt Subject: **PRI #548**

TCA reported on 2026-07-02 that the 心 component of the T-source glyphs for U+20CB9, U+21731, U+21DDE, U+22681, and U+22B44 is malformed, and provided an updated font to Michel as an attachment to the email. I confirmed that this issue was introduced in the Extension B code charts for Unicode Version 6.0 (2010).

Comments: The WG reviewed and discussed this feedback, and agreed that the five T-source representative glyphs should be updated. Although Michel Suignard has received the updated glyphs from TCA and confirmed the fixes—by producing a post-Unicode Version 18.0 Beta draft CJK Unified Ideographs Extension B code chart, meaning that no UTC action is necessary—the WG would like a consensus to be recorded for these T-source representative glyph changes, which should be targeted for Unicode Version 18.0. The WG also noted that glyph errata are not necessary due to the mechanical nature of the issue.

The code chart excerpts below, which exhibit the T-source representative glyph issues, are from Unicode Version 17.0:

20CB9 口 30.7	𠂔	𠂔	21731 女 38.7	𡗗	𡗗	21DDE 山 46.7	𡗗	𡗗	22681 心 61.7	𡗗	𡗗	22B44 手 64.7	𡗗	𡗗
GKX-0190.30	T5-2C56	T5-2C56	GKX-0262.21	T5-2C72	T5-2C72	GKX-0311.26	T5-2D2B	T5-2D2B	GKX-0388.02	T5-2D51	T5-2D51	GKX-0434.04	T5-2D67	T5-2D67
JMJ-032268	V2-703F	V2-703F	JMJ-033607			JMJ-034578	KP1-3F63	KP1-3F63	JMJ-036094	V0-356F	V0-356F	JMJ-036801	VN-22B44	VN-22B44

The code chart excerpts below, which show the corrected T-source representative glyphs, are from Unicode Version 18.0 (post-Beta):

20CB9 口 30.7	𠂔	𠂔	21731 女 38.7	𡗗	𡗗	𡗗	21DDE 山 46.7	𡗗	𡗗	22681 心 61.7	𡗗	𡗗	22B44 手 64.7	𡗗	𡗗	𡗗
GKX-0190.30	T5-2C56	T5-2C56	JMJ-032268	GKX-0262.21	T5-2C72	JMJ-033607	GKX-0311.26	T5-2D2B	JMJ-034578	GKX-0388.02	T5-2D51	JMJ-036094	GKX-0434.04	T5-2D67	JMJ-036801	JMJ-036801
V2-703F							KP1-3F63			V0-356F			VN-22B44			

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept the T-source representative glyph changes for U+20CB9, U+21731, U+21DDE, U+22681, and U+22B44, based on PRI #548 feedback [ID20260702100216] and Section 10 of document L2/26-157, for Unicode Version 18.0.

11) ID20260706210943

Date/Time: Mon July 06 21:09:43 PT 2026

ReportID: ID20260706210943

Name: suzuki toshiya

Report Type: Public Review Issue

Opt Subject: **PRI 548: Enhancement for SealSources.txt [CJK]**

Dear UTC experts,

I want to propose an enhancement to SealSources.txt documenting duplicated-and-unencoded source references in Seal.

Currently, SealSources.txt does not explicitly provide information on which specific duplicated entries from the original Shuowen Jiezi (SWJZ) sources were omitted from the Unicode code chart to prevent duplicate encoding.

While there is no need to modify the code chart itself, implementers and researchers frequently need to track exactly which historical source entries (e.g., from the THX, CCZ, QJZ, or DYC editions) were identified as duplicates and consequently dropped from the repertoire.

Although the multi-valued kSEAL_Rad property serves as an initial indicator that a given code point corresponds to multiple radicals in SWJZ, it does not specify the precise structural locations or source indexes of the omitted duplicate entries. Providing this missing source-reference data—either as an informative note in the text or as a complementary data field—would significantly enhance the traceability and utility of the Seal dataset.

For example, current SealSources.txt gives some properties to U+3D3DD, like:

U+3D3DD kSEAL_THXSrc TH-00939

U+3D3DD kSEAL_CCZSrc C-00972

U+3D3DD kSEAL_QJZSrc K-00945

U+3D3DD kSEAL_DYCSrc D-00934

U+3D3DD kSEAL_MCJK 20BA2

U+3D3DD kSEAL_Rad 22.3D374 76.3D888

Here, U+3D3DD is a character encoding TH-00939, C-00971, etc under the radical 23.3D374, and it unifies another entry under the radical 74.3D888. But it is hard to identify which SWJZ entry was omitted.

I propose to add something like:

U+3D3DD kSEAL_DupSrc TH-02078 C-02157 K-02083 D-02061

Regards,

suzuki toshiya

Comments: The WG reviewed and discussed this feedback, and agreed that adding a new *kSEAL_DupSrc* property is something that should be considered after Unicode Version 18.0, that it needs to be submitted to the UTC as a formal proposal document, and that a complete set of property data needs to be included in the proposal.

Recommendations: The WG recommends to the UTC the following disposition ➡

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 11 of document L2/26-157. See PRI #548 feedback [ID20260706210943].

UAX #38 / Unihan Database Documents

The two UTC documents in this section were reviewed and discussed by the WG, and for convenience, the following data files, which are PDF attachments, include the recommended *RSIndex.txt* data file and Unihan database changes based on them:

- *RSIndexV18Beta.txt*
- *Unihan_IRGSources-changes-20260710.txt*

12) L2/26-134: Proposal to enhance the syntax of the RSIndex.txt data file

Comments: The WG reviewed and discussed this document, and agreed that in lieu of using one, two, or three instances of “|” (U+007C | VERTICAL LINE) to separate the traditional and the three types of simplified radicals in the [RSIndex.txt](#) data file, it would be better to use semicolons as delimiters, similar to UCD data files. This data file was introduced in Unicode Version 16.0 (2024), so the WG suspects that the number of impacted users should be relatively low. The WG agreed that the benefits of delimiting the traditional and the three types of simplified radicals outweigh any need to preserve the current syntax.

The following prototypical *RSIndex.txt* data file lines, which should capture all possible combinations of traditional and simplified radicals, show the syntax change as proposed in the document (changes are highlighted in **red**):

211.0	U+9F52	U+2398A	U+2398B	U+2EBDD		U+9F7F		U+6B6F	#	齒𪔐𪔑𪔒𪔓𪔔
212.0	U+9F8D	U+33473	U+F9C4		U+9F99		U+7ADC		U+31DE5	# 龍𪔕龍𪔖龍𪔗龍𪔘
212.2	U+9F8E	U+FAD9		U+2EC04	#	龐𪔙𪔚				
212.7	U+2A6A0	U+2A6A1	U+2B731		U+2B3FD	U+2CE99	#	𪔛𪔜𪔝𪔞𪔟		
212.10		U+2EE5D	#	𪔠						
212.16	U+9F96	#	𪔡							
212.20		U+2E13F	#	𪔢						

The following are the same prototypical data file lines, but shown using semicolons as delimiters (highlighted in **red**):

211.0 ; U+9F52 U+2398A U+2398B U+2EBBD ; U+9F7F ; U+6B6F ; # 齒𪔐𪔑𪔒𪔓
212.0 ; U+9F8D U+33473 U+F9C4 ; U+9F99 ; U+7ADC ; U+31DE5 # 龍𪔔𪔕𪔖𪔗
212.2 ; U+9F8E U+FAD9 ; U+2EC04 ; ; # 𪔘𪔙𪔚
212.7 ; U+2A6A0 U+2A6A1 U+2B731 ; ; U+2B3FD U+2CE99 ; # 𪔛𪔜𪔝𪔞
212.10 ; ; U+2EE5D ; ; # 𪔟
212.16 ; U+9F96 ; ; ; # 𪔠
212.20 ; ; ; U+2E13F ; # 𪔡

See the *RSIndexV18Beta.txt* data file (PDF attachment) to see the syntax change as recommended by the WG, which is based on the *kRSUnicode* property values in Unicode Version 18.0 Beta, and which should be targeted for Unicode Version 18.0.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the syntax change for the RSIndex.txt data file, based on document L2/26-134 (Lunde), and as amended in Section 12 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the RSIndex.txt data file, based on document L2/26-134, and as amended in Section 12 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Whistler, RMG: Update the Unicode Version 18.0 landing page to mention the syntax change of the RSIndex.txt data file, based on document L2/26-134, and as amended in Section 12 of document L2/26-157.

13) L2/26-148: Proposal to change the kTotalStrokes property values of 458 ideographs

Comments: The WG reviewed and discussed this proposal, and agreed that the 458 *kTotalStrokes* property values should be changed to adhere to the values prescribed by the IRG in document IRG N2951 and in its [totalstrokes.txt](#) data file, and that these changes should be targeted for Unicode Version 18.0. As stated in the document, these changes, which are for ideographs that represent key components of other ideographs, are necessary before sweeping *kTotalStrokes* corrections can be made.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the 458 normative *kTotalStrokes* property value changes, based on document L2/26-148 (Lunde) and Section 13 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the Unihan database to change 458 *kTotalStrokes* property values, based on document L2/26-148 and Section 13 of document L2/26-157, for Unicode Version 18.0.

UTC Documents

The three UTC documents in this section were reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachment, includes the recommended UCD *StandardizedVariants.txt* data file additions based on them:

- *StandardizedVariants-20260710.txt*

The recommended UCD *StandardizedVariants.txt* data file additions are also shown inline, immediately following a **Consensus**.

14) L2/26-127: A second request for review of CJK confusables

Comments: The WG reviewed and discussed this proposal, and agreed that adding all of the new confusable pairs, which were derived from the UCD's *EquivalentUnifiedIdeograph.txt* data file, and from the *kSpoofingVariant* and *kZVariant* properties of the Unihan database, to UTS #39 is reasonable.

Recommendations: The WG recommends to the UTC the following disposition ➡

Action Item for Josh Hadley, Roozbeh Pournader, PAG: Update the UTS #39 confusables.txt data file by adding new confusable pairs, based on document L2/26-127 and Section 14 of document L2/26-157, for a future version of the standard.

15) L2/26-133R: Proposal to encode double ideographic full stop and two associated standardized variants

Comments: The WG reviewed and discussed this proposal, and agreed that adding this punctuation mark to the [Ideographic Symbols and Punctuation](#) block is reasonable, and that its character name (DOUBLE IDEOGRAPHIC FULL STOP), recommended code point (U+16FE6), and properties make sense. The WG also agreed that the two proposed Standardized Variation Sequences should be added, with Unicode Version 19.0 as the target for both the character and its SVSes.

The WG also noted that the horizontal and vertical glyphs of U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP should be added to Table 3 of UAX #50.

The WG originally reviewed document L2/26-133 (aka the non-R version), but requested that its author make a very small number of adjustments, such as adding a TOC due to the document's length, recommending a single representative glyph in Section 1, and clarifying that the two circles that form the glyph of this punctuation mark should touch. Document L2/26-133R was submitted three days later with the suggested changes, and is therefore referenced in this section's recommendations.

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP in the Ideographic Symbols and Punctuation block, based on document L2/26-133R (Chan) and Section 15 of document L2/26-157, for Unicode Version 19.0.

Consensus: Accept the following two new standardized variation sequences, based on document L2/26-133R (Chan) and Section 15 of document L2/26-157, for Unicode Version 19.0:

16FE6 FE00; corner-justified form; # DOUBLE IDEOGRAPHIC FULL STOP

16FE6 FE01; centered form; # DOUBLE IDEOGRAPHIC FULL STOP

Action Item for Ken Lunde, CJK: Provide a font for U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP to Michel Suignard and the Charts Working Group, based on document L2/26-133R and Section 15 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Prepare a Proposed Update of UAX #50 that adds the glyphs for U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP to Table 3, based on document L2/26-133R, and as amended in Section 15 of document L2/26-157, for Unicode Version 19.0.

Action Item for Michelle Perham, RMG: Post the Proposed Update of UAX #50 as a new PRI with 2026-10-05 as the closing date, based on document L2/26-133R and Section 15 of document L2/26-157.

Action Item for Ken Lunde, EDC: Prepare text for the Core Specification that describes U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP, based on document L2/26-133R and Section 15 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Whistler, RMG: Update the Pipeline page to add U+16FE6 DOUBLE IDEOGRAPHIC FULL STOP and two standardized variation sequences, based on document L2/26-133R and Section 15 of document L2/26-157, for Unicode Version 19.0.

Action Item for Markus Scherer, PAG: Add two variation sequences to StandardizedVariants.txt, based on document L2/26-133R and Section 15 of document L2/26-157, for Unicode Version 19.0.

Action Item for Michel Suignard, CHARTS: Add two variation sequences and their representative glyphs to the code chart for the Ideographic Symbols and Punctuation block, based on document L2/26-133R and Section 15 of document L2/26-157, for Unicode Version 19.0.

16) L2/26-136: Proposal to encode WHITE IDEOGRAPHIC COMMA

Comments: The WG reviewed and discussed this proposal, and agreed that adding this punctuation mark to the [Ideographic Symbols and Punctuation](#) block is reasonable, and that its character name (WHITE IDEOGRAPHIC COMMA), recommended code point (U+16FE5), and properties make sense. Unicode Version 19.0 is the recommended target. The Chair of the WG also solicited feedback from Japan, and they had no objections to this proposal.

The WG also noted that the horizontal and vertical glyphs of U+16FE5 WHITE IDEOGRAPHIC COMMA should be added to Table 3 of UAX #50. Although a TrueType font that provides its horizontal and vertical glyphs is a PDF attachment of the document, the WG would like to request that its glyphs be redesigned to better match the representative glyph of U+3001 、 IDEOGRAPHIC COMMA in the [CJK Symbols and Punctuation](#) block.

The WG also recommends that a cross reference to U+FE46 𪛗 WHITE SESAME DOT be added to the code charts, and that U+FE46 and U+16FE5 should be added to UTS #39 as a new confusable pair.

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept U+16FE5 WHITE IDEOGRAPHIC COMMA in the Ideographic Symbols and Punctuation block, based on document L2/26-136 (Kojitani) and Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Request the author of document L2/26-136 to redesign the glyphs for U+16FE5 WHITE IDEOGRAPHIC COMMA, then provide the font to Michel Suignard and the Charts Working Group, based on document L2/26-136, and as amended in Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Update UAX #50 to add the glyphs for U+16FE5 WHITE IDEOGRAPHIC COMMA to Table 3, based on document L2/26-136, and as amended in Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, EDC: Prepare text for the Core Specification that describes U+16FE5 WHITE IDEOGRAPHIC COMMA, based on document L2/26-136 and Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Whistler, RMG: Update the Pipeline page to add U+16FE5 WHITE IDEOGRAPHIC COMMA, based on document L2/26-136 and Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Whistler, CHARTS: Add a cross reference to U+FE46 WHITE SESAME DOT to the entry for U+16FE5 WHITE IDEOGRAPHIC COMMA in NamesList.txt, based on document L2/26-136, and as amended in Section 16 of document L2/26-157, for Unicode Version 19.0.

Action Item for Josh Hadley, Roozbeh Pournader, PAG: Update the UTS #39 confusables.txt data file by adding U+FE46 and U+16FE5 as a new confusable pair, based on document L2/26-136, and as amended in Section 16 of document L2/26-157, for a future version of the standard.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/26-136 the CJK & Unihan Working Group comments in Section 16 of document L2/26-157.

IRG Documents

The three IRG documents in this section were reviewed and discussed by the WG, and for convenience, the following data files, which are PDF attachments, include the recommended Unihan database additions, changes, and removals based on them:

- *Components-20260710.txt*
- *Unihan_IRGSources-additions-20260710.txt*
- *Unihan_IRGSources-changes-20260710.txt*
- *Unihan_IRGSources-removals-20260710.txt*

The recommended Unihan database changes are also shown inline, immediately following the **Recommendations**.

17) IRG N2878R3: Final proposal to encode CJK Unified Ideographs Components [WG 2 N5358]

Comments: The WG reviewed and discussed this proposal, which was accepted for Amendment 1 of ISO/IEC 10646 Seventh Edition based on Recommendation M73.06 on page four of document WG 2 N5354. This proposal is to standardize two new CJK Unified Ideographs blocks as follows:

- **CJK Unified Ideographs Components-A** (119): 2FA20..2FA96 — block: 2FA20..2FA9F
- **CJK Unified Ideographs Components-B** (375): 2FAA0..2FC16 — block: 2FAA0..2FC1F

The WG would like to point out that the block names include “CJK Unified Ideographs,” because they are intended to be treated as normal Han ideographs despite serving as components of Han ideographs. In other words, each character in these two new blocks is associated with one or more IRG sources, along with other Unihan database properties, such as *kRSUnicode* and *kTotalStrokes*, and also uses algorithmically-derived names per generative rule NR2 as described in Section 4.8.1, “Unicode Name Property,” of the *Core Specification*.

The WG recommends that these two new blocks be targeted for Unicode Version 19.0, due to being accepted for Amendment 1 of ISO/IEC 10646 Seventh Edition. As a result, a new PRI should be issued for a Proposed Update of UAX #38 that adds the two new blocks to the table in Section 4.4, and also adds the following four new source prefixes:

- *kIRG_GSource*: GCP-\\d{5} & GCW-\\d{5} (present in [IRG Working Set 2024](#))
- *kIRG_HSource*: HCP-\\d{5}
- *kIRG_TSource*: TCP-\\d{5}

And for the benefit of Ken Whistler’s tools, the following CJK Unified Ideographs extension block ranges should be added:

```
#define CJK_COMPONENTA_FIRST (0x2FA20)
#define CJK_COMPONENTA_LAST  (0x2FA96)
#define CJK_COMPONENTB_FIRST (0x2FAA0)
#define CJK_COMPONENTB_LAST  (0x2FC16)
```

The Core Specification should also be updated to document these two new blocks.

Recommendations: The WG recommends to the UTC the following disposition ➡

Consensus: Accept 494 CJK Unified Ideographs in the new CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks with code point ranges U+2FA20..U+2FA96 (block: U+2FA20..U+2FA9F) and U+2FAA0..U+2FC16 (block: U+2FAA0..U+2FC1F), respectively, along with their provided normative IRG source references and informative properties, based on documents IRG N2878R3 (China & TCA) and WG 2 N5358 (China & TCA), and Section 17 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to add the CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Prepare a Proposed Update of UAX #38 that adds the CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks to Section 4.4, to document the new “GCP” and “GCW” source prefixes for the *kIRG_GSource* property, to document the new “HCP” source prefix for the *kIRG_HSource* property, and to document the new “TCP” source prefix for the *kIRG_TSource* property, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157, for Unicode Version 19.0.

Action Item for Michelle Perham, RMG: Post the Proposed Update of UAX #38 as a new PRI with 2026-10-05 as the closing date, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157.

Action Item for Ken Whistler, RMG: Update the Pipeline page to add the CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Whistler, RMG: Add the CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks to the Alpha review notes for Unicode Version 19.0, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157.

Action Item for Jan Kučera, SEW: Update the Roadmap for Plane 2 (SIP) to reflect accepted code points for the CJK Unified Ideographs Components-A (U+2FA20..U+2FA9F) and CJK Unified

Ideographs Components-B (U+2FAA0..U+2FC1F) blocks, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157.

Action Item for Ken Whistler, EDC: Update Table 4-8 of the Core Specification to add these two new blocks and their Rules (NR2) and Prefix Strings (“CJK UNIFIED IDEOGRAPH-”), based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, EDC: Update the Core Specification to add the CJK Unified Ideographs Components-A and CJK Unified Ideographs Components-B blocks, based on documents IRG N2878R3 and WG 2 N5358, and Section 17 of document L2/26-157, for Unicode Version 19.0.

18) IRG N2926: Proposal to establish a new normative *kIRG_SGSource* property [WG 2 N5359]

Comments: The WG reviewed and discussed this proposal, which was accepted for Amendment 1 of ISO/IEC 10646 Seventh Edition based on Recommendation M73.15 on page seven of document WG 2 N5354. This proposal is to add a new normative *kIRG_SGSource* property for Singapore ideographs. The WG recommends that this new property be targeted for Unicode Version 19.0, due to being accepted for Amendment 1 of ISO/IEC 10646 Seventh Edition.

There are 225 *kIRG_GSource* property values that should be removed, and 226 *kIRG_SGSource* property values that should be added. The reason for the single property value discrepancy is because it was determined by the IRG that the current “Singapore” source for U+48B4 𪛆 (GS-2151) should be moved to U+9097 𪛇 (SG-2151). China is expected to prepare and submit a horizontal extension proposal to add *kIRG_GSource* property values to the 225 affected code points, all of which are in the [CJK Unified Ideographs Extension A](#) block.

Related to the above paragraph, the WG recommends that the single *kIRG_GSource* property value change shown below be targeted for Unicode Version 18.0, because it does not depend on the new *kIRG_SGSource* property to be established:

U+48B4	<i>kIRG_GSource</i>	GKX-1268.18
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Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the normative *kIRG_GSource* property value change for U+48B4, based on documents IRG N2926 (Chan) and WG 2 N5359 (Chan), and Section 18 of document L2/26-157, for Unicode Version 18.0.

Consensus: Accept the new normative *kIRG_SGSource* property, based on documents IRG N2926 (Chan) and WG 2 N5359 (Chan), and Section 18 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to change the *kIRG_GSource* property value of U+48B4, based on documents IRG N2926 and WG 2 N5359, and Section 18 of document L2/26-157, for Unicode Version 18.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to remove 225 *kIRG_GSource* property values, to add the new *kIRG_SGSource* property, and to add 226 new *kIRG_SGSource*

property values, based on documents IRG N2926 and WG 2 N5359, and Section 18 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Lunde, CJK: Update UAX #38 to add the new kIRG_SGSource property, based on documents IRG N2926 and WG 2 N5359, and Section 18 of document L2/26-157, for Unicode Version 19.0.

Action Item for John Wilcock, PAG: Add the kIRG_SGSource property to UAX #42, based on documents IRG N2926 and WG 2 N5359, and Section 18 of document L2/26-157, for Unicode Version 19.0.

Action Item for Ken Whistler, RMG: Add the new kIRG_SGSource property to the Alpha review notes for Unicode Version 19.0, based on documents IRG N2926 and WG 2 N5359, and Section 18 of document L2/26-157.

Current—*Unicode Version 18.0 Beta:*

U+48B4	kIRG_SGSource	GS-2151
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Adjusted—*Unicode Version 18.0:*

U+48B4	kIRG_SGSource	GKX-1268.18
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Remove—*Unicode Version 19.0:*

U+3435	kIRG_SGSource	GS-2269
U+3446	kIRG_SGSource	GS-2268
U+345B	kIRG_SGSource	GS-226C
U+3463	kIRG_SGSource	GS-226D
U+3469	kIRG_SGSource	GS-226F
U+347D	kIRG_SGSource	GS-226A
U+34AC	kIRG_SGSource	GS-2431
U+34AE	kIRG_SGSource	GS-2430
U+34C6	kIRG_SGSource	GS-2239
U+34CD	kIRG_SGSource	GS-2238
U+34E5	kIRG_SGSource	GS-2264
U+34EB	kIRG_SGSource	GS-2262
U+3508	kIRG_SGSource	GS-2263
U+3509	kIRG_SGSource	GS-2267
U+3574	kIRG_SGSource	GS-2351
U+3589	kIRG_SGSource	GS-2350
U+358A	kIRG_SGSource	GS-2352
U+3598	kIRG_SGSource	GS-234B
U+35AC	kIRG_SGSource	GS-2354
U+35AD	kIRG_SGSource	GS-2355
U+35C5	kIRG_SGSource	GS-2356
U+35CE	kIRG_SGSource	GS-234D
U+35DD	kIRG_SGSource	GS-2348
U+35DE	kIRG_SGSource	GS-234A
U+35F7	kIRG_SGSource	GS-234F
U+35FD	kIRG_SGSource	GS-2358
U+3603	kIRG_SGSource	GS-2349
U+3637	kIRG_SGSource	GS-236C
U+363C	kIRG_SGSource	GS-2369
U+3648	kIRG_SGSource	GS-236A
U+36BE	kIRG_SGSource	GS-2329
U+36C7	kIRG_SGSource	GS-232A
U+36C8	kIRG_SGSource	GS-2330
U+36C9	kIRG_SGSource	GS-2328

U+36DF	kIRG_GSource	GS-2327
U+36E0	kIRG_GSource	GS-2331
U+36E2	kIRG_GSource	GS-232B
U+36FF	kIRG_GSource	GS-232E
U+3700	kIRG_GSource	GS-232F
U+3701	kIRG_GSource	GS-232D
U+3714	kIRG_GSource	GS-232C
U+372B	kIRG_GSource	GS-2334
U+372C	kIRG_GSource	GS-2335
U+37C6	kIRG_GSource	GS-2122
U+3819	kIRG_GSource	GS-2125
U+3824	kIRG_GSource	GS-2121
U+384D	kIRG_GSource	GS-223B
U+38AD	kIRG_GSource	GS-2440
U+3954	kIRG_GSource	GS-2129
U+397B	kIRG_GSource	GS-212B
U+3999	kIRG_GSource	GS-2127
U+39DB	kIRG_GSource	GS-2240
U+39DC	kIRG_GSource	GS-2242
U+39DD	kIRG_GSource	GS-2249
U+3A2B	kIRG_GSource	GS-2244
U+3ACB	kIRG_GSource	GS-2424
U+3AE3	kIRG_GSource	GS-212D
U+3AEC	kIRG_GSource	GS-212F
U+3B11	kIRG_GSource	GS-212E
U+3B37	kIRG_GSource	GS-2146
U+3B39	kIRG_GSource	GS-2140
U+3B3D	kIRG_GSource	GS-2142
U+3B3E	kIRG_GSource	GS-2141
U+3B40	kIRG_GSource	GS-2145
U+3B4D	kIRG_GSource	GS-2177
U+3B56	kIRG_GSource	GS-216C
U+3B63	kIRG_GSource	GS-2169
U+3B67	kIRG_GSource	GS-213D
U+3B73	kIRG_GSource	GS-216D
U+3B89	kIRG_GSource	GS-216A
U+3BB7	kIRG_GSource	GS-2173
U+3BBC	kIRG_GSource	GS-2172
U+3BE7	kIRG_GSource	GS-2168
U+3BF4	kIRG_GSource	GS-216B
U+3BF6	kIRG_GSource	GS-2176
U+3BFC	kIRG_GSource	GS-2174
U+3C69	kIRG_GSource	GS-2376
U+3C90	kIRG_GSource	GS-2434
U+3C91	kIRG_GSource	GS-2433
U+3CBF	kIRG_GSource	GS-2362
U+3CC9	kIRG_GSource	GS-2361
U+3D1F	kIRG_GSource	GS-235C
U+3D21	kIRG_GSource	GS-2363
U+3D3E	kIRG_GSource	GS-2365
U+3D5A	kIRG_GSource	GS-2360
U+3D5F	kIRG_GSource	GS-235F
U+3D89	kIRG_GSource	GS-2366
U+3DA5	kIRG_GSource	GS-2157
U+3DA9	kIRG_GSource	GS-2153

U+3DB6	kIRG_GSource	GS-215E
U+3DBD	kIRG_GSource	GS-215D
U+3DCC	kIRG_GSource	GS-2158
U+3DDA	kIRG_GSource	GS-2154
U+3DDB	kIRG_GSource	GS-215B
U+3DE7	kIRG_GSource	GS-215C
U+3DE8	kIRG_GSource	GS-2155
U+3DFA	kIRG_GSource	GS-2161
U+3E06	kIRG_GSource	GS-215F
U+3E40	kIRG_GSource	GS-2425
U+3E48	kIRG_GSource	GS-2438
U+3E69	kIRG_GSource	GS-225E
U+3E86	kIRG_GSource	GS-225B
U+3E8D	kIRG_GSource	GS-225F
U+3E99	kIRG_GSource	GS-225C
U+3EBB	kIRG_GSource	GS-2230
U+3EBC	kIRG_GSource	GS-2231
U+3ECF	kIRG_GSource	GS-2235
U+3ED8	kIRG_GSource	GS-2232
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U+3EE2	kIRG_GSource	GS-2236
U+3EF3	kIRG_GSource	GS-2237
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U+401D	kIRG_GSource	GS-2131
U+4025	kIRG_GSource	GS-2133
U+408B	kIRG_GSource	GS-243E
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U+40DF	kIRG_GSource	GS-2251
U+4133	kIRG_GSource	GS-2254
U+4134	kIRG_GSource	GS-2255
U+4138	kIRG_GSource	GS-2256
U+4139	kIRG_GSource	GS-2436
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U+416A	kIRG_GSource	GS-2253
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U+4228	kIRG_GSource	GS-2336
U+4229	kIRG_GSource	GS-2337
U+4247	kIRG_GSource	GS-2338
U+428C	kIRG_GSource	GS-243D
U+4336	kIRG_GSource	GS-233D
U+433C	kIRG_GSource	GS-233B
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U+4341	kIRG_GSource	GS-2340
U+43A5	kIRG_GSource	GS-2373
U+445D	kIRG_GSource	GS-234C

U+4469	kIRG_GSource	GS-2139
U+446E	kIRG_GSource	GS-213A
U+4475	kIRG_GSource	GS-213F
U+4477	kIRG_GSource	GS-213C
U+447E	kIRG_GSource	GS-213B
U+4499	kIRG_GSource	GS-217A
U+44AE	kIRG_GSource	GS-2222
U+44AF	kIRG_GSource	GS-2223
U+44BF	kIRG_GSource	GS-2224
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U+4528	kIRG_GSource	GS-222C
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U+45BE	kIRG_GSource	GS-236F
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U+4632	kIRG_GSource	GS-227C
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U+4724	kIRG_GSource	GS-2162
U+4725	kIRG_GSource	GS-2163
U+4726	kIRG_GSource	GS-2164
U+4727	kIRG_GSource	GS-2167
U+4728	kIRG_GSource	GS-2166
U+4759	kIRG_GSource	GS-2427
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U+478C	kIRG_GSource	GS-2323
U+478E	kIRG_GSource	GS-2324
U+478F	kIRG_GSource	GS-2322
U+4790	kIRG_GSource	GS-2325
U+47B2	kIRG_GSource	GS-242F
U+47F2	kIRG_GSource	GS-2271
U+4800	kIRG_GSource	GS-2273
U+480C	kIRG_GSource	GS-2272
U+4816	kIRG_GSource	GS-2270
U+4837	kIRG_GSource	GS-2378
U+483A	kIRG_GSource	GS-2377
U+4878	kIRG_GSource	GS-235B

U+4882	kIRG_GSource	GS-235A
U+48D2	kIRG_GSource	GS-2152
U+497B	kIRG_GSource	GS-2444
U+497C	kIRG_GSource	GS-2445
U+497E	kIRG_GSource	GS-2447
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U+49B8	kIRG_GSource	GS-2321
U+49BF	kIRG_GSource	GS-214B
U+49C0	kIRG_GSource	GS-214E
U+49C8	kIRG_GSource	GS-214F
U+49E9	kIRG_GSource	GS-214D
U+49ED	kIRG_GSource	GS-2150
U+4A44	kIRG_GSource	GS-237E
U+4A4E	kIRG_GSource	GS-2421
U+4B6A	kIRG_GSource	GS-2149
U+4BC3	kIRG_GSource	GS-2345
U+4BC4	kIRG_GSource	GS-2347
U+4BC5	kIRG_GSource	GS-2342
U+4C9D	kIRG_GSource	GS-224C
U+4C9E	kIRG_GSource	GS-224E
U+4CA4	kIRG_GSource	GS-224D
U+4DAD	kIRG_GSource	GS-242E

New—Unicode Version 19.0:

U+3435	kIRG_SGSource	SG-2269
U+3446	kIRG_SGSource	SG-2268
U+345B	kIRG_SGSource	SG-226C
U+3463	kIRG_SGSource	SG-226D
U+3469	kIRG_SGSource	SG-226F
U+347D	kIRG_SGSource	SG-226A
U+34AC	kIRG_SGSource	SG-2431
U+34AE	kIRG_SGSource	SG-2430
U+34C6	kIRG_SGSource	SG-2239
U+34CD	kIRG_SGSource	SG-2238
U+34E5	kIRG_SGSource	SG-2264
U+34EB	kIRG_SGSource	SG-2262
U+3508	kIRG_SGSource	SG-2263
U+3509	kIRG_SGSource	SG-2267
U+3574	kIRG_SGSource	SG-2351
U+3589	kIRG_SGSource	SG-2350
U+358A	kIRG_SGSource	SG-2352
U+3598	kIRG_SGSource	SG-234B
U+35AC	kIRG_SGSource	SG-2354
U+35AD	kIRG_SGSource	SG-2355
U+35C5	kIRG_SGSource	SG-2356
U+35CE	kIRG_SGSource	SG-234D
U+35DD	kIRG_SGSource	SG-2348
U+35DE	kIRG_SGSource	SG-234A
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U+35FD	kIRG_SGSource	SG-2358
U+3603	kIRG_SGSource	SG-2349
U+3637	kIRG_SGSource	SG-236C

U+363C	kIRG_SGSource	SG-2369
U+3648	kIRG_SGSource	SG-236A
U+36BE	kIRG_SGSource	SG-2329
U+36C7	kIRG_SGSource	SG-232A
U+36C8	kIRG_SGSource	SG-2330
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U+3819	kIRG_SGSource	SG-2125
U+3824	kIRG_SGSource	SG-2121
U+384D	kIRG_SGSource	SG-223B
U+38AD	kIRG_SGSource	SG-2440
U+3954	kIRG_SGSource	SG-2129
U+397B	kIRG_SGSource	SG-212B
U+3999	kIRG_SGSource	SG-2127
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U+3AE3	kIRG_SGSource	SG-212D
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U+3B3E	kIRG_SGSource	SG-2141
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U+3C90	kIRG_SGSource	SG-2434
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U+3D1F	kIRG_SGSource	SG-235C
U+3D21	kIRG_SGSource	SG-2363

U+3D3E	kIRG_SGSource	SG-2365
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U+3D5F	kIRG_SGSource	SG-235F
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U+3DB6	kIRG_SGSource	SG-215E
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U+3DCC	kIRG_SGSource	SG-2158
U+3DDA	kIRG_SGSource	SG-2154
U+3DDB	kIRG_SGSource	SG-215B
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U+3DFA	kIRG_SGSource	SG-2161
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U+3EF3	kIRG_SGSource	SG-2237
U+3F7C	kIRG_SGSource	SG-2134
U+3FB2	kIRG_SGSource	SG-2138
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U+401D	kIRG_SGSource	SG-2131
U+4025	kIRG_SGSource	SG-2133
U+408B	kIRG_SGSource	SG-243E
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U+40DF	kIRG_SGSource	SG-2251
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U+4134	kIRG_SGSource	SG-2255
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U+41F2	kIRG_SGSource	SG-233A
U+4228	kIRG_SGSource	SG-2336
U+4229	kIRG_SGSource	SG-2337
U+4247	kIRG_SGSource	SG-2338
U+428C	kIRG_SGSource	SG-243D
U+4336	kIRG_SGSource	SG-233D
U+433C	kIRG_SGSource	SG-233B
U+433D	kIRG_SGSource	SG-233F

U+433E	kIRG_SGSource	SG-233C
U+433F	kIRG_SGSource	SG-233E
U+4340	kIRG_SGSource	SG-2341
U+4341	kIRG_SGSource	SG-2340
U+43A5	kIRG_SGSource	SG-2373
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U+4499	kIRG_SGSource	SG-217A
U+44AE	kIRG_SGSource	SG-2222
U+44AF	kIRG_SGSource	SG-2223
U+44BF	kIRG_SGSource	SG-2224
U+44D4	kIRG_SGSource	SG-2221
U+44D5	kIRG_SGSource	SG-2372
U+44E8	kIRG_SGSource	SG-217C
U+44E9	kIRG_SGSource	SG-2226
U+44EA	kIRG_SGSource	SG-2227
U+44FB	kIRG_SGSource	SG-222B
U+4526	kIRG_SGSource	SG-2179
U+4527	kIRG_SGSource	SG-2178
U+4528	kIRG_SGSource	SG-222C
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U+455C	kIRG_SGSource	SG-2225
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U+45D6	kIRG_SGSource	SG-2370
U+45ED	kIRG_SGSource	SG-236E
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U+4727	kIRG_SGSource	SG-2167
U+4728	kIRG_SGSource	SG-2166
U+4759	kIRG_SGSource	SG-2427
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U+478E	kIRG_SGSource	SG-2324
U+478F	kIRG_SGSource	SG-2322
U+4790	kIRG_SGSource	SG-2325
U+47B2	kIRG_SGSource	SG-242F
U+47F2	kIRG_SGSource	SG-2271

U+4800	kIRG_SGSource	SG-2273
U+480C	kIRG_SGSource	SG-2272
U+4816	kIRG_SGSource	SG-2270
U+4837	kIRG_SGSource	SG-2378
U+483A	kIRG_SGSource	SG-2377
U+4878	kIRG_SGSource	SG-235B
U+4882	kIRG_SGSource	SG-235A
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U+49ED	kIRG_SGSource	SG-2150
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U+4B6A	kIRG_SGSource	SG-2149
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U+4C9E	kIRG_SGSource	SG-224E
U+4CA4	kIRG_SGSource	SG-224D
U+4DAD	kIRG_SGSource	SG-242E
U+9097	kIRG_SGSource	SG-2151

19) IRG N2961: U-Source Horizontal Extension [L2/26-147]

Comments: This document is a proposal from the UTC to the IRG for adding *kIRG_USource* property values and corresponding U-source representative glyphs to 40 ideographs in existing CJK Unified Ideographs blocks, which is referred to as a *horizontal extension*. Until the IRG discusses this proposal, which is expected to happen during IRG Meeting #67 in October, it is considered FYI for the UTC, and no action is necessary at this time other than to record a note that indicates that the UTC endorses the proposal. This document, or a revision thereof, is likely to be discussed during UTC Meeting #189 that takes place in October shortly after IRG Meeting #67.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Note: The UTC endorses document L2/26-147 as a UTC contribution to the IRG that proposes to horizontally extend 40 ideographs in existing CJK Unified Ideographs blocks.

Other Topics

20) ISO/IEC JTC 1/SC 2/AG 1 (Ideographic Research Group)

Comments: During SC 2 Meeting #31, which took place in Paris, France at the end of June, SC 2 established **ISO/IEC JTC 1/SC 2/AG 1** (*Advisory Group 1*) with the name **Ideographic Research Group (IRG)** on **2026-06-26** per SC 2 **Resolution M 31-10** (*Establishment of Advisory Group 1 “Ideographic Research Group (IRG)”*) on pp three and four of document [SC 2 N5056](#) (*Resolutions of the 31st ISO/IEC JTC 1/SC 2 Plenary Meeting, Paris, France, 2026-06-22 and 26*), and also appointed Ken Lunde as its Convenor for a one-year term in the same resolution.

SC 2/AG 1 replaces SC 2/WG 2/IRG, which is in preparation to establish an MA (*Maintenance Agency*) for the ISO/IEC 10646 standard. Once an MA is established, SC 2/WG 2 would be disbanded, along with any of its subgroups, specifically SC 2/WG 2/IRG, hence this SC 2 action.

ISO/IEC JTC 1/SC 2/AG 1 is now appearing on the ISO website as a working group of [ISO/IEC JTC 1/SC 2](#), along with ISO/IEC JTC 1/SC 2/AHG 1 and ISO/IEC JTC 1/SC 2/WG 2.

Recommendations: The WG recommends to the UTC the following disposition ➡

No UTC action is required.

21) Updated Provisional Unihan Database Properties

Comments: The purpose of this section is to provide a synopsis of adjustments that were made to provisional Unihan database properties by the Chair of the WG since UTC Meeting #187 took place, which are shown in the table below:

Property	Additions	Removals	Changes	Notes
kDefinition	2		43	
kJapaneseNewVariant		40		Japan requested that these property values be removed
kJapaneseOldVariant		40		Japan requested that these property values be removed
kMorohashi	15	5	2	
kPhonetic	1,978		54	Fine-tuning of property values with stakeholder via pull requests in the open source Unihan Database repository
kSimplifiedVariant	345	2	1	
kStrange	14		2	
kTraditionalVariant	343	1	1	

Recommendations: The WG recommends to the UTC the following disposition ➡

No UTC action is required.

That is all.