

Title: CJK & Unihan Working Group Recommendations for UTC Meeting #184

Author: Ken Lunde

Date: 2025-07-14

This document provides the CJK & Unihan Working Group recommendations for UTC Meeting #184, based on a meeting that took place on 2025-07-04 from 6 to 7:30PM PDT, which was attended by Yi Bai, Eiso Chan, Peter Constable, Kushim Jiang, Ken Lunde, CheonHyeong Sim, and Yifán Wáng 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 #183 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-20250704.txt*.

PRI #508 Feedback

The nine items of [PRI #508](#) (*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, changes, and removals based on them, along with the recommended UAX #45 *USourceData.txt* data file changes:

- *Unihan-additions-20250704.txt*
- *Unihan-changes-20250704.txt*
- *Unihan-removals-20250704.txt*
- *Unihan_IRGSources-additions-20250704.txt*
- *Unihan_IRGSources-changes-20250704.txt*
- *USource-changes-20250704.txt*
- *kMandarin-changes-20250704.txt*

With the exception of the proposed *kMandarin* property value change, the recommended Unihan database additions, changes, and removals, along with the recommended UAX #45 *USourceData.txt* data file changes, are also shown inline, following the **Recommendations**.

01) ID20250408080610

Date/Time: Tue Apr 08 08:06:10 CDT 2025

ReportID: ID20250408080610

Name: snc

Report Type: Error Report

Opt Subject: **kMandarin of U+368C 𪛇**

U+368C 𪛇, in its in kDefinition, is shown as a variation of U+5925 𪛇, but its kMandarin shows as huà (as opposed to huǒ for 𪛇) <https://www.unicode.org/cgi-bin/GetUnihanData.pl?codepoint=%E3%9A%8C>

Comments: The WG reviewed and discussed this feedback, and noted that the informative *kMandarin* property values for these two ideographs were as follows from Unicode Version 3.1 through Version 6.0 (identical property values are in bold for emphasis):

U+368C	kMandarin	HUA4 HU03
U+5925	kMandarin	HU03

Their *kMandarin* property values subsequently changed in Unicode Version 6.1 as follows:

U+368C	kMandarin	huà
U+5925	kMandarin	huǒ

The WG therefore agreed that it is reasonable that the *kMandarin* property value of U+368C 𪛇 be the same as that of U+5925 𪛇, but as usual, the proposed *kMandarin* property value change will need to be checked by the CLDR-TC prior to the UTC accepting it.

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

Action Item for Sharon Chen, CJK: Ask the CLDR-TC to check the proposed kMandarin property value change for U+368C, then report back to the UTC. See PRI #508 feedback [ID20250408080610] and Section 01 of document L2/25-186.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 01 of document L2/25-186. See PRI #508 feedback [ID20250408080610].

02) ID20250515163225

Date/Time: Thur May 15 16:32:25 PDT 2025

ReportID: ID20250515163225

Name: Harriet Riddle

Report Type: PRI feedback

Opt Subject: **508**

The description for `kIRG\_GSource` lists volume number "1" in the English titles of both the `GZA-3` and `GZA-4` sources. However, the Chinese titles given immediately after give the volume numbers as 1 and 2 respectively.

Comments: The WG reviewed and discussed this feedback, and the editor of UAX #38 noted that this minor editorial issue was fixed in the 2025-05-18 draft of the Proposed Update of UAX

#38 (aka PRI #508), 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 02 of document L2/25-186. See PRI #508 feedback [ID20250515163225].

03) ID20250515165742

Date/Time: Thur May 15 16:57:42 PDT 2025

ReportID: ID20250515165742

Name: Harriet Riddle

Report Type: PRI feedback

Opt Subject: **508**

The description for `kIRG\_VSource` states of the `VN` source that they are "horizontal extensions" and "the value is its code point". However, the `VN` source references are a mixture of horizontally-extended self-referencing Unicode codepoints (similarly to the `HD` and `MD[H]` sources), and private-use area codepoints (similarly to the `GIDC` source). Specifying which font the private-use codepoints are in reference to (as done for the `GIDC` source) might be useful information.

Comments: The WG reviewed and discussed this feedback, and the editor of UAX #38 noted that this issue was fixed in the 2025-05-18 draft of the Proposed Update of UAX #38 (aka PRI #508) by adjusting the description of the “VN” prefix as follows, so no UTC action is necessary other than to convey to the feedback submitter the comments in this section:

Vietnamese horizontal and vertical extensions; the value is its code point or its original PUA code point in the open source [Nom Na Tong](#) font

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 03 of document L2/25-186. See PRI #508 feedback [ID20250515165742].

04) ID20250518084353

Date/Time: Sun May 18 08:48:53 PDT 2025

ReportID: ID20250518084353

Name: Judith Chen

Report Type: PRI feedback

Opt Subject: **508**

In IRG N2806, I requested to change some properties of U+3ADA and U+66F6 in the Unihan database. China also supported such changes in IRG N2807.

Unfortunately, these changes were not included in L2/25-090. Therefore, I would like to suggest the following changes to the UniHan database, based on IRG N2806:

U+3ADA

kHanYu: 21493.030 -> 21493.020

kIRGHanyuDaZidian: 21493.030 -> 21493.020

kIRGKangXi: 0502.080 -> 0492.020

kKangXi: 0502.080 -> 0492.020

kSBGY: 481.24 -> (null)

U+66F6

kHanYu: 21493.020 -> 21493.030

kIRGHanyuDaZidian: 21493.020 -> 21493.030

kIRGKangXi: 0492.020 -> 0502.080

kKangXi: 0492.020 -> 0502.080

kSBGY: (null) -> 481.24

That is all.

Comments: The WG reviewed and discussed this feedback, and agreed that these adjustments to various provisional property values of U+3ADA and U+66F6 that were proposed in document [IRG N2806](#) were unfortunately overlooked in document [L2/25-090](#), and are appropriate. The WG recommends that these UniHan database adjustments be targeted for Unicode Version 17.0.

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

Action Item for Ken Lunde, CJK: Update the UniHan database to adjust the property values of U+3ADA and U+66F6, based on PRI #508 feedback [ID20250518084353] and Section 04 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 04 of document L2/25-186. See PRI #508 feedback [ID20250518084353].

Current:

U+3ADA	kHanYu	21493.030
U+3ADA	kIRGHanyuDaZidian	21493.030
U+3ADA	kIRGKangXi	0502.080
U+3ADA	kKangXi	0502.080
U+3ADA	kSBGY	481.24
U+66F6	kHanYu	21493.020
U+66F6	kIRGHanyuDaZidian	21493.020
U+66F6	kIRGKangXi	0492.020
U+66F6	kKangXi	0492.020

Remove:

U+3ADA	kSBGY	481.24
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Adjusted:

U+3ADA	kHanYu	21493. 020
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U+3ADA	kIRGHanyuDaZidian	21493.020
U+3ADA	kIRGKangXi	0492.020
U+3ADA	kKangXi	0492.020
U+66F6	kHanYu	21493.030
U+66F6	kIRGHanyuDaZidian	21493.030
U+66F6	kIRGKangXi	0502.080
U+66F6	kKangXi	0502.080

New:

U+66F6	kSBGY	481.24
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05) ID20250521084321

Date/Time: Wed May 21 08:43:21 PDT 2025

ReportID: ID20250521084321

Name: Judith Chen

Report Type: PRI feedback

Opt Subject: **508**

The G-source representative glyph for U+4748 has been updated based on IRG N2803R2. However, its source reference remains unchanged. Therefore, I suggest updating the *kIRG_GSource* property of U+4748 to GKX-1195.03, which matches the new glyph.

Besides, I recommend updating the *kRSUnicode* and *kTotalStrokes* properties as follows:

kRSUnicode: 152.5 -> 152.4

kTotalStrokes: 12 -> 11

That is all.

Comments: The WG reviewed and discussed this feedback, and while it agreed that the *kRSUnicode* and *kTotalStrokes* property values of U+4748 should be adjusted, it also noted that China clearly stated in document [IRG N2803R2](#) that it prefers not to change its *kIRG_GSource* property value. The WG recommends that these *kRSUnicode* and *kTotalStrokes* property value adjustments be targeted for Unicode Version 17.0.

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

Consensus: Accept the proposal to change the informative *kRSUnicode* and informative *kTotalStrokes* property values of U+4748, based on PRI #508 feedback [ID20250521084321] and Section 05 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Change the *kRSUnicode* and *kTotalStrokes* property values of U+4748 in ISO/IEC 10646's CJKSrc.txt data file, based on PRI #508 feedback [ID20250521084321] and Section 05 of document L2/25-186, and provide to Ken Lunde an updated UniHan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated UniHan17.txt data file to update the UniHan database, based on PRI #508 feedback [ID20250521084321] and Section 05 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 05 of document L2/25-186. See PRI #508 feedback [ID20250521084321].

Current:

U+4748	kRSUnicode	152.5
U+4748	kTotalStrokes	12

Adjusted:

U+4748	kRSUnicode	152.4
U+4748	kTotalStrokes	11

06) ID20250530122017

Date/Time: Fri May 30 12:20:17 PDT 2025

ReportID: ID20250530122017

Name: Judith Chen

Report Type: PRI feedback

Opt Subject: **508**

Currently, the kGB8 property value of U+4FB4 兪 is 9030. However, the glyph placed at 90-30 in GB 8565.2-88 (GB8) is 𠂔, the same as WS2024-00266. Therefore, I suggest removing the kGB8 property value of U+4FB4 and adding it to the future codepoint of WS2024-00266.

Comments: The WG reviewed and discussed this feedback, and agreed that the provisional kGB8 property value of U+4FB4 should be removed, and that [IRG Working Set 2024 #00266](#) should be assigned **9030** as its kGB8 property value after it is encoded in a new CJK Unified Ideographs extension block. Also see document L2/25-170 in Section 14 of this document for a related adjustment to the same ideograph. The WG recommends that this Unihan database adjustment be targeted for Unicode Version 17.0.

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

Action Item for Ken Lunde, CJK: Update the Unihan database to add “9030” as the kGB8 property value of IRG Working Set 2024 #00266 after it is encoded in a new CJK Unified Ideographs extension block, based on PRI #508 feedback [ID20250530122017] and Section 06 of document L2/25-186, for a future version of the Unicode Standard.

Action Item for Ken Lunde, CJK: Update the Unihan database to remove the kGB8 property value of U+4FB4, based on PRI #508 feedback [ID20250530122017] and Section 06 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 06 of document L2/25-186. See PRI #508 feedback [ID20250530122017].

Current:

U+4FB4	kGB8	9030
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Remove:

U+4FB4	kGB8	9030
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07) ID20250601101710

Date/Time: Sun Jun 01 10:17:10 PDT 2025

ReportID: ID20250601101710

Name: Andrew West

Report Type: PRI feedback

Opt Subject: **KP1-792E may be incorrectly mapped**

KP1-792E is mapped to U+8CD2, but its glyph is identical to U+8CD6 (𠬞貝余). Perhaps its mapping should be changed to U+8CD6.

Comments: The WG reviewed and discussed this feedback, and noted that Ken Lunde, the author of [UTN #50](#), *KP-Source Property Value History*, added this issue to a draft of UTN #50 Version 3, specifically as an entry of a new table that records suboptimal mappings. UTN #50 Version 3 is planned for release on 2025-09-09, which is the same as the planned release date of [Unicode Version 17.0](#). This new table is intended to serve as a single public location for recording such KP-source issues. It does not preclude making KP-source changes in the future, but given current limited access to information about KP sources, the WG recommends that known KP-source issues be recorded in UTN #50. No UTC action is necessary at this time 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 07 of document L2/25-186. See PRI #508 feedback [ID20250601101710].

08) ID20250613180157

Date/Time: Fri Jun 13 18:01:57 PDT 2025

ReportID: ID20250613180157

Name: Harriet Riddle

Report Type: PRI feedback

Opt Subject: **508**

UTC-00335 is identical to U+2CE9E's T-source glyph, and could be considered for horizontal extension.

Thus, the UAX 45 line which currently reads

```
UTC-00335;Variant;U+4E80;5.9;;𠬞𠬞𠬞𠬞;kLau 1028a kCowles 2059*kMeyerWempe  
1368*kFennIndex 272.04;;;
```

could be changed to

```
UTC-00335;ExtE;U+2CE9E;5.9;;𠬞𠬞𠬞𠬞;kLau 1028a kCowles 2059*kMeyerWempe  
1368*kFennIndex 272.04;;;
```

and the following could presumably be added to the Unihan Database:

```
U+2CE9E kIRG_USource      UTC-00335
```

```
U+2CE9E kLau 1028a
```

```
U+2CE9E kCowles 2059
```

Comments: The WG reviewed and discussed this feedback, and agreed that U+2CE9E in the [CJK Unified Ideographs Extension E](#) block should be horizontally extended to add **UTC-00335** as a new *kIRG_USource* property value. The WG noted that the total strokes (10) and first residual stroke (0) values can be added to the UAX #45 record for UTC-00335, and that its radical/stroke value should be changed to **213'.0** to match the *kRSUnicode* property value in the UniHan database. In addition, the provisional *kCowles* property should be **2059** (the “*” suffix is not covered by its syntax, and should therefore be excluded), the provisional *kLau* property value should be **1028** (the “a” suffix is not covered by its syntax, and should therefore be excluded), and a space should be inserted between “1368*” and “kFennIndex” in the UAX #45 record for UTC-00335. The WG recommends that these UniHan database, UAX #45, and code chart adjustments be targeted for Unicode Version 17.0.

The table below constitutes a proposal to horizontally extend U+2CE9E by adding UTC-00335 as its *kIRG_USource* property value:

Code Point	Code Chart Excerpt—Version 17.0 Beta	U-Source	
		Source Reference	Representative Glyph
U+2CE9E	2CE9E 龟 213'.0  GDM-00748	UTC-00335	

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

Consensus: Accept the proposal to add UTC-00335 as a new normative *kIRG_USource* property value for U+2CE9E, based on PRI #508 feedback [ID20250613180157] and Section 08 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add UTC-00335 as a new *kIRG_USource* property value for U+2CE9E in ISO/IEC 10646’s CJKSrc.txt data file, based on PRI #508 feedback [ID20250613180157] and Section 08 of document L2/25-186, and provide to Ken Lunde an updated UniHan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated UniHan17.txt data file to update the UniHan database to add UTC-00335 as a new *kIRG_USource* property value for U+2CE9E, based on PRI #508 feedback [ID20250613180157] and Section 08 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the UniHan database to add new property values to U+2CE9E, based on PRI #508 feedback [ID20250613180157] and as amended in Section 08 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the UAX #45 data file to reflect the changes to the record for UTC-00335, based on PRI #508 feedback [ID20250613180157] and as amended in Section 08 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the UAX #45 TrueType font to map U+2CE9E to the glyph for UTC-00335, then provide the updated UAX #45 TrueType font to Michel Suignard and

the Charts Working Group, based on PRI #508 feedback [ID20250613180157] and Section 08 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 08 of document L2/25-186. See PRI #508 feedback [ID20250613180157].

Current—*USourceData.txt*:

UTC-00335;Variant;U+4E80;5.9;;𣬢𣬢𣬢𣬢;kLau 1028a kCowles 2059*kMeyerWempe
1368*kFennIndex 272.04;;;

Adjusted—*USourceData.txt*:

UTC-00335;**ExtE**;U+2CE9E;213'.0;;𣬢𣬢𣬢𣬢;kLau **1028** kCowles **2059** kMeyerWempe 1368*
kFennIndex 272.04;;**10;0**

New:

U+2CE9E	kCowles	2059
U+2CE9E	kFennIndex	272.04
U+2CE9E	kIRG_USource	UTC-00335
U+2CE9E	kLau	1028
U+2CE9E	kMeyerWempe	1368*

09) ID20250619221100

Date/Time: Thu Jun 19 22:11:00 PDT 2025

ReportID: ID20250619221100

Name: M

Report Type: PRI feedback

Opt Subject: **508**

U+98EE kZVariant U+98F2

U+98F2 kZVariant U+98EE

Comments: The WG reviewed and discussed this feedback, and agreed that these are reasonable additions to the provisional *kZVariant* property. The WG recommends that these Unihan database adjustments be targeted for Unicode Version 17.0.

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

Action Item for Ken Lunde, CJK: Update the Unihan database to add new *kZVariant* property values to U+98EE and U+98F2, based on PRI #508 feedback [ID20250619221100] and Section 09 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 09 of document L2/25-186. See PRI #508 feedback [ID20250619221100].

New:

U+98EE	kZVariant	U+98F2
U+98F2	kZVariant	U+98EE

PRI #513 Feedback

[PRI #513](#) (*Proposed Update UAX #50*) was re-issued shortly after UTC Meeting #183, but no feedback was received prior to its closing date of 2025-07-01.

PRI #514 Feedback

The single item of [PRI #514](#) (*Unicode 17.0 Alpha Review*) feedback that is being revisited in this section was reviewed and discussed by the WG, and for convenience, the following data files, which are PDF attachments, include the recommended UniHan database additions based on it, along with the recommended UAX #45 *USourceData.txt* data file changes:

- *UniHan_IRGSources-additions-20250704.txt*
- *USource-changes-20250704.txt*

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

10) [ID20250205202205](#)

Date/Time: Wed Feb 05 20:22:05 CST 2025

ReportID: ID20250205202205

Name: Shieru Asakoto

Report Type: Public Review Issue

Opt Subject: **514**

I found several errors in the draft *USourceData.txt* for UAX #45, listed as follows:

1. Field 8 & 9 for UTC-03571~03581 are reversed.
2. The status of UTC-00588 is incorrect: should be 'WS-2021' instead of 'Rejected' because 𪛇 is found in WS-2021 as WS2021-03048, even though U-source is not recorded.

Comments: The WG reviewed and discussed this feedback, which was covered in Section 13 on pp 17 and 18 of document [L2/25-090](#), and discussed during UTC Meeting #183.

The first issue was addressed during UTC Meeting #183, and was reflected in the Unicode Version 17.0 Beta review (aka [PRI #526](#)). The second issue was also discussed during UTC Meeting #183, but needs to be revisited now that the new CJK Unified Ideographs Extension J block is stable.

Section 13 on pp 17 and 18 of document [L2/25-090](#) noted that the UTC did not submit [IRG Working Set 2021 #03048](#) (aka UK-20533), so its current Status value is actually correct, but it should be changed to **ExtJ** after the Unicode Version 17.0 Beta review, which will require a horizontal extension. Also, the next field should be changed to its CJK Unified Ideographs Extension J code point (**U+32DE8**), a total strokes value (**29**) can be added, and its first residual stroke value should be changed to **4**. The WG recommends that these UniHan database, UAX #45, and code chart adjustments be targeted for Unicode Version 17.0.

The table below constitutes a proposal to horizontally extend U+32DE8 by adding UTC-00588 as its *kIRG_USource* property value:

Code Point	Code Chart Excerpt—Version 17.0 Beta	U-Source	
		Source Reference	Representative Glyph
U+32DE8	32DE8 米 119.23  UK-20533	UTC-00588	

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

Consensus: Accept the proposal to add UTC-00588 as a new normative *kIRG_USource* property value for U+32DE8, based on PRI #514 feedback [ID20250205202205] and Section 10 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add UTC-00588 as a new *kIRG_USource* property value for U+32DE8 in ISO/IEC 10646's CJKSrc.txt data file, based on PRI #514 feedback [ID20250205202205] and Section 10 of document L2/25-186, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database to add UTC-00588 as a new *kIRG_USource* property value for U+32DE8, based on PRI #514 feedback [ID20250205202205] and Section 10 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the UAX #45 data file to reflect the changes to the record for UTC-00588, based on PRI #514 feedback [ID20250205202205] and as amended in Section 10 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the UAX #45 TrueType font to map U+32DE8 to the glyph for UTC-00588, then provide the updated UAX #45 TrueType font to Michel Suignard and the Charts Working Group, based on PRI #514 feedback [ID20250205202205] and Section 10 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 10 of document L2/25-186. See PRI #514 feedback [ID20250205202205].

Current—*USourceData.txt*:

UTC-00588;Rejected;;119.23;;米戀;kFennIndex 321.10,325.08;;;3

Adjusted—*USourceData.txt*:

UTC-00588;**ExtJ;U+32DE8**;119.23;;米戀;kFennIndex 321.10,325.08;;**29;4**

New:

U+32DE8 *kIRG_USource* UTC-00588

PRI #522 Feedback

PRI #522 (*Proposed Update UAX #45*) was issued shortly after UTC Meeting #183, but no feedback was received prior to its closing date of 2025-07-01.

PRI #526 Feedback

The three items of [PRI #526](#) (*Unicode 17.0.0 Beta*) feedback that are in this section were reviewed and discussed by the WG.

11) ID20250519222217

Date/Time: Mon May 19 22:22:17 PDT 2025

ReportID: ID20250519222217

Name: Nick C.

Report Type: Public Review Issue

Opt Subject: **Faulty glyph in the CJK Ext. J code chart**

U+32436 (VN-F1669) has a faulty stroke in the 甲 component

Comments: The WG reviewed and discussed this feedback, and agreed that the 甲 component of the V-source representative glyph for U+32436 in the CJK Unified Ideographs Extension J code chart has a faulty stroke. Vietnam already provided to Michel Suignard an updated V-source font that addresses this issue. A Unicode Version 17.0 Beta code chart excerpt that shows the faulty stroke is shown below:

32436 𠂔
人 9.9 𠂔
VN-F1669

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

Consensus: Accept the proposal to correct the V-source representative glyph of U+32436 in the CJK Unified Ideographs Extension J block, based on PRI #526 feedback [ID20250519222217] and Section 11 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CHARTS: Apply the V-source representative glyph correction to the code chart for the CJK Unified Ideographs Extension J block with an updated TrueType font provided by Vietnam, based on PRI #526 feedback [ID20250519222217] and Section 11 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 11 of document L2/25-186. See PRI #526 feedback [ID20250519222217].

12) ID20250520112515

Date/Time: Tue May 20 11:25:15 PDT 2025

ReportID: ID20250520112515

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: **PRI 526**

According to IRG N2805R2, the G-source representative glyph for U+29B9A should be modified. However, this was not reflected in the Unicode 17.0 Beta Code Charts. I suggest updating the G-source glyph for U+29B9A, as per IRG N2805R2.

Comments: The WG reviewed and discussed this feedback, and noted that this issue has already been reported to and fixed by the Charts Working Group, and will be reflected in the final Unicode Version 17.0 code charts. 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 12 of document L2/25-186. See PRI #526 feedback [ID20250520112515].

13) ID20250520113238

Date/Time: Tue May 20 11:32:38 PDT 2025

ReportID: ID20250520113238

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: **PRI 526**

The K-source representative glyphs for U+2A1C5 and U+2A54F have been missing since the alpha review of Unicode 17.0, and the current K-source representative glyph for U+25A38 is the same as UCS2003. I recommend updating these glyphs based on their original proposals IRG N2643R2 (U+2A1C5 and U+2A54F) and IRG N2588R (U+25A38).

Comments: The WG reviewed and discussed this feedback, and noted that these issues have already been reported to and fixed by the Charts Working Group, and will be reflected in the final Unicode Version 17.0 code charts. In addition, the K-source representative glyph for U+3E02 was improved. 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 13 of document L2/25-186. See PRI #526 feedback [ID20250520113238].

UAX #38 / Unihan Database Documents

The single UTC document in this section was reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachments, includes all of the recommended Unihan database additions based on it:

- *kGB3-additions-2401-20250704.txt*

14) L2/25-170: Proposal to increase coverage of the provisional kGB3 and kGB5 Unihan Database properties

Comments: The WG reviewed and discussed this document, and agreed that is a welcomed contribution to expand the coverage of the provisional *kGB3* and *kGB5* Unihan database properties. While checking the proposed *kGB3* property value additions, the WG made the following adjustment and observation:

- Added **5843** as a new *kGB3* property value for U+77AD 瞭
- Noted that [IRG Working Set 2024 #00266](#) should be assigned **1893** as its *kGB3* property value after it is encoded in a new CJK Unified Ideographs extension block

Also see PRI #508 ReportID ID20250530122017 in Section 06 of this document for a related adjustment to IRG Working Set 2024 #00266. The WG recommends that the *kGB3* property value additions be targeted for Unicode Version 17.0.

The proposed *kGB5* property value additions will require more time to check, but because this Unihan database property is provisional, the WG can add the property values after they have been checked. Related to this effort, [IRG Working Set 2024 #00212](#) and [IRG Working Set 2024 #00249](#) should be assigned **1735** and **1934** as their respective *kGB5* property values after they are encoded in a new CJK Unified Ideographs extension block.

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

Action Item for Ken Lunde, CJK: Update the Unihan database to add “1893” as the *kGB3* property value of IRG Working Set 2024 #00266 after it is encoded in a new CJK Unified Ideographs extension block, based on document L2/25-170 and Section 14 of document L2/25-186, for a future version of the Unicode Standard.

Action Item for Ken Lunde, CJK: Update the Unihan database to add 2,401 *kGB3* property values, based on document L2/25-170 and as amended in Section 14 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the Unihan database to add *kGB5* property values, based on document L2/25-170 and as amended in Section 14 of document L2/25-186, for a future version of the Unicode Standard.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/25-170 the CJK & Unihan Working Group comments in Section 14 of document L2/25-186.

Other UTC Documents

The single UTC document in this section was reviewed and discussed by the WG.

15) L2/25-151R: Proposal on two alternate Katakana letters

Comments: The WG reviewed and discussed this revised proposal, and agreed that the proposed character names (**KATAKANA LETTER ALTERNATE NE** and **KATAKANA LETTER ALTERNATE WI**), properties, and code points (**U+1B127** and **U+1B128**) looked reasonable. The WG also reviewed and discussed the original version of the proposal that used ARCHAIC in the character names, but the WG recommended that ALTERNATE be used instead, hence the revised proposal. The document includes as a PDF attachment a TrueType font that includes their representative glyphs that are mapped from their proposed code points.

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

Consensus: Provisionally assign 1B127 KATAKANA LETTER ALTERNATE NE and 1B128 KATAKANA LETTER ALTERNATE WI in the Kana Extended-A block, based on document L2/25-151R (Chan) and Section 15 of document L2/25-186.

Action Item for Ken Whistler, RMG: Update the Pipeline to add the provisionally assigned characters 1B127 KATAKANA LETTER ALTERNATE NE and 1B128 KATAKANA LETTER ALTERNATE WI, based on document L2/25-151R and Section 15 of document L2/25-186.

Action Item for Ken Lunde, CJK: Prepare text for the Core Specification that describes 1B127 KATAKANA LETTER ALTERNATE NE and 1B128 KATAKANA LETTER ALTERNATE WI, based on document L2/25-151R and Section 15 of document L2/25-186.

IRG Documents

The two IRG documents in this section were reviewed and discussed by the WG, the first of which was revisited by the WG.

16) IRG N2779R2: T-Source Glyph Modification and Horizontal Extension

Comments: This IRG document was discussed during UTC Meeting #183, but needed to be revisited by the WG. The WG recommends that the UTC assign an Action Item to Ken Lunde and Michelle Perham to prepare additional glyph errata for the T-source representative glyphs of **U+26EA4**, **U+26FE1**, and **U+2703B**. U+26FE1 already has blue highlighting in the Unicode Version 17.0 Beta code charts, and U+26EA4 and U+2703B should also be highlighted in blue.

The incorrect and correct representative glyphs are shown below in excerpts from the code charts for Unicode Versions 16.0 and 17.0 Beta, respectively:

Incorrect	26EA4 艸 140.12 𦰩 GKX-1057.29 𦰩 JMJ-046873	𦰩 T7-323B	26FE1 艸 140.13 𦰪 GKJ-00053 𦰪 T7-3B26	2703B 艸 140.15 𦰫 GKX-1066.10 𦰫 JMJ-047144	𦰫 T5-693D
	26EA4 艸 140.12 𦰩 GKX-1057.29 𦰩 JMJ-046873	𦰩 T7-323B	26FE1 艸 140.13 𦰪 GKJ-00053 𦰪 T7-3B26	2703B 艸 140.15 𦰫 GKX-1066.10 𦰫 JMJ-047144	𦰫 T5-693D

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

Action Item for Michel Suignard, CHARTS: Apply blue highlighting to U+26EA4 and U+2703B in the code charts, based on document IRG N2779R2 and Section 16 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, Michelle Perham, EDC: Draft and post errata notices to the “Updates and Errata” page about the correction of the T-source representative glyphs for U+26EA4, U+26FE1, and U+2703B, based on document IRG N2779R2 and Section 16 of document L2/25-186, for Unicode Version 17.0.

17) IRG N2847: Request to consider normalizing U+2B9EC

Comments: The WG reviewed and discussed this document, and agreed that the first stroke of the 言 component of the V-source representative glyph for U+2B9EC in the CJK Unified Ideographs Extension E code chart should be a vertical stroke to adhere to Vietnam’s regional conventions, not a horizontal stroke. Vietnam also agreed, and already provided to Michel Suignard an updated V-source font that addresses this issue. A Unicode Version 17.0 Beta code chart excerpt that shows the 言 component is shown below:

2B9EC
十 24.17
𠂔
V4-425D

The adjusted glyph is shown below:



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

Consensus: Accept the proposal to adjust the V-source representative glyph of U+2B9EC in the CJK Unified Ideographs Extension E block, based on document IRG N2847 (Ng) and Section 17 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CHARTS: Apply the V-source representative glyph correction to the code chart for the CJK Unified Ideographs Extension E block with an updated TrueType font provided by Vietnam, based on document IRG N2847 and Section 17 of document L2/25-186, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document IRG N2847 the CJK & Unihan Working Group comments in Section 17 of document L2/25-186.

WG 2 Documents

The three WG 2 documents in this section were reviewed and discussed by the WG.

18) WG 2 N5296: JMJ-source related glyph issues

WG 2 N5304: Recommendations from WG 2 meeting 72

Comments: Document WG 2 N5296 was discussed during WG 2 Meeting #72, and WG 2 recommended per Recommendation M72.07 that the affected J-source representative glyphs be reverted to what was used in Unicode Version 15.1 (2023) and earlier. This issue was inadvertently introduced in Unicode Version 16.0 (2024).

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

Consensus: Accept the proposal to revert the J-source representative glyphs, based on document WG 2 N5296 (Sim), Recommendation M72.07 in document WG 2 N5304, and Section 18 of document L2/25-186, for Unicode Version 17.0.

Action Item for Michel Suignard, CHARTS: Revert the J-source representative glyphs, based on document WG 2 N5296, Recommendation M72.07 in document WG 2 N5304, and Section 18 of document L2/25-186, for Unicode Version 17.0.

19) WG 2 N5341: Small Seal Code charts and Data set

Comments: The WG discussed the location of the new “Small Seal” block whose latest code chart and data file are provided in document WG 2 N5341, and recommends that it be moved from Plane 3 (U+38000..U+3AC4F) to Plane 4 (U+40000..U+42C4F) so that Plane 3 can be dedicated for the encoding of additional CJK Unified Ideographs extension blocks. The primary justification for this recommendation is the expected uptick in the number of Han ideographs that will be encoded in the future, meaning that it would be prudent to provide more breathing room in Plane 3 for that particular script.

Furthermore, the situation in Plane 2 (aka *Supplementary Ideographic Plane* or TIP) may be helpful to make a decision. There are 2,464 unallocated code points—U+2EE60 through U+2F7FF—between the [CJK Unified Ideographs Extension I](#) and [CJK Compatibility Ideographs Supplement](#) blocks, which is under the threshold to accommodate a typical CJK Unified Ideographs extension block. The former block fit in this range purely by happenstance. And, we all know that no one wants a repeat of the circumstances that led to the encoding of that block. Likewise, there are 1,502 unallocated code points—U+2FA20 through U+2FFFD—between the CJK Compatibility Ideographs Supplement block and the end of Plane 2. Whether the “Small Seal” block remains at its current location in Plane 3 (starting from U+38000), or shifted to start from U+3C000 per SEW’s recommendation, the likelihood of inadvertently creating additional unallocated code point ranges that cannot accommodate typical CJK Unified Ideographs extension blocks is relatively high. By dedicating the remaining unallocated code points of Plane 3 for future CJK Unified Ideographs extension blocks, we can virtually guarantee that we will not inadvertently create additional unallocated code point ranges that cannot accommodate typical CJK Unified Ideographs extension blocks.

The WG further recommends that Plane 4 be designated as the **Archaic Ideographic Plane** (AIP). If CJK Unified Ideographs extension blocks ever fill Plane 3, an unallocated plane can be designated as the **Quaternary Ideographic Plane** (QIP).

The WG finally noted that this recommendation, if accepted by the UTC, will invalidate [Whistler’s Revised Strict Conjecture](#) from 2009-01-09 that stated the following:

Other than Plane 14 hazmat disposal, no characters will ever be encoded beyond Plane 3.

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

Consensus: Accept the proposal to designate Plane 4 as the “Archaic Ideographic Plane” (AIP), based on Section 19 of document L2/25-186.

Action Item for V.S. Umamaheswaran, RMP: Add a “Roadmap to the AIP” child page to the “Roadmaps to Unicode®” page, move the “Small Seal” block from U+38000..U+3AC4F on the “Roadmap to the TIP” page to U+40000..U+42C4F on the new “Roadmap to the AIP” page, and move the second paragraph and the bullets that follow from the “Summary” section of the “Roadmap to the TIP” page to the “Summary” section of the new “Roadmap to the AIP” page and adjust the text accordingly, based on Section 19 of document L2/25-186.

Other Topics

20) CAAPH IVD Collection

Comments: As stated in the last bullet of Section 24 on page 26 of document [L2/25-090](#), [PRI #521](#), *Combined registration of the CAAPH collection and of sequences in that collection*, closed on 2025-07-11. A new version of the [IVD](#) (*Ideographic Variation Database*) was issued on [2025-07-14](#), which registers the new **CAAPH** (*Culture and Art Publishing House*, 文化艺术出版社) IVD collection and its sequences. This is the sixth IVD collection to be registered, and the ninth version of the IVD.

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

No UTC action is required.

21) IRG Document Migration Status

Comments: As of **2025-07-07**, the files associated with a total of **1,404** unique IRG document numbers have been migrated or posted to the new [IRG Document Register](#) that is hosted by the Unicode Consortium. All documents for **IRG Meeting #31 and later**—document IRG N1489 and higher—have been migrated. This figure still represents approximately **49%** of the unique IRG document numbers.

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

No UTC action is required.

22) 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 Ken Lunde since UTC Meeting #183, which are shown in the table below:

Property	Additions	Removals	Changes	Notes
kPhonetic	1,693		90	Fine-tuning of property values with stakeholder via pull requests in the open source Unihan Database repository
kSimplifiedVariant	1			
kStrange	24		51	
kTraditionalVariant	1			

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

No UTC action is required.

That is all.