Universal Multiple-Octet Coded Character Set
UCS

ISO/IEC JTC1/SC2/WG2/IRGN2463R

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Editors from China, HKSAR, Macau SAR, R.O.Korea, SAT, TCA, UK, Unicode Consortium, USA, Vietnam, and individual experts attended the IRG#56 online discussion on the following issues.

1. Review of WS2017v5.2 and CJK_H Code Charts

● **IRGN2444 WS2017v5.2, and Online Feedbacks**

● **IRGN2469 (WG2N5156) CJK_H Code Charts, and Feedback (also reflected through the WS Online Review Tool)**

The editors discussed the consolidated comments on WS2017v5.2 and solved problems on unifications / dis-unifications, radicals, evidences and glyph designs. (For record, see Appendix A and B.) The editors agreed to set the following schedule:

2021-03-26: The IRG Chief Editor solve other problems of WS2017v5.2 through ORT (Online Review Tool), such as attributes and editorials, etc.. The character submitters submit updated fonts to the IRG Chief Editor and the ORT Manager. (It is recommended to submit complete fonts for easy replacement of the old ones.)

2021-04-02: The ORT Manager releases IRGN2475 WS2017v6.0 on line and distributes attributes file (xls format). The IRG Chief Editor submits updated fonts to the UCS Project Editor.

2021-04-16: The UCS Project Editor distributes Updated CJK_H Code Charts.

2021-05-07: The IRG editors submit comments (based on the code charts) through ORT.

2021-05-14: The ORT Manager distributes consolidated comments on line.

2021-05-28: The CJK_H submitters feed back through ORT.

2021-06-14: The IRG Chief Editor processes comments on line.

2021-06-16: The ORT Manager releases WS2017v6.1 on line and distributes attributes file (xls format).

2. IRG WS2021 Project

The WS2021 submissions are estimated 4655 characters:

China: 800

ROK: 300

SAT: 400

TCA: 1000

UTC: 155

UK: 1000

Vietnam: 1000

The editors agreed to start IRG WS2021 Project after IRG#56. Every IRG member is permitted to submit no more than 1000 characters including those moved from WS2017. An exception is that a few of WS2017 D set characters are accepted to WS2021 without counting to quota, these characters are recorded in the WS2017 ORT. The submission requirements are subject to IRGN2424 IRG PNP v13 with additional requirement of TTF. The submission schedule is as below:

2021-05-07: IRG members submit IRGN2478 WS2021 candidates.

2021-05-21: The IRG ORT Manager distributes IRGN2478 WS2021v1.0.

2021-07-02: IRG editors submit comments through ORT.

2021-07-16: The IRG ORT Manager distributes consolidated comments.

2021-08-13: The WS submitters feed back through ORT.

2021-08-23 IRG#57: Quality Evaluation.

3. Source Code Changes and Corrections

- **IRGN2432 Some V-source Codes of WS2017**

The editors agreed to update the V-Source references in IRG WS2017 to follow the Vietnamese original national standards, including those in M-Set and D-Set.

The editors agreed to change the V-Source references of 5 encoded characters to VU-Source, for those V-Source references would be used for IRG WS2017.

The editors also agreed to change the definition of V4 in IRG PnP.

4. Revision to IRG PnP:

- **IRGN2365 (IRG#52 Editorial Report on Miscellaneous Issues)Feedback**

- **IRGN2424 IRG PnP V13 (draft)**

- **IRGN2436 FS, T/S flag issues**

- **IRGN2467 Improvement of IRG process**

- **IRGN2470 Evidence Discussion**

- **IRGN2473 Font Issue**

- **IRGN2474 IRG PnP V14**

The editors reviewed and discussed the above documents and made some decisions such as giving 3 types of examples of unclear evidences, supplying TrueType Fonts, introducing 0 in FS flag, dropping T/S flag in WS2021 submissions. The editors are encouraged to consider suggestions on improving IRG working process and study the more comprehensive solutions proposed related to evidences and provide feedback for IRG#57.

The editors are encouraged to review the 6 types of issues of evidence coherence raised in SAT feedback to IRGN 2365 and feedback on possible solutions. IRG members are encouraged to mark any characters which fall into the 6 types of issues of evidence coherence in the WS2021 submission.

The editors suggested the following schedule for drafting and reviewing IRG PnP V14(IRGN2474) for confirmation at IRG #57.

2021-04-15: IRG convenor to complete Draft One of IRG PnP V14.

2021-05-15: Feedback by IRG experts for revision/correction.

2021-06-15: IRG convenor to complete Draft Two if needed.

2021-07-23: All revision comments reach IRG convenor for finalization at IRG #57.

5. UNC request

- **IRGN2446 One G Source UNC**

The editors accepted the G source place name character in IRGN2446 as UNC and asked China to submit font and attribute information to the UCS Project Editor by 2021-03-18.

6. IDS Issues

- **IRGN2438 HKSCS IDS sequence**

- **IRGN2472 Supplement Components and IDS Decompositions**

- **IRGN2464 CJK Supplementary Components for IDS**

The editors noted that HKSARG to be the first member to submit its complete IDS sequence in response to a Unicode request. The editors reviewed decomposition principles in H and T documents above and asked for feedback for discussion in IRG#57, and asked Unicode to study how it can be incorporated into Unihan database.

The editors reviewed and accepted ideas presented in IRGN2464 in principle, and agreed that, with respect to un-encoded components (no coded characters are available), submitters can use 1) a full-width question mark U+FF1F, 2) circled digits, 3) CDP and 4) self-defined Supplementary Components with the Supplementary Component definition table provided for verification and possible machine check. Self-defined Supplementary Components must be named with a self-designated initial key for distinction. If there is more than one IDS for a char, IDSes can be separated by a comma (",").

The editors are encouraged to study the supplementary components for use in future IRG working sets.

7. Horizontal extension requests

- **IRGN2468 Horizontal Extension of 6 K6 Characters**

- **IRGN2448TCA Feedback**

The editors reviewed and accepted to request of horizontal extension of 6 characters in IRGN2468, and asked ROK to submit font and attribute information to the UCS Project Editor by 2021-03-18.

The editors agreed the request for horizontal extension of U+21B36 to add T-source TA-3A4B (IRGN2448).

8. Source Reference Changes

- **IRGN2440R Vietnam Sources**

- **IRGN2442 GBK Source**

IRGN2440R: The V source horizontal extension request was accepted by the editors, and a new UCV 決vs決 is to be added. (See Appendix C.) The source change request was also accepted. As the UCS Project Editor stated that "VU" should be used only for orphaned characters, the editors recommended Unicode to set up a repository to establish a registry for self-referencing V-source characters that does not use VU as a source prefix. Other data changes were accepted.

IRGN2442: China was invited to feedback for discussion in IRG#57.

9. Disunifications

- **IRGN2434 U+722B ⍗**

- **IRGN2443 U+3B3F朥**

- **IRGN2447 U+2F83A吒**

The editors agreed to dis-unify U+722B ⍗ for one V source character, U+3B3F朥 for V source and UTC source character, and dis-unify compatibility character U+2F83A from U+53F1吒, as proposed in above documents. And asked the related IRG members to submit fonts and data to the UCS Project Editor by 2021-03-26.

10. Glyph Changes

- **IRGN2440R, V glyph and Source Changes**

- **IRGN2445, Four Vietnamese Glyphs**

- **IRGN2448, T source issues for U+3777 and U+6AC0**

The editors agreed the suggestion on glyph change of four V source characters (U+26F28, U+22ADC, U+25B27 and U+230F2) and two T source characters (T3-3B22 at U+3777 and T3-577D at U+6AC0) and asked Vietnam and TCA to submit TTF by 2021-03-26 for IRG experts feedback (2021-04-02) and submit updated (if needed) TTF to the UCS Project Editor from the IRG Convenor by 2021-04-16.

Note: Acceptance of the glyph change of V2-8244 at U+26F28 doesn't mean the unification of components貝 and 具.

IRGN2440R was reviewed and accepted in principle. Vietnam was invited to improve the document by 2021-03-26 for easy comparison of glyph changes. The editors were asked to feedback by 2021-04-02.

11. Remapping of Source**s**

- **IRGN2471 U+2F8A4/T6-487C and U+2F936/T4-2A44**

- **IRGN2479 KP0-E5A9/U+676E to U+67FF**

The editors agreed to remap U+2F8A4/T6-487C to U+317B2 and U+2F936/T4-2A44 to U+31C34 as proposed in IRGN2471, and asked TCA to submit TTF and Data to the UCS Project Editor by 2021-03-30.

IRG experts are encouraged to contact DPRK for confirmation of the suggested changes in IRGN2479.

12. Adding 4 IDCes

- **IRGN2273R and Feedback**

The documents were discussed and the editors are encouraged to feedback for further discussion.

13. Place Name Characters

- **IRGN2416 Ninety Six Place Name Characters**

China is invited to consider for inclusion of next IRG WS submission.

14. UCV and NUCV

- **IRGN2425 (IRG#53 UCV and NUCV List) and Feedback**

The editors accepted the feedback on SAT feedback and Henry feedback in general, with the following modifications:

- IWDS editor will update UCV rule #298c to be the whole shape of U+5370 and WS2015-00474.
- IWDS editor will update UCV rule #307b to include the component 隹 in the UCV rule.

- IWDS editor will remove UCV rule #256a, and add G_Z3981102 and U+6CB7 as a disunification example for rule #256.

(Details are shown in Appendix D.)

The document will be updated also with additions made in WS2017v5.2 discussion. (For record, see Appendix C.) The editors also recommended Mr. Yi Bai as the co-editor of IWDS. The IWDS review schedule is as below:

2021-04-15: IWDS co-editor to incorporate IRG#54 additions and corrections to IRGN2424 to generate a new UCV list (IRGN2476)

2021-05-15: Expert give correction feedback to IRG convenor

2021-06-15: IWDS co-editor to update if needed

2021-07-23: Any comments to reach IRG for finalization at IRG#57.

The new UCV and NUCV agreed in IRG#56 is shown in Appendix.

15. Others

- **IRGN2465 Mapping Table between WS SN and UCS CP**

The editors appreciated the contribution in IRGN2465 from Prof. Kim. The IRG ORT Manager and the editors were encouraged to reference the document.The IRG ORT Manager will add the final assigned codepoint to the ORT and also provide an updated attributes file with the extra column.

Appendix A: WS2017v5.2 Discussion Record

Appendix B: A List for Horizontal Extension candidates to All the UCS encoded CJK characters

Appendix C: New UCVs Defined in IRG#56

Appendix D: IRG#53 UCV and NUCV Updates