

Ideographic Research Group

Title: Summary Report of IRG Meetings #63 and #64

Source: Ken Lunde, IRG Convenor

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Meeting Dates: 2024-10-21/25 & 2025-03-17/21

This document is a summary report of the recommendations for IRG Meetings #63 (see document IRG N2702, WG 2 N5285, or SC 2 N4946) and #64 (see document IRG N2765, WG 2 N5297, or SC 2 N4961) that were attended by experts from China, Hong Kong SAR, Macao SAR, Republic of Korea (ROK), SAT Daizōkyō Text Database Committee, TCA, UK, US, UTC, and Vietnam, along with individual experts.

01) Future IRG Meetings

Recommendations: [M63.01](#) & [M64.01](#)

For Information & Approval

The following is the future IRG meeting schedule:

- IRG Meeting #65: Guangzhou, China (hybrid), 2025-10-13/17 — **host and location confirmed — approved by WG 2**
- IRG Meeting #66: Virtual (Webex), 2026-03-16/20 — **approved by WG 2**
- IRG Meeting #67: Japan (hybrid), Fall 2026 — **hosting by SAT and location tentative — for approval by WG 2**
- IRG Meeting #68: Virtual (Webex), 2027-03-15/19 — **for approval by WG 2**
- IRG Meeting #69: Fall 2027 — **seeking host**

As a reminder, the Spring meeting is virtual (Webex), and the Fall meeting is hybrid, which requires a host for in-person attendees. If there is no host, the meeting shall be virtual.

02) New IRG Home Page & Document Register

Recommendations: [M63.02](#)

For Information

A new IRG home page and document register were established in July of 2024, both of which are hosted on the Unicode Consortium's website, and the "irg" and "irgeditors" mailing lists were also migrated to a new server. Approximately half of the IRG documents have been migrated to the new IRG document register thus far, and the IRG Convenor will continue this effort as time permits. All available documents for IRG Meeting #31 and later have been migrated.

03) UCV & NUCV Lists Updates

Recommendations: [M63.03](#), [M63.04](#), [M64.02](#) & [M64.03](#)

For Information

The IRG has been expanding the UCV (*Unifiable Component Variations*) and NUCV (*Non-Unifiable Component Variations*) lists in its IRG Working Document Series (IWDS), specifically IWDS Series 2, based on the reviews of IRG working sets during each meeting. As a result, the IRG has confirmed two updates since the previous summary report: document IRG N2680 during IRG Meeting #63, and document IRG

N2746 during IRG Meeting #64. The next update is expected to be confirmed during IRG Meeting #65 as document IRG N2813.

04) IRG P&P Updates

Recommendations: [M64.18](#)

For Information & Feedback

The IRG Convenor was assigned an action item to prepare a draft of IRG P&P Version 18 for review during IRG Meeting #65 that incorporates the proposed changes in the following documents:

- IRG N2711: Allow only one *kTotalStrokes* property value
- IRG N2713: Remove first residual stroke value from submission requirements
- IRG N2714R: Remove IRG source prefix information from Annex D
- IRG N2715R: Update Annex K to add 6 as a new first residual stroke (aka FS) value for unclear stroke types

The IRG P&P Version 18 update will also reflect a file format change, from a PDF file exported from Microsoft Word to an HTML file. This format change is expected to make it easier to reference specific sections of the IRG P&P.

The IRG would like the speed, efficiency, and repertoire size issues, as described in documents IRG N2734 and IRG N2791, to be discussed during WG 2 Meeting #72.

05) Normalization Guideline Updates

Recommendations: [M63.05](#)

For Information

The IRG confirmed ROK Normalization Rules Version 1.6 (document IRG N2573) and Vietnam Han-Nom Normalization Guidelines Version 2 (document IRG N2673R) during IRG Meeting #63, which were posted to IWDS Series 5.

06) IRG Working Set 2024

Recommendations: [M63.06](#) & [M64.04](#)

For Information

Seven IRG member bodies—China, ROK, SAT, TCA, UK, UTC, and Vietnam—submitted a total of 4,674 ideographs for IRG Working Set 2024. The IRG has conducted two rounds of review of IRG Working Set 2024, for Versions 1.0 and 2.0, since the previous summary report. The review of IRG Working Set 2024 Version 3.0 is scheduled to begin on 2025-05-30.

07) Urgently Needed Characters

Recommendations: [M63.13](#), [M63.14](#) & [M64.05](#)

For Information

The IRG accepted the following three Urgently Needed Characters (UNCs) during IRG Meeting #63:

- One proposed by China in document IRG N2691 (Extension C: **U+2B73B**)
- Two proposed by TCA in document IRG N2709 (Extension C: **U+2B73C** and **U+2B73D**)

The IRG also accepted the following 12 UNCs during IRG Meeting #64:

- Nine proposed by China in document IRG N2753 (Extension E: **U+2CEA2 through U+2CEAA**)
- Three proposed by China in document IRG N2802R2 (Extension E: **U+2CEAB through U+2CEAD**)

The 15 new code points in the Extensions C and E blocks are targeted for inclusion in ISO/IEC 10646 7th Edition.

08) Disunifications

Recommendations: [M63.15](#), [M64.06](#), [M64.07](#), [M64.08](#) & [M64.09](#)

For Information, Review & Action

The IRG accepted during IRG Meeting #63 the disunification of U+2335F and U+2F980 as proposed in document IRG N2771, with the disunified form encoded at **U+2B73E** in the Extension C block.

The IRG also accepted during IRG Meeting #64 the following:

- The disunifications of 16 T-source ideographs as proposed in document IRG N2778, with the disunified forms being horizontally extended to existing code points in the Extensions A (1), B (12), C (1), F (1), and H (1) blocks
- The disunification of U+6138 as proposed in document IRG N2782, with the disunified form encoded at **U+2B81E** in the Extension D block
- The disunification of U+980B, U+FACB, and U+2F9FF as proposed in document IRG N2786, with the disunified form encoded at **U+2B81F** in the Extension D block

These two new code points in the Extension D block are targeted for inclusion in ISO/IEC 10646 7th Edition.

The disunification of U+2A50D as proposed in document IRG N2780, along with feedback from China in support of the proposed disunification in document IRG N2804, requires a response from Japan.

09) IRG Disunified Ideographs

Recommendations: [M63.16](#) & [M64.17](#)

For Information

The IRG maintains a list of disunified CJK Unified Ideographs from IRG Meeting #45 to present as IWDS Series 4. Document IRG N2710R, which records disunified CJK Unified Ideographs from IRG Meetings #45 through #63, was approved during IRG Meeting #64. Document IRG N2811, which records disunified CJK Unified Ideographs from IRG Meetings #45 through #64, is expected to be approved during IRG Meeting #65.

10) Horizontal Extensions

Recommendations: [M63.08](#), [M63.09](#), [M63.10](#), [M64.10](#), [M64.11](#), [M64.12](#) & [M64.13](#)

For Information, Review & Action

The IRG accepted during IRG Meeting #63 the 306-ideograph horizontal extension as proposed by ROK in document IRG N2643R2.

The IRG also accepted during IRG Meeting #64 the following:

- The 2,145-ideograph horizontal extension as proposed by China in document IRG N2805R2
- The 12-ideograph horizontal extension as proposed by TCA in document IRG N2779R2
- The single-ideograph horizontal extension as proposed by Vietnam in document IRG N2798

These horizontal extensions are targeted for inclusion in ISO/IEC 10646 7th Edition.

The horizontal extension issues as described in documents IRG N2040 and IRG N2722 require a response from Japan.

11) Representative Glyph & Source Reference Changes

Recommendations: [M63.07](#), [M63.11](#), [M63.12](#), [M64.14](#), [M64.15](#) & [M64.16](#)

For Information

The IRG accepted during IRG Meeting #63 the K-source representative glyph change for U+2E23A in the Extension F block as proposed in document IRG N2723.

The IRG also accepted the following changes during IRG Meeting #64:

- The G-source representative glyph changes as proposed in documents IRG N2747, IRG N2803R2, IRG N2805R2, and IRG N2807
- The T-source representative glyph changes as proposed in documents IRG N2777, IRG N2778, and IRG N2779R2
- The V-source representative glyph changes as proposed in documents IRG N2748, IRG N2798, and IRG N2801
- The *kIRG_GSource* property value changes as proposed in document IRG N2803R2 (excluding U+6FF2)
- The *kIRG_TSource* property value changes as proposed in documents IRG N2777 and IRG N2779R2
- The *kIRG_VSource* property value changes as proposed in document IRG N2798
- The *kRSUnicode* and *kTotalStrokes* property value changes as proposed in documents IRG N2779R2, IRG N2798, and IRG N2805R2

These representative glyph, IRG source reference, *kRSUnicode*, and *kTotalStrokes* changes are targeted for inclusion in ISO/IEC 10646 7th Edition. The possible disunifications of U+9D56 and U+3125D that are discussed in documents IRG N2800 and IRG N2812, along with issues with U+6FF2, will be discussed in a future IRG meeting.

12) Encoding CJKV Components

Recommendations: [M63.17](#) & [M64.19](#)

For Information

The IRG reviewed during IRG Meeting #64 document IRG N2799, which is a preliminary proposal to encode several hundred CJKV components as CJK Unified Ideographs in a new block. The new block is tentatively named **CJK Unified Ideographs Components**, which is modeled after the name of the *Tangut Components* block. CMEX (*Chinese Foundation For Digitization Technology*), which is associated with TCA, also developed in parallel an online *CJK Components Review Tool* that IRG experts are encouraged to use to discuss and add to the repertoire.

13) Jianzi Musical Notation

Recommendations: [M63.18](#)

For Information

In parallel to WG 2 experts and UTC working groups discussing the overall proposal architecture in document IRG N2728, China submitted a nine-ideograph UNC proposal as document IRG N2753 (See Section 07), and the six CJK components (Appendix E) and 119 Jianzi fingering letters (Appendix F) were merged into the proposal for establishing a CJK Unified Ideographs Components block (See Section 12).

14) Encoding Script-Hybrid Han Ideographs

Recommendations: [M63.19](#) & [M64.20](#)

For Information

The consensus among IRG experts is to continue discussing the topic of encoding script-hybrid Han ideographs based on proposals submitted for discussion during future IRG meetings. Some issues, such as how to count the strokes of non-Han components—in particular, those of the Latin script—have already been worked out.

15) CAAPH IVD Collection

Recommendations: [M64.21](#)

For Information

The IRG supports and endorses the registration of the new **CAAPH** (*Culture and Art Publishing House*)

IVD collection whose preliminary version is proposed in document IRG N2796R2, and recommends that the document author work with the IVD Registrar to prepare and submit the IVD collection and its sequences to the Unicode Consortium for public review and subsequent registration.

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