Title: ISO/IEC 10646 repertoire proposal post CDAM2.4

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Executive Summary:

This document describes in some details the content of CDAM2.4 in comparing the repertoire that was adopted during WG2 #70, and the further refinements done to the repertoire and CJK Horizontal Extensions. The result of these considerations can be seen in the updated version WG2 N5246 at https://www.unicode.org/wg2/docs/n5235R-cdam2-3-drafchart.pdf.

Amendment 2.4 repertoire

The document WG2 N5234 (WG2 #70 recommendations, dated 6-22-2023) made a set of recommendations defining the content for CDAM2.3 but left some latitude to refine the content based on additional feedback and further progress on some of the new repertoire. Document WG2 N5241 provided details and reference concerning the repertoire content of CDAM 2.3. Following comments made on CDAM2.3 and their disposition (see WG2 N5245), minor adjustments were made to the repertoire. This document presents only repertoire and glyph changes between CDAM 2.3 and CDAM 2.4.

Updates made because of the disposition of comments on CDAM2.3:

The disposition introduces 10 new characters to the repertoire:
- 1 Khitan Small Script character as:
    - 18CFF KHITAN SMALL SCRIPT-18CFF,
- 7 pictographs as:
    - 1FA89   HARP
    - 1FA8F   SHOVEL
    - 1FABE   LEAFLESS TREE
    - 1FAC6   FINGERPRINT
    - 1FADC   ROOT VEGETABLE
    - 1FADF   SPLATTER
    - 1FAE9   FACE WITH BAGS UNDER EYES
- 2 CJK Stroke characters as:
    - 31E4   CJK STROKE HZXG
    - 31E5   CJK STROKE SZP

These new characters are described in the following table which includes all the proposed new ranges with pointers to the relevant documentations:

Name	Ranges	Document(s)
Khitan Small Script	18CFF	https://www.unicode.org/L2/L2023/23065-n5205-khitan-small-blank.pdf
Symbols and Pictographs Extended-A	1FA89 1FA8F 1FABE 1FAC6 1FADC 1FADF 1FAE9	https://www.unicode.org/L2/L2023/23236r-esc-report-q4-2023.pdf
CJK Strokes	31E4-31E5	https://www.unicode.org/L2/L2023/23220-new-cjk-strokes.pdf

The disposition also modifies the glyph of 4 Tangut characters (U+17121, U+17C51, U+17D0B, U+180DF), one Khitan Small Script character (U+18BD2) and one K source horizontal extension (U+25A38, K source: K6-110D).

Name	Ranges	Document(s)
Tangut	17121 17C51 17D0B 180DF	https://www.unicode.org/wg2/docs/n5237-Tangut-glyph-corrections.pdf
Khitan Small Script	18BD2	https://www.unicode.org/L2/L2023/23199-khitan-glyph-corr.pdf
CJK Unified Ideographs Extension B	25A36 (K source)	https://www.unicode.org/wg2/docs/n5245-PDAM20-3-DOC-all.pdf (disposition of comments for CDAM2.3)

It also adds 8 standardized variation sequences (see https://www.unicode.org/L2/L2023/23212r-quotes-svs-proposal.pdf and moves two J sources JMJ references newly introduced in this amendment (see WG2 N5245):

- JMJ-034551 from U+21D12 to U+21D14
- JMJ-055848 from U+8FF3 to U+2EDE0 (in newly proposed CJK Unified Ideograph Extension I).

Updates made to stay synchronized with Unicode 16.0 (planned for 2024):

One character was added to the Egyptian Hieroglyphs extension after further feedback from Egyptologists (inserted at U+143E8 with following characters shifted accordingly). To keep the synchronization with Unicode 16.0 the following 3 Latin characters are also added:

- A7DA   LATIN CAPITAL LETTER LAMBDA
- A7DB   LATIN SMALL LETTER LAMBDA
- A7DC   LATIN CAPITAL LETTER LAMBDA WITH STROKE

These new characters are described in the following table which includes all the proposed new ranges with pointers to the relevant documentations:

Name	Ranges	Document(s)
Egyptian Hieroglyphs Extension-A	143E8	https://www.unicode.org/wg2/docs/n5240R2-hieroglyphs.pdf
Latin Extended-D	A7DA A7DB A7DC	https://www.unicode.org/L2/L2023/23191-three-latin-additions.pdf

This makes a total of 14 code points addition compared to CDAM 2.3.

Source references for Egyptian Hieroglyphs

In CDAM2.3 the source references for Egyptian Hieroglyphs were documented in new text (clause 27) and corresponding text file: Hieroglyphsources.txt. Unicode 16.0 is introducing a new Draft Unicode Standard Annex: UAX #57: Unicode Egyptian Hieroglyph Database https://www.unicode.org/reports/tr57/ which includes the same content in more details. It is preferable to simply link to it as a normative reference to avoid duplication of effort and to improve synchronization between Unicode and ISO/IEC 10646.

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