

**Title:** WG2 Consent Docket  
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**Date:** October 2, 2017  
**Action:** For consideration by UTC

**L2/17-353**

WG2 #66 (and SC2) met in Hohhot, Inner Mongolia, China from September 25 to 29, 2017. During that meeting a number of recommendations were agreed to for the PDAM 1 and PDAM 2 of the 5th Edition. See WG2 N4874 (=L2/17-349) for the full details of all the recommendations.

As usual, in this consent docket, we summarize just the parts of the actions taken by WG2 which result in a different status between WG2 and the UTC regarding various character approvals. These are the differences where the UTC needs to make some decision regarding how to synchronize approvals (or to oppose a proposed change).

Note that the pipeline page: <http://www.unicode.org/alloc/Pipeline.html> has already been updated to reflect changes in approvals by WG2, and to highlight differences from the current approvals by the UTC, so that page can be useful in following the discussion below on the individual issues.

### **General Information on PDAM 1.3 and PDAM 2.1 to the 5th Edition**

Because the comments on PDAM 1.3 were resolved, Amendment 1 to the 5th Edition will proceed to an enquiry draft (DAM1). The full listing of the final repertoire for DAM 1 can be seen in WG2 N 4872 = [L2/17-372](#).

Comments on PDAM 2.1 were disposed, and a new PDAM 2.2 ballot will be issued. In addition, WG2 added new repertoire to PDAM 2.2, which will require discussion by the UTC. The full listing of the final repertoire for PDAM 2.2, including additions, can be seen in WG2 N4904 = [L2/17-366](#).

With regard to synchronization, Amendment 1 should mostly align with the expected repertoire of Unicode 11.0 (scheduled for release in June, 2018), with some minor additions from Amendment 2. The potential repertoire for Unicode 12.0 (scheduled for release in April, 2019) is still open, but will likely contain additional content from Amendment 2.

## **Amendment 1**

### **A. Armenian**

The UTC approved two additions for Armenian, but WG2 agreed to moving the code points were in order to allow for the addition of uppercase forms at a later point. Evidence was provided for the SMALL LETTER TURNED AYB in a Kurdish orthography, though no examples of uppercase have yet been found.

058B => 0560 ARMENIAN SMALL LETTER TURNED AYB  
058C => 0588 ARMENIAN SMALL LETTER YI WITH STROKE

Recommendation: Accept the two code point changes.

## **B. Chess Notation (Miscellaneous Symbols and Arrows)**

### **B.1. Name Changes for 3 characters**

Based on a USNB ballot comment, WG2 agreed to change the names of three Chess Notation characters from INTERLOCKED to OVERLAPPING, so the names more accurately describe the glyphs. The UTC had approved the characters at the January 2017 UTC, but with the originally proposed names in WG2 N4738 = [L2/17-033](#) (i.e. "INTERLOCKED").

The following characters were affected:

U+2BBA INTERLOCKED WHITE SQUARES => OVERLAPPING WHITE SQUARES

U+2BBB INTERLOCKED WHITE AND BLACK SQUARES => OVERLAPPING WHITE AND BLACK SQUARES

U+2BBC INTERLOCKED BLACK SQUARES => OVERLAPPING BLACK SQUARES

The name changes (to "OVERLAPPING") have not yet been approved by the UTC.

Recommendation: Accept the three name changes.

### **B.2. Name changes for 4 characters**

At the July-August 2017 UTC meeting, the UTC inserted "PAWNS"/ "PAWN" to the names of 4 characters, based on PRI feedback. During discussion at WG2, the proposal author explained that the symbols are also used outside of the context of chess notation, so the USNB withdrew the comment.

In order to remain in synch with the PDAM, the following four characters would need to have "PAWN"/"PAWNS" removed from their names:

2BFA UNITED PAWNS SYMBOL => UNITED SYMBOL

2BFB SEPARATED PAWNS SYMBOL => SEPARATED SYMBOL

2BFC DOUBLED PAWNS SYMBOL => DOUBLED SYMBOL

2BFD PASSED PAWN SYMBOL => PASSED SYMBOL

Recommendation: Accept the four name changes.

## **C. Dogra**

In its request for future additions (N4869 = [L2/17-201](#)), the US requested the addition of a new character, U+1183B DOGRA VOWEL SIGN VOCALIC RR, a character the UTC had approved at the August UTC.

Since the Dogra script was in PDAM 1.3 and the character VOWEL SIGN VOCALIC RR was not deemed controversial, WG2 agreed to add the character to Amendment 1, inserting it in the position U+11832, so it would be consistent with order found in other Brahmi-derived script blocks. The insertion of the character in this position results in a shift of code positions of the following characters (i.e., down one position in the code chart):

11832 =>11833 DOGRA VOWEL SIGN E

11833 => 11834 DOGRA VOWEL SIGN AI

11834 => 11835 DOGRA VOWEL SIGN O

11835 => 11836 DOGRA VOWEL SIGN AU

11836 =>11837 DOGRA SIGN ANUSVARA

11837 =>11838 DOGRA SIGN VISARGA

11838 =>11839 DOGRA SIGN VIRAMA

11839 =>1183A DOGRA SIGN NUKTA

1183A =>1183B DOGRA ABBREVIATION SIGN

Recommendation: Accept the code point changes.

## **D. Chess Symbols**

### **D.1. XIANGQI name changes**

Based on a ballot comment from the UK, WG2 approved name changes to 14 Chinese chess symbols, so the color (“RED”/“BLACK”) comes after “XIANGQI”. The original names, proposed in N [4748 \(L2/16-255\)](#), were XIANGQI preceded by RED/BLACK. The use of “RED XIANGQI” and “BLACK XIANGQI” might suggest these are two different games, instead of one game, “XIANGQI”.

The following are the proposed name changes:

1FA60 RED XIANGQI GENERAL => XIANGQI RED GENERAL  
1FA61 RED XIANGQI MANDARIN => XIANGQI RED MANDARIN  
1FA62 RED XIANGQI ELEPHANT => XIANGQI RED ELEPHANT  
1FA63 RED XIANGQI HORSE => XIANGQI RED HORSE  
1FA64 RED XIANGQI CHARIOT => XIANGQI RED CHARIOT  
1FA65 RED XIANGQI CANNON => XIANGQI RED CANNON  
1FA66 RED XIANGQI SOLDIER => XIANGQI RED SOLDIER  
1FA67 BLACK XIANGQI GENERAL => XIANGQI BLACK GENERAL  
1FA68 BLACK XIANGQI MANDARIN => XIANGQI BLACK MANDARIN  
1FA69 BLACK XIANGQI ELEPHANT => XIANGQI BLACK ELEPHANT  
1FA6A BLACK XIANGQI HORSE => XIANGQI BLACK HORSE  
1FA6B BLACK XIANGQI CHARIOT => XIANGQI BLACK CHARIOT  
1FA6C BLACK XIANGQI CANNON => XIANGQI BLACK CANNON  
1FA6D BLACK XIANGQI SOLDIER => XIANGQI BLACK SOLDIER

Recommendation: Accept the fourteen name changes.

## **Amendment 2**

### **E. Additions to Latin Extended-D**

#### **E.1. Thorn with Stroke**

WG2 approved 2 thorn characters with diagonal stroke, which were proposed in document N[4836 \(=L2/17-236\)](#):

A7C0 LATIN CAPITAL LETTER THORN WITH DIAGONAL STROKE  
A7C1 LATIN SMALL LETTER THORN WITH DIAGONAL STROKE.

During discussion at the July/August 2017 UTC, a contrast between the thorn with horizontal stroke (U+A764/U+A765) vs. the diagonal stroke was not noted in the evidence provided. A revision of the proposal including additional information will be prepared for the UTC.

Recommendation: Discuss at UTC.

#### **E.2. Characters for early Pinyin**

Three characters for early Pinyin from document N[4782 \(=L2/17-013\)](#) were approved by WG2:  
A7C4 LATIN CAPITAL LETTER C WITH PALATAL HOOK

A7C5 LATIN CAPITAL LETTER S WITH HOOK  
A7C6 LATIN CAPITAL LETTER Z WITH PALATAL HOOK.

The UTC discussed this proposal at the January 2017, but took no action. The concern voiced at the meeting was that the characters represented experimental usage, and more evidence was requested.

Recommendation: Accept the 3 characters.

#### **F. Sinological Latin Letters (Latin Extended-E)**

Two Sinological Latin letters, proposed in N [4842](#) (=L2/17-299) were approved by WG2:

AB66 LATIN SMALL LETTER DZ DIGRAPH WITH RETROFLEX HOOK

AB67 LATIN SMALL LETTER TS DIGRAPH WITH RETROFLEX HOOK.

The script ad hoc reviewed this proposal in September (see N [4885](#)), and felt the evidence was compelling, but requested a name change (i.e., add RETROFLEX to name for U+AB67). The proposal authors agreed to the name change at WG2, and it was incorporated as part of the approved name.

Recommendation: Accept the two characters.

#### **G. Double oblique hyphen with falling dots (Supplemental Punctuation)**

WG2 approved the character U+2E4F DOUBLE OBLIQUE HYPHEN WITH FALLING DOTS from document N[4902](#) (=L2/17-342). The proposal has not yet been seen by the UTC.

Recommendation: Discuss at the UTC.

#### **H. Five Additions to CJK Unified Ideographs**

##### **H.1. Three UNC for Element Names**

WG2 approved three Urgently Needed Characters required for chemical terminology, based on N [4830](#) (=L2/17-156):

9FEB (with horizontal extensions documented in N[4832](#) =L2/17-397)

9FEC (with horizontal extensions documented in N[4832](#) =L2/17-397)

9FED

##### **H.2. Two UNC from Japan**

Two UNC characters, proposed in N [4831](#) (=L2/17-396) were approved by WG2:

9FEE

9FEF

All five characters were reviewed at the IRG meeting #48 (Seoul, ROK, June 2017), and appear to be unproblematic.

Recommendation: Accept the 5 characters.

#### **I. Changes to Egyptian Hieroglyphs Format Controls**

##### **I.1 Block name change**

Based on ballot comments, WG2 agreed to change the block name from :  
Egyptian Hieroglyphs Format Controls => Egyptian Hieroglyph Format Controls.

This request seems reasonable.

Recommendation: Accept the name change to the block.

### **I.2. Renamed characters**

Ballot comments recommended name changes, which were agreed to in the WG2 meeting. The following are the name changes:

13432 EGYPTIAN HIEROGLYPH INSERT TOP START => EGYPTIAN HIEROGLYPH START AT TOP  
13433 EGYPTIAN HIEROGLYPH INSERT BOTTOM START =>EGYPTIAN HIEROGLYPH START AT BOTTOM  
13434 EGYPTIAN HIEROGLYPH INSERT TOP END =>EGYPTIAN HIEROGLYPH END AT TOP  
13435 EGYPTIAN HIEROGLYPH INSERT BOTTOM END =>EGYPTIAN HIEROGLYPH END AT BOTTOM  
13437 EGYPTIAN HIEROGLYPH INSERT SEGMENT START =>EGYPTIAN HIEROGLYPH BEGIN SEGMENT  
13438 EGYPTIAN HIEROGLYPH INSERT SEGMENT END =>EGYPTIAN HIEROGLYPH END SEGMENT

The proposed name changes seem acceptable.

Recommendation: Approve the 6 character names changes.

### **J. Additions to Miao**

WG2 approved 16 characters in Miao block, based on [N4845](#), but with name of U+16F4F changed to MIAO SIGN NUKTA. The proposal author has revised the proposal based on feedback from the WG2 meeting (see [L2/17-345](#))

Recommendation: Discuss at the UTC.

### **K. Two additions to Ideographic Symbols and Punctuation**

WG2 approved 2 marks for use with Old Chinese, based on document N [4847](#): ([L2/17-310](#)):  
16FE2 OLD CHINESE HOOK MARK  
16FE3 OLD CHINESE ITERATION MARK

The script ad hoc reviewed the proposal (see N [4885](#)), and requested more evidence on the choice of the representative glyph for OLD CHINESE HOOK MARK. The author of the proposal, Andrew West, will be submitting a revised proposal with additional information on the representative glyph.

Recommendation: Discuss at the UTC.

### **L. Khitan Small Script**

Note: Khitan Small Script was moved from Amendment 1 to Amendment 2, which was a USNB comment. (The USNB had requested the removal of Khitan Small Script from Amendment 1 because the script no longer contained format control characters, and hence was considered incomplete and not mature.)

### **L.1. Move KHITAN SMALL SCRIPT ITERATION MARK**

Based on a ballot comment, WG2 agreed to move KHITAN SMALL SCRIPT ITERATION MARK from U+18CFD to U+18B00, the first character in the KHITAN SMALL SCRIPT block. The rationale was that the character participates in cluster formation, and hence should be kept together with the main set of characters.

Recommendation: Discuss at the UTC.

### **L.2. Removal of KSS Radicals**

WG2 agreed to remove 12 radical characters from the block, based on a ballot comment. The main reason for the radicals' removal is based on the belief that radicals of Khitan Small Script should be unified with the radicals for Khitan Large Script and Jurchen. In addition, the radicals are a modern innovation and do not participate in clustering, and their inclusion in the block was deemed to be potentially confusing to users and implementers.

The following 12 characters were removed, and the holes thereby created were closed up:

18B69 (Radical-03)  
18BD2 (Radical-06)  
18C02 (Radical-07)  
18C15 (Radical-08)  
18C32 (Radical-10)  
18C3B (Radical-11)  
18C57 (Radical-13)  
18C6A (Radical-14)  
18C86 (Radical-15)  
18C94 (Radical-16)  
18C9E (Radical-17)  
18CDD (Radical-20)

As a result of this move of the ITERATION MARK to U+18B00, and removal of 12 radical characters, a number of shifts occurred in the code block.

Recommendation: Discuss at the UTC.

### **M. Tangut**

The Editor of 10646 added 6 Tangut ideograph additions, from 187F2..187F7, based on [N4896](#)

Recommendation: Accept the 6 Tangut ideograph additions from 187F2..187F7.

### **N. Changes to Small Kana Extension**

#### **N.1. Small Kana Extension code block and code point changes**

WG2 approved the addition of 7 small Kana characters. However, the block and code points vary from what the UTC had approved for the 7 characters.

Recommendation: Change (a) the code block (from Kana Extended-A => Small Kana Extension) and (b) code points as follows for the 7 small Kana characters, so we are in synch with WG2:

1B128 => 1B150 HIRAGANA LETTER SMALL WI  
1B129 => 1B151 HIRAGANA LETTER SMALL WE  
1B12A => 1B152 HIRAGANA LETTER SMALL WO  
1B12C => 1B164 KATAKANA LETTER SMALL WI  
1B12D =>1B165 KATAKANA LETTER SMALL WE  
1B12E =>1B166 KATAKANA LETTER SMALL WO  
1B12F =>1B167 KATAKANA LETTER SMALL N

## **N.2. SMALL KO characters**

WG2 agreed to remove the following two characters from the Small Kana Extension block:

1B132 HIRAGANA LETTER SMALL KO  
1B155 KATAKANA LETTER SMALL KO

The UTC had accepted HIRAGANA LETTER SMALL KO and KATAKANA LETTER SMALL KO in February 2011, and changed their code points in November 2016 to U+1B127 and U+1B12B, respectively, in the Kana Extended-A block.

For the moment, the two SMALL KO characters were removed from the Amendment. Japan plans to continue investigating the small Kana characters, potentially proposing a larger repertoire.

Recommendation: Discuss at the UTC.

## **O. Shuishu**

### **O.1. Shuishu Logograms**

WG2 added a new block, “Shuishu Logograms”, which extends from 1B300..1B4FF, based on N [4894 \(L2/17-336\)](#). The number of characters is 486.

This document has not yet been seen in the UTC or the script ad hoc, but there are significant issues with the character names, which have the format “SHUISHU LOGOGRAM QYED7-A”, etc.

Recommendation: Discuss at the UTC.

### **O.2. Shuishu Radicals**

WG2 also approved 47 Shuishu Radicals in a new “Shuishu Radicals” block that extends from 1B500..1B52F.

Recommendation: Discuss at the UTC.

## **P. Wancho**

WG2 approved the Wancho script for inclusion in PDAM2, including the 4 characters for tones that the UTC had not yet accepted.

The 4 tone characters are:

1E2EC WANCHO TONE TUP  
1E2ED WANCHO TONE TUP MANG  
1E2EE WANCHO TONE OKOI  
1E2EF WANCHO TONE OKOI MANG

The UTC held off accepting these characters, pending documentation showing their use. The proposal author, Michael Everson, plans to submit a letter from the script's creator, confirming the use of the characters.

Recommendation: Discuss at the UTC.

#### **Q. Billiard Games character (Miscellaneous Symbols and Pictographs)**

WG2 accepted a new character, U+1F93F BILLIARD GAMES. During discussion, changing the current eight-ball glyph of 1F3B1 BILLIARDS back to the original shape -- a cue and six balls -- was considered a change in semantics. It was also noted that most vendors use the eight-ball glyph for BILLIARDS. Since BILLIARDS is now closely tied to the eight-ball, a new character was put forward, and approved at WG2.

Recommendation: Discuss at the UTC.

#### **R. Additions to Supplemental Symbols and Pictographs**

Six characters were approved at WG2 in the Supplemental Symbols and Pictographs block: five animals and one fantasy being:

1F9A1 MAMMOTH

1F9A2 DODO

1F9A3 BADGER

1F9A4 SQUIRREL

1F9A5 SWAN

1F97B TROLL

Recommendation: Discuss at the UTC.

#### **S. Name correction for U+1FA08 (Chess Symbols)**

Based on a USNB comment, WG2 agreed to add the missing hyphen in the name of U+1FA08:

NEUTRAL CHESS KNIGHT ROTATED FORTYFIVE DEGREES => U+1FA08 NEUTRAL CHESS KNIGHT ROTATED FORTY-FIVE DEGREES

Recommendation: Accept the name correction.