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Title:	Review report of KP part of preliminary 15.1 Alpha Code Charts
Date:	2023-01-15
Action:	To be considered by UTC

We recently received preliminary 15.1 Alpha Code Charts generated by Mr. Michel Suignard. Per decisions on previous UTC meeting, this version features KP glyphs in URO, Extension A and Extension B blocks of CJK Unified Ideographs. Using IDS program, we checked over the code charts to see if there is any major issues in them. We checked:

- (1) Wrong mappings, checked by IDS and reading to determine if the code point given by KP in UniHan and the font matches in shape and meaning;
- (2) If the count of components matches other sources (so potentially could be disunified or resubmitted in future working sets).

Among all differences from IDS program, most of them are simply unifiable components, but some of them are worth noting and shown in the following tables. As a conclusion, we can confirm there is no major issues found in the new Code Charts, and there's no need to remap any code points.

1) cognate and unifiable by UCV rules

The KP glyph on the code point in first column is identical or more similar to the glyph on the second column. That's because there are unifiable ideograph pairs on Unicode. While the actual shape is more similar to the second column, font designer should have designed them based on the first column's abstract shape so there is no issue in code point mapping.

Current KP mapping	Another possible mapping	KP Glyph	Other sources' glyphs	Notes
U+3BDE	U+23693	𣎵	3BDE <small>木 75.12</small> 𣎵 𣎵 𣎵 23693 <small>木 75.12</small> 𣎵 <small>GHZ-21298.03 T3-5133 KP1-4D4C GKX-0554.19</small>	
U+418B	U+9F9D	𣎶	418B <small>禾 115.16</small> 𣎶 𣎶 𣎶 <small>T7-584C K3-2D61 KP1-62C7</small> 9F9D <small>龜 213.5</small> 𣎶 𣎶 𣎶 𣎶 <small>G5-5B33 T3-5E47 J0-6354 K1-7045</small>	glyphs of two code points got mixed
U+4CF9	U+2A13A	𣎷	4CF9 <small>鳥 196.11</small> 𣎷 𣎷 2A13A <small>鳥 196.11</small> 𣎷 𣎷 <small>G3-5E34 KP1-8F3D GKX-1496.40 UTC-00943</small>	
U+4E17	U+2000D	卅	4E17 <small>一 1.3</small> 卅 卅 卅 卅 卅 <small>GE-3024 T4-2155 MD-4E17 J0-5242 KP1-3413</small> 2000D <small>一 1.4</small> 卅 <small>GKX-0077.13</small>	
U+5C12	U+21B57	𠂇	5C12 <small>小 42.2</small> 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 <small>GE-3677 T2-2155 HB2-C974 J3-4F5B K2-2E2B KP1-3EC8</small> 21B57 <small>小 42.2</small> 𠂇 <small>GKX-0296.22</small>	
U+5C35	U+2BD52	𣎸	5C35 <small>九 43.12</small> 𣎸 𣎸 𣎸 𣎸 𣎸 <small>G5-3751 T4-4949 J1-3A75 K2-2E37 KP1-3EE4</small> 2BD52 <small>九 43.12</small> 𣎸 <small>GKX-1003.70</small>	
U+657B	U+22FCC	𣎹	657B <small>支 66.11</small> 𣎹 𣎹 𣎹 𣎹 <small>GE-3B40 T2-5067 HB2-E5C0 KP1-4850</small> 22FCC <small>支 66.11</small> 𣎹 𣎹 <small>GKX-0474.49 H-9B68</small>	

U+8B82	U+27B66	護	<p>8B82 言 149.15 護護護 護護 G3-742E T2-6E27 HB2-F758 K2-6164 KP1-77D3</p> <p>27B66 言 149.15 護 GHZ-64030.07</p>	
U+6685	U+23236	哂	<p>6685 日 72.9 哂哂哂 哂哂 G3-4823 T4-3D69 H-FC62 K2-387B KP1-49AC</p> <p>23236 日 72.9 哂 T6-533E</p>	
U+66DA	U+232E1	矇	<p>66DA 日 72.13 矇矇矇矇矇矇矇 G5-4A31 T2-6166 HB2-EFDA J0-5B24 K1-605C KP1-4A00 V0-395E</p> <p>232E1 日 72.14 矇 H-93DA</p>	
U+702C	U+7028	瀨	<p>702C 水 85.16 瀨瀨瀨瀨 瀨 GE-4046 T3-5A53 H-8DF4 J0-4025 KP1-5450</p> <p>7028 水 85.16 瀨瀨瀨瀨瀨 G1-647E HB1-C375 T1-7842 J3-773E K0-566E</p>	瀨's KP taken by KP0—DAA4
U+720B	U+24455	爚	<p>720B 火 86.16 爚爚 爚爚 GE-414B T3-5C59 K1-746C KP1-5653</p> <p>24455 火 86.15 爚 GKX-0686.23</p>	
U+7589	U+24D01	疊	<p>7589 田 102.17 疊疊 疊 疊 GE-432C T3-5C62 J0-6149 KP1-5B21</p> <p>24D01 田 102.17 疊疊 疊 GKX-0767.08 T7-5378 VN-24D01</p>	glyphs of two code points got mixed

U+76CF	U+2506B	盞	76CF 皿 108.5 盞 G0-5535 2506B 皿 108.5 盞 盞 GHZ-80031.15 T6-3A25 盞 KP1-5D4F	
U+7C06	U+25C83	筵	7C06 竹 118.11 筵 筵 筵 筵 筵 筵 GE-463A T2-5E37 HB2-EDCA J1-5280 K2-5065 KP1-64DA 25C83 竹 118.11 筵 GKX-0897.15	
U+8346	U+834A	荊	8346 𠂔 140.6 荊 荊 荊 刀 18.8 G0-3E23 T3-3E57 KP1-6E6A 834A 𠂔 140.6 荊 荊 荊 荊 荊 荊 GE-494C HB1-AFF0 T1-5774 J0-3755 K0-7B2A VN-0834A	荊's KP source taken by KP0–F3EC
U+96DF	U+5DC2	嶺	96DF 佳 172.10 嶺 嶺 嶺 嶺 嶺 嶺 G3-3970 T2-643F HB2-F173 J1-6679 K2-6C32 KP1-83F7 5DC2 山 46.15 嶺 嶺 嶺 G5-3F37 HB2-F172 T2-643E	
U+981A	U+2948D	頸	981A 頁 181.5 頸 頸 頸 頸 GE-542D T3-4A56 J0-375B KP1-8699 2948D 頁 181.5 頸 GHZ-74366.12	
U+217EE	U+5A90	嬰	217EE 女 38.10 嬰 嬰 嬰 GKX-0268.23 T6-5163 KP1-3DB4 5A90 女 38.10 嬰 嬰 嬰 嬰 嬰 G3-3D44 HB2-DD47 T2-424D J1-396C K2-2C76	
U+239F7	U+2C194	殍	239F7 歹 78.6 殍 殍 殍 殍 T5-2E3C KP1-4F56 2C194 歹 78.6 殍 GKX-0580.15	

U+249E8	U+746F	瑯	<p>249E8 瑯 瑯 玉 96.9 GHG KP1-594E</p> <p>746F 瑯 瑯 瑯 瑯 瑯 玉 96.10 GE-424E HB1-87E3 T1-652B J0-6067 K0-554B</p>	瑯's KP taken by KP0— D7D7
U+24ACA	U+2919C	靈	<p>24ACA 靈 靈 靈 靈 玉 96.17 GKX-0745.20 T7-557C KP1-59E2 H-905F</p> <p>2919C 靈 雨 173.14 H-FD60</p>	
U+24B3E	U+2C3A8	甌	<p>24B3E 甌 甌 2C3A8 甌 瓦 98.6 TS-335D KP1-5A33 GKX-0749.04</p>	
U+24C67	U+2DED0	噪	<p>24C67 噪 噪 2DED0 噪 田 102.6 TS-3363 KP1-5AE3 JMJ-041389</p>	
U+2579B	U+2E0C4	稞	<p>2579B 稞 稞 2E0C4 稞 禾 115.6 T4-3368 KP1-6202 JMJ-043169</p>	
U+257D9	U+257DF	𪎭	<p>257D9 𪎭 𪎭 𪎭 禾 115.8 GKX-0855.27 T6-5621 KP1-622F</p> <p>257DF 𪎭 𪎭 禾 115.8 GHZ-42612.11 H-9643</p>	
U+27070	U+85D1	萑	<p>27070 萑 萑 萑 艸 140.15 GHZ-53321.07 T7-494F KP1-702D</p> <p>85D1 萑 萑 萑 萑 艸 140.14 G3-6B3B HB2-F2D5 T2-6660 K2-5A46</p>	
U+27BD5	U+27BD6	𪎮	<p>27BD5 𪎮 𪎮 𪎮 27BD6 𪎮 谷 150.14 GKX-1191.07 T5-713E KP1-7818 GHZ-63907.11</p>	

U+29A14	U+5C33	爿	29A14 <small>骨 188.3</small> 爿 爿 <small>GKX-1448.04 KP1-8AA9</small> 5C33 <small>爿 43.10</small> 爿 爿 爿 <small>G5-3752 HB2-DD4C T2-4252</small>	
U+29B3B	U+2EAC4	髹	29B3B <small>髹 190.6</small> 髹 髹 <small>T4-5538 KP1-8B6B</small> 2EAC4 <small>髹 190.6</small> 髹 <small>JMJ-054715</small>	

2) cognate but NUCV

On following two cases, the code point pair are variant and cognate, however the different part is on a NUCV entry.

Current KP mapping	Another possible mapping	KP Glyph	Other sources' glyphs for col.2	Notes
U+7222	U+3E0F	𤇗	7222 <small>火 86.19</small> 𤇗 𤇗 𤇗 𤇗 <small>GE-4154 T2-6F35 HB2-F7E6 KP1-5662</small> 3E0F <small>火 86.19</small> 𤇗 𤇗 𤇗 <small>G5-7979 T4-6A50 JA-2462</small>	cognate but NUCV
U+7F80	U+2E29A	𤇗	7F80 <small>𤇗 122.12</small> 𤇗 𤇗 𤇗 𤇗 𤇗 <small>GE-477E T7-4161 J1-5525 K2-5369 KP1-68CB</small> 2E29A <small>𤇗 122.12</small> 𤇗 <small>G5Y-0689.00</small>	cognate but NUCV

3) cognate, different in shape

Current KP mapping	Another possible mapping	KP Glyph	Other sources' glyphs for col.2	Notes
U+6138	𠂔勑心	𠂔	6138 <small>心 61.10</small> 𠂔 𠂔 𠂔 𠂔 <small>G5-532D T3-466E K2-3328 KP1-439A</small>	Left top corner is 来 and unencoded. Both glyphs are variant of 整.

U+8901	U+2E590	𦘒	8901 衣 145.8 𦘒 𦘒 𦘒 𦘒 𦘒 𦘒 GE-4C34 T2-4034 HB2-DBCE J14-783B K2-5E6C KP1-73E7 2E590 衣 145.8 𦘒 𦘒 KC-05695 SAT-60340	Cognate, as new glyph in Ext. F so couldn't be wrong mapping and should possibly be wrong design.
U+2297B	U+2D7E7	𢈶	2297B 心 61.21 𢈶 𢈶 𢈶 𢈶 𢈶 GX-0409.25 T5-775B KP1-44BD SAT-00941	Cognate, second glyph in Ext. F so couldn't be wrong mapping.
U+24454	U+2C2D6	𤇀	24454 火 86.15 𤇀 𤇀 𤇀 𤇀 𤇀 T4-6021 KP1-5642 2C2D6 火 86.15 GX-0686.18 KC-05339	Cognate, both calligraphical variant of 𤇀, second glyph is on Ext. E so couldn't be wrong mapping.
U+246D8	𠮩牛莽	𠮩	246D8 牛 93.11 𠮩 𠮩 𠮩 GHZ-31818.09 KP1-575E VN-246D8	莽 is a variant of 莽, don't know if this is intended, but can't be wrong mapping. 𠮩牛莽 and 𠮩骨莽 are not encoded ¹ .
U+29A8E	𠮩骨莽	𠮩	29A8E 骨 188.11 𠮩 𠮩 𠮩 GX-1450.41 T5-7237 KP1-880D	

¹ Sim's opinion: component 莽 and 莽 should be unified.

4) other issues

Current KP mapping	Another possible? mapping	KP Glyph	Other sources' glyphs for col.2	Notes
U+5609	U+2B158	嘉	<p>5609 𠂔 30.11</p> <p>嘉 嘉 嘉 嘉 嘉 嘉 嘉</p> <p>G0-3C4E T1-682D HB1-B9C5 J0-3245 K0-4A29 KP0-CDA9 V2-8B25</p> <p>2B158 𠂔 123.9</p> <p>嘉</p> <p>TD-5367</p>	Identical shape, but 嘉's current glyph is a wrong update from TCA in version 6.1, see IRG N2519.

(End of document)