JTC1/SC2/WG2 N3427R L2/08-132R

2008-05-11

Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation Internationale de Normalisation Международная организация по стандартизации

Doc Type: Working Group Document

Title: Proposal to encode 39 Unified Canadian Aboriginal Syllabics in the UCS

Source: UC Berkeley Script Encoding Initiative (Universal Scripts Project)

Authors: Michael Everson and Chris Harvey

Status: Individual Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

Date: 2008-05-11

- **1. Summary.** This document requests 39 additional characters to be added to the UCS and contains the proposal summary form.
- 1. Syllabics hyphen (U+1400). Many Aboriginal Canadian languages use the character U+1428 CANADIAN SYLLABICS FINAL SHORT HORIZONTAL STROKE, which looks like the Latin script hyphen. Algonquian languages like western dialects of Cree, Oji-Cree, western and northern dialects of Ojibway employ this character to represent /tʃ/, /c/, or /j/, as in Plains Cree do" / /anohc/ 'today'. In Athabaskan languages, like Chipewyan, the sound is /d/ or an alveolar onset, as in Sayisi Dene 'Co'D/t'at'ú/ 'how'. To avoid ambiguity between this character and a line-breaking hyphen, a SYLLABICS HYPHEN was developed which resembles an equals sign. Depending on the typeface, the width of the syllabics hyphen can range from a short = to a much longer = . This hyphen is line-breaking punctuation, and should not be confused with the Blackfoot syllable internal-w final proposed for U+167F. See Figures 1 and 2.
- 2. DHW- additions for Woods Cree (U+1677..U+167D). 4 \$\frac{1}{2} \frac{1}{2} \frac{1}{2}

- **5. Additional final for Woods Cree (U+167E).** * $/\eth/$. This symbol is used to indicate the "th" sound $/\eth/$ in Woods Cree when there is no vowel sound following. For example, Γ^* is pronounced $/m\bar{\imath}\eth/$. See Figures 5 and 6.

- **6. Additional final for Blackfoot (U+167F).** * syllable-internal /w/. This symbol is placed after a syllabic character where a /w/ sound occurs between the consonant and vowel, as in $4.7 \cdot 7.44$ * *itsayinak***a. See Figures 7 and 8.
- **8. Additional finals for Ojibway (U+A9EE..U+A9F7).** And I of the a-finals used in eastern Cree and Inuktitut. Only one of these is currently encoded in the UCS, And I or orthographies which place mid-dots before base letters, the w-final is U+A9F6 Canadian syllabics eastern W; for orthographies which position mid-dots after base letters, the w-final is U+A9F7 Canadian syllabics western W. See Figures 2, 14, 15, and 16.
- **9. Additional finals for Beaver Dene** (U+A9FA..U+A9FB). ¹ /l/ is not to be confused with the Beaver /g/ final ' (U+144A), which is shorter. ^r /r/ is used mostly in loan words, but also in some naturalized loans like L ^r / *marsi* 'thank-you'. See Figures 17 and 18.
- **10. Additional final for Carrier (U+A9FC).** 5 /s/. Carrier differentiates between 5 /s/ (dental) and 5 (U+1506) /s/ (alveolar). The dental glyph is a stretched sans-serif <s>, while the alveolar glyph is a serif <s>. See Figures 19 and 20.
- 11. Annotations for the Names list. The following annotations for Blackfoot should be added to the Names List.

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CANADIAN SYLLABICS FINAL MIDDLE DOT
1427
          • Moose Cree (W), Athapascan (Y), Sayisi (YU), Blackfoot (S)
1449
        CANADIAN SYLLABICS P
          • Blackfoot (Y)
146B
        CANADIAN SYLLABICS KE
          • Inuktitut (KAI), Blackfoot (PA)
        CANADIAN SYLLABICS KI
146D

    Blackfoot (PE)

146F
        CANADIAN SYLLABICS KO
          • Inuktitut (KU), Sayisi (KU), Blackfoot (PI)
1472
        CANADIAN SYLLABICS KA
         • Blackfoot (PO)
146B
        CANADIAN SYLLABICS CE
          • Inuktitut (GAI), Athapascan (DHE), Sayisi (THE), Blackfoot (MA)
146D
        CANADIAN SYLLABICS CI
          • Inuktitut (GI), Athapascan (DHI), Sayisi (THI), Blackfoot (ME)
146F
        CANADIAN SYLLABICS CO
          • Inuktitut (GU), Athapascan (DHO), Sayisi (THO), Blackfoot (MI)
1472
        CANADIAN SYLLABICS CA
          • Inuktitut (GA), Athapascan (DHA), Sayisi (THA), Blackfoot (MO)
14A3
        CANADIAN SYLLABICS ME
          • Inuktitut (MAI), Blackfoot (TA)
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14A5 CANADIAN SYLLABICS MI • Blackfoot (TE) 14A7 CANADIAN SYLLABICS MO • Inuktitut (MU), Sayisi (MU), Blackfoot (TI) **14AA** CANADIAN SYLLABICS MA Blackfoot (TO) 14ED CANADIAN SYLLABICS SE • Inuktitut (SAI), Blackfoot (SA) 14EF CANADIAN SYLLABICS SI • Blackfoot (SE) CANADIAN SYLLABICS SO 14F1 • Inuktitut (SU), Sayisi (SU), Blackfoot (SI) 14F4 CANADIAN SYLLABICS SA Blackfoot (SO) CANADIAN SYLLABICS YE 1526 • Inuktitut (YAI), Blackfoot (YA) 1528 CANADIAN SYLLABICS YI • Blackfoot (YE) CANADIAN SYLLABICS YO 152A • Inuktitut (YU), Blackfoot (YI) 152D CANADIAN SYLLABICS YA • Blackfoot (YO) CANADIAN SYLLABICS FINAL RAISED DOT A9F9 • Carrier (GLOTTAL STOP)

7. Unicode Character Properties.

1400; CANADIAN SYLLABICS HYPHEN; Pd; 0; ON;;;;; N;;;;;

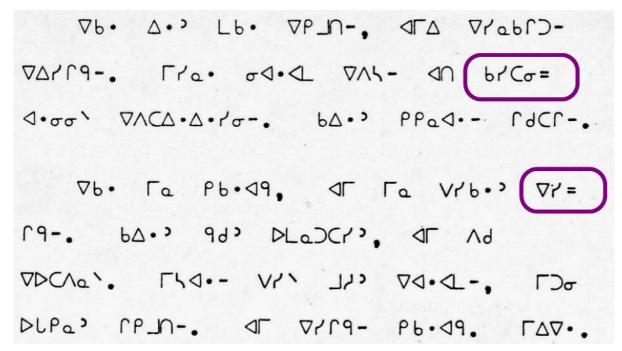
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1677; CANADIAN SYLLABICS WOODS-CREE THWEE; Lo; 0; L;;;;; N;;;;
1678; CANADIAN SYLLABICS WOODS-CREE THWI; Lo; 0; L;;;;; N;;;;
1679; CANADIAN SYLLABICS WOODS-CREE THWII; Lo; 0; L;;;;; N;;;;
167A; CANADIAN SYLLABICS WOODS-CREE THWO; Lo; 0; L;;;;; N;;;;
167B; CANADIAN SYLLABICS WOODS-CREE THWOO; Lo; 0; L;;;;; N;;;;
167C; CANADIAN SYLLABICS WOODS-CREE THWA; Lo; 0; L;;;;; N;;;;
167D; CANADIAN SYLLABICS WOODS-CREE THWAA; Lo; 0; L;;;;; N;;;;
167E; CANADIAN SYLLABICS WOODS-CREE TH; Lo; 0; L;;;;; N;;;;;
167F; CANADIAN SYLLABICS BLACKFOOT W; Lo; 0; L;;;;; N;;;;;
A9E0; CANADIAN SYLLABICS NWI; Lo;0;L;;;;N;;;;
A9E1; CANADIAN SYLLABICS OJIBWAY NWI; Lo;0;L;;;;N;;;;
A9E2; CANADIAN SYLLABICS NWII; Lo; 0; L;;;;; N;;;;;
A9E3; CANADIAN SYLLABICS OJIBWAY NWII; Lo; 0; L;;;;; N;;;;;
A9E4; CANADIAN SYLLABICS NWO; Lo; 0; L;;;;; N;;;;;
A9E5; CANADIAN SYLLABICS OJIBWAY NWO; Lo; 0; L;;;;; N;;;;
A9E6; CANADIAN SYLLABICS NWOO; Lo; 0; L;;;;; N;;;;
A9E7; CANADIAN SYLLABICS OJIBWAY NWOO; Lo; 0; L;;;;; N;;;;
A9E8; CANADIAN SYLLABICS RWEE; Lo; 0; L;;;;; N;;;;
A9E9; CANADIAN SYLLABICS RWI; Lo; 0; L;;;;; N;;;;
A9EA; CANADIAN SYLLABICS RWII; Lo; 0; L;;;;; N;;;;
A9EB; CANADIAN SYLLABICS RWO; Lo; 0; L;;;;; N;;;;;
A9EC; CANADIAN SYLLABICS RWOO; Lo; 0; L;;;;; N;;;;
A9ED; CANADIAN SYLLABICS RWA; Lo; 0; L;;;; N;;;;
A9EE; CANADIAN SYLLABICS OJIBWAY P; Lo; 0; L;;;; N;;;;
A9EF; CANADIAN SYLLABICS OJIBWAY T; Lo; 0; L;;;;; N;;;;
A9F0; CANADIAN SYLLABICS OJIBWAY K; Lo; 0; L;;;;; N;;;;
A9F1; CANADIAN SYLLABICS OJIBWAY C; Lo; 0; L;;;;; N;;;;;
A9F2; CANADIAN SYLLABICS OJIBWAY M; Lo; 0; L;;;;; N;;;;;
A9F3; CANADIAN SYLLABICS OJIBWAY N; Lo; 0; L;;;;; N;;;;
A9F4; CANADIAN SYLLABICS OJIBWAY S; Lo; 0; L;;;;; N;;;;
A9F5; CANADIAN SYLLABICS OJIBWAY SH;Lo;0;L;;;;;N;;;;
A9F6; CANADIAN SYLLABICS EASTERN W; Lo; 0; L;;;;; N;;;;
A9F7; CANADIAN SYLLABICS WESTERN W; Lo; 0; L;;;;; N;;;;
A9F8; CANADIAN SYLLABICS FINAL SMALL RING; Lo; 0; L;;;;; N;;;;
A9F9; CANADIAN SYLLABICS FINAL RAISED DOT; Lo; 0; L;;;;; N;;;;
A9FA; CANADIAN SYLLABICS BEAVER DENE L; Lo; 0; L;;;;; N;;;;;
A9FB; CANADIAN SYLLABICS BEAVER DENE R; Lo; 0; L;;;;; N;;;;
A9FC; CANADIAN SYLLABICS CARRIER DENTAL S; Lo; 0; L;;;;; N;;;;
```

8. Bibliography.

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 '/Kātāayuk: Saskatchewan Indian Elders.
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- **9. Acknowledgements.** This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley) in respect of the Canadian Syllabics encoding.

Figures.



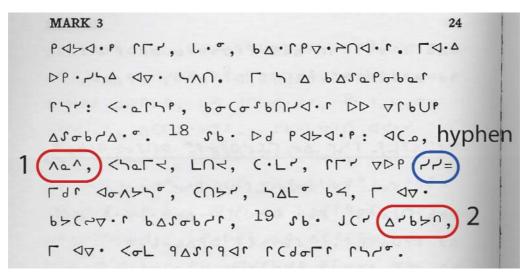


Figure 2. Sample in Northern Ojibway from Canadian Bible Society 1974:24 showing Canadian Syllabics hyphen and Canadian Syllabics ojibway s in $\[\] = \[\] \[\] \[\] \[\] \[$

L"PV"∆6€ / cahkipēhikana Western Cree and Saulteaux Syllabics Inventory Vowels ī 0 ō a **Finals** wē wi wī WO wō wa wā **∇** ē A i Δī D ō ₫ ā D 0 ◀ a Syllabics **V**∙ wē Ű wī **▶•** wo **▶•** wō **√·** wā ♠ wi **å** wa p ٧ A pī < pē ∧ pi · p > po pō < pa pā pw A. pwī <∙ pwā V. pwē A. pwi < pwa > • pwo > pwō t U tē ⇒ tō O ti Ċ tā / t tī tw U· twē ∩· twi ∩• twī > two → twō Ċ∙ twā C· twa k ė kē P ki kī d kō d ko ka kw ė. 9. kwē d. kwō P. kwi kwī d. kwo b. kwa **b**⋅ kwā ŗ - c 1 cē j i cī J CO cō ca cā CW ŕ٠ j. cwō → cwē C• cwi J. cwo cwī L∙ cwa i. cwā ŕ m 1 mē i mō mi mī c m J mo L ma mā mw 1. mwē F• mwi j. mwō J. mwo mwī L. mwa L• mwā n ö nō nō > n nē ni nī 9 ف no nā na nw ٠ف 70. nwē ÷. ٠٠ • nwā nwi nwī nwo nwō nwa ۶ sē S si sī sō sa SW j. ٠نم ነ• swē 7. swi swī 1. swo swō 4. 5 swā swa Š S šē S ši šī is S šo šō ša i šā šw S. šwi ġ٠ swō 2. šwē šwī šwo ٠٠ šwā šwa 4 yē У 4 Ļ yi + y 4 yō ya VW جi. 4. vwē 4. ywi vwī ywō vwo ywa ywā th 4 thē thi thī ţ tho thō * th tha thā thw 4. thwē **→•** thwi thwit thwo to thwo to thwa to thwā **{** | **→** nk r " h * hk © 2007 Department of Indian Languages, Literatures, and Linguistics First Nations University of Canada

Figure 3. Syllabics chart showing Canadian Syllabics NWI, Canadian Syllabics NWII, Canadian Syllabics NWO, and Canadian Syllabics NWOO, as well as Canadian Syllabics West-Cree thwee, Canadian Syllabics West-Cree thwi, Canadian Syllabics West-Cree thwo, Canadian Syllabics West-Cree thwo, Canadian Syllabics West-Cree thwa, and Canadian Syllabics West-Cree thwa.

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Figure 4. Syllabics chart for East Cree from the Cree School Board 1987:xiii showing Canadian Syllabics NWI, Canadian Syllabics NWO, and Canadian Syllabics NWOO, as well as Canadian Syllabics RWEE, Canadian Syllabics RWI, Canadian Syllabics RWII, Canadian Syllabics RWII, Canadian Syllabics RWOO, and Canadian Syllabics RWA.

MORE SYLLABLE WORDS WITH ENDINGS

kīwīw	97.0	nīmāw	٥ <u>i</u> ∘
pōnam	> •	kitāw	eĊ°
mātow	Ĺ⊃°	kāsim	670
wāpos	∢.≻ ^	mīth	{ 1 * }
asām	٩Ġ۲	asam	44
nīpin	۵٧٠ ،	pipon	٧>،
pikīs	^9 ^	sōkāw	∘الم
nipiy	σV+	pimiy	۸Γ+
thōtin	÷∪ [,]	ocīk	⊳ 1`
piyak	۸۶`	o tō t	⊳ ⊃′
thīkaw	46°	wāpan	٠٠٠ ,

Figure 5. Sample in Woods Cree from Charles [s.d.], showing CANADIAN SYLLABICS WOODS-CREE TH in Γ^* $m\bar{\iota}th$.

becoming common in the west are modifications of the \mathbf{y} syllabic symbols, alternation of Woods Cree [ð] with Plains Cree [y]:

$$4 = y\bar{e}$$
; $4 = th\bar{i}$; $= final y$; $= final th$

These examples illustrate not only the th syllabic symbols, but also another r

Figure 6. Sample in Woods Cree from Wolvengrey 2001:xxiii, showing CANADIAN SYLLABICS WOODS-CREE TH.

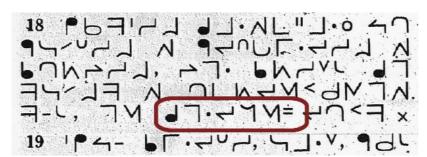


Figure 7. Sample in Blackfoot from Stocken [1888]:10 showing CANADIAN SYLLABICS BLACKFOOT w in

■ ¬¬¬¬ it ayinak ayinak a.

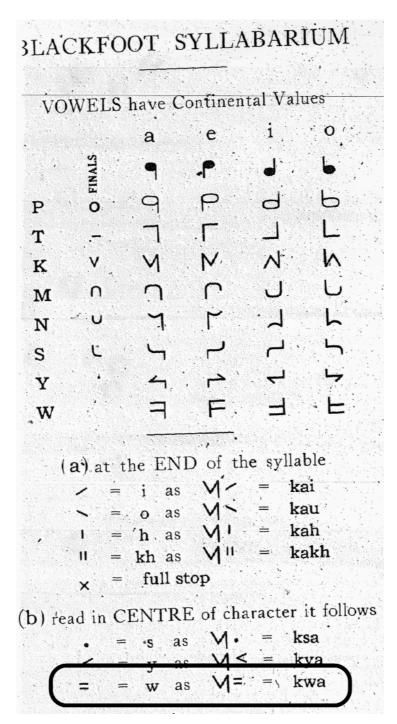


Figure 8. Sample in Blackfoot from Stocken [1888]:3 showing CANADIAN SYLLABICS BLACKFOOT W.

CO sab WO asab SC anapiy	net	sab <u>iig</u> asab <u>iig</u> anapiy <u>ak</u>	nets
da_√°		40V7,	
CO mtig WO mitig SC mistik	tree	mtig <u>oog</u> miti <u>goog</u> mistik <u>wak</u>	trees
LU,		L.U.P,	

Figure 9. Sample in Swampy Cree from Ministry of Education 2002:20, showing CANADIAN SYLLABICS FINAL SMALL RING in ⊲△∧ * *anapiy*.

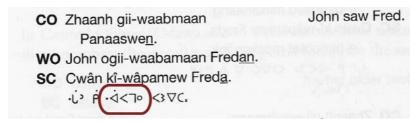


Figure 10. Sample in Swampy Cree from Ministry of Education 2002:21, showing U+1424 CANADIAN SYLLABICS FINAL RING in $\dot{\cap}\dot{\triangleright}<\neg \circ g\bar{\imath}-w\bar{a}pamew$.

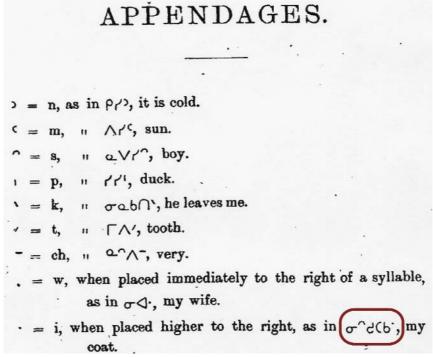


Figure 11. Sample in Plains Cree from McDougall [1890]:6 showing Canadian syllabics final raised dot in $\sigma^{\circ} dCb^{\circ}$ niskotākay 'my coat'.

Γζσ Qρ, οδ, β6L51 ΔQ.9 blr, σPP, d15P U, bCY>VY, A95 all 100000 Lb ota Prlpass bpg DC PC50 Jrpx 6 120 △^<000 d. . . . JoL JOP+ DDV67FP, د۵۰۸۰۸ حالت DL dp c Lupi PN'CrDA. 000 DODL AC. $\triangleright \subset$ DL DPA.706U, DA.9 DL Laun, Pioc 14PCT,

Figure 12. Sample in Plains Cree from SICC 1976, showing a kerned CANADIAN SYLLABICS FINAL RAISED DOT in Pb. kīkway 'what'.

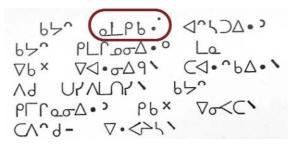


Figure 13. Sample in Plains Cree from SICC 1976,

showing an unkerned CANADIAN SYLLABICS FINAL RAISED DOT in a LPb. namakīkway 'nothing'.

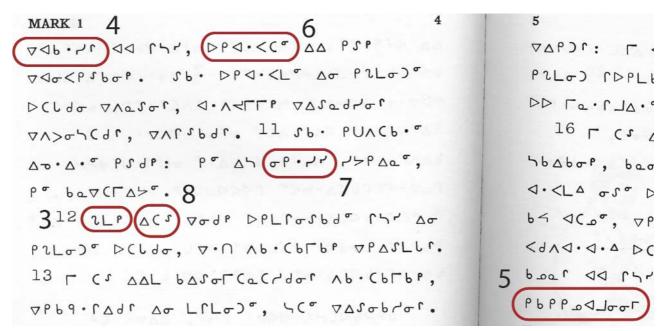


Figure 14. Sample in Northern Ojibway from from the Canadian Bible Society 1974:4 showing CANADIAN SYLLABICS OJIBWAY K in $\nabla \triangleleft b \land \uparrow^{\Gamma} e\bar{a}kwazi\check{c}$ 'as he is sick'; CANADIAN SYLLABICS OJIBWAY N in $\triangleright \rho \triangleleft < \subset^{\sigma} og\bar{\iota}$ -wābandan 'he saw it'; CANADIAN SYLLABICS OJIBWAY S in $\sigma \rho \land \uparrow^{\Gamma} nigwizis$ 'my son'; CANADIAN SYLLABICS OJIBWAY N in $\triangle \vdash^{\Gamma} \check{s}emag$ 'immediately'; CANADIAN SYLLABICS OJIBWAY SH in $\triangle \subset^{\Gamma} ida\check{s}$ 'so'; and CANADIAN SYLLABICS OJIBWAY M in $\rho \lor \rho \rho \rho \land d \lor \sigma \sigma^{\Gamma} giga$ -gikinōhamoninim 'I will teach you something'.

Figure 15. Sample in Northern Ojibway from the Canadian Bible Society 1974:7 showing CANADIAN SYLLABICS WESTERN W in $P \subset g\bar{\iota}$ -daw 'he said'.

Consonant	Vowels				Finals			
	е	1/11	0/00	a/aa	West	East a-series	East i-seri	es
none/h/?	∇	Δ	D	٥	"	11	/2/ A	
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(East)	• 4		• ▷	. 4		0	° or	(.△
P		^	>	<	•	<	^	
t	U	n)	C	1	с	n	
k	9	ρ	٩	Ь	\	ь	Р	2
С	1	J.L	J	L		ı	١	T
m	٦	Г		L	c	L	Г	
n	Ф	6	٩	٥	,	۵	σ	T
s	4	٦	نے	5	•	4	-	T
š	2	S	2	5	U	5	s	T
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Figure 16. Chart for Northern Ojibway from Fiero 1976:98 showing Canadian Syllabics Eastern W, Canadian Syllabics Ojibway P, Canadian Syllabics Ojibway T, Canadian Syllabics Ojibway K, Canadian Syllabics Ojibway C, Canadian Syllabics Ojibway M, Canadian Syllabics Ojibway N, Canadian Syllabics Ojibway S, Canadian Syllabics Ojibway SH, and Canadian Syllabics Final Small Ring.

Figure 17. Sample in Beaver Dene from Garrioch 1886a:3, showing CANADIAN SYLLABICS BEAVER DENE R in L r r marsi.

22 Puicure 15 Frank, dans fran Pas Pas Cau, asa anm des Lobain, de dura eu anm +

Figure 18. Sample in Beaver Dene from Garrioch 1886b:3, showing CANADIAN SYLLABICS BEAVER DENE L in '∈೮. °೮. L¹ ghatyestyetl.

Figure 19. Sample in Carrier from Morice 1894:43, showing Canadian Syllabics Carrier dental s in $\mathbb{C}B^{\varsigma} \subset yak'u\underline{s}da$. Also shown Canadian Syllabics athapascan s and Canadian Syllabics Carrier z in $\nabla^{\lor} \gg \mathbb{C}S^{z} = \overline{o}k'weusguz$; Canadian Syllabics final raised dot in $\mathbb{C}A^{\tau}$? *ad* and in $\mathbb{D}C \gg \mathbb{C}A^{\tau}$. *tenainilh?a?*.

C\V	a	Λ	е	i	0	u	isolated
b	D	D	D	D	А	A	1
t	а	D	D	D	Δ	U	
d	C)	D	Ð	Λ	U	Т
t'	D	D	D	D	Ω	Q	
k .	8	В	B	В	m	W	`
g	E	3	3	3	m	W	,
k'	8	B	₽	₽	m	W	V
č	æ	\mathbb{B}	\mathfrak{B}	#3	M	R	
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Figure 20. Chart of Carrier syllabics, from Poser 2003:14, showing Canadian syllabics carrier dental s and Canadian syllabics final raised dot.

A. Administrative

1. Title

Proposal to encode 39 Unified Canadian Aboriginal Syllabics in the UCS

2. Requester's name

Michael Everson

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2008-05-11

- 5. Requester's reference (if applicable)
- 6. Choose one of the following:

6a. This is a complete proposal

Ves

6b. More information will be provided later

No.

B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

No

1b. Proposed name of script

1c. The proposal is for addition of character(s) to an existing block

Yes and No.

1d. Name of the existing block

Unified Canadian Aboriginal Syllabics and Unified Canadian Aboriginal Syllabics Extended-A

2. Number of characters in proposal

39

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

Category A.

4a. Is a repertoire including character names provided?

Yes

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

Yes

4c. Are the character shapes attached in a legible form suitable for review?

Yes

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Michael Everson.

 $5b.\ If\ available\ now,\ identify\ source(s)\ for\ the\ font\ (include\ address,\ e-mail,\ ftp-site,\ etc.)\ and\ indicate\ the\ tools\ used:$

Michael Everson, Fontographer.

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? **Yes.**

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such information on other scripts. Also see Unicode Character Database http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Chris Harvey has worked in partnership with the First Nations' University, one of the northern Saskatchewan Cree Education boards, and a Plains Cree community in Alberta. He also consulted and received guidance from the Dene language centre in the North West Territories.

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

People in Canada.

4a. The context of use for the proposed characters (type of use; common or rare)

Common.

4b. Reference

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

In Canada.

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

Yes.

6b. If YES, is a rationale provided?

Yes.

6c. If YES, reference

Contemporary use, accordance with the Roadmap, and to keep these with the other Syllabics characters which are in the BMP.

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

No.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No, since they conform to the unification model for Canadian Syllabics.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

No.

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?