



Report on the Khmer Root Zone LGR

Rapid SUN | APrIGF 2016 | 28 July 2016

Agenda

- ◉ Introduction to Khmer Language
- ◉ Introduction to Khmer Script
- ◉ Membership of Khmer GP
- ◉ Project Schedule
- ◉ Methodology
- ◉ Feedback

Introduction to Khmer Language

- ◉ Khmer language has been written since the early 7th century using a script (Abugida Type) originating in South India (from Brahmi)
- ◉ Khmer borrowed some words from Sanskrit and P ā li
- ◉ Khmer was borrowed and found in Thai, Lao, Kuay, Stieng, Samre, Cham, and others
- ◉ Official language in Cambodia with 15 million people
- ◉ 1.3 million people in southeastern Thailand
- ◉ more than a million people in southern Vietnam

Introduction to Khmer Script

- ⦿ ISO 15924 - Khmr 355
 - ⦿ Direction Left-to-right
 - ⦿ 146 Characters
- ⦿ Unicode range
 - ⦿ U+1780–U+17FF Khmer
 - ⦿ U+19E0–U+19FF

Source - https://en.wikipedia.org/wiki/Khmer_alphabet

Membership of Khmer GP

Position	Name	Organization
Chair	Sopheap Seng	National Institute of Posts, Telecoms and ICT (NIPTICT)
Secretary	Rapid Sun	Center of Research and Development, NIPTICT
Member	Daro Chin	Telecom Cambodia
Member	An Ra	Ministry of Post and Telecommunications
Member	Hong Danh	Unicode Expert
Member	Ken Rangsey	Royal University of Phnom Penh
Member	Yatal Lim	Telecom Regulator of Cambodia
Member	Mok Khemera	Ministry of Posts and Telecommunications
Member	Than Makara	R & D Center, NIPTICT
Member	Chhan Kimsoeun	Royal University of Phnom Penh

Project Schedule

Activity	Description	Start Date	Finish Date
Develop Principles	Principles to be used to determine valid code points, variants and labels	10 June 2015	10 June 2015
Determine Code Points	Select the code points from MSR which are needed for Root Zone LGR	10 July 2015	10 July 2015
Determine (any) Variants	From the codes points selected, determine if the end-user may confuse two code points	10 Sep 2015	10 Nov 215
Determine Label Rules	Determine if there are any label level constrains on the use of selected code points	10 Nov 2015	12 Feb 2016
Hold Public Consultation	Hold a workshop on the work accomplished by the generation panel to get feedback from the community and experts.	Early December 2015	15 Feb 2016
Write Proposal and Create XML	Write up the Root Zone LGR proposal, including references to each code point included, why variants needed and details of label rules developed + XML file	10 December 2015	12 Feb 2016
Submit	Get Public Comments, Finalize and Submit	10 February 2016	19 Feb 2016

Methodology

- ◉ Discussion within linguists and unicode expert in Khmer Generation Panel
 - ◉ Develop Code Point – 71 code points
 - ◉ Consonants - 33
 - ◉ Dependent Vowels - 16
 - ◉ Independent Vowels - 12
 - ◉ Consonant Shifters - 2
 - ◉ Diacritics – 7
 - ◉ Subscript - 1
 - ◉ Develop Variant
 - ◉ Khmer Variant

Methodology (Cont)

- ◉ Develop Cross Script Variant
 - ◉ Khmer-Thai homoglyphs - 17
 - ◉ Khmer-Lao homoglyphs - 15
 - ◉ Khmer-Burmese homoglyphs - 7
- ◉ Develop 11 Label Rules
- ◉ Develop XML file

Feedback

- ⦿ 10 Proposal Editions (0.1 to 1.0)
- ⦿ Share 10 proposal editions with Khmer GP
- ⦿ 3 feedbacks from integration panel
- ⦿ 1 public workshop invited GP, universities, NGOs, Companies
- ⦿ Public comments ended by 28 May 2016

Thank You and Questions



Reach us at:

Email:

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Website:

<https://community.icann.org/display/croscomlgrprocedure/Khmer+GP>



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