Proposal for Generation Panel for Ethiopic Label Generation Ruleset for the Root Zone

1. General Information

Ge'ez (ๆชา Gə 'əz), (also known as Ethiopic) script is an abugida (syllable alphabet) used in

the writing systems for several languages of Ethiopia and Eritrea. It is the most commonly

used script in the writing systems of the majority of languages spoken in the country. It

originated as an abjad (consonant-only alphabet) and was first used to write Ge'ez, now

the liturgical language of the Ethiopian Orthodox Tewahedo Church and the Eritrean

Orthodox Tewahedo Church. The earliest known inscriptions in the Ge'ez script date to the

8th century BC.

The Ge'ez script has been predominantly used in Semitic, languages, particularly Amharic in

Ethiopia, and Tigrinya in both Eritrea and Ethiopia. It is also used for Sebatbeit, Me'en, and

most other languages of Ethiopia. In Eritrea it is used for Tigre, and it has traditionally been

used for Bilin, a Cushitic language. Tigre, spoken in western and northern Eritrea, is

considered to resemble Ge'ez more than do the other derivative languages. The Ge'ez script

was also used in the writing systems of Oromifa until 1991 before the region's government

decision to change to Latin-based orthographies.

We are proposing the establishment of a label generation panel for the root zone for Ethiopic

script. The generation panel proposal has been developed after a thorough review of the

Guidelines for Developing Script-Specific Label Generation Rules for Integration into the

Root Zone LGR document by the panel.

1.1 Script for which the Panel is to be Established

As described above, the Ethiopic or Ge'ez script is used in the writing systems of the majority of

languages spoken in the country.

The Ethiopic or Ge'ez script is defined in ISO's 15924 specification is identified by:

• ISO 15924 four letter script code: Ethi

• ISO 15924 Number: 430

_ _ .. .

English Name: Ethiopic (Ge'ez)

The complete set of character sets in Ethiopic (Ge'ez) script are defined in the following Unicode ranges:

• Ethiopic (Ge'ez): U + 1200 – U + 137F

• Ethiopic Supplement: U + 1380 - U + 139f

• Ethiopic Extended: U + 2D80 – U + 2DDF

• Ethiopic Extended-A: U+AB00 – U + AB2F

However, for the proposed purpose we will limit the use of code points as prescribed in the more recent version of Maximal Starting Repertoire(MSR-2)- to be more specific the panel will use the revised MSR-2 released by the Integration Panel on April 14, 2015. The Unicode range 1380-139F is one of the whole block exclusions in the MSR-2 document, hence it is preemptively out of consideration in the LGR formulation. The entire Unicode points range U + 1200 - U + 137F along with some parts of the Unicode points range in the Ethiopic Supplement block are the focal point of considerations in the LGR formulation for Ethiopic script. Thus, subjected to further considerations as the project progresses, the panel at it stands considers the Unicode points range short listed in the recent version of MSR-2, more specifically the Unicode points range U + 1200 - U + 137F, U + 2D80-U + 2D96, U + AB00 - U + AB0F as its starting repertoire.

1.2 Principal Languages Using the Script

The Ethiopic (Ge'ez) script was developed as the writing system of the Ge'ez language, a Semitic language spoken in Ethiopia and Eritrea. The script is widely used for writing the Ethiopian and Eritrean Semitic languages such as Tigré, Amharic and Tigrinya. In some languages, the script is called fidäl (¿ṢA), which means 'alphabet', and individual letters are referred to as fidel. The script is believed by many to have derived from the epigraphic South Arabian script, of Proto-Sinaitic heritage, although there is some dispute surrounding this assertion; some also believe it to have descended from Egyptian hieroglyphic s. Besides Tigré, Amharic and Tigrinya the writing systems that use this script are many and some of them are listed here: Aari, Afar, Alaba-K'abeena, Anuak, Awngi, Basketo, Bench, Bilin, Boro, Burji, Dawro, Dirasha, Dizin, Gamo, Gedeo, Geez, Gofa, Gumuz, Hadiyya, Hamer-Banna, Harari, Kafa, Kambaata, Kistane, Konso, Koorete, Majang, Male, Me'en, Mursi, Oimant, Saho, Sebat Bet Gurage, Sidamo, Silt'e, Suri, Wolaytta and Xamtanga.

1.3 Geographic territories or Countries with Significant User Communities for the Script

A significant number of Diaspora who use Ethiopic (Ge'ez) script are living in United States and some parts of Europe, and due to historical ties the Ethiopic (Ge'ez) script is also used in Eritrea at large and in Djibouti and Israel to a certain degree. The following table lists the countries where significant users communities who are capable of using the Ethiopic (Ge'ez) script are believed to exist.

Country Names		
Eritrea		
Djibouti		
Egypt		
United States		
Canada		
Israel		
Europe		
Australia		

2. Proposed Initial Composition of the Panel

2.1Panel Chair and Members

The panel at this stage of its establishment phase is composed of 6 members, which is likely to expand in size as well as diversity in professional background as the project progresses. The project members have the prerequisite knowledge and are well equipped to live up to the demands of the tasks that lie ahead.

In the table below a succinct description panel members background is presented.

Name	Short Bio	Designation in the Panel
Dessalegn Mequanint Yehuala	He is a Lecturer and Researcher at the Computer Science Department of the Addis Ababa University. He has extensive research experience in Big data, Open Data as well as digital divides. He actively participates in International forums that	Chair
	involve Information	

	Technology at its heart.	
Mulugeta Seyoum Gebeyaw	He is Assistant Professor in Linguistics, and Deputy Director of Academy of Ethiopian Languages and Cultures. He is a senior Linguist with proper academic and professional experiences. He has conducted various studies, participated in, and organized a number of international and national conferences in linguistics and related issues.	
Gezahegn Tadesse	He is a Director of Banking Products and Technology Innovation at Awash International Bank. He is a senior Electrical Engineer with a progressive and professional experience of nineteen years in Information Technology and Telecom. His core expertise spans Enterprise Information systems Security, IT Project Managements and Delivery, Infrastructure Solutions mainly for the Banking and Telecom Sector.	Member
Balcha Reba	He is a Director of Communication and IT Standardization and Regulation Directorate at the Ministry of Communication and Information Technology(MCIT). He is heading a Directorate in charge if the development of Communication and Information Technology services & product Standards, Laws, & Frameworks and ICT Regulatory mechanisms. He worked as Director for the then	Member

	Ethionian Talesammunication	
	Ethiopian Telecommunication	
	Agency.	
Assefa Kore	He is IT Operation specialist	Member
	at Ethio-Telecom. Previously,	
	he has worked as Junior	
	Electrical Engineer, IT	
	architect, ISP and VAS	
	operation expert, and	
	Provisioning Analyst at Ethio-	
	Telecom progressively.	
Kinfe Micheal Yilma	He is a Senior Legal	Member
	Researcher at Ethiopia's	
	Justice and Legal System	
	Research Institute, Legal	
	Consultant at PERAGO	
	Information Systems PLC and	
	Adjunct Lecturer-in-Law at	
	Addis Ababa University Law	
	School.	
	He worked as a lecturer-in-law	
	at Hawassa University Law	
	School in Ethiopia. He studied	
	Internet privacy at the	
	University of Oxford, Oxford	
	Internet Institute in 2012. He	
	is an expensively published	
	legal scholar in reputable	
	international journals.	

2.2 Panel Diversity

The Ethiopic script Generation Panel is composed of members with various backgrounds and expertise. Each member has experience in one or more of the areas which developing the Ethiopic Label Generation Ruleset for the Root Zone requires. However, as the project unfolds panel member composition size as well as diversity is expected to increase, and particularly we are already in the look out to involve people from Eritrea in order to document the script's use in the country thereby making the panel diversities as rich as it could get.

The table below is a summary of panel members' role in the generation panel and their background.

No.	Name	Designated Role in the Panel	Organization
1	Dessalegn Mequanint Yehuala	Chair, Contact Person and liaison of the Generation	Addis Ababa University,
		Panel to ICANN and to the	Department of
		Integration Panel. Besides, a	Computer Science
		resource person for DNS,	
		ICANN and Unicode.	
2	Mulugeta Seyoum	Secretary, resource person in	Addis Ababa
		Linguistics, local culture,	University,
		customs and practices.	Academy of
			Ethiopian Languages
	C 1 T 1	. T. 1	and Cultures.
3	Gezahegn Tadesse	A resource person in Telecom services and DNS	Awash International
4	Balcha Reba		Bank Ministry of
4	Baicha Reba	A resource person in telecom regulatory and standardization	Ministry of Communication and
		processes	Information
		processes	Technology
5	Assefa Kore	A resource person in DNS and	Ethio-Telecom
	1 issera ivoic	telecommunication	Etino Telecom
		regulations	
6	Kinfe Micheal Yilma	A resource person in ICANN	Ethiopia's Justice
		•	and Legal System
			Research Institute.

3. Work Plan

3.1Suggested Timeline, Listing of Significant Milestones

Activities of developing an LRG proposal for Ethiopic script spread over 6 months; the table below describes the various activities along with milestones on each phase of the project. The Panel plans to start working on the LGR for Ethiopic script in January 2016 and we have targeted the submission of the LGR proposal for Ethiopic script to the Integration Panel in July 2016.

The following are list of activities planned to be carried out:

Phase	Task Description	Duration	Milestone
Phase 1: GP Proposal	Writing the GP proposal and submitting to ICANN for	December 2015	GP's Proposal Submitted to
Preparation	official announcement.		ICANN and
Tropulation	 Conducting deeper analyses of 		mailing list created.
	documents about procedures		
	to develop and maintain the		
	label generation rules for		
	Ethiopic script for the Root		
	Zone.		
	• Setting up mailing list for the panel		
Phase 2:	Development of Ethiopic LGR:	January – May	Preliminary
Working on	• Initial review of previous	2016	Ethiopic LGR
Components	work and the relevant		formulated.
of LGR	LGR documents		
	• Identification of code		
	point repertoire for		
	inclusion in the LGR;		
	Identification of variant		
	rules;		
	• Identification of Whole		
	Label Evaluation (WLE)		
	rules;		
	• Finalization of the		
	proposal documents and		
	creation of the proposal in XML format;		
	Public Comment		
	announcement and		
	finalization of proposal		
	Conducting Sensitization	February 2016	Sensitization
	Campaigns locally about the	= 101001 J = 010	Campaigns
	establishment of the Ethiopic GP.		Conducted.
	Conducting Consultative	April 2016	Feedback gathered.
	Workshop to gather feedbacks	•	
	from relevant stakeholders.		
	Incorporating feedbacks obtained	May 2016	Feedbacks
	from stakeholders		incorporated.
	Submitting a draft Ethiopic LGR	June 2016	Draft LGR report
	report to ICANN (or IP)		Submitted.
	Submitting final Ethiopic LGR	July 2016	Final LGR Report
	report to IP.		Submitted.

3.2 Proposed Schedule of Meeting and Teleconferences

All the group members are based at the same city, Addis Ababa, and conducting face to face meetings once in two weeks time or as appropriate has been agreed.

3.3 Anticipated Need for Logistic Support- Such as Mailing List?

- We can create a Google group mailing list for the GP or ICANN can set up one.
- For conducting the consultative workshop with stakeholders we need ICANN's support for covering expenses related to conference hall rent and refreshment beverages.

3.4 Does the Panel Expect to Call On ICANN Provided Advisors?

The Panel may have to call on ICANN for advisory support if and when situations demands.

References Consulted:,

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 - https://community.icann.org/download/attachments/43989034/Guidelines%20for%20LGR.pdf ?version=2&modificationDate=1430174479000&api=v2.
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 http://unicode.org/iso15924/iso15924-codes.html, Date Accessed-November 2015
- Script Source, http://scriptsource.org/cms/scripts/page.php?item_id=script_detail&key=Ethi, Date Accessed- November 2015.
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 Date Accessed- November 2015.

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