

# UA EAI WG Meeting

17 January 2023

## Attendees

Mark Svancarek

Nitin Walia

Jim DeLaHunt

Harsha Wijayawardhana

Eunice Perez

Nicholas Fiumarelli

Carine Malor

Prince Andrew L. Zutah

Arnt Gulbrandsen

Yin May Oo

Seda Akbulut

## Agenda

1. Welcome and roll call
2. **Complete the EAI [self-certification guide](#) by resolving comments (continue from MUA.18) - (95% completed) (What is the clear ask for the email providers?)**
  1. <https://mm.icann.org/pipermail/ua-eai/2022-December/001741.html>
1. Determine and summarize what actions are required for each self-certification item ***At a high level which things can be automated and which things are to be done manually (MUA1-6, IMAP and MSA completed)***
2. Complete the [score generator spreadsheet](#) (to be done offline)
3. Finalize the flowchart diagram
4. Identify the vendor's roles, and WG's roles are for the EAI self certification
  1. Go through the manual test run first, and see which parts are scriptable or automatable, and determine the amount of work, and calculate which tasks require manual work time.
  2. Update the [Statement of Work \(SOW\)](#) for E1.1 and E1.2
1. Email provider stories - User acceptance tests

## [Meeting recording](#)

## Meeting Notes

## Agenda #2 - Complete the EAI self-certification guide

## MUA18

Jim explained his communication on <https://mm.icann.org/pipermail/ua-eai/2022-December/001741.html>

The discussion started based on Jim's comment on the document.

Jim DeLaHunt's **comment** on MUA18:

*Add items to handle IDNA 2008 vs IDNA2003 differences in email domain names.*

*e.g. search for IDNA2008 name and find IDNA2003 name. There may be multiple items dealing with IDNA version differences. What does platinum support look like? Gold? Silver?*

The discussion was sharing the point of views from WG members on having the IDNA2008 requirement as a silver-level requirement or gold-level requirement.

Jim explained the interlock situation of IDNA2003 on Chrome, the older java version which is tied to IDNA2003 and so on. There was a long discussion about this in the Measurement working group.

Arnt added that Chrome is the most notorious implementation, however, IDNA2008 supports both, except for restricting some non-IDN-related symbols. Harsha added that Sinhala email addresses are starting to be used, and email usernames and possible names would definitely need the ZWJ, which needs the system to be at least IDNA2008 or the latest compatible version. Mark also added that the Arabic word of a city name, Islamabad needs the ZWNJ, which also requires IDNA2008.

Arnt said Gmail is using IDNA2008, Google Chrome is using IDNA2003, it mostly works unless the new domain is never seen by Gmail. In short, it may work if the address is seen by Gmail even on Chrome, which is IDNA2003. Jim said addressing the email username is one thing and address book is another issue, and suggested looking into both. Jim said that it would be suitable to say IDNA2008 is the minimum requirement, which is for the silver-level. Nitin suggested that the systems which handle IDN's and email address should already be IDNA2008 compliant even without specifying explicitly.

Jim recommended leaving the text as it was in the MUA18 part and defining more explicitly in the glossary on how it affects the 4 characters. Mark supported. Mark added the MUA18 comment: *"IDN address" is acceptable but we must define this as IDNA2008 in the glossary.*

Nitin shared in **chat** :

- Good Read on this issue: <https://unicode.org/reports/tr46/>
- *IDNA is only meant for processing domain names, not free text. Client software, such as browsers and emailers, faces a difficult transition from the version of international domain names approved in 2003 (IDNA2003), to the revision approved in 2010 (IDNA2008). IDNA2008 supports both along with downgrading.*

Arnt said - the Gmail system server, the ZWJ or ZWNJ would be processed, but depending on the browser, the interface may not be showing the labels with ZWJ or ZWNJ (the right display). Harsha asked to clarify and Arnt would separately discuss with him by email.

Arnt was suggested to do a protocol testing, meanwhile, Harsha said he already tested. Harsha's finding was that the server rejected and the firefox browser showed the Sinhalese labels without the ZWJ (which means the words were displayed incorrectly.)

Jim helped define the issues - the browser which interacts with the email server, with usernames compliant to IDNA2008, the type of browser should be recommended for the test to be meaningful.

Jim shared in **chat** :

- *Propose adding MUA.1b and MTA.13b and MDA.5b which talk about testing with IDN domain names which are IDNA 2008 compliant but not IDNA 2003 compliant, i.e. using ZWJ, ZWNJ, Sharp-S, or Sigma.*
- *Maybe add MUA.1c and MTA.13c and MDA.5c which talk about testing address local parts with ZWJ, ZWNJ, Sharp-S, or Sigma. (IDNA 2008 rules are not relevant to local parts, but software may get this wrong.)*
- There are 4 characters which cause problems for IDNA 2003 vs 2008. Zero Width Joiner (Sinhalese), Zero Width Non Joiner (Hindi, Arabic), Latin Letter Sharp S ß (German), and Greek letter sigma-something. .Islamabad has ZWJ

Jim would add the proposed text to the document.

**Confirmed IDNA2008 as silver-level requirement.**

Conclusion MUA18 (min 32) by Jim's recommendation we leave it as is and define it in Glossary. One new use case with special characters? Mark supported.

Mark added a comment in MUA18:

"IDN address" is acceptable but we must define this as IDNA2008 in the glossary"

Arnt will do a protocol testing tomorrow.

Nitin shared in **chat** : <https://chromestatus.com/feature/5105856067141632>  
Jim said it is worth looking into.

Harsha said he would start using the guide document and test the roundcube, so that he would be able to share the results as the first user of the self-certification guide. He would also need the scoring sheet template.

Jim suggested in **chat** :

I suggest we make a blank spreadsheet for testers to use to record their results. It has something like one row per Self-Cert Guide test case, with a column for Result. Deliver this spreadsheet in CSV format. Tester returns the spreadsheet in CSV format, with the Result column filled in.

Jim referred to the score generator sheet, and Mark agreed.

Mark checked who would be at the ICANN Cancún meeting and planned to work through documents. Seda and Arnt would be there and Jim and Mark would be joining remotely. Nitin pointed out that by the time of the Cancún meeting, 2 or 3 service providers should be able to try out the self-certification guide.

In the next meeting we will start working from MUA18.

**Next Meeting:** Tuesday 24<sup>th</sup> Jan 2023 at 15:30 UTC

### Action items

No.	Action Item	Owner
1	Add proposed text to the document (MUA.1b and MTA.13b and MDA.5b)	Jim
2	Set additional meeting if all agrees	Seda

3	Send the wordlist of ZWJ-forms with frequency to the EAI-WG-mailing list.	Harsha
4	Test the self-certificating guide for roundcube, Microsoft outlook, and other possible ones.	Harsha
5	Prepare the spreadsheet-template for service providers to test	Jim
6	Test protocol level of email services	Harsha, Arnt