draft-ietf-regext-epp-eai
“Use of Internationalized Email Addresses in EPP”
Email Cardinality

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Background

- **draft-ietf-regext-epp-eai-10** entered IETF Last Call on 5/27/22
  - Updates made based on GenArt, SecDir, and ART-ART feedback
  - Removed definition of the Functional Extension and changed to Command-Response Extension
  - Latest draft is **draft-ietf-regext-epp-eai-16**

- Open issue of email cardinality (1, 1 or 2, or 1 to many)
  - “If a non-ASCII email address is to be supported, there should be provision for an all-ASCII alternative to be provided”

- Goal of Draft
  - Support the use of SMTPUTF8 addresses in EPP
Existing EPP Email Cardinality

- **RFC 5733: “Contact Mapping”** - Single required element
- **RFC 7848: “Mark and Signed Mark Mapping”** – Single required element for holder and issuer, and single optional element for contact. This extension poses an issue with changing the cardinality, since there needs to be a method to identify the email(s) being extended.
- **RFC 8543: “Organization Mapping”** – Single optional element
- **“Validate Mapping”** – Single optional element
- **”Email Forwarding Mapping”** – Single required element
- **“NameWatch Mapping”** – Single required element
Approach Options

• Keep Existing Cardinality (One)
  • Server policy would determine when an SMTPUTF8 address can be used instead of an ASCII address

• Change of Cardinality to One or Two (ASCII or SMTPUTF8)
  • Support for an alternate email element (ASCII or SMTPUTF8)
  • Require one email element is ASCII when an alternate is used
  • Alternate email element used during transition period defined by server policy

• Change of Cardinality to Many (List of ASCII or SMTPUTF8 addresses)
  • Support for many email elements (ASCII or SMTPUTF8)
  • The number of email elements and types defined by server policy
Recommendation

• “Change of Cardinality to One or Two (ASCII or SMTPUTF8)” Option
  • Provide guidance in draft for the transition period
  • Extend the create command, the update command, and the info response for an alternative email
  • Provide ability to set and unset alternative email
  • Provide indication of when an alternative email is set or not set
Conclusion

• Looking for feedback from the WG on the best option to move the draft forward