

EPP Domain Name Mapping
Extension for Bundling Registration
draft-kong-eppept-bundling-registration-00

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Requirements for Bundling Registration

- **Use Case One: Bundling Registration for IDN Variants**
 - For example, CDN registration by CNNIC
 - 孔宁.中国 -- Simplified Chinese Form
 - 孔寧.中国 -- Traditional Chinese Form
 - 孔甯.中国 -- Variant Chinese Form One
 - 孔寧.中国 -- Variant Chinese Form Two
 - 孔寧.中国 -- Variant Chinese Form Three

Requirements for Bundling Registration

- **Use Case Two:** Bundling Registration for Identical Second Level Labels in Different TLDs
 - For example, technical bundle for .NGO and .ONG new gTLDs by PIR (Public Interest Registry) ^[1]
 - example.ngo
 - example.org

[1] ICANN, "Registry Services Technical Evaluation Panel (RSTEP) Report on Public Interest Registry's Request to Implement Technical Bundling in .NGO and .ONG", July 2014, <<https://www.icann.org/public-comments/rstep-technical-bundling-2014-07-29-en>>

Requirements for Bundling Registration

- The bundled names need to be registered and maintained as a single package in order to share the following parameters:
 - Registrar Ownership
 - Registration and Expiry Dates
 - Registrant, Admin, Billing, and Technical Contacts
 - Name Server Association
 - Domain Status
 - Applicable grace periods
 - DS records
 - Others by Special Server Policy

Problem Statement

- The Extensible Provisioning Protocol (EPP) domain name mapping [RFC5731] only support the domain name registration one by one.
- It does not specify how to register and manage the bundled names which share the same parameters as a single package.

Proposed Solution

- Both Object Attributes and EPP Commands defined by RFC5731 are proposed to be extended for the provisioning and management of bundled names as a single package.
- The bundled names with the same parameters should share one domain object.
 - As one bundling registration request is accepted, the registry should generate a set of bundled names sharing one domain object.
 - Whenever users update any domain name's attributes within one bundle package, all domain names within the bundle package should be updated.

Open Questions

- How many people interested in this work?
- Does RFC 5910 (DNS Security Extensions Mapping for the EPP) also need to be extended to support the bundling registration?

Any Comments?

Thanks!