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EPP Extension Discussion

Allocation Token Extension

Change Poll Extension

IDN Table Mapping

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Introduction

- Discuss Three EPP Extension Internet Drafts with
 - Why
 - What
 - Open Items
- Collaboration Between Registries
 - Verisign and Neustar
 - Allocation Token Extension
 - Change Poll Extension
 - Verisign and Uniregistry
 - IDN Table Mapping

Allocation Token Extension

Allocation Token : Why

- Came out of discussion of releasing reserved domains
- Simplified flow for registering reserved domains
 - Alternative to Applications in draft-ietf-epext-launchphase
- Example Flow
 - Registry Generates Random Allocation Token for Domain
 - Registry provides Allocation Token and Domain to Auction Provider
 - Auction Provider runs Domain Auction
 - Auction Winner receives Allocation Token
 - Auction Winner passes Allocation Token to Registrar
 - Registrar passes Allocation Token to Registry in Transform Command (Create, Update, Transfer)
 - Registry Validates Allocation Token and Allocates Domain if Valid

Allocation Token : What

- Standards Track [Internet Draft](#)
- Extension to Any Object Mapping
- Extension with a single XML Token

```
<allocationToken:allocationToken
  xmlns:allocationToken="urn:ietf:params:xml:ns:allocationToken-1.0">
  abc123
</allocationToken:allocationToken>
```

- Extension to
 - Check Command
 - Info Command and Response
 - Create Command
 - Transfer Request Command
 - Extension of Empty Update Command like New Release Verb

Allocation Token : Open Items

- Why not use Auth Info?
- Why not Leverage a Key / Value Pair Extension?
- Other Approaches to Problem?

Change Poll Extension

Change Poll : Why

- Notify Clients of Server-Side Changes
 - What, When, Who, and Why
- Help Clients Reconcile Their Data Against the Server
- Clients Could Opt-In or Opt-Out of Messages
- Examples of Changes Include
 - Regular Batch Processes
 - Customer Support Actions
 - UDRP or URS Actions
 - Court Directed Actions
 - Bulk Updates based on Customer Requests

Change Poll : What

- Standards Track [Internet Draft](#)
- Extension to Poll Info Response of Any Object Mapping
- Two Different Message States
 - Before – Optionally Provide the Before State of Object
 - After – Provide the After State of Object
- Attributes Include
 - Operation
 - Date
 - Server Transaction Identifier
 - Who
 - Case Identifier – Optional
 - Reason – Optional

Change Poll : Example

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1301">
      <msg lang="en-US">
        Command completed successfully; ack to dequeue</msg>
      </result>
      <msgQ id="202" count="1">
        <qDate>2013-10-22T14:25:57.0Z</qDate>
        <msg>Registry initiated update of domain.</msg>
      </msgQ>
    <resData>
      <domain:infData
        xmlns:domain="urn:ietf:params:xml:ns:domain-1.0">
        <domain:name>domain.example</domain:name>
        ...
      </domain:infData>
    </resData>
    <extension>
      <changePoll:changeData
        xmlns:changePoll="urn:ietf:params:xml:ns:changePoll-1.0"
        state="after">
        <changePoll:operation>update</changePoll:operation>
        <changePoll:date>2013-10-22T14:25:57.0Z</changePoll:date>
        <changePoll:svTRID>12345-XYZ</changePoll:svTRID>
        <changePoll:who>John Doe</changePoll:who>
        <changePoll:reason>URS Lock</changePoll:reason>
      </changePoll:changeData>
    </extension>
    ...
  </response>
</epp>
```

Change Poll : Open Items

- Is a Before State Needed?
- Does the DNS Deferred Publication Case Apply?
- Any Other Attributes Needed?

IDN Table Mapping

IDN Table : Why

- [IDN Extension](#) uses a Server Defined IDN Table Identifier
- Clients Need a Way to Determine the IDN Table Identifier
- Provide a Query Mapping to
 - Validate the IDN Domain Name against Server IDN Policies
 - Return Whether the IDN Extension is Needed
 - Return the Matching Set of Table Identifiers
 - Return the IDN Table Information
 - Return the List of Table Identifiers

IDN Table : What

- Standards Track [Internet Draft](#)
- IDN Table Object Mapping Extension with
 - Check Command and Response
 - Domain Check Form
 - Table Check Form
 - Info Command and Response
 - Domain Info Form
 - Table Info Form
 - List Info Form

IDN Table :

Example Domain Form Check Response

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <response>
    <result code="1000">
      <msg>Command completed successfully</msg>
    </result>
    <resData>
      <idnTable:chkData
        xmlns:idnTable="urn:ietf:params:xml:ns:idnTable-1.0">
        <idnTable:domain>
          <idnTable:name valid="true">
            idn1.example</idnTable:name>
          <idnTable:table>CHI</idnTable:table>
        </idnTable:domain>
        <idnTable:domain>
          <idnTable:name valid="true" idnmap="true">
            idn2.example</idnTable:name>
          <idnTable:table>CHI</idnTable:table>
          <idnTable:table>JPN</idnTable:table>
        </idnTable:domain>
        <idnTable:domain>
          <idnTable:name valid="false">
            idn3.example</idnTable:name>
          <idnTable:reason>Commingled scripts
          </idnTable:reason>
        </idnTable:domain>
      </idnTable:chkData>
    </resData>
  </epp>
```

IDN Table :

Example Table Form Info Response

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
...
  <idnTable:infData
    xmlns:idnTable="urn:ietf:params:xml:ns:idnTable-1.0">
    <idnTable:table>
      <idnTable:name>CHI</idnTable:name>
      <idnTable:type>language</idnTable:type>
      <idnTable:description lang="en">Chinese (CHI)
      </idnTable:description>
      <idnTable:upDate>2015-02-04T09:30:00.0Z
      </idnTable:upDate>
      <idnTable:version>1.0</idnTable:version>
      <idnTable:effectiveDate>2014-11-24
      </idnTable:effectiveDate>
      <idnTable:variantGen>true</idnTable:variantGen>
      <idnTable:url>
https://www.iana.org/domains/idn-tables/tables/tld\_chi\_1.0.txt
      </idnTable:url>
      <idnTable:codePoint>
        <idnTable:point>002D</idnTable:point>
      </idnTable:codePoint>
      <idnTable:codeRange>
        <idnTable:from>3918</idnTable:from>
        <idnTable:to>396E</idnTable:to>
        <idnTable:comment lang="en">
          CJK Ideograph Extension A
        </idnTable:comment>
      </idnTable:codeRange>
    </idnTable:table>
  </idnTable:infData>
...
</epp>
```


IDN Table : Open Items

- Is Returning the IDN Table Code Points Useful?
- Is Returning IDN Tables as Defined in draft-davies-idntables Useful?
- Is Language Generation Rulesets (LGR) a Better Name than IDN Table for the Object Mapping?

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