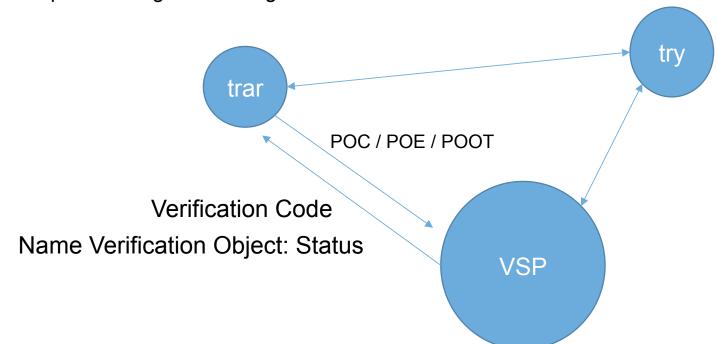# Verification Extension for the Extensible Provisioning Protocol (EPP) Contact / Domain Name Mapping

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Verification issue got community concerns

- Verification Code Extension for the Extensible Provisioning Protocol (EPP), J Gould
  - Verification Code for marking the data for a transform command as being verified by a 3rd party
- Extensible Provisioning Protocol (EPP) China Name Verification Mapping, X Jiagui, J Gould
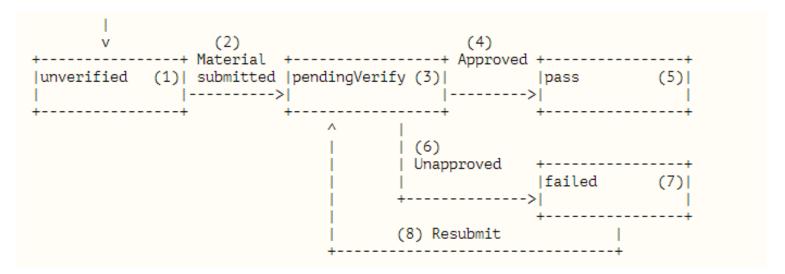 - provisioning and management of Name Verification stored in a shared central repository

POC / POE / POOT

Verification Code

Name Verification Object: Status

Key factors in verification process from local practice

- According to the verification practice from CNNIC and ZDNS since 2009, the key factors are extracted as follows:
    - Time Sensitivity
        - Verification service time-cost impacts the SLA of registrar and registry
    - Transparency
        - Public Access to verification status and time-cost (through EPP or Whois)
    - Multiple interactions and state descriptions
        - Inconsistency between applied documentation and verification rule
        - Name holder, documentation timeliness, registration rules change during a domain name life-cycle
    - Integrity of Historical records

Extension for EPP Contact/DomainName Mapping

- To offer detailed verification statuses which are employed in practice to indicate the process under any given verification framework

```
                 |
                 v                  (2)                         (4)
+----------------+ Material  +-----------------+ Approved +----------------+
|unverified   (1)| submitted |pendingVerify (3)|          |pass         (5)|
|                |---------->|                 |--------->|                |
+----------------+           +-----------------+          +----------------+
                                     ^          |
                                     |          | (6)
                                     |          | Unapproved   +----------------+
                                     |          |              |failed       (7)|
                                     |          +------------->|                |
                                     |                         +----------------+
                                     |          (8) Resubmit                  |
                                     +---------------------------------------+
```

- EPP should be extended accordingly to be in alignment with the verification status indication.

Extension for EPP Contact/DomainName Mapping

Object Attributes

EPP Command Mapping

Contact	Domain Name

Distinction Type
o verified
o blocked
o unverified

Distinction Type
o reserved
o prohibited

Verification Status
o unverified
o pendingVerify
o pass
o failed

dates & times

client identifier

✕

EPP Query Commands
o EPP <check> Command
o EPP <info> Command
o EPP <transfer> Command

EPP Transform Commands
o EPP <create> Command
o EPP <delete> Command
o EPP <renew> Command
o EPP <transfer> Command
o EPP <update> Command

Transparent to the user

The next step

- Expand the local ccTLD/gTLD practice
  - Test and cooperation with global TLD registries and local VSPs

- More status might be needed to describe a universal / adaptive process to different VSP practices.

- Correspondingly, EPP commands might be extended further to catch up with varied VSP practice.

Thanks
Q&A