

Extensible Provisioning Protocol (EPP) mapping for DELEG records (draft-brown-epp-deleg)



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What is DELEG?

- At the hackathon in Prague, a small group began working on an extensible delegation mechanism based on SVCB called DELEG.
- Provides an alternate way for one zone to delegate a subordinate zone, instead of the traditional NS record.
- Has the opportunity to solve a number of long-standing issues with the DNS, for example signalling support for new transports, resolving operational challenges with DNSSEC, etc.
- The “New DNS Delegation” BOF yesterday **MAY** result in a new WG, which **MAY** adopt DELEG as a work item.
- DELEG does not seek to disrupt the fundamental architecture of the DNS, or the prevailing business model(s).
- Therefore, support on the provisioning channel is required to facilitate adoption of DELEG.

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- Co-authored with my ICANN colleague Paul Hoffman (who was the co-chair of the BOF).
- Extends domain objects to create new elements describing DELEG records, included in <info>, <create>, <update>.
- Leverages XML syntax to concisely encode DELEG records in XML.

Examples

```
<deleg:deleg  
  priority="0"  
  target="config.example.net" />
```

```
<deleg:deleg  
  priority="1"  
  target="ns1.example.com">  
  <deleg:params  
    ipv4hint="192.0.2.1"  
    ipv6hint="2001:DB8::1" />  
</deleg:deleg>
```

Next steps

- DELEG is a loooong way from being finalised as a standard and will probably change quite dramatically from its current appearance.
- A long-standing complaint from previous protocol developments was that delays in updating the provisioning channel hindered adoption. This draft seeks to ameliorate this by proactively adding support for DELEG to EPP
 - An RDAP extension also seems reasonable
- Don't expect this to become a WG work item for some time!

Any questions?



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