Directory Services Status Update
(including ARP Optimization)

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Directory Services Related Drafts

- In RFC Editor’s queue
  - draft-ietf-trill-ia-appsubtlv
    - Provides a data format for transmitting directory information
- In/Past IETF LC
  - draft-ietf-trill-channel-tunnel
    - Provides security for Pull Directory requests and responses
    - In 2nd IETF LC due to a downref
Directory Services Related Drafts

• Past WG LC
  – draft-ietf-trill-directory-assist-mechanisms
    • Provides the actual mechanisms for Push and Pull directories with services to R Bridges
    • Push directories hosted on R Bridges, Pull directories hosted by R Bridges or end stations

• WG Draft
  – draft-trill-directory-extensions
    • Provides Push and Pull directory services to end stations
Directory Services Related Drafts

Yellow = Directory Assist Mechanisms Draft

- Ordinary End Station
- RBridge Push/Pull Directory Client
- RBridge Push/Pull Directory Server
- RBridge Pull Directory Proxy
- End Station Pull Directory
Directory Services Related Drafts

Yellow = Directory Assist Mechanisms Draft
Red = Directory Extensions Draft

- Ordinary End Station
- RBridge Push/Pull Directory Server
- End Station Push/Pull Client
- RBridge Push/Pull Directory Client
- Client Proxy
- RBridge Pull Directory Proxy
- End Station Pull Directory
Directory Services Related Drafts

• WG Drafts – users of directory services
  – draft-ietf-trill-arp-optimization
    • Local RBridge can locally handle some ARP/ND requests
  – draft-ietf-trill-directory-assisted-encap
    • Directory assisted encapsulation by end station
    • Decapsulation still be edge RBridge
  – draft-ietf-trill-smart-endnodes
    • Directory assisted encapsulation and decapsulation by end station.
Directory Services Related Drafts

- Smart Endnodes
- Directory Assted Encap
- Directory Extensions
- ARP/ND Optimization
- Directory Assist Mechanisms
- IA APPsubTLV
- Channel Tunnel

Past WG LC
Past IETF LC
In RFC Ed Queue
ARP/ND Optimization Draft

• Draft returned to the WG from the IESG. 3 DISCUSSes with the following points:
  – After an edge RBridge learns that an IP address is connected to it, what does it do about testing that it is still there?
    • Various possibilities: Time-outs reset on seeing locally originated IP traffic; periodic ARP/ND pings to the local station; ...
  – Needs guidance as to when to pick which of the a1 through a5 options in Section 3.2.
  – Needs guidance as to the source address of responses synthesized by edge Rbridge.
  – Needs to more clearly specify what to do in the case of SEND (Secure ND). That case rules out some options.
ARP/ND Optimization Draft

• (continued)
  – Multiple cases of questionable RFC 2119 key words (MUST / SHOULD / MAY) need to be reviewed/fixed.
Plan Going Forward

• Respond to the 1 IESG DISCUSS (out of 3 DISCUSSes) not yet responded to.

• Produce and post updated draft incorporating changes agreed to by Area Directors who had posted a discuss. (Agreement already reach for 2 out of 3.)

• Run WG Last Call.
  – Resolve any comments.

• Request Publication
END

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