Directory Assisted TRILL Edge Status

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Directory Assisted TRILL Edge

- RFC 7067, “Directory Assistance Problem and High-Level Design Proposal”

• Scenario: One or more Push or Pull directories.
  - Directory information can be used for ARP/ND optimization, reduced or eliminated unknown destination address address flooding, and protection against forged source addresses.
  - Push Directories push info to anyone subscribing using the ESADI protocol (RFC 7357).
  - Pull Directories respond to queries from edge TRILL switches.
  - Directory information is a set of “addresses” for an interface/port, such as an IP address, MAC address, and TRILL switch nickname from which that interface is reachable.
Directory Assist Drafts

- **draft-ietf-trill-directory-assist-mechanisms-03**
  - Specifies the push and pull directory mechanisms.

- **draft-ietf-trill-ia-appsubtlv-05**
  - Specifies a data format for directory information on the wire.
  - ia = interface addresses.

- **draft-ietf-trill-directory-assisted-encap-01**
  - Uses directory and existing TRILL features for pre-encapsulation on CE for ingress and de-capsulation at edge RBridge on egress.

- **draft-ietf-trill-arp-optimization-01**
  - Uses directory for local ARP and ND responses.

- **draft-ietf-trill-channel-tunnel-07**
  - Specifies two orthogonal extensions to the Rbridge Channel feature (see RFC 7178): security and payload type.
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• Draft dependencies

- Through WG Last Call, some comments to be resolved
- Through IESG

- directory-assisted-mechanisms
  - arp-optimization
  - directory-assisted-encap
  - rfc7180bis
  - Ia-appsubtlv
  - channel-tunnel

Provides security for Pull Directory Messages
Most Recent Presentations:
- draft-ietf-trill-directory-assist-mechanisms-01
- draft-ietf-trill-ia-appsubtlv-02
- draft-dunbar-trill-directory-assisted-encap-08
- draft-yizhou-trill-arp-optimization-01
- draft-ietf-trill-channel-tunnel-04
END