

Directory Services Status Update (including ARP Optimization)

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Directory Services Related Drafts

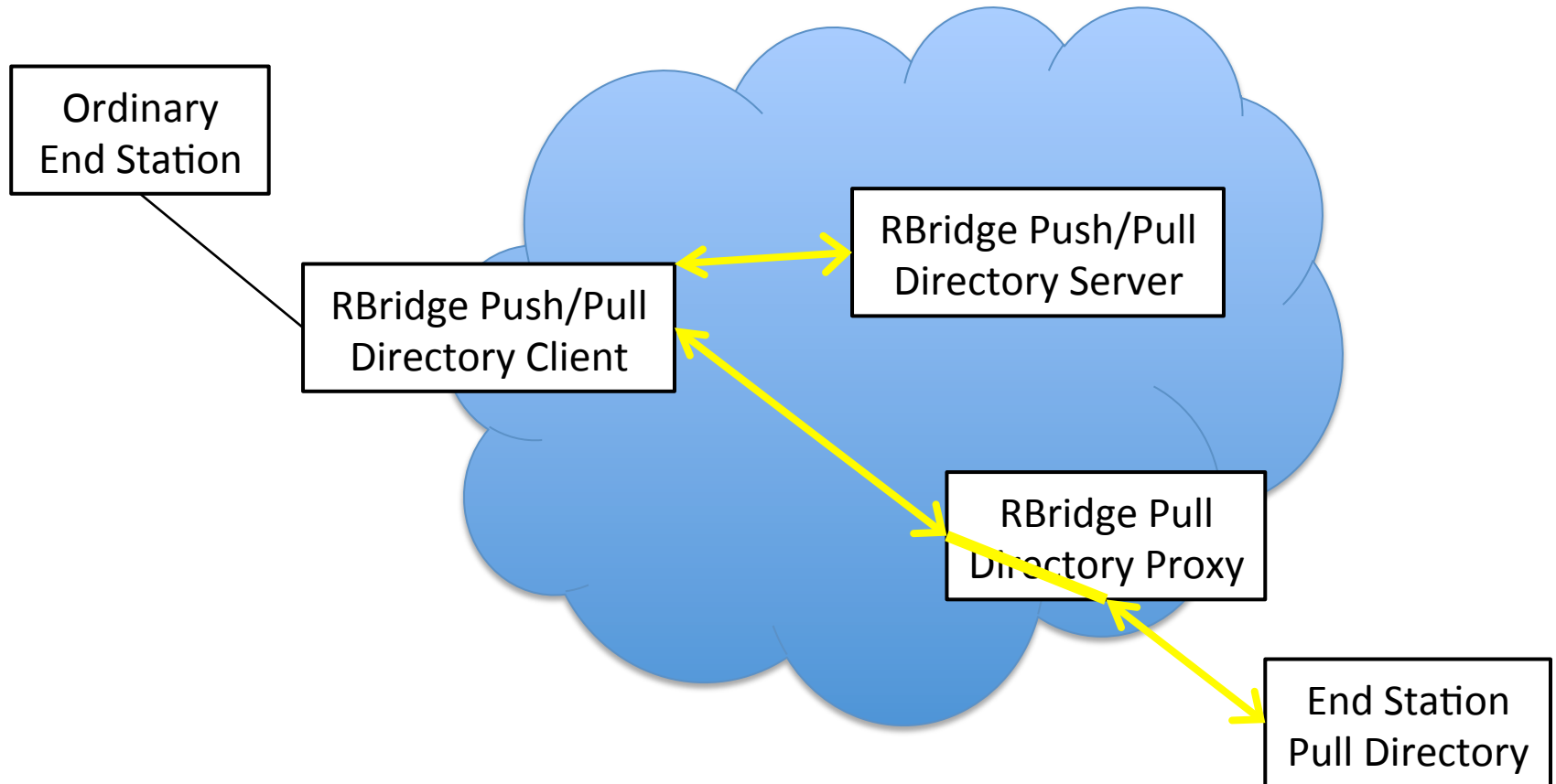
- In RFC Editor's queue
 - draft-ietf-trill-ia-appsubtlv
 - Provides a data format for transmitting directory information
- In/Past IETF LC
 - draft-ietf-trill-channel-tunnel
 - Provides security for Pull Directory requests and responses
 - In 2nd IETF LC due to a downref

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 RBridges
 - Push directories hosted on RBridges, Pull directories hosted by RBridges or end stations
- WG Draft
 - draft-trill-directory-extensions
 - Provides Push and Pull directory services to end stations

Directory Services Related Drafts

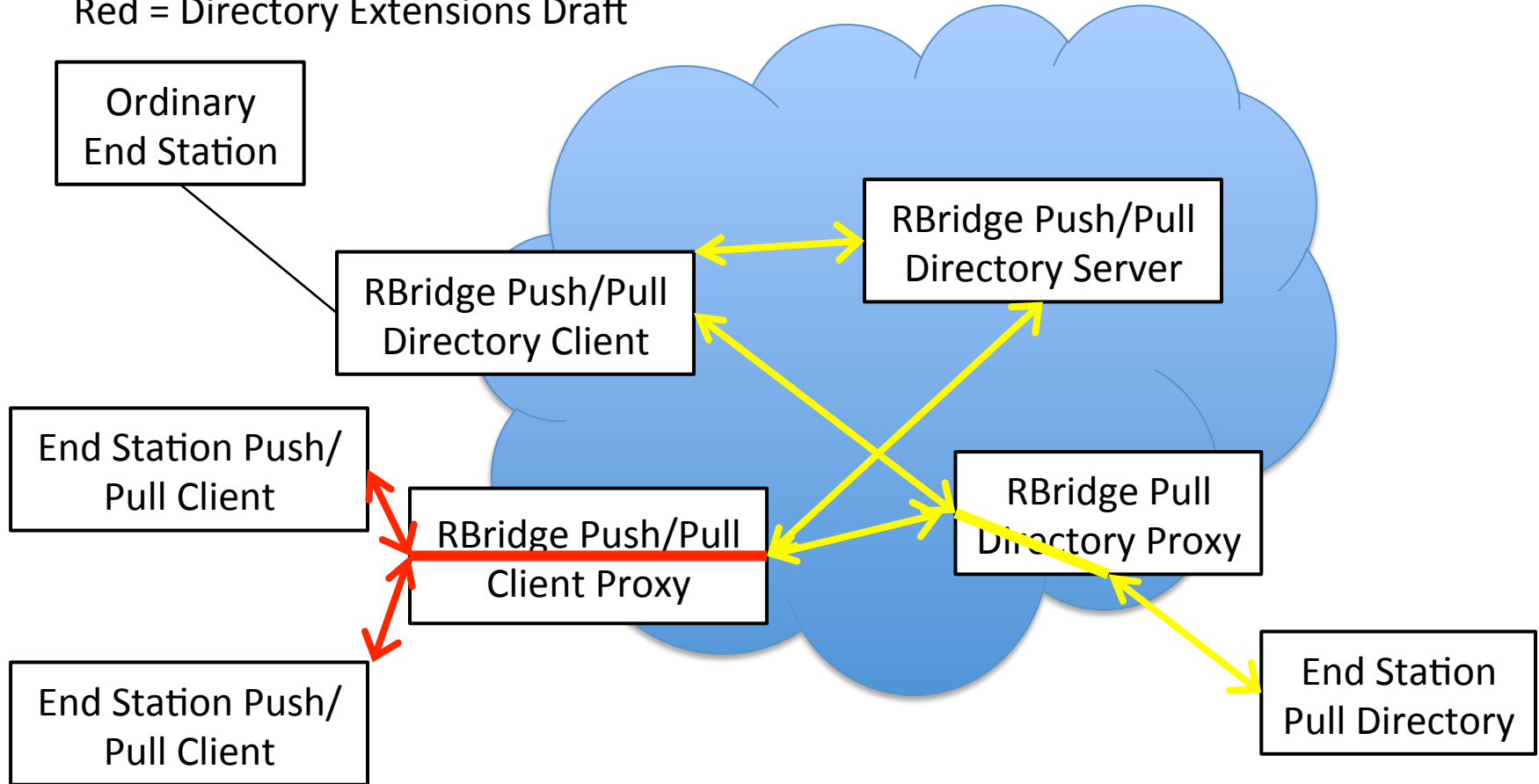
Yellow = Directory Assist Mechanisms Draft



Directory Services Related Drafts

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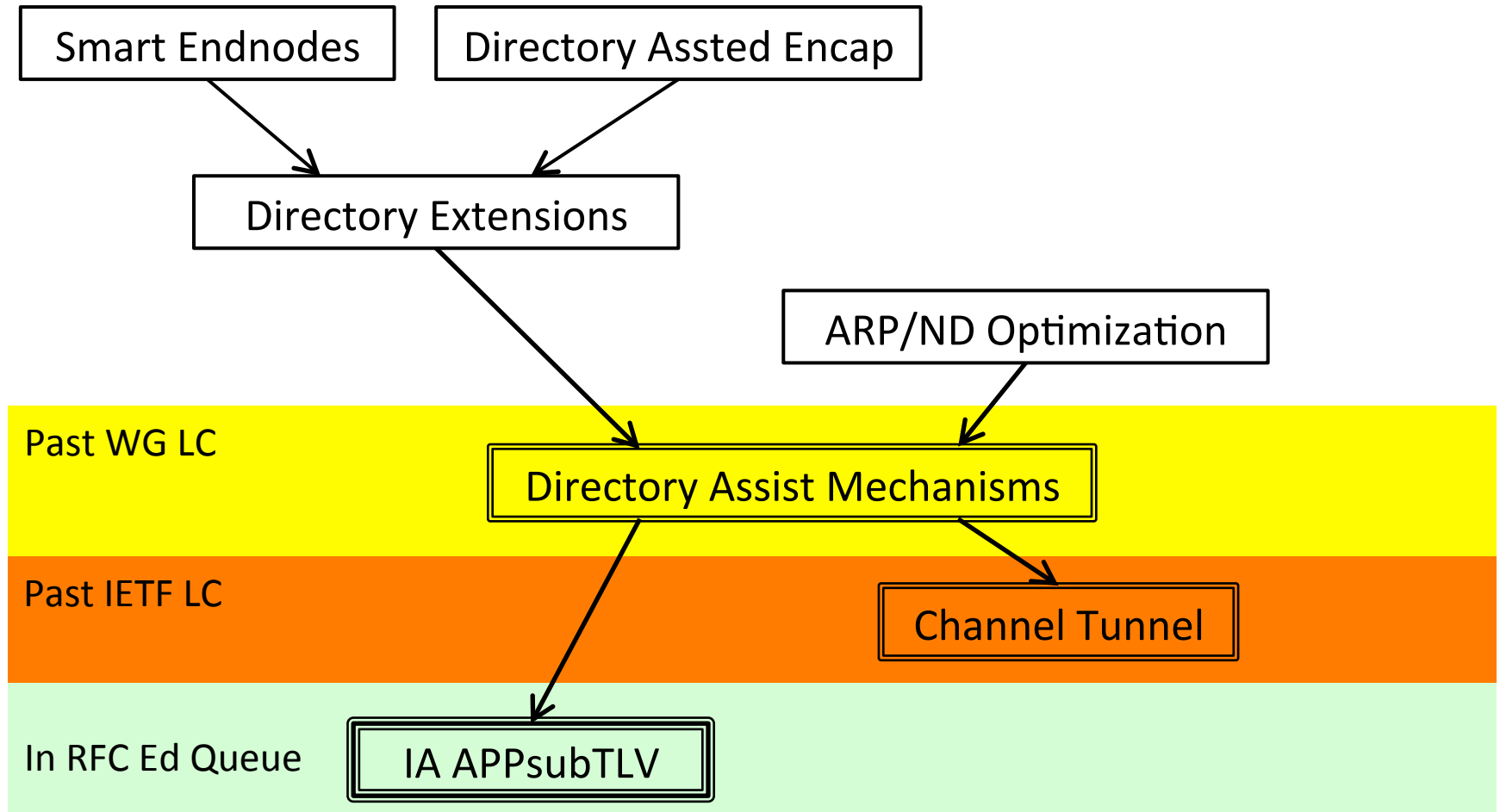
Red = Directory Extensions Draft



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



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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