

# SCTP TML update

Forwarding and Control Element Separation WG

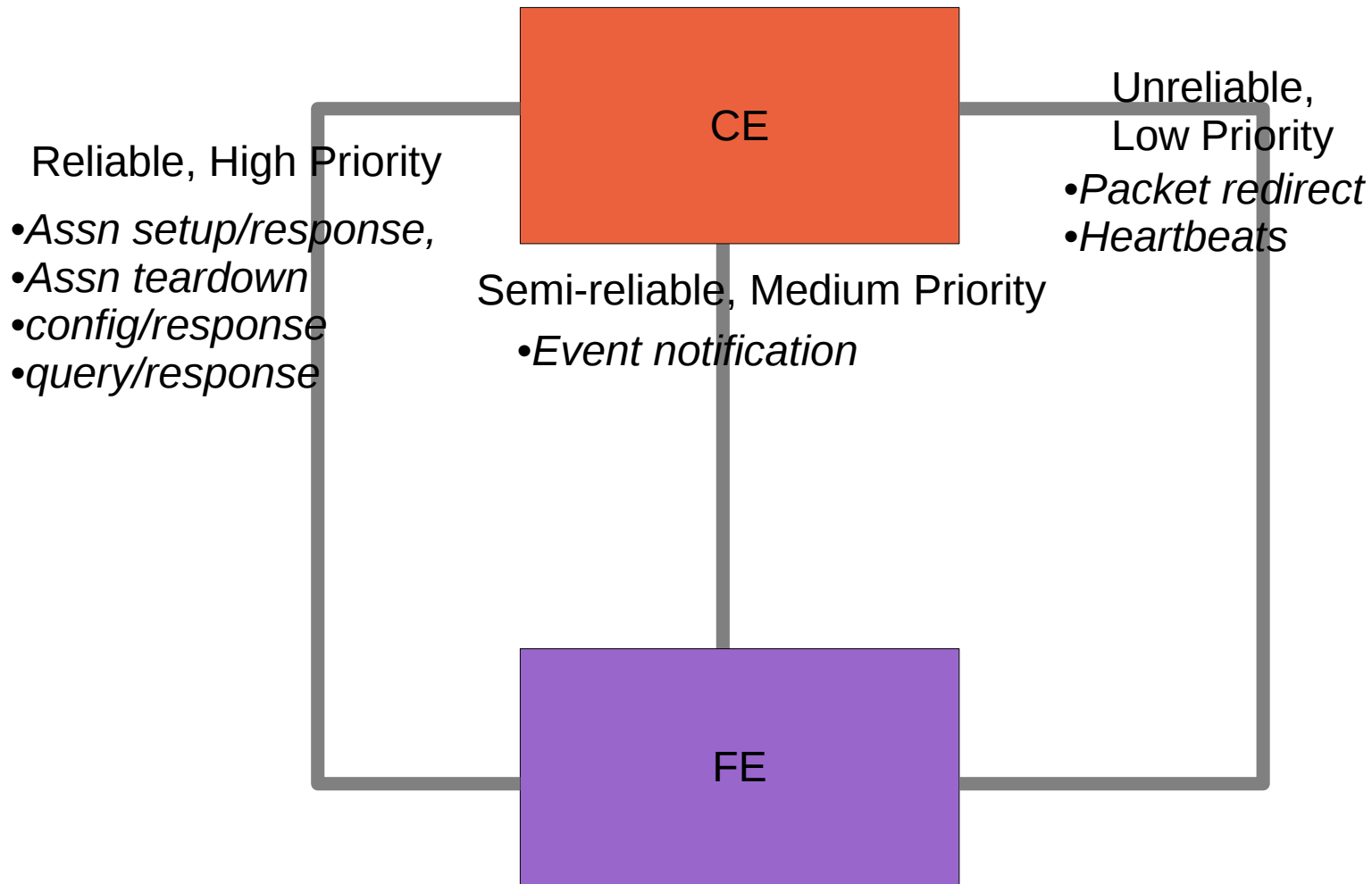
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# General status

- Version 2 of draft released January 2009
- A few issues from feedback
  - We hope to resolve these and any outstanding ones found from implementation
- We hope to LC soon after Stockholm
- We hope to get approval for publication before Hiroshima
  - Free the other 3 docs from the RFC editor queue

# Recall: SCTP TML Channels



# Feedback 1: possible HOL blocking

- Raised by Evangelos
- Consider: an FE busy processing HP messages
  - CE issues Association Teardown
    - Teardown serialized behind outstanding messages instead of immediate processing
- Possible resolutions:
  - CE should be smart enough not to do this
    - Adds programming/IO complexity
  - Introduce SHP channel for emergency messages
  - CE close sockets (immediately noticed on FE)

# Feedback 2: Node overload

- Now a TML requirement raised by Magnus Westerlund
- An FE could be overwhelmed by very few messages with no transport congestion
  - CE retransmits over and over
  - Resolution: introduce a TML level message(s)
    - “message received, processing in progress” and/or Backward congestion notification
    - Such a message would be super-high priority (justifying need for SHP channel mentioned earlier)

# Feedback 3: TLS vs IPSEC

- Initially raised by Cullen Jennings
- DTLS and TLS for SCTP will take a while to become fully standardized
  - This may mean further delay in standardization
- TLS/DTLS also adds more programming complexity relative to IPSEC
- Resolution: Support IPSEC only