IETF67 - Softwires WG

Updates on Hub & Spoke Framework

draft-ietf-softwire-hs-framework-l2tpv2-02

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Hub & Spoke Framework

- Update discussed in Interim Meeting (2006/09)
- Co-edited with B.Storer during October
- Final updates delayed, Draft Cut-off missed ...
- Last version:
  https://carlos.homeunix.net/svn/softwire/hs-framework-l2tpv2/hs-l2tpv2.txt

Hub & Spoke Framework

- Changes
  - No changes on scenarios
  - Consolidations of "Softwire Establishment" section
  - Structural and textual changes on "BCP" sections

Hub & Spoke Framework

- Softwire Establishment
  - 3 steps defined:
    - L2TPv2 Tunnel Establishment
    - PPP and end points configuration
    - Additional configuration for routers
  - Last step si optional depending of which scenario is used
  - Scenario and Address Family to be used are decided by the Softwire Initiator

Hub & Spoke Framework

- Softwire Tunnel Maintainance
  - 2 possibilities for Dead End Detection:
    - L2TP HELLO messages
    - PPP LCP messages
  - HELLO has 84sec timeout
  - Use LCP for faster Dead End Detection

Hub & Spoke Framework

- "BCP" sections renamed as "Considerations"
- Considerations for operations of Softwire providers
- 5 sections at the end of the document
- Removed all normative language

Hub & Spoke Framework

- Considerations for Address Provisioning
  - Addresses for Softwire end points
    - Should give Global Addresses
    - Different solutions may be appropriate
    - Example for IPv6: One /64 per Softwire
  - Delegated prefixes
    - Removed considerations about Reverse DNS

Hub & Spoke Framework

- Considerations for Address Stability
  - New section with text taken from Addr. Provisioning
  - End points addresses may change even using the same SC
  - Delegated prefixes should be stable when using the same SC, but may change on a different SC

Hub & Spoke Framework

- Considerations for RADIUS Integration
  - Add a reference to RRAO mechanism for DHCPv6 (Relay Agent RADIUS Attribute Option)
- Considerations for Maintainance and Statistics
  - Mention a problem to differenciate Address Family in traffic accounting (draft-stevant-softwire-accounting-01)

Hub & Spoke Framework

- Moving forward
  - Finalize current draft
    - More schemas
    - More references to documents
  - Discuss changes on ML
  - To be sent to IESG as Proposed Standard