Update on L2/L3/common VPN YANG Modules

draft-ietf-opsawg-vpn-common
draft-ietf-opsawg-l3sm-l3nm
draft-ietf-opsawg-l2nm

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https://github.com/IETF-OPSAWG-WG/l3nm
(all three drafts in the same git)
draft-ietf-opsawg-vpn-common

• Main Changes since IETF#109
  – Addressed the yangdoctors review
    • Good review
    • Fixed some issues such as avoid enumeration typedefs when it makes sense, add some descriptions, cannonical order
  – Enhance the readability of the module
    • Added annotations
    • Reordered some data notes for better clarity
  – Added more protocols that are used as underlay transport to accommodate LxNM deployment scenarios such as in DCs
  – Add more text to present the data nodes

• Next Step
  – No pending issues
  – Ready to go for the WGLC
draft-ietf-opsawg-l3sm-l3nm: Changes (1/2)

• Editorial updates:
  – Acronyms added
  – Reviewed architecture section to align and show relation with latest RFCs/drafts
    • ietf-teas-enhanced-vpn, ietf-teas-ietf-network-slice-definition, ACTN
  – Trees in the draft text updated
  – Explanations for every branch/leaf added for a better understanding of the model
  – Explanation on how to manage loopback interfaces at vpn-network-access level to the VPN (issue #221)

• Appendix updates:
  – Added Examples with IPv6 addresses. (issue #188)
draft-ietf-opsawg-l3sm-l3nm: Changes (2/2)

• Modeling updates:
  – Additional static routes attributes (issue #191)
  – External-connectivity included (issue #189)
  – Order of the leafs in the module updated for better readability (issue #187)
  – Support for PIM (issue #217) and IGMP (issue #215) at both vpn-node level and vpn-network access (CE-PE) level to support Multicast L3 VPN use cases
  – PE-CE security update (issue #192) added key-chain.
  – Add useful fields from CSMs to NSMs (Issue #209)
    • The model allows to point to the Customer Service Model.
  – Maximum Routes (Prefixes) Generalization (issue #213)
draft-ietf-opsawg-l3sm-l3nm: Status and next steps

• No pending issues so far
• Ready for the WGLC
• Complementary work in TEAS for TE Service Mapping
  – Associate Traffic Engineering paths (SR or RSVP-TE or VN) to the LxVPN service. Use of templates. Follow TEAS for the discussions!!
draft-ietf-opsawg-l2nm: Status and Open issues (1/2)

• We have received the Routing Directorate review.
  – The issues are solved as part of the VPN-Common model Update.

• The list of open Issues are the following:
  – Issue #205: Diffserv Model Type
  – Issue #204 EVPN Flavors
  – Issue #203 Bridge domain Id Definition
  – Issue #202 Split Horizon Support
  – Issue #201 IP Fast Re-Route support
The set of issues closed during the latest months are:

- EVPN issues:
  - Issue #25 EVPN: Missing validation for dot1q
  - Issue #23 EVPN: t-ldp with static label
  - Issue #22 EVPN: Add support for dot1q push/pop/translate options
  - Issue #21 EVPN: ESI missing for multi-homed evpn-vpws
  - Issue #20 EVPN: Control-word missing
  - Issue #19 EVPN: Vpws-evpn IDs missing
- Issue #5 how precedence-type is different from access-priority under availability question
- Add examples (issue #11) and section on Sample Uses of the L2NM Data Model
- Issue #26 Node list: Limit elements for Point-to-point services
draft-ietf-opsawg-l2nm: Next Steps

• The closed issues will be included in the next draft release
• Review the EVPN support by IETF experts
• Solve all open issues in github
• Reviews and comments are welcome