**MTNM Release Notes**

Release Notes for Release 4.5

RN312

1.1

**Nov, 2014**

Notice

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# Getting Started:

The documents describe all the changes in MTNM Release 4.5(compares Release 3.5). Which includes some minor enhancements and support for L3VPN management.

# Overview of MTNM Release 4.5

Minor enhancements over Release 4.0, add support for L3 VPN management.

## Summary of changes in this release

MTNM Release 4.5 introduces some important Objects on L3VPN management over Release 4.0. These enhancements are:

* + Add support for FRR and VRRP in Protection Group to < SD1-1\_additionalInfoUsage.doc>
  + Add model definition for VRF and Static route table. The model for FRR and VRRP PG, VRF and Routing Table includes read-only operations.

| **Element**  **(sub-suite or individual document of a suite as appropriate)** | **CR Number**  **(if applicable)** | **Detailed Description** |
| --- | --- | --- |
| flowDomain.idl |  | New read-only operations for L3VPN object, VRF, Static route , FRR & VRRP   * add operation getAllStaticRoutings, getAllVRFs, getFDFrVRFs |
| flowDomainFragment.idl |  | Add new struct for L3VPN object, VRF, Static route:   * StaticRoutingTableEntry\_T * StaticRoutingTable\_T * VRF\_T |
| SD1-1\_additionalInfoUsage.doc |  | Add support for FRR and VRRP in Protection Group  Add some L2/L3 PG attributes in additional Info. |

## Summary of changes in MTNM 4.0

MTNM Release 4.0 includes some minor enhancements over Release 3.5. These enhancements are:

* Add new function to better performance in large network and Big data analysis: getHistoryAlarmDataByPull()/ getHistoryPMDataByPull()
* Add missing OTN/PTN probableCause definitions in document <SD1-33\_ProbableCauses.pdf> according to TMF 063: Probable\_Cause Specification.
* update <SD1-41\_TPPoolRelationship.doc> to define TDM Over Packet model
* L3 VPN service management
  + Add layer rate definition of LSP、PW、and IP to <SD1-17\_LayerRates.doc>

| **Element**  **(sub-suite or individual document of a suite as appropriate)** | **CR Number**  **(if applicable)** | **Detailed Description** |
| --- | --- | --- |
| SD1-17 Layer Rates | 3.4 | Added New Layer definition from <TIP-TSO\_MPLS-TP\_FSD-V1-2-1.doc>  -400 LR\_MPLS\_TP  -401 LR\_MPLS-TP\_Section  New layer added for L3VPN  -413 LR\_IP  -414 LR\_MPLS\_TP\_LSP  -415 LR\_MPLS\_TP\_PW |
| SD1-18 Functional Modelling Concepts | 3.5 | Added description on how to model TDM circuit over Packet network |
| SD1-26 Guidelines for Using the OMG Notification and Telecom Log Service | 3.2 | Added definition for new notification type:  “NT\_PULL\_FILE\_TRANSFER\_STATUS” |
| SD1-33 Specification of probableCause strings | 4.2 | Added OTN/PTN related Probable Causes that already defined in TMF 063  -update “source standard” for exist Probable Cause |
| TM814A MTNM Implementation Statement and Guidelines | 3.2 | Two new interfaces for OSS to control the sequence and time of collection data from for huge network   * getHistoryAlarmDataByPull * getHistoryPMDataByPull |

# Release Definition

<< A complete listing of the contents, version numbers and indication of those documents modified since the previous release. >>

## Document Release Description

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Document Number** | **Document Name** | **Version** | **Document Status** | **Date** | **New/**  **Updated in this release** |
| TMF513 | MTNM Business Agreement | 3.2 | Ditto | Aug 2008 | N/A |
| TMF608 | MTNM Information Agreement | 4.0 | Ditto | Aug 2008 | N/A |
| TMF814 | MTNM IDL Solution Set | 3.2 | Ditto | Aug 2008 | N/A |
| TM814A | MTNM Implementation Statement and Guidelines | 3.3 | updated | Nov 2014 | Two new interface for OSS to control the sequence and time of collection data from for huge network   * getHistoryAlarmDataByPull * getHistoryPMDataByPull   Enhance support for L3VPN object, VRF, Static route , FRR & VRRP   * add operation getAllStaticRoutings, getAllVRFs, getFDFrVRFs * Add new struct: StaticRoutingTableEntry\_T, StaticRoutingTable\_T, VRF\_T |
| SD1-17 | Layer Rates | 3.4 | updated | Apr 2014 | Add New Layer definition from <TIP-TSO\_MPLS-TP\_FSD-V1-2-1.doc>  -400 LR\_MPLS\_TP  -401 LR\_MPLS-TP\_Section  New layer added for L3VPN  -413 LR\_IP  -414 LR\_MPLS\_TP\_LSP  -415 LR\_MPLS\_TP\_PW |
| SD1-26 | Guidelines for Using the OMG Notification and Telecom Log Service | 3.2 | updated | Apr 2014 | Add definition for new notification type:  “NT\_PULL\_FILE\_TRANSFER\_STATUS” |
| SD1-33 | Specification of probableCause strings | 4.2 | updated | Apr 2014 | Add OTN/PTN related Probable Causes that already defined in TMF 063  -update “source standard” for exist Probable Cause |
| SD1-18 | Functional Modelling Concepts | 3.4 | updated | Apr 2014 | Add description on how to model TDM circuit over Packet network |
| SD1-1 | AdditionalInfoUsage | 3.3 | updated | Oct 2014 | Add support for FRR and VRRP in Protection Group, add some L2/L3 PG attributes in additional Info. |

# Administrative Appendix

This Appendix provides additional background material about the TM Forum and this document. In general, sections may be included or omitted as desired, however a Document History must always be included.

## Document History

### Version History

This section records the changes between this and the MTNM 3.5.

|  |  |  |  |
| --- | --- | --- | --- |
| **Version Number** | **Date Modified** | **Modified by:** | **Description of changes** |
| 1.0 | 12 Apr, 2014 | Zeng jianguo | Create baseline from MTNM 3.5, and add Minor corrections |
| 1.1 | 01 Nov,2014 | Zeng jianguo | Update MTNM 4.0 for framework 14.5.  Add support for FRR and VRRP in Protection Group.  Add model definition for VRF and Static route table. |

### Release History

|  |  |  |  |
| --- | --- | --- | --- |
| **Release Number** | **Date Modified** | **Modified by:** | **Description of changes** |
| 4.0 | 12 Apr, 2014 | MTNM Team | Initial version for Frameworkx 14.0 |
| 4.5 | 17 Nov,2014 | MTNM Team | Initial version for Frameworkx 14.5 |