

F-Release

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The OAM project focus on the following topics:

Provide complete implementation for OAM functions (FCAPS).

Committed

1. Topology Service for rApps
 - a. Topology service image
 - b. Enhanced rApp from D-Release (using OAM interfaces - OpenFronthaul, NETCONF, VES only)
 - c. Visualization of the topology
2. Topology information used for deployment

Under Discussion for F-Release:

1. O2 interface
 - ... for App Deployment: CRD O2DMS
 - ... for xNF Deployment: TACKER O2DMS
 - ... for creating K8s Common Network Deployments
 - Pre O2IMS Provisioning (Pre-Spec)
 - O2DMS K8s Native Provisioning (Pre-Spec)
 - ... for O2IMS
 - O2 IMS Inventory API
2. Test automation based on ONAP python-sdk
3. Integration of OpenWirelessLab in OPNFV/ONAP official labs with focus on O-RAN use cases
The result is a new lab icon in this [page](#) and pointing to the page mentioned in item #2

Specifications

The following Specifications needs to be considered for software updates:

<https://www.o-ran.org/specification-access>

- **O-RAN Architecture Description 5.0 - July 2021**
O-RAN.WG1.O-RAN-Architecture-Description-v05.00
- **O-RAN Use Cases Detailed Specification 6.0 - July 2021**
O-RAN.WG1.Use-Cases-Detailed-Specification-v06.00
- **O-RAN Operations and Maintenance Architecture 5.0 - July 2021**
O-RAN.WG10.OAM-Architecture-v05.00
- **O-RAN Operations and Maintenance Interface 5.0 - July 2021**
O-RAN.WG10.O1-Interface.0-v05.00
- **O-RAN Management Plane Specification - YANG Models 7.0 - July 2021**
O-RAN.WG4.MP-YANGs-v07.00
- **O-RAN O1 Interface specification for O-CU-UP and O-CU-CP - July 2021**
O-RAN.WG5.O-CU-O1.0-v01.00
- **O-RAN O1 Interface for O-CU-UP and O-CU-CP - YANG Models - July 2021**
O-RAN.WG5.O-CU-O1.0-YANGs-v01.00
- **O-RAN O1 Interface specification for O-DU 2.0 - July 2021**
O-RAN.WG5.MP.0-v02.00
- **O-RAN O1 Interface for O-DU 2.0 - YANG Models - July 2021**
O-RAN.WG5.MP.0-YANGs-v02.00
- **O-RAN O1 Interface for O-DU 2.0 - configuration tables - July 2021**
O-RAN.WG5.MP.0-AnnexD-v02.00
- **O-RAN Management interfaces for Transport Network Elements 2.0 - July 2021** (O-RAN.WG9.XTRP-MGT.0-v02.00)

VES JSON-Schemas

- [ONAP VES 7.2.1](#)
- [3GPP TS 28.532 V16.6.0](#)
 - Annex B (Informative):
Guidelines for the integration of 3GPP MnS notifications with ONAP VES
 - A.1.1 OpenAPI document "provMnS.yaml" (CM-Notify)
 - A.2.1 OpenAPI document "faultMnS.yaml" (FM)
 - A.4.2 OpenAPI document "perfMnS.yaml" (PM - job changes)
 - A.5.1 OpenAPI document "heartbeatNtf.yaml"
- [O-RAN-SC PM-Measurement streaming](#)

Function	Source of Data model O-RAN-SC Status: 2020-10-07
Fault	3GPP: _3gpp-common-fm (Fallback from Bronze RFC8632: ietf-alarms)
Configuration	(see next lines)
interfaces and /or termination points	O-RAN-FH: RFC8343: ietf-interfaces 3GPP:
synchronization	(see next lines)
-- Network Time Protocol	RFC7317: ietf-system.yang
-- Precision Time Protocol	RFC8575: ietf-ntp.yang (check if new IEEE standard was adopted)
- DCN - OAM IF	
Ehternet OAM	- Loopback config - Link supervision
others	to be updated based on SDO progress
Accounting	not scope of O-RAN and O-RAN-SC - listed just for completeness of FCAPS
Performance	3GPP-xml, file, VES
Security	(see next lines)
Protocol TLS (for Rest, RestConf and NetConf)	RFC8446: Transport Layer Security
User Management	RFC7317: ietf-system.yang Open: o-ran-user-management
Inventory (hardware)	RFC8348: ietf-hardware.yang and iana-hardware.yang and of cause o-ran-hardware@2019-07-03.yang for the O-RAN identities. Open: only for O-RU and O-DU; O-DU anyhow optional
Software Management	Management interfaces: xran-software-management.yang o-ran-software-management.yang 3GPP and/or o-ran-o1 software-management (once exists) OpenROADM manifest file Use case: Start with and xRan-fronthaul radio unit and perform and upgrade to an o-ru with the OpenFronthaul M-plane and upgrade further to an O-RU with an O-RAN/3GPP common O1 management interface.
Backup and restore	OpenROADM manifest file
xApp onboarding (from O1 point of view)	under development by WG2 and Near-RT-RIC project
Subscription for VES	_3gpp-common-subscription-control Open: RFC8639: ietf-subscribed-notifications augmented by opnfv-ves-push.yang

