

TAPI Roadmap

General Areas to be worked on (a brief contribution should be provided)

TAPI SDK release (scheduled)

- 2.1.4 - End of December
 - Candidate refinements (Nigel Davis to refine/itemize)
 - [otcc2020.ND.013_Tapi-NotesOn2.1.4.pptx](#)
 - Resilience enhancements (already available on 2.1.x branch for review)
 - Resilience route constraints
 - [otcc2019.AM.006_TAPI_ConnectivityConstraints.pptx](#)
 - Routing Constraint enhancement
 - Connection (existing flows)
 - Physical Route for correlation and for routing diversity
 - SRG - besides link, include nodal group, e.g. power and air conditioning, etc.
 - OAM enhancements: ODU OAM
 - [g798-g874-ProbableCauses - PerfMetrics.xlsx](#)
 - Provisioning of Tandem Connection
 - Enhancement of TR-547 Reference Implementation
 - Consolidation of transmission capability
 - [otcc2020.AM.002-Transmission_Capability.pptx](#)
 - Review/refine ODU Connectivity Service Provisioning
- 2.1.5 - End of March 21
 - Manual switch operations
 - Path Computation model - Use Cases
 - Other features to be agreed as output of Oct/Nov sessions*
- 2.3 - End of December - *for further discussion*
 - Updated OAS (tooling)
 - target is improve the quality of OAS modules - either improving the tool or manually if feasible.
 - Quality, e.g. add missing comments to UML.
 - Rationale to have 2.3 rather than continue developing 2.1.x:
 - replace ENUM with IDENTITY, to enable *bkw compatible vendor extensions* within the release
 - remove all "CRUD" RPCs, to simplify model maintenance relying in RESTCONF features
 - Mainly backward compatible with 2.1.x (exceptions ENUM and RPCs)
 - Requirement for the release to be checked - condition is to stop 2.1.x stream
- Next Major Release / Develop branch - *Priorities and schedule not yet assigned*
 - Check TAPI 2.1.3 to verify if any replication is necessary
 - Streaming [Nigel Davis](#) - replicate feature from TAPI 2.1.3
 - Equipment Model [Nigel Davis](#) - Feature alignment with TAPI 2.1.3
 - Connectivity Service enhancements [Stephane St-Laurent](#) [Andrea Mazzini](#)
 - Bundled (incl. hierarchical) Connectivity Request
 - The more general chapter of organizing requests (order: sequence, dependency, grouping etc.)
 - [otcc2019.SSL.002.TAPI_ConnectivityMediaModel.pptx](#)
 - [oimt2019.AM.001_TAPI_PhotonicConnectivityModel.pptx](#)
 - [otcc2019.AM.006_TAPI_ConnectivityConstraints.pptx](#)
 - Resilience enhancements [Andrea Mazzini](#) [Nigel Davis](#)
 - Representing the Intent aspects in the request
 - Manual Resilience/Switch control, etc
 - [otcc2019.AM.004-Resiliency.pptx](#)
 - Path Computation enhancements [Stephane St-Laurent](#) [Andrea Mazzini](#)
 - Topology & Routing constraints, Objective functions
 - [otcc2019.AM.006_TAPI_ConnectivityConstraints.pptx](#)
 - Notification enhancements [Karthik Sethuraman](#) [Nigel Davis](#)
 - Alignment with Streaming & Hub patterns
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- TopologyService: Link/Node CRUD [Karthik Sethuraman](#) [Nigel Davis](#)
 - Creating different views of an existing Topology.
 - Virtual Network (Topology) Service aspects
 - TopologyService / Node, NEP and Link CRUD (e.g. Photonic Use Case)
- Multiple Contexts [Nigel Davis](#)
 - Enhancement of Documentation (e.g. future versions of TR5xx Reference Implementation)
- Ethernet (L2) [Andrea Mazzini](#) [Karthik Sethuraman](#)
 - Verify alignment/consistency with "ITU-T G.8052.1 UML & YANG and the IEEE 802.1Qcx CFM YANG" outcomes.
- Photonic (L0) enhancements [Stephane St-Laurent](#) [Malcolm Betts](#)
 - Dependent upon Topology enhancements / Virtual Ntw Topology / Link creation etc.
 - [TAPI-UC OSNR-Monitoring.pptx](#)
 - [TAPI-UC Power management for NMC service provisioning v1.0.pptx](#)
 - [TAPI Base Photonic Model v5.8.pptx](#)
 - [otcc2019.SSL.004_TAPI PhotonicMediaModel.pptx](#)
 - [otcc2019.AM.005_Photonic-OMS-OTS.pptx](#)
 - [Photonic Model V15.pptx](#)
- LLDP Support [Bernd Zeuner](#) [Andrea Mazzini](#)
 - [ieee802-dot1ab-lldp@2018-11-11.zip](#)
 - [otcc2018.BZ.001.03_LLDP-TAPI.pdf](#)
 - [NotesOnLLDPforTAPI_am120219.docx](#)
- ETSI NFV [Nigel Davis](#) [Karthik Sethuraman](#) [Stephane St-Laurent](#)
 - Touch points (Core LTP/Link)
 - Use of Processing Construct as VNF proxy
- IETF Topology (RFC 8345) alignment [Nigel Davis](#) [Karthik Sethuraman](#)
 - Not backward compatible
 - This brings in the View abstraction
 - Will need documentation and slides to explain this feature
 - [otcc2019.SSL.001.TAPI and RFC8345 Network Topologies.pptx](#)
 - [otcc2019.KS.005_TAPI_Topology_ONFConnect2019.pptx](#)
 - [otcc2019.AM.004-Partitioning_Abstraction.pptx](#)
 - [otcc2020.ND.009_TAPI-ModelRefactoring.pptx](#)
- Topology enhancements [Karthik Sethuraman](#) [Nigel Davis](#)
 - Not backward compatible
 - [otcc2019.KS.004_TAPI_Topology_Connectivity_Enhancements.pptx](#)
 - Connection ownership (ConnectivityService v/s Node)
 - ServiceInterfacePoint as role/view of NodeEdgePoint
- Profiles & Templates
- Wireless
- Device/Equipment configuration interfaces (Sw download, backup, circuit pack configuration)
- Mgmt of Device Control interfaces
- Mgmt of Synchronization/Timing

TAPI SDK release (completed)

- 2.1.3 - End of May 2020 [Andrea Mazzini](#)
 - Version created to add a selection of 2.2 features while keeping bkw compatibility with 2.1 model.
 - [otcc2020.AM.002_TAPI_2.1.3_Enhancements.pptx](#)
 - Reference Implementation [Arturo Mayoral](#)
 - [TR-5XX.1-TAPI v2.1.3 Reference Implementation_v0.9.docx](#)
 - Streaming [Nigel Davis](#)
 - [otcc2020.ND.002_TapiStreaming.zip](#)
 - [ProvidingAndMaintainingAView-20190212-TapiCore.pptx](#)
 - Equipment Model [Arturo Mayoral](#) [Nigel Davis](#)
 - The Equipment Model was moved to 2.1.3 from 2.2, including some enhancements.
- 2.2.0 - 2019 July-end
 - Equipment inventory model (new feature)
 - Routing & Resilience Constraints fixes/updates
 - Some of the constraints were changed to read-write from read-only
 - Minor structural changes (related Topology/Connectivity constraints)
 - OAM, Notification Framework updates
 - OAM Job structure refactoring and renaming
 - OAM/Threshold profile
 - Threshold/PM parameter

- Alarm/TCA linkage to Threshold/PM parameter
- ☑ Topology Model update
 - added TopologyAggregatesNEP association
 - marked NodeAggregatesNEP as deprecated
 - renamed Node.ownedNodeEdgePoint to Node.nodeEdgePoint
- ☑ ETH Technology model updates
 - mainly OAM based on MEF NRM-OAM requirements, review and feedback
- ☑ Photonic model updates
 - mainly power control management & photonic-layer-qualifier labels
- ☑ 2.1.0 - 2018 July-end
 - ☑ OTSi Spec Model Updates to include OMS/OTS Media
 - ☑ ETH Spec Model Updates to include OAM
 - ☑ DSR Spec Model
 - ☑ OAM Model Updates to align with MEF NRM-OAM
 - ☑ OpenAPI updates for RESTConf compliance
- ☑ 2.0.2 - 2018 Mar-end
- ☑ 2.0.1 - 2018 Feb-mid
- ☑ 2.0.0 - 2018 Jan-start