

# 2021-09-14 TAPI Meeting Notes

## Date

14 Sep 2021

## Attendees

- [Andrea Mazzini](#)
- [Nigel Davis](#)
- [Karthik Sethuraman](#)
- [Hing-Kam Lam](#)
- Arturo Mayoral (TIP OOPT/MUST)
- [Huy Tran](#)
- Ronald Zabaleta
- [Jonathan Sadler](#)

## Goals

- Admin
  - Any follow up on TIP requirements to ONF/TAPI?
  - Plan for dedicated RIA 1.1 review calls ([ONF TAPI RIA](#))
- Update on TAPI 2.3.1 Pre-release (<https://github.com/OpenNetworkingFoundation/TAPI/pull/515>)
- Plan for 2.4 delivery
  - Check agreements regarding [TAPI Roadmap 2021](#)
- Resume of "GNPy/CCAMP – TAPI alignment" activity
  - [otcc2021.AM.001\\_TAPI-GNPy-extensions.pptx](#)
- Presentation of [otcc2021.JS.001\\_tapi-security.docx](#)

## Agreed Items & Priority

- Below the list of the agreed items and related priority.
- An item is blocking when its resolution is necessary precondition for the delivery.

### TAPI 2.1.3 and RIA 1.1

1. OTU(+ODUCn) CEP/CSEP as single point for OTU/OTSiA ConnectivityService provisioning ([solved](#))
2. ENNI/INNI Asymmetric service provisioning for multi-domain scenarios, agree UCs ([solved](#))
3. Alarm / TCA notification ([solved - work ongoing on probable cause list](#))
  - a. Subscription
  - b. Notification contents
    - Probable Causes / Elementary alarms (e.g. ITU-T cZZZ fault causes), including TCA PM Parameters
4. OTS and OMS model ([solved](#))
5. Path Computation Use Cases ([blocking](#))

### TAPI 2.3/2.4 and RIA 1.2

1. MEP/MIP model vs. direct inclusion of OAM parameters in the CEP ([solved](#))
  - a. ODU OAM
  - b. Photonic OAM
  - c. TCA provisioning
2. Physical impairments ([not blocking](#))
  - OFC is augmenting TAPI Link, others the AbstractStrand.
  - Type of amplifier, fibre attenuation, etc.
3. Photonic model capability ([not blocking](#))
4. Lifecycle management of ConnectivityService at every layer, necessary to identify UCs ([not blocking](#))
  - Lifecycle management of single ConnectivityService, necessary to identify UCs
5. 3R ([not blocking](#))
6. UNI Client interfaces modelling. DSR/ODU multiplexing over ODU ([not blocking](#))
7. RESTCONF Response codes for use cases ([not blocking](#))
8. TAPI OAS, action points to be assigned ([not blocking](#))
9. Routing Constraints ([not blocking](#))
10. Physical Route ([not blocking](#))

## Discussion items

5 mins	Administrative	All	<p><b>Review of TR-547 1.1: Tentative scheduling of 2 hours calls for Sept 20, 22, 23, 24.</b></p> <ul style="list-style-type: none"> <li>Invited Ramon, Nigel, Ronald, Pedro, Arturo. Please others interested to contact Andrea.</li> </ul> <p>21 Sep 2021 <b>TAPI weekly call</b></p> <p>Preliminary agenda:</p> <ul style="list-style-type: none"> <li>Continue the review of TAPI 2.3.1 pre-release (decoupling FM from Notification and Streaming)</li> <li>Presentation of <a href="#">otcc2021.JS.001_tapi-security.docx</a></li> <li>TAPI 2.4 plan: <a href="#">otcc2020.ND.013_Tapi-NotesOn2.4.pptx</a> contribution</li> <li>Loopback Use Case</li> <li><i>AccessPort/connectorPin</i> is read-only, check whether the object keys of <i>ConnectorPinAddress</i> are necessary</li> </ul>
15 mins	Any follow up on TIP requirements to ONF /TAPI?	Arturo	<p>Arturo indicates that the next version of <a href="#">MUST_Optical_Controller_NBI_Requirements_Document_v10_FINAL_VERSION_WEBSITE.pdf</a> will include a backlog of prioritized use cases.</p> <ul style="list-style-type: none"> <li>The publication is foreseen in one month or so.</li> </ul>
60 mins	Update on TAPI 2.3.1 Pre-release	All	<p><a href="#">Andrea Mazzini</a> shows the main contents of <a href="#">pull request 515</a>.</p> <ul style="list-style-type: none"> <li>Discussion on the OAS generation, the related script is becoming complex / circular because: <ul style="list-style-type: none"> <li>TapiFm imports TapiStreaming</li> <li>TapiStreaming imports all core TAPI modules (tapi-common, tapi-topology, tapi-connectivity, tapi-equipment, tapi-oam, tapi-path-computation,tapi-virtual-network)</li> </ul> </li> <li>Agreed to create two new modules, <i>TapiFmNotif</i> and <i>TapiFmStreaming</i> to better decouple TapiFm from both TapiNotification and TapiStreaming. <ul style="list-style-type: none"> <li>These new modules will include only the fault management augments of notification and stream.</li> <li>Agreed to commit these modifications within <a href="#">pull request 515</a>.</li> </ul> </li> <li>Discussion on "feature" and "if-feature". <ul style="list-style-type: none"> <li><a href="#">Andrea Mazzini</a> informs that in <a href="#">MEF Resource Model Project</a> the usage of these statements has been agreed to define some macro features, e.g. "full topology management".</li> <li><a href="#">Karthik Sethuraman</a> we may explore the introduction of "connectivity" and "oam" features. For further analysis.</li> </ul> </li> <li>Arturo asks whether there are news on yang2oas tool. <ul style="list-style-type: none"> <li>No news so far.</li> <li><a href="#">Karthik Sethuraman</a> answers that there is some interest on MEF side.</li> </ul> </li> <li>A comment has been recently added to <a href="#">TAPI issues 494</a>: <ul style="list-style-type: none"> <li>"I can see that OAS folder is still present in future r2.3 release for TAPI. Again, if we are publishing something that we know is wrong to our own specifications, sounds like a very bad idea."</li> <li>Agreed to <b>update</b> the release disclaimer as follows: <ul style="list-style-type: none"> <li><b>TAPI OpenAPI Specification</b> - TAPI OAS (OpenAPI Specifications) included in this TAPI release (v2.3.1) are an <b>informative</b> part of the TAPI SDK <b>and intended to support TR-547 Use Cases, where a subset of mandatory API is specified.</b></li> </ul> </li> </ul> </li> </ul>
30 mins	Plan for 2.4 delivery <ul style="list-style-type: none"> <li>Check agreements regarding <a href="#">TAPI Roadmap 2021</a></li> </ul>	All	<ul style="list-style-type: none"> <li>Agreed to add in next week agenda the <a href="#">otcc2020.ND.013_Tapi-NotesOn2.4.pptx</a> contribution.</li> <li>Discussion on OamJob, agreed that it can be applicable to almost all management items, we may explore a more versatile model.</li> <li><a href="#">Andrea Mazzini</a> informs that in <a href="#">MEF Resource Model Project</a> has been proposed to apply the "if-feature" statement for "RPC support". <ul style="list-style-type: none"> <li><b>The team confirmed the decision to remove all RPCs from TAPI 2.4 version.</b></li> </ul> </li> </ul>
30 mins	Resume of "GNPy /CCAMP – TAPI alignment" activity	<a href="#">Huy Tran</a> <a href="#">Andrea Mazzini</a>	<p><a href="#">Andrea Mazzini</a> presents <a href="#">otcc2021.AM.001_TAPI-GNPy-extensions.pptx</a></p> <ul style="list-style-type: none"> <li><a href="#">Huy Tran</a> points out that new parameters have been defined related to Raman fiber impairments (co-effects) for a more accurate estimation. <ul style="list-style-type: none"> <li>Explore the model solution, e.g. a new class which augments OTS/OMS links with Raman amplification.</li> <li>The defined data structure is an array of 96 coefficients, each one applicable to one frequency/spectrum value.</li> </ul> </li> <li>Recalled that all the proposed "GNPy classes" can be considered as profiles, i.e. common for more instances of links, transceivers, amplifiers, etc.</li> </ul>
10 mins	Loopback feature	Ronald	<p>Ronald asks whether the loopback is a generic OAM job type or shall be defined in technology specific modules, e.g. <i>Ether net loopback</i>, <i>DSR loopback</i>, <i>ODU loopback</i>, etc.</p> <ul style="list-style-type: none"> <li>Agreed to add this item to next week agenda.</li> </ul>