

2021-03-02 TAPI Meeting Notes

Date

02 Mar 2021

Attendees

- [Andrea Mazzini](#)
- [Ronald Zabaleta](#)
- [Karthik Sethuraman](#)
- [Ramon Casellas](#)
- [Xiang YUN](#)
- [Hing-Kam Lam](#)
- [Victor Lopez](#)
- [Nigel Davis](#)
- [Leo Nederlof](#)
- [Xiaobing NIU](#)

Goals

- Admin
 - Plan next TAPI *virtual meeting*
- Review of [TAPI/pull/505](#)
- Review the updated [TR-547-TAPI Reference Implementation Agreement_v1.1.docx](#)
 - *New use cases:* 0d, 1g, 1h, 2a, 2b, 2c, 3d, 3e, 3f, 5d, 11a, 11b, 13b, 13c, 16a, 16b.
 - Finalize the discussion on asymmetric scenarios
 - Link model, agree a general rule
- Second hour: Review session of draft TR-548 (Streaming RIA)

Agreed Items & Priority

- Below the list of the agreed items and related priority for the next TAPI & RIA versions.
 - An item is blocking when its resolution is necessary precondition for the next delivery.
1. OTU(+ODUCn) CEP/CSEP as single point for OTU/OTSiA ConnectivityService provisioning (**blocking, 1**)
 - a. 3R
 - b. ENNI/INNI Asymmetric service provisioning for multi-domain scenarios, agree UCs.
 2. OTS and OMS model (**blocking, 2**)
 3. Lifecycle management of ConnectivityService at every layer, necessary to identify UCs (**blocking, 3**)
 - a. Lifecycle management of single ConnectivityService, necessary to identify UCs
 4. MEP/MIP model vs. direct inclusion of OAM parameters in the CEP (**blocking, 4**)
 - a. ODU OAM
 - b. Photonic OAM
 - c. TCA provisioning
 5. Elementary alarm (e.g. ITU-T cZZZ fault causes), including TCA related notif), current and history (**blocking, 5**)
 6. Photonic model capability (**blocking, 6**)
 7. UNI Client interfaces modelling. DSR/ODU multiplexing over ODU (**not blocking**)
 8. RESTCONF Response codes for use cases (**not blocking**)
 9. TAPI OAS, action points to be assigned (**not blocking**)
 10. Routing Constraints (**not blocking**)
 11. Physical Route (**not blocking**)

Discussion items

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Administrative

Admin

02 Mar 2021 TAPI Call: **2 hours**

- **Plan next TAPI virtual meeting.** Considering that
 - 4 April: Easter
 - 12-23 April: ITU-T SG15 E-meeting
 - 26-29 April: MEF Q2/21 Members Meeting
- we may schedule the meeting on
 - 22-26 March, or
 - 29 March - 1 April, or
 - distribute 6 days over the two weeks above, like we did on [2020Q3 TAPI Virtual Meeting Agenda and Notes Oct. 19/20/21 and Nov. 09/10/11](#)

Review the updated [TR-547-TAPI Reference Implementation Agreement_v1.1.docx](#)

- *New use cases:* 0d, 1g, 1h, 2a, 2b, 2c, 3d, 3e, 3f, 5d, 11a, 11b, 13b, 13c, 16a, 16b.
- Check the agreements on scenarios **0d, 1g, 1h, 2a, 2b, 2c, 5d.**
- Link model, agree a general rule.

Karthik Sethuraman gave a TAPI presentation at O-RAN SG1, which is looking at topology and connectivity model for transport.

Andrea Mazzini, Karthik Sethuraman to update the [TAPI Overview](#).

Ramon Casellas the plan should be:

1. Stabilize TR-547 V1.1 for TAPI version 2.1.3
2. Consolidate TAPI version 2.3
3. Proceed with TR-547 V1.2 which will include some use cases supported by TAPI version 2.3

Andrea Mazzini briefly presents the updated [otcc2020.AM.005_TAPI_Enhancements.pptx](#) with the tables summarizing all use cases.

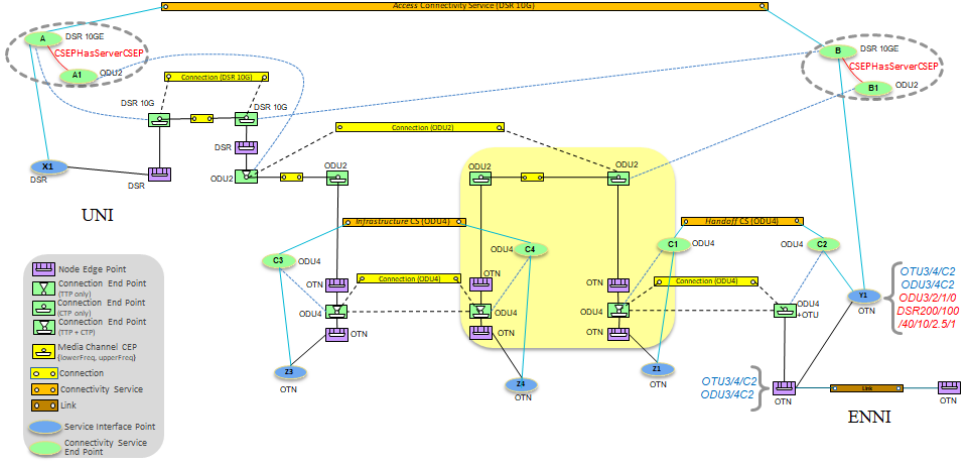
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Review the updated TR-547-TAPI Reference Implementation Agreement_v1.1.docx

Admin

Andrea Mazzini presents the updated [otcc2020.AM.001_TAPI_Photonic_Model_Evolution.pptx](#)

- Agreed that
 - The NEP shall include only the *local* capabilities.
 - The SIP shall include both *local* and *network* capabilities - e.g. DSR protocol qualifiers in figure below.
 - Ramon Casellas to capture the intent at SIP level.



- Agreed that TR-547 shall include the description of the "DIGITAL_OTN ENNI", reusable for all *asymmetric* connectivity use cases.
 - [MEF 64 Operator Layer 1 Services](#) could be the reference standard.

Finalize the discussion on asymmetric scenarios

6 0 m ins	Review session of draft TR- 548 (Streaming RIA)	Nigel Davis	<p>Nigel Davis presents TR-548-TAPI_v2.1.3_ReferenceImplementation-Streaming_v1.0-fifth-draft.zip (changes-on 3-Sep-2020)</p> <ul style="list-style-type: none"> • The Use Cases are the key items for review. • Victor Lopez asks why introduce an <i>interface strategy</i> for TAPI, which is essentially only a model. Is ONF the right place for this subject? What about • Nigel Davis the specified strategy is similar to gNMI streaming telemetry, with more refined synchronization mechanisms. • Andrea Mazzini recalls that TR-547 includes Restconf APIs. Is TR-548 prescribing any protocol to support streaming? Nigel Davis answers that TR-548 prescribes "sse" [W3C SSE], together with YANG for encoding. • Ramon Casellas asks whether the proposal is to replace notifications (and GETs) with streaming, Nigel Davis answers that it is a new approach, idea the mechanism is more efficient, but this shall be proven by implementations. • Nigel Davis recalls that the uml2yang tool does not map in Yang whether an UML attribute is mandatory or not. • Victor Lopez proposes to have a separate call for clarification regarding TR-548 scope. Agreed.
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