# Transport NBI DT - 24 May 2017

## Participants

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- Gianmarco Bruno  
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## Agenda

1) Tools for YANG/JSON examples and YANG validation  
2) Status of inter-SDO discussions  
3) Review of <https://tools.ietf.org/html/draft-zhang-ccamp-transport-yang-gap-analysis-01> to see what text we can repurpose for the DT work  
4) Comments on the JSON example for the ODU2 transit service for Use Case 1  
5) AOB  
 *Use of Path Computation YANG for label range negotiation on access links*

## Notes

### 1) Tools for YANG/JSON examples and YANG validation (Gianmarco)

RFC 7591 " JSON Encoding of Yang data" as base : it treats mapping of Yang code into JSON  
<https://tools.ietf.org/html/rfc7951>  
  
  
- Goal is to have a CLI tool to compile and test the models we develop to check for missing fields, unexpected results, errors, et al.  
- Two input files to be provided: the json-example and the yang-module.  
- Using jtox driver file for transforming JSON instance documents to XML for validation.  
- Validation results will include errors or non-compliance statements.  
- The run-config.sh is the script that takes the json example (for the config tree) and yang schema and validates it  
- The run-data.sh is the script that takes the json example (for the state tree) and yang schema and validates it  
- Issue with pyang: When using the tool to validate the JSON example for ODU2 transit service in use case1, some issues have been found:  
    The te-types:explicit-route-usage is incorrectly translated as te:explicit-route-usage in XML causing false errors  
- Overal tool is 90% complete, and once the minor issues addressed, we can use it to sanity check our models.   
- Output from the tool will be correctly formatted JSON  
- We can keep working on JSON examples (that are created manually) in parallel with solving the open issues with the YANG/JSON example validation tools.  
  
Open question for future: do we want to see if the tool can hosted  by the IETF in the future? if IETF will not host then Benoit might be willing to host on his own yang tool site.  
  
**Action: Gianmarco/Carlo to send python files.**  
**Action: Dan to create GitHub /transport-nbi/tools/ to host scripts and files.**  
  
Dhruv/Young further tools:   
      
<https://github.com/mbj4668/pyang/wiki/InstanceValidation> : already present in the command pipe used by Carlo/Gianmarco tool above  
  
<http://www.netconfcentral.org/>  
  
**Action Gianmarco/Carlo: check if there are tools useful for the DT on these sites**

### 2) Status of inter-SDO discussions

- Focused on developing business use cases  
- PRESTO is a specification project developing API for the PRESTO interface between the Service Orchestrator and theh Infrastructre Control and Management  
- OpenCS Transport is a code development project to provide reference implementation of PRESTO   
- OpenCS Packet WAN is abstrations of interfaces rather than physical interfaces  
- MEF work is based on ONF T-API and YANG models are automatically generated by UML Information Model using Open Source SDN (IISOMI) EAGLE Tools  
- MEF PRESTO interface can be mapped into ACTN MPI, and Service Orchestration Functionality could also be an MDSC, so not a 1:1 mapping  
- Emphasis is on API connection points: Service Orcestrator <-PRESTO-> Infrastructor Control and Management <-ADAGIO-> Element Control and Management   
- MEF Use Cases are very similar to ONF and current Transport NBI Use Cases  
- One future Use Case is an LSO-based Orchestrator needing to talk to seperate TAPI-based and IETF-based domain controllers  
- Potential requirement: defintion of service points may change over time, i.e., not static.   
- MEF are also developing some requirements for T-API extensions.  
- Key goal of this MEF activity is to provide certification of platforms.  
  
**Action: Investigate if MEF can provide their Use Cases via an open method (similar to l3sm working group cooperation)**

**Action: Need to see how the MEF will release their YANG models? CTO Office or SDK group?**

### 3) Review of https://tools.ietf.org/html/draft-zhang-ccamp-transport-yang-gap-analysis-01 to see what text we can repurpose for the DT work

- Sergio has been reviewing I-D there are a few sections that will provide useful text, these include: Definitions, Section 4 (Scenarios), and...   
  
**Action: Dan to put latest Work-in-progress of T-NBI Word Document on GitHub.**

### 4) Comments on the JSON example for the ODU2 transit service for Use Case 1

- Not dicussed on this call. 

### 5) AOB

- To be dicussed offline.   
  
**Action Carlo: send a mail proposing how to use Path Computation YANG for label range negotiation on access links**

## Note takers (feel free to add your name here):

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Daniel King

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