**NBI DT Meeting  
11 January 2017  
Attendees**:  
Carlo  
Haomian   
Karthik   
Oscar  
Victor  
Sergio  
Italo  
Daniel

**Agenda**

1. Define use cases of interest for the DT
2. Agree initial and prioritization of use cases for the DT to work on
3. DT Work assignment and planning
4. AOB

**Slide 4 - Igor Example**

Q. General question, what type of services? “ODU-Transit”?

UC#1 discussed in previous call with OTN access links.

Action: Update the slides to describe how the traffic would flow from C-R1 to C-R3:

C-R1 (PKT -> ODUk), S3 (ODUk), S6 (ODUk), S9 (ODUk), C-R3 (ODUk -> PKT)

Note that C-R1 (PKT -> ODUk) and C-R3 (ODUk -> PKT) adaptations are not controlled by the transport PNC (and therefore outside the scope of transport MPI)

Karthik, what is the single-domain use case attempting to solve?

Q. Assume there is no ODU hierarchy?

ODU topology is assumed either not to be present or to be pre-configured and not controlled via MPI

Q. What type of topology abstraction will be required and needs to be considered in the first use case: White, Black, Gray? Start assuming a white topology abstraction. We can think later if we need also to analyze black or grey topology abstractions.

Q. Description for White (1:1 topology, no abstraction), Black (entire topology represented as single node) and Gray (not 1:1 topology, but something between white and black).

See <https://www.ietf.org/proceedings/97/slides/slides-97-teas-draft-lee-teas-actn-abstraction-01.pptx> for full description for Abstraction types/colors.

**Slide 4: Control Hierarchy**

Q. Do we want to provide the capability to expose topology to the customer? This is currently out of scope for the NBI DT currently, but worth keeping in mind. It depends on what the CMI wants to see from the topology view. We can document requirements and feed them into other work efforts.

Agreed that we should keep scope as narrow as reasonably possible initially, but we can document the CMI discussion and requirements for future work, or another (TEAS) effort.

We can reconsider the single domain use case focusing on the MPI between an MDSC, supporting IP+Optical, and a Transport PNC.

**Slide 6: Other OTN Client Services**

Q. Is this example single-layer switching or multi-layer switching? Single layer, as there is no multi-plexing, and switching.

**Slide 7: Other OTN Client Services**

Q. Where are the services terminated? Router interfaces.

Action: Update the slides to describe how the traffic would flow from C-R1 to C-R3:

C-R1 (PKT -> STM-64), S3 (STM-64 -> ODU2), S6 (ODU2), S9 (ODU2 -> STM-64), C-R3 (STM-64 -> PKT)

Note that C-R1 (PKT -> STM-64) and C-R3 (STM-64 -> PKT) adaptations are not are not controlled by the transport PNC (and therefore outside the scope of transport MPI)

**Slide 10: Multi-function Link**

Q. What is the payload? This is dependent on the service request.

Q. Where is the external layer terminated, the customer edge interface to extract the payloads? These adaptation points need to be added to the use case examples.

Q. What is the relevance of the Link colors? On the customer domain, the colors represent STM-64, or 10Gb Ethernet

Action: Need to describe how the traffic is split on the “Multi-function Access Link” example.

**In Summary**

Focus on one use case: “Single domain with single layer”. This will be use case 1. Then move onto “Single Domain with Multi-layer” (which will be use case 2). See next steps for documentation required.

**Next Steps**

1. Update the use case examples for clarify (Italo and Dan)

2. We need to draft descriptions! (All)

* Describe the network (physical topology and control architecture)
* Describe the topology abstraction at the MPI (CMI to be analysed as a future requirement)
* Describe the different services

3. Draft (Italo and Dan) initial I-D and table of contents. I-D Sections will be numbered with scope descriptions and DT members can volunteer for sections, and/or provide contributions (All)

4. Integrate into initial I-D as first output from NBI DT.