


# AAI-CCVPN-Extension-SOTN Proposals for Frankfurt Release

## References

- [AAI-CCVPN Schema Proposal for Casablanca Release](#)
-  [AAI-2593](#) - Support CCVPN use case SOTN NNI Proposal in AAI CLOSED
- CCVPN usecase JIRA filter: <https://jira.onap.org/issues/?filter=11218>
- [CCVPN Use Case in Frankfurt Release](#)

## Attention to

- PTL AAI [James Forsyth](#)
- AAI Modeling [Chandra Cinthala](#)
- CCVPN Use case [LIN MENG Gaurav Agrawal](#)
- Modeling team [Jacqueline Beaulac](#) [Xu Yang](#)
- Use case Realization [Benjamin Cheung](#)

## Schema Proposal

1. For "**network-resource**", add string "**network-type**" attribute.
  - a. Has enumerated values e.g. ETH topology or OTN topology.
2. For "**pnf**", add boolean "**is-abstract**" attribute.
  - a. Has "false" value by default.
  - b. Set to "true" value to represent abstract node, i.e. group of PNFs abstracted and presented as a single node by domain controller.
3. For "**logical-link**", new enumerated values for "**link-type**" attribute, e.g. intra optical domain, inter optical domain, or inter operator domain.
4. For "**p-interface**", add integer "**inter-domain-plug-id**" attributes.
  - a. Has discovered values based on IETF specifications, for correlation between related objects in ETH topology and OTN topology.
5. For "**p-interface**", new enumerated values for "**interface-type**" attribute, e.g. "Tunnel Termination Point".
6. Add new resource "**uni**".
  - a. Has termination point and cvlan attributes.
  - b. Add **EdgeRule** to represent uni to p-interface relationship.
7. Add new resource "**label-restriction**".
  - a. Has discovered values for label restriction attributes e.g. priority, range type, label start, label end.
  - b. Add **EdgeRule** to represent te-link-attributes to label-restriction relationship.
8. Add new resource "**te-link-attributes**".
  - a. Has discovered values for te link attributes, e.g. isAbstract, link protection type, access type.
  - b. Add **EdgeRule** to represent logical link to te-link-attributes relationship.
9. For "**pnf**", add new attribute "**supporting-node**" attribute.
  - a. Has discovered value based on ETH topology and OTN topology
  - b. Add **EdgeRule** to represent pnf to pnf relationship described by "supporting-node" attribute.
10. Add new resource "**tunnel-termination-point**".
  - a. Has discovered values for TTP attributes, e.g. TTP-id, admin-status, oper-status, protection-type, inter-layer-lock-id.
  - b. Add **EdgeRule** to represent tunnel-termination-point to p-interface relationship.

## Code Proposal

1. tbc

## Discussion of Impacts

1. pnf is also involved in other use cases. What is the impact of introducing the "abstract node" concept?
2. link-type values for logical-link need to be modeled. What is the impact of introducing new values?
3. interface-type values for p-interface need to be modeled. What is the impact of introducing new values?

## Interested Parties