

# A Network YANG Model for Service Attachment Point (SAP)

draft-ietf-opsawg-sap  
IETF#113, March 2022

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# SAP in IETF#112

```
module: ietf-sap-ntw
  augment /nw:networks/nw:network/nw:network-types:
    +--rw sap-network!
      +--rw sap-type* identityref

  augment /nw:networks/nw:network/nw:node:
    +--rw service-attachment-point* [attachment-id]
      +--rw attachment-id          nt:tp-id
      +--rw type?                  identityref
      +--rw admin-status?          boolean
      +--rw oper-status?           boolean
      +--rw encapsulation-type?   identityref
      +--rw sap-type*              identityref
      +--rw service-description?  string
```

# Issues with that Design

- 1) Multiples services can be supported. However, we can't display SAPs per service
- 2) There is no explicit link to bind SAPs to the underlying topology
- 3) It is not trivial how to map a SAP to a service
- 4) There is no information whether a SAP is a UNI or NNI
- 5) Difficulty to map a SAP to service request
- 6) A SAP may be active but ..
  - The service over that SAP may not
  - Not all services bound to that SAP have the same status
- 7) Lack of examples

# SAPs in IETF#113

```
module: ietf-sap-ntw
  augment /nw:networks/nw:network/nw:network-types:
    +--rw sap-network!
      +--rw service-type* identityref
  augment /nw:networks/nw:network/nw:node:
    +--rw service* [service-type]
      +--rw service-type identityref
      +--rw sap* [sap-id] ← 1
        +--rw sap-id string
        +--rw description? string
        +--rw parent-termination-point? nt:tp-id ← 2
        +--rw attachment-interface? string ← 3
        +--rw interface-type? identityref
        +--rw encapsulation-type? identityref
        +--rw role? identityref ← 4
        +--rw peer-sap-id? string ← 5
        +--ro sap-status
          | +--ro status? identityref
          | +--ro last-change? yang:date-and-time ← 6
        +--ro service-status
          +--ro status? identityref
          +--ro last-change? yang:date-and-time
```

- 7 The draft includes many examples to illustrate the use of the model, including discussion related to how to map SAPs to service models.

# Next Steps

- No issue is reported by the Yangdoctors review
  - Only some nits (already fixed)
- Ready for WGLC