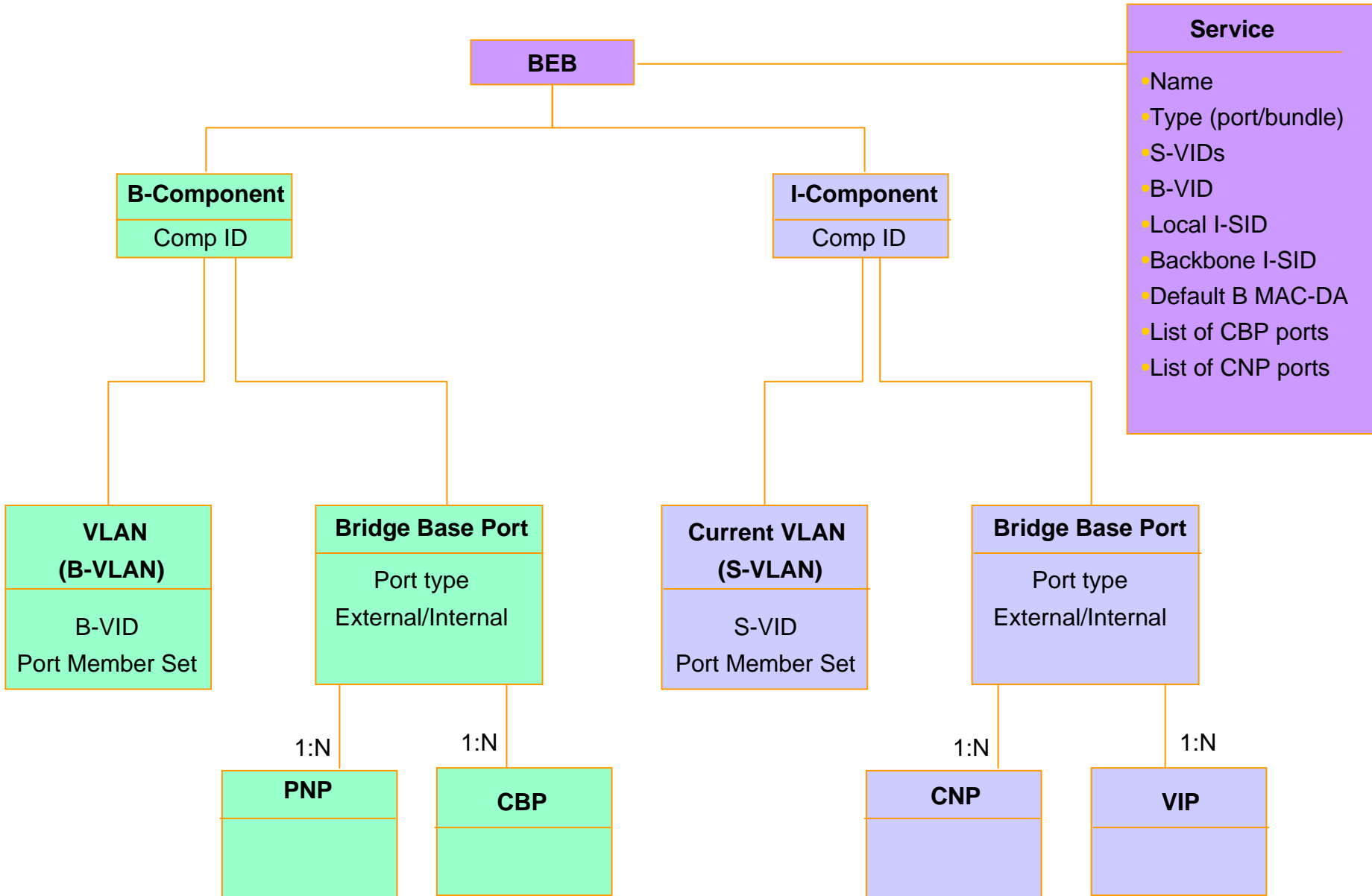


802.1ap Service Creation in PBBN

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Service Data Model



Service configuration steps

Operator configuration

Assumptions:

- B-component is already configured with at least one CBP and several PNPs
- I-components are already configured each with at least one PIP and several CNPs

The operator configures the following data:

- Service name
- Local I-SID
- Backbone I-SID (optional)
- Default B-DA (optional)
- Type: Port, S-tagged-one-to-one, S-tagged-Bundled, I-tagged
- B-VID (optional)
- List of CBP ports
- List of I-components. Per I-component
 - PIP number
 - Service interface S-VIDs (for S-tagged service)
 - For each S-VID (S-VID range) List of CNP ports

Service configuration steps

Agent actions

- Create an entry in the service instance table for all CBPs on which the service is configured with the following values:
 - B-VID
 - Default B-DA
 - Local and Backbone I-SIDs
- Create an entry in the VIP tables on all I-components on which the service is configured with the following values:
 - I-SID
 - Note: an entry in the bridge base table will be created as a consequence of creating an entry in the VIP table

Service configuration steps

Agent actions (cont'd)

- Create an entry in the current VLAN table of the I-components for the S-VIDs and add the newly created VIP and all the defined CNPs to the member set of the VID
 - `ieee8021QBridgeVlanCurrentEgressPorts` in `ieee8021QBridgeVlanCurrentEntry`

MIBS

- `ieee8021PbbServiceTable` –
 - add row status to enable creation and deletion of services initiated to create and wait, and modified to create and go once all other service objects are created
 - Add default B-VID and default B-MAC
 - List of CBPs
- `ieee8021PbbServiceInstanceTable` → `ieee8021PbbCBPTable`
 - Should be read only – display the service instance table per CBP
- `ieee8021PbbServiceTemplateVIPTable` → `ieee8021PbbServiceVipTable` (name change)
- `ieee8021PbbServiceTemplateCNPEEntry` → `ieee8021PbbServiceInterfaceTable` (name change)
- `ieee8021PbbServiceTemplateVIPIComponentTable` → What is the usage of this table? Seems the same as `ieee8021PbbServiceTemplateCNPEEntry`

Thank You

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