BPI Device Modeling Sprint 2 LLD

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## Reviewers

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# Overview

This Design Specification documents the high-level design that supports the documented features and user stories in the correlating RD.140 Requirements Document, and is focused on modeling the solution, including data model, inputs, outputs, interactions, and life cycle management. This specification provides a comprehensive high-level design to support lower-level design activities, development, testing and documentation of the solution. This document may be updated to include pertinent revisions through the conclusion of the Construction Phase.

## Assumptions and Exclusions

The assumptions and exclusions for this solution are identified in the following table.

|  |  |
| --- | --- |
| **No.** | **Assumptions and Exclusions** |
| 1 | ASR 9902 Devie modelled with slots and device ports |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Port Archetypes

|  |  |
| --- | --- |
| **Port Name** | **Archetype ID** |
| OPT | 10070082101 |
| Trunk | 10070082153 |
| 10 Gigabit Ethernet | 10070082001 |
| 25GE | 94645684576433707 |
| 100 GE | 10070082005 |
| Gigabit Ethernet | 10070082071 |
| RJ-45 | 10070082117 |
| 40 Gigabit Ethernet | 10070082014 |
| RAU | 10070082113 |
| DS1 | 10070082043 |

# Device Modeling

## Device Model Asentria- SiteBoss 360

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic.’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Asentria | IPRAN Family | Asentria SiteBoss 360-4 | Asentria SiteBoss 360-4 | Asentria SiteBoss 360-4 | Asentria SiteBoss 360-4 | 1 | 15.5 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Asentria SiteBoss 360-4 | IPRAN Family | Asentria SiteBoss 360-4 Shelf Position | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Asentria SiteBoss 360-4 Shelf Position | Asentria SiteBoss 360-4 Shelf | Shelf-1 | Asentria SiteBoss 360-4 Shelf | Asentria SiteBoss 360-4 Shelf | 1 | 15.5 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Asentria SiteBoss 360-4 Shelf | SiteBoss 360-4 Slot | Slot 1 | 0 |
| SiteBoss 360-4 Slot | Slot 2 | 1 |
| SiteBoss 360-4 Slot | Slot 3 | 2 |
| SiteBoss 360-4 Slot | Slot 4 | 3 |

### Card Types

Configure the following Card Types as per the below details.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| E1-SFP Based Ethernet Socket Expansion Card | E1-SFP Based Ethernet Socket Expansion Card | E1-SFP Based Ethernet Socket Expansion Card | E1-SFPBasedEthernetSocketExpansionCard | 1 | 1 | 1 | 1 | 0 |
| E2POE-Power-Over-Ethernet Expansion Card | E2POE-Power-Over-Ethernet Expansion Card | E2POE-Power-Over-Ethernet Expansion Card | E2POE-Power-Over-EthernetExpansionCard | 1 | 1 | 1 | 0 | 2 |
| E4E-4 Ethernet Ports Expansion Card | E4E-4 Ethernet Ports Expansion Card | E4E-4 Ethernet Ports Expansion Card | E4E-4EthernetPortsExpansionCard | 1 | 1 | 1 | 0 | 4 |
| E4S-4 RS-232 Serial IO Expansion Card | E4S-4 RS-232 Serial IO Expansion Card | E4S-4 RS-232 Serial IO Expansion Card | E4S-4RS-232SerialIOExpansionCard | 1 | 1 | 1 | 0 | 4 |
| E8C-8 Contact Closure Expansion Card | E8C-8 Contact Closure Expansion Card | E8C-8 Contact Closure Expansion Card | E8C-8ContactClosureExpansionCard | 1 | 1 | 1 | 0 | 8 |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| SiteBoss 360-4 Slot 1-4 | E1-SFP Based Ethernet Socket Expansion Card  E2POE-Power-Over-Ethernet Expansion Card  E4E-4 Ethernet Ports Expansion Card  E4S-4 RS-232 Serial IO Expansion Card  E8C-8 Contact Closure Expansion Card |  |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| E1-SFP Based Ethernet Socket Expansion Card | IPRAN family | SFP | ge 0/1 | 0 |

### Pluggable Types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** | **Physical Ports** |
| 1G SFP | SFP ge 0/1 | SFP ge 0/1 | SFP ge 0/1 | 1 | Asentria | 1 |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP | 1G SFP |  |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| E2POE-Power-Over-Ethernet Expansion Card | POE | POE1 | 1 | 1 | POE | No |
| POE | POE2 | 2 | 2 | POE | No |
| E4E-4 Ethernet Ports Expansion Card | Ethernet | ETH-E1 | 1 | 1 | Ethernet | No |
| Ethernet | ETH-E2 | 2 | 2 | Ethernet | No |
| Ethernet | ETH-E3 | 3 | 3 | Ethernet | No |
| Ethernet | ETH-E4 | 4 | 4 | Ethernet | No |
| E4S-4 RS-232 Serial IO Expansion Card | RS-232 | I/O 232-4 | 1 | 1 | RS232 | No |
| RS-232 | I/O 232-5 | 2 | 2 | RS232 | No |
| RS-232 | I/O 232-6 | 3 | 3 | RS232 | No |
| RS-232 | I/O 232-7 | 4 | 4 | RS232 | No |
| E8C-8 Contact Closure Expansion Card | Contact Closure | Contact Closure 1 | 1 | 1 | Contact Closure | No |
|  | Contact Closure 2 | 2 | 2 | Contact Closure | No |
|  | Contact Closure 3 | 3 | 3 | Contact Closure | No |
|  | Contact Closure 4 | 4 | 4 | Contact Closure | No |
|  | Contact Closure 5 | 5 | 5 | Contact Closure | No |
|  | Contact Closure 6 | 6 | 6 | Contact Closure | No |
|  | Contact Closure 7 | 7 | 7 | Contact Closure | No |
|  | Contact Closure 8 | 8 | 8 | Contact Closure | No |

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| Asentria SiteBoss 360-4 | RJ-45 | ETH | 1 | 1 | RJ-45 | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| SFP | Gigabit Ethernet | ge 0/1 | 1 | 1 | Gigabit Ethernet | No |

## Device Model Fastback Networks- IBR MW A 1300

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Fastback Network | MICROWAVE Family | Fastback Network IBR 1300 | Fastback Network IBR 1300 | Fastback Network IBR 1300 | FastbackNetworkIBR1300 | 1 | 7.874 | Generic |

### Shelf Position Types

NA

### Shelf Types

NA

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for Card

NA

### Physical Termination Position for Device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Fastback Network IBR1300 | IPRAN family | SFP | ge 0/1 | 0 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| 1G SFP | ge 0/1 | ge 0/1 | ge 0/1 | 1 | Asentria |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP | 1G SFP |  |

### Port Compatibility

#### Card Ports

NA

#### Device Ports.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| Fastback Network IBR 1300 | RJ-45 | ge 1/1 | 1 | 1 | RJ-45 | No |
| RJ-45 | ge 1/2 | 2 | 2 | RJ-45 | No |
| RAU | RAU | 3 | 3 | RAU | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| SFP | Gigabit Ethernet | ge 0/1 | 1 | 1 | Gigabit Ethernet | No |

## Device Model Fastback Networks- IBR MW A 1301

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Fastback Network | MICROWAVE Family | Fastback Network IBR 1301 | Fastback Network IBR 1301 | Fastback Network IBR 1301 | FastbackNetworkIBR1301 | 1 | 7.874 | Generic |

### Shelf Position Types

NA

### Shelf Types

NA

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for Card

NA

### Physical Termination Position for Device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Fastback Network IBR1301 | IPRAN family | SFP | ge 0/1 | 0 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| 1G SFP | ge 0/1 | ge 0/1 | ge 0/1 | 1 | Asentria |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP | 1G SFP |  |

### Port Compatibility

#### Card Ports

NA

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| Fastback Network IBR 1301 | RJ-45 | ge 1/1 | 1 | 1 | RJ-45 | No |
| RJ-45 | ge 1/2 | 2 | 2 | RJ-45 | No |
| AC | AC Pwr | 3 | 3 | AC | No |
| RAU | RAU | 4 | 4 | RAU | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| SFP | Gigabit Ethernet | ge 0/1 | 1 | 1 | Gigabit Ethernet | No |

## Device Model Huber and Suhner- CUBE 3RU 19-inch LGX Modular Shell for 16 SX LGX module slots

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Rogers project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Huber and Suhner | TRANSPORTFamily | H&S CUBE 3RU 16 SX LGX | H&S CUBE 3RU 16 SX LGX | H&S CUBE 3RU 19-inch LGX Modular Shell for 16 SX LGX module slots | C-3388-Rev.A | 3 | 19 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| H&S CUBE 3RU 16 SX LGX | TRANSPORTFamily | H&S CUBE 3RU Shelf-Position | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| H&S CUBE 3RU Shelf-Position | H&S CUBE 3RU Shelf | H&S CUBE 3RU Shelf | H&S CUBE 3RU 19-inch LGX Modular Shell for 16 SX LGX module slots-Shelf | H&S CUBE 3RU 19-inch LGX Modular Shell for 16 SX LGX module slots-Shelf | 1 | 19 |

### Shelf Slots

Configure the following Slots types under the parent Shelf type as per the below details

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype** | **Slot Archetype Name** | **Slot Archetype Instance Name** | **Position Sequence** |
| H&S CUBE 3RU Shelf | H&S CUBE 3RU Slot position | Slot 0 | 0 |
| Slot 1 | 1 |
| Slot 2 | 2 |
| Slot 3 | 3 |
| Slot 4 | 4 |
| Slot 5 | 5 |
| Slot 6 | 6 |
| Slot 7 | 7 |
| Slot 8 | 8 |
| Slot 9 | 9 |
| Slot 10 | 10 |
| Slot 11 | 11 |
| Slot 12 | 12 |
| Slot 13 | 13 |
| Slot 14 | 14 |
| Slot 15 | 15 |

### Card Types

Configure the following Card type as per below details

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Card Archetype Instance Name** | **Model Number List** | **Description** | **Positions Used** | **Width (in Inches)** | **Height(in Inches)** | **Ports** |
| H&S CUBE DWDM EAST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | H&S CUBE DWDM EAST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | C-3327-E-BB-Rev.A | H&S CUBE DWDM EAST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | 1 | 19 | 5.2 | 12 |
| H&S CUBE DWDM WEST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | H&S CUBE DWDM WEST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | C-3327-W-BB-Rev.A | H&S CUBE DWDM WEST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | 1 | 19 | 5.2 | 12 |
| H&S CUBE WWDM-HI-ISO 1260-1360nm/1460-1620nm SX LGX module with LC/PC connectors | H&S CUBE WWDM-HI-ISO 1260-1360nm/1460-1620nm SX LGX module with LC/PC connectors | C-3383-55-Rev.A | H&S CUBE WWDM-HI-ISO 1260-1360nm/1460-1620nm SX LGX module with LC/PC connectors | 1 | 19 | 5.2 | 3 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| **Slot Archetype** | **Card Archetype Name** | **Note** |
| H&S CUBE 3RU Slot position | H&S CUBE DWDM EAST MUX-8+1511+1571 SX LGX Module with LC/APC connectors |  |
| H&S CUBE DWDM WEST MUX-8+1511+1571 SX LGX Module with LC/APC connectors |  |
| H&S CUBE WWDM-HI-ISO 1260-1360nm/1460-1620nm SX LGX module with LC/PC connectors |  |

### Physical Termination Position for Card

NA

### Pluggable Types

NA

### Pluggable Compatible for PTP

NA

### Port Compatibility

NA

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| H&S CUBE DWDM EAST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | Trunk | Line | 1 | 1 | Line | No |
| OPT | NC | 2 | 2 | NC | NO |
| OPT | 1570 | 3 | 3 | 1570 | NO |
| OPT | 1511 | 4 | 4 | 1511 | NO |
| OPT | C38 | 5 | 5 | C38 | NO |
| OPT | C35 | 6 | 6 | C35 | NO |
| OPT | C44 | 7 | 7 | C44 | NO |
| OPT | C41 | 8 | 8 | C41 | NO |
| OPT | C50 | 9 | 9 | C50 | NO |
| OPT | C47 | 10 | 10 | C47 | NO |
| OPT | C56 | 11 | 11 | C56 | NO |
| OPT | C53 | 12 | 12 | C53 | NO |
| H&S CUBE DWDM WEST MUX-8+1511+1571 SX LGX Module with LC/APC connectors | Trunk | Line | 1 | 1 | Line | NO |
| OPT | NC | 2 | 2 | NC | NO |
| OPT | 1511 | 3 | 3 | 1511 | NO |
| OPT | 1570 | 4 | 4 | 1570 | NO |
| OPT | C35 | 5 | 5 | C35 | NO |
| OPT | C38 | 6 | 6 | C38 | NO |
| OPT | C41 | 7 | 7 | C41 | NO |
| OPT | C44 | 8 | 8 | C44 | NO |
| OPT | C47 | 9 | 9 | C47 | NO |
| OPT | C50 | 10 | 10 | C50 | NO |
| OPT | C53 | 11 | 11 | C53 | NO |
| OPT | C56 | 12 | 12 | C56 | NO |
| H&S CUBE WWDM-HI-ISO 1260-1360nm/1460-1620nm SX LGX module with LC/PC connectors | OPT | TX/RX-1 | 1 | 1 | TX/RX-1 | NO |
| OPT | TX/RX-2 | 2 | 2 | TX/RX-2 | NO |
| Trunk | Common-1 | 3 | 3 | Common-1 | NO |

#### Device Ports

NA

#### Pluggable Ports

NA

## Device Model Huber and Suhner- CUBE 1RU 19-inch LGX Modular Shell for 3 LGX module slots

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Rogers project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Manufacturer | Device Type  Family | Archetype Name | Archetype Instance Name | Description | Part Number | Positions Used | Width  (In Inches) | Category |
| Huber and Suhner | TRANSPORTFamily | H&S CUBE 1RU 3 LGX | H&S CUBE 1RU 3 LGX | H &S CUBE 1RU 19-inch LGX Modular Shell for 3 LGX module slots | C-3265-Rev.A | 1 | 19 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device Archetype | Device Type  Family | ShelfPosition Archetype Name | ShelfPosition Archetype Instance Name | Position Sequence |
| H&S CUBE 1RU 3 LGX | TRANSPORTFamily | H&S CUBE 1RU Shelf Position | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ShelfPosition Archetype | Shelf Archetype Name | Shelf Archetype Instance Name | Part Number | Description | Positions Used | Width (in Inches) |
| H&S CUBE 1RU Shelf Position | H&S CUBE 1RU Shelf | H&S CUBE 1RU Shelf | H&S CUBE 1RU 19-inch LGX Modular Shell for 3 LGX module slots -Shelf | H&S CUBE 1RU 19-inch LGX Modular Shell for 3 LGX module slots -Shelf | 1 | 19 |

### Shelf Slots

Configure the following Slots types under the parent Shelf type as per the below details

|  |  |  |  |
| --- | --- | --- | --- |
| Shelf Archetype | Slot Archetype Name | Slot Archetype Instance Name | Position Sequence |
| H&S CUBE 1RU Shelf | H&S CUBE 1RU Slot position | Slot 0 | 0 |
| Slot 1 | 1 |
| Slot 2 | 2 |

### Card Types

Configure the following Card type as per below details

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Card Archetype Name | Card Archetype Instance Name | **Model Number List** | Description | Positions Used | Width (in Inches) | Height(in Inches) | Ports |
| H&S DWDM-extended-C-Band -splitter +1471 LGX Module, LC/APC connectors on all ports | H&S DWDM-extended-C-Band -splitter +1471 LGX Module, LC/APC connectors on all ports | C-3329-BB-Rev.A | H&S DWDM-extended-C-Band -splitter +1471 LGX Module, LC/APC connectors on all ports | 1 | 19 | 5.2 | 4 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| **Slot Archetype** | **Card Archetype Name** | **Note** |
| H&S CUBE 1RU Slot position | **H&S DWDM-extended-C-Band -splitter +1471 LGX Module, LC/APC connectors on all ports** |  |

### Physical Termination Position for Card

NA

### Pluggable Types

NA

### Pluggable Compatible for PTP

### Port Compatibility

NA

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| H&S DWDM-extended-C-Band -splitter +1471 LGX Module, LC/APC connectors on all ports | Trunk | Line | 1 | 1 | Line | No |
| OPT | NC | 2 | 2 | NC | NO |
| OPT | DWDM | 3 | 3 | DWDM | NO |
| OPT | 1471 | 4 | 4 | 1471 | NO |

#### Device Ports

NA

#### Pluggable Ports

## Device Model Cisco- NCS-5504-SYS

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPWAN Family | Cisco-NCS-5504-SYS | Cisco-NCS-5504-SYS | Cisco-NCS-5504-SYS | Cisco-NCS-5504-SYS | 1 | 17.5 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco-NCS-5504-SYS | IPWAN Family | Cisco-NCS-5504-SYS Shelf Position1 | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Cisco-NCS-5504-SYS - Shelf Position | Cisco-NCS-5504-SYS shelf | Shelf-1 | Cisco-NCS-5504-SYS | Cisco-NCS-5504-SYS | 1 | 17.4 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Cisco-NCS-5504-SYS Shelf | NCS-5504 SlotPosition | 0/0 | 0 |
| 0/1 | 1 |
| 0/2 | 2 |
| 0/3 | 3 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| NC57-36H-SE | NC57-36H-SE | NC57-36H-SE | NC57-36H-SE | 1 | 17.4 | 1.72 | 36 | 0 |
| NC57-24DD | NC57-24DD | NC57-24DD | NC57-24DD | 1 | 17.4 | 1.72 | 28 | 0 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| NCS-5504 SlotPosition | 1. NC57-36H-SE 2. NC57-24DD |  |

### Physical Termination Position for Shelf

NA

### Physical Termination Position for Card

|  |  |  |  |
| --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype | PTP Archetype Instance | Position Sequence |
| NC57-36H-SE | QSFP+/QSFP28 | 1/1 | 0 |
|  | QSFP+/QSFP28 | 1/2 | 1 |
|  | QSFP+/QSFP28 | 1/3 | 2 |
|  | QSFP+/QSFP28 | 1/4 | 3 |
|  | QSFP+/QSFP28 | 1/5 | 4 |
|  | QSFP+/QSFP28 | 1/6 | 5 |
|  | QSFP+/QSFP28 | 1/7 | 6 |
|  | QSFP+/QSFP28 | 1/8 | 7 |
|  | QSFP+/QSFP28 | 1/9 | 8 |
|  | QSFP+/QSFP28 | 1/10 | 9 |
|  | QSFP+/QSFP28 | 1/11 | 10 |
|  | QSFP+/QSFP28 | 1/12 | 11 |
|  | QSFP+/QSFP28 | 1/13 | 12 |
|  | QSFP28/QSFP+ | 1/14 | 13 |
|  | QSFP28/QSFP+ | 1/15 | 14 |
|  | QSFP28/QSFP+ | 1/16 | 15 |
|  | QSFP28/QSFP+ | 1/17 | 16 |
|  | QSFP+/QSFP28 | 1/18 | 17 |
|  | QSFP28/QSFP+ | 1/19 | 18 |
|  | QSFP28/QSFP+ | 1/20 | 19 |
|  | QSFP28/QSFP+ | 1/21 | 20 |
|  | QSFP28/QSFP+ | 1/22 | 21 |
|  | QSFP+/QSFP28 | 1/23 | 22 |
|  | QSFP28/QSFP+ | 1/24 | 23 |
|  | QSFP-DD | 1/25 | 24 |
|  | QSFP28/QSFP+ | 1/26 | 25 |
|  | QSFP-DD | 1/27 | 26 |
|  | QSFP+/QSFP28 | 1/28 | 27 |
|  | QSFP-DD | 1/29 | 28 |
|  | QSFP28/QSFP+ | 1/30 | 29 |
|  | QSFP-DD | 1/31 | 30 |
|  | QSFP28/QSFP+ | 1/32 | 31 |
|  | QSFP-DD | 1/33 | 32 |
|  | QSFP28/QSFP+ | 1/34 | 33 |
|  | QSFP-DD | 1/35 | 34 |
|  | QSFP28/QSFP+ | 1/36 | 35 |
| NC57-24DD | QSFP+ | 1/1 | 0 |
|  | QSFP+ | 1/2 | 1 |
|  | QSFP+ | 1/3 | 2 |
|  | QSFP+ | 1/4 | 3 |
|  | QSFP+ | 1/5 | 4 |
|  | QSFP+ | 1/6 | 5 |
|  | QSFP+ | 1/7 | 6 |
|  | QSFP+ | 1/8 | 7 |
|  | QSFP+ | 1/9 | 8 |
|  | QSFP+ | 1/10 | 9 |
|  | QSFP+ | 1/11 | 10 |
|  | QSFP+ | 1/12 | 11 |
|  | QSFP+ | 1/13 | 12 |
|  | QSFP+ | 1/14 | 13 |
|  | QSFP+ | 1/15 | 14 |
| QSFP+ | 1/16 | 15 |
| QSFP+ | 1/17 | 16 |
| QSFP+ | 1/18 | 17 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | QSFP+ | 1/19 | 18 |
| QSFP+ | 1/20 | 19 |
| QSFP+ | 1/21 | 20 |
| QSFP+ | 1/22 | 21 |
| QSFP+ | 1/23 | 22 |
| QSFP+ | 1/24 | 23 |
| QSFP+ | 1/25 | 24 |
| QSFP28 | 2/1 | 25 |
| QSFP28 | 2/2 | 26 |
| QSFP-DD | 3/1 | 27 |
| QSFP-DD | 3/2 | 28 |

### Pluggable Types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** | **Physical Ports** |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP28:Cisco-100GBASE-FR | QSFP-100G-FR-S | 1 | Cisco | 1 |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP-100G-LR4-S | QSFP-100G-LR4-S | 1 | Cisco | 1 |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP-4X10G-LR-S | QSFP-4X10G-LR-S | 1 | Cisco | 1 |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | QSP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | QSFP-100G-SM-SR | QSFP-100G-SM-SR | 1 | Cisco | 1 |
| QSFP-DD 100G ZR PLUGGABLE | QSFP-DD 100G ZR PLUGGABLE | QSFP-DD 100G ZR PLUGGABLE | QSFP-DD 100G ZR PLUGGABLE | 1 | Cisco | 1 |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** | **Pluggable Archetype** | **Notes** |
| 1.QFP+/QSFP28  2.QSFP-DD  3.QSFP+  4.QSFP28 | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) |  |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) |  |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) |  |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) |  |
| QSFP-DD 100G ZR Pluggable |  |

### Pluggable Compatible for Cards

|  |  |  |
| --- | --- | --- |
| **Card Archetype** | **Pluggable Archetype** | **Notes** |
| 1. NC57-36H-SE  2.NC57-24DD | QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) |  |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) |  |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) |  |

### Port Compatibility

NA

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | | | **Port Type Name** | | **Logical Interface Required** | | | | |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | 100 GE | 100 GE | 1 | 1 | | | 100GE | | No | | | | |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | 10 Gigabit Ethernet | 10GE | 1 | 1 | | | 10 Gigabit Ethernet | | No | | | | |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | 100 GE | 100GE | 1 | 1 | | | 100 GE | | No | | | | |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | 100 GE | 100 GE | 1 | 1 | | | 100 GE | | No | | | | |
| QSFP-DD 100G ZR Pluggable | 100 GE | 100 GE | 1 | 1 | | | 100 GE | | No | | | | |
|  | | | | |  |  | |  | |  |  |  |  |

## Device Model Cisco- NCS-5501-SE

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPWAN Family | Cisco-NCS-5501-SE | Cisco-NCS-5501-SE | Cisco-NCS-5501-SE | Cisco-NCS-5501-SE | 1 | 19 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco-NCS-5501-SE | IPWAN Family | Cisco-NCS-5501-SE Shelf Position1 | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Cisco-NCS-5501-SE - Shelf Position | Cisco-NCS-5501-SE shelf | Shelf -1 | Cisco-NCS-5501-SE | Cisco-NCS-5501-SE | 1 | 19 |

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for Shelf

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Shelf archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Cisco-NCS-5501-SE shelf | IPWAN | 1GE/10GE-PTP | 0 to 39 | 0 to 39 |
|  | IPWAN | 100GE-PTP | 40 to 42 | 40 to 42 |

### Physical Termination Position for Card

NA

### Pluggable Types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** | **Physical Ports** |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP28:Cisco-100GBASE-FR | QSFP-100G-FR-S | 1 | Cisco | 1 |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP-100G-LR4-S | QSFP-100G-LR4-S | 1 | Cisco | 1 |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP-4X10G-LR-S | QSFP-4X10G-LR-S | 1 | Cisco | 1 |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | DWDM-SFP10G-C-S | DWDM-SFP10G-C-S | 1 | Cisco | 1 |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP-10G-LR-S | SFP-10G-LR-S | 1 | Cisco | 1 |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | QSP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | QSFP-100G-SM-SR | QSFP-100G-SM-SR | 1 | Cisco | 1 |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | DWDM-SFP10G-C | DWDM-SFP10G-C | 1 | Cisco | 1 |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** | **Pluggable Archetype** | **Notes** |
| 1GE/10GE-PTP  100 GE-PTP | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) |  |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) |  |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) |  |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) |  |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) |  |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) |  |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) |  |

### Pluggable Compatible for Cards

NA

### Port Compatibility

NA

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | 10 Gigabit Ethernet | 10GE | 1 | 1 | 10 Gigabit Ethernet | No |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | 10 Gigabit Ethernet | 10GE | 1 | 1 | 10 Gigabit Ethernet | No |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | 10 Gigabit Ethernet | 10GE | 1 | 1 | 10 Gigabit Ethernet | No |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | 10 Gigabit Ethernet | 10GE | 1 | 1 | 10 Gigabit Ethernet | No |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| Cisco NCS Generic QSFP28 pluggable | 100 GE | 100 GE | 1 | 1 | 100 GE | No |

## Device Model Cisco- NCS-55A2-MOD-SYS

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPWAN Family | Cisco NCS-55A2-MOD-SYS | Cisco NCS-55A2-MOD-SYS | Cisco NCS-55A2-MOD-SYS | CiscoNCS-55A2-MOD-SYS | 1 | 17.3 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco NCS-55A2-MOD-SYS | IPWAN Family | Cisco NCS-55A2-MOD-SYS Shelf Pos | Cisco NCS-55A2-MOD-SYS Shelf Pos | 0 |

### Shelf Types

Configure the following shelf types under the parent Shelf Position type as per the below details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Cisco NCS-55A2-MOD-SYS Shelf Pos | Cisco NCS-55A2-MOD-SYS Shelf | Shelf-1 | Cisco NCS-55A2-MOD-SYS Shelf | Cisco NCS-55A2-MOD-SYS Shelf | 1 | 17.3 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Cisco NCS-55A2-MOD-SYS Shelf | Cisco NCS-55A2-MOD-SYS Slot Position | MPA 0 | 0 |
| MPA 1 | 1 |

### Card Types

Configure the following Card Types as per the below details.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| NC55-MPA-2TH-S | NC55-MPA-2TH-S | NC55-MPA-2TH-S | NC55-MPA-2TH-S | 1 | 1 | 1 | 2 | 0 |
| NC55-MPA-4H-S | NC55-MPA-4H-S | NC55-MPA-4H-S | NC55-MPA-4H-S | 1 | 1 | 1 | 4 | 0 |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| Cisco NCS-55A2-MOD-SYS Slot Position | NC55-MPA-2TH-S  NC55-MPA-4H-S |  |

### Physical Termination Position for Shelf

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Shelf archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Cisco NCS-55A2-MOD-SYS Shelf | IPWAN  Family | SFP | 0-23 | 0 to 23 |
|  | SFP | 24-39 | 24 to 39 |
|  | QSFP+ | 40 | 40 |
|  | QSFP28 | 41 | 41 |

### Physical Termination Position for Card

|  |  |  |  |
| --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype | PTP Archetype Instance | Position Sequence |
| NC55-MPA-2TH-S | 1x100 CFP | CFP 0 | 0 |
| 1x100 CFP | CFP 1 | 1 |
| NC55-MPA-4H-S | QSFP28/QSFP+ | 1/1 | 0 |
| 1/2 | 1 |
| 1/3 | 2 |
| 1/4 | 3 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | DWDM-SFP10G-C-S | DWDM-SFP10G-C-S | 1 | Cisco |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | DWDM-SFP10G-C | DWDM-SFP10G-C | 1 | Cisco |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | QSFP-100G-FR-S | QSFP-100G-FR-S | 1 | Cisco |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | QSFP-100G-LR4-S | QSFP-100G-LR4-S | 1 | Cisco |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | QSFP28:Cisco-100GBASE-CWDM4 | QSFP-100G-SM-SR | QSFP-100G-SM-SR | 1 | Cisco |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | QSFP-4X10G-LR-S | QSFP-4X10G-LR-S | 1 | Cisco |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP-10G-LR-S | SFP-10G-LR-S | 1 | Cisco |

### Pluggable Compatible for Cards

|  |  |  |
| --- | --- | --- |
| **Card Archetype** | **Pluggable Archetype** | **Notes** |
| 1. NC55-MPA-2TH-S  2. NC55-MPA-4H-S | QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) |
|  | SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) |  |
|  | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) |  |
|  | QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) |  |
|  | SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) |  |
|  | SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) |  |
|  | QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) |  |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP  QSFP+  QSFP28  1x100 CFP | QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) |  |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) |  |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) |  |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) |  |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) |  |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) |  |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) |  |
| CFP2-WDM-DETS-1HL |  |

### Port Compatibility

NA

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| SFP+:Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | 10 Gigabit Ethernet | | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| SFP+:Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | 10 Gigabit Ethernet | | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| QSFP28:Cisco-100GBASE-FR (QSFP-100G-FR-S) | 100 GE | | 100 GE | ` | 1 | 100 GE | No |
| QSFP28:Cisco-100GBASE-LR4 (QSFP-100G-LR4-S) | 100 GE | | 100 GE | 1 | 1 | 100 GE | No |
| QSFP28:Cisco-100GBASE-CWDM4 (QSFP-100G-SM-SR) | 100 GE | | 100 GE | 1 | 1 | 100 GE | No |
| QSFP+:Cisco-10GBASE-LR (QSFP-4X10G-LR-S) | 10 Gigabit Ethernet | | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| SFP+:Cisco-10GBASE-LR (SFP-10G-LR-S) | 10 Gigabit Ethernet | | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| CFP2-WDM-DETS-1HL | 100 GE | | 100 GE | 1 | 1 | 100 GE | No |

## Device Model Cisco- NCS-540

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPRAN-Device | Cisco NCS 540 | Cisco NCS 540 | NCS 540 24x1/10GE, 8x10/25GE, 2x100GE chassis | Cisco NCS 540 | 1 | 17.3 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco NCS 540 | IPRAN-Device | NCS 540 - ShelfPosition | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| NCS 540 - ShelfPosition | NCS 540 Shelf | Shelf-1 | NCS 540 Shelf | NCS 540 Shelf | 1 | 17.3 |

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for shelf

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Shelf archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| NCS 540 Shelf | IPRAN | 1/10G - PTP | 0-23 | 0 - 23 |
| NCS 540 Shelf | IPRAN | SFP/SFP+/SFP28 | 24-31 | 24-31 |
| NCS 540 Shelf | IPRAN | QSFP28/QSFP+ | 1/0 & 1/1 | 32 & 33 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pluggable Family | Pluggable Archetype Name | Pluggable Archetype Instance name | Description | Position used | vendor |
| IPRAN | SFP-10/25G-LR-S | SFP-10/25G-LR-S | 10/25G-BASE-LR SFP28 Module for SMF | 1 | Cisco |
| IPRAN | QSFP28: Cisco-100GBASE-LR4 | QSFP28: Cisco-100GBASE-LR4 | QSFP-100G-LR4-S | 1 | Cisco |
| IPRAN | QSFP-40/100-SRBD | QSFP-40/100-SRBD | 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF | 1 | Cisco |
| IPRAN | QSFP-100G-ER4L-S | QSFP-100G-ER4L-S | SFP-10G-LR-S | 1 | Cisco |
| IPRAN | QSFP-100G-FR-S | QSFP-100G-FR-S | QSFP-100G-FR-S | 1 | Cisco |
| IPRAN | QSFP-100G-ZR4-S | QSFP-100G-ZR4-S | QSFP-100G-ZR4-S | 1 | Cisco |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | DWDM-SFP10G-C-S | 1 | Cisco |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | DWDM-SFP10G-C | 1 | Cisco |
| IPRAN | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP-10G-LR-S | 1 | Cisco |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | Lambda Gain SFP+, Cisco Compatible,10G Ethernet, Single Mode, Dual Fibre, LC Connector, CWDM,1490 nm, 23 dB Optical Budget, 0°C to 70°C, with DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1470 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1510 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1530 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1550 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1570 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1590 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fibre, LC Con, CWDM, 1610 nm, 23dB OB, DDM | 1 | Fonex |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| PTP Archetype Names | PTP Archetype Instance names | Compatible SFP’s |
| 1/10G - PTP | 1 – 24 | SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S)  SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C)  SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S)  SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D)  SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D)  SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D)  SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D)  SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D)  SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D)  SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D)  SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) |
| SFP/SFP+/SFP28 | 25 - 32 | SFP-10/25G-LR-S  SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S)  SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C)  SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S)  SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D)  SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D)  SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D)  SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D)  SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D)  SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D)  SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D)  SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) |
| QSFP28/QSFP+ | 1/0 & 1/1 | QSFP-100G-ER4L-S  QSFP-100G-FR-S  QSFP-100G-ZR4-S  QSFP-40/100-SRBD  QSFP28: Cisco-100GBASE-LR4 |

### Port Compatibility

NA

#### Card Ports

NA

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype   Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
|  |
| Cisco NCS 540 | GNSS Antenna | GNSS Antenna | 1 | 1 | Antenna | No |  |
| 1pps | 1pps | 2 | 2 | Time protocol | No |  |
| 10MHz | 10MHz | 3 | 3 | Frequency | No |  |
| USB Memory | USB Memory | 4 | 4 | Memory | No |  |
| Ethernet Mgmt | Ethernet Mgmt | 5 | 5 | Ethernet port | No |  |
| Serial Console | Serial Console | 6 | 6 | Console port | No |  |
| ToD | ToD | 7 | 7 | ToD | No |  |
| Fan Tray | Fan Tray (1-4) | 8-11 | 8-11 | Fan Tray | No |  |
|  | PWR | PWR 1 & PWR 2 | 12-13 | 12-13 | AC/DC | No |  |

#### Pluggable Ports

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pluggable Family | Pluggable Archetype Name | Pluggable Archetype Instance name | Port Archetype Name | Port Archetype Instance name |
| IPRAN | SFP-10/25G-LR-S | SFP-10/25G-LR-S | 25 GE | TF0/0/0/24 - 31 |
| IPRAN | QSFP28: Cisco-100GBASE-LR4 | QSFP28: Cisco-100GBASE-LR4 | 100 GE | Hu0/0/1/0 – 1/1 |
| IPRAN | QSFP-40/100-SRBD | QSFP-40/100-SRBD | 100 GE | Hu0/0/1/0 – 1/1 |
| IPRAN | QSFP-100G-ER4L-S | QSFP-100G-ER4L-S | 100 GE | Hu0/0/1/0 – 1/1 |
| IPRAN | QSFP-100G-FR-S | QSFP-100G-FR-S | 100 GE | Hu0/0/1/0 – 1/1 |
| IPRAN | QSFP-100G-ZR4-S | QSFP-100G-ZR4-S | 100 GE | Hu0/0/1/0 – 1/1 |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | SFP+: Cisco-10GBASE-DWDM-Tuanable (DWDM-SFP10G-C-S) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | 10 Gigabit Ethernet | Gi(Te)0/0/0/0-23 |

## Device Model Cisco- NCS-560

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPRAN Family | Cisco NCS 560 | Cisco NCS 560 | NCS 560-4 chassis | NCS 560-4 | 1 | 17.4 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco NCS 560 | IPRAN Family | NCS 560 – ShelfPosition | Shelf Pos 1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| NCS 560 – ShelfPosition | NCS 560 Shelf | Shelf-1 | NCS 560 Shelf | NCS 560 Shelf | 1 | 17.4 |

### Shelf Slots

Configure the SlotPosition within the Shelf as per the following details. The archetypeinstance name of the slotposition refers to the desired name of the shelf slot therefore no separate naming is required for the shelf slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| NCS 560 Shelf | PSU | PSU 0 | 0 |
| NCS 560 Shelf | PSU | PSU 1 | 1 |
| NCS 560 Shelf | PSU | PSU 2 | 2 |
| NCS 560 Shelf | FT | FT 0 | 3 |
| NCS 560 Shelf | FT | FT 1 | 4 |
| NCS 560 Shelf | PFT | FT 2 | 5 |
| NCS 560 Shelf | RSP | RSP 0 | 6 |
| NCS 560 Shelf | RSP | RSP 1 | 7 |
| NCS 560 Shelf | IM | IM 0 | 8 |
| NCS 560 Shelf | IM | IM 1 | 9 |
| NCS 560 Shelf | IM | IM 2 | 10 |
| NCS 560 Shelf | IMA | IM 3 | 11 |
| NCS 560 Shelf | IM | IM 4 | 12 |
| NCS 560 Shelf | IMA8Z | IM 5 | 13 |

### Card Types

Configure the following Card Types as per the below details.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| A900-PWR1200-D | A900-PWR1200-D | ASR 900 1200W DC Power supply | A900-PWR1200-D | 1 | 1 | 1 | 0 | 0 |
| N560-4-FAN-H | N560-4-FAN-H | NCS 560 Series Router 4RU High Speed Fan Tray | N560-4-FAN-H | 1 | 1 | 1 | 0 | 0 |
| N560-4-PWR-FAN | N560-4-PWR-FAN | NCS 560 Series Router 4RU Power Fan Tray | N560-4-PWR-FAN | 1 | 1 | 1 | 0 | 0 |
| N560-4-RSP4E | N560-4-RSP4E | NCS 560 Series Router 4RU Route Switch Processor 4E, 800G | N560-4-RSP4E | 1 | 1 | 1 | 0 | 0 |
| N560-IMA-2C-DD | N560-IMA-2C-DD | N560-IMA-2C-DD | N560-IMA-2C-DD | 1 | 1 | 1 | 0 | 0 |
| A900-IMA8Z | A900-IMA8Z | ASR 900 8 x 10GE Interface module, flexible consumption SL | A900-IMA8Z | 1 | 1 | 1 | 8 | 0 |
| A900-IMA8CS1Z | A900-IMA8CS1Z | ASR 900 16x1GE C-SFP + 1x10GE SFP+ IM, Flexible Consumption | A900-IMA8CS1Z | 1 | 1 | 1 | 9 | 17 (One is reserved for testing) |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |
| --- | --- | --- |
| **Card Archetype** | **Slot position Archetype** | **Slot position Archetype Instance name** |
| A900-PWR1200-D | PSU | PSU 0, PSU1, PSU 2 |
| N560-4-FAN-H | FT | FT 0, FT1 |
| N560-4-PWR-FAN | PFT | FT 2 |
| N560-4-RSP4E | RSP | RSP 0, RSP 1 |
| N560-IMA-2C-DD | NA | **NA** |
| A900-IMA8Z | IMA8Z | IM 5 |
| A900-IMA8CS1Z | IMA | IM 3 |
| N/A | IM | IM 0, IM 1, IM 2, IM 4 |

### Physical Termination Position for card Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Card Archetype Name** | **PTP Archetype names** | **PTP Archetype Instance names** | **Position sequence** | **Logical Interface Required** |
| A900-IMA8Z | 10G SFP+ | Te0/5/0/x (x-0 to 7) | 0-7 | No |
| A900-IMA8CS1Z | 1G SFP | 0,2,4,6,8,10,12,14 | 0-15 | No |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Pluggable Family** | **Archetype Name** | **Archetype Instance name** | **Description** | **Positions Used** | **Vendor** |
| IPRAN | SFP: Cisco-1000BASE-BX10 | SFP: Cisco-1000BASE-BX10 | GLC-2BX-D | 1 | Cisco |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | DWDM-SFP10G-C | 1 | Cisco |
| IPRAN | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP-10G-LR-S | 1 | Cisco |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | Lambda Gain SFP+, Cisco Compatible,10G Ethernet, Single Mode, Dual Fiber, LC Connector, CWDM,1490 nm, 23 dB Optical Budget, 0°C to 70°C, with DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D fiber, LC Con, CWDM, 1470 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1510 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1530 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1550 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1570 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1590 nm, 23dB OB, DDM | 1 | Fonex |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | L Gain SFP+, Cisco Compat, 10 GE, SM, D Fiber, LC Con, CWDM, 1610 nm, 23dB OB, DDM | 1 | Fonex |

### Pluggable Compatible for Card PTP’s

|  |  |  |
| --- | --- | --- |
| Pluggab**l**e | **Card** | **Card PTP’s** |
| SFP: Cisco-1000BASE-BX10 | A900-IMA8CS1Z | Gi0/3/0/0 - Gi0/3/0/15 |
| SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C)  SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S)  SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D)  SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D)  SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D)  SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D)  SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D)  SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D)  SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D)  SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | A900-IMA8Z | Te0/5/0/0 – Te0/5/0/7 |

### Port Compatibility

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pluggable Family | Pluggable Archetype Name | Pluggable Archetype Instance name | Port Archetype Name | Port Archetype Instance name |
| IPRAN | SFP: Cisco-1000BASE-BX10 | SFP: Cisco-1000BASE-BX10 | Gigabit Ethernet | Gi0/3/0/1-15 |
| IPRAN | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | SFP+: Cisco-10GBASE-DWDM-Tunable (DWDM-SFP10G-C) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | SFP+: Cisco-10GBASE-LR (SFP-10G-LR-S) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | SFP+: Fonex-10GBASE-CWDM-1470nm (L01D-16C49I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | SFP+: Fonex-10GBASE-CWDM-1490nm (L01D-16C47I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | SFP+: Fonex-10GBASE-CWDM-1510nm (L01D-16C51I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | SFP+: Fonex-10GBASE-CWDM-1530nm (L01D-16C53I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | SFP+: Fonex-10GBASE-CWDM-1550nm (L01D-16C55I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | SFP+: Fonex-10GBASE-CWDM-1570nm (L01D-16C57I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | SFP+: Fonex-10GBASE-CWDM-1590nm (L01D-16C59I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |
| IPRAN | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | SFP+: Fonex-10GBASE-CWDM-1610nm (L01D-16C61I0D) | 10 Gigabit Ethernet | Te0/5/0/0-7 |

## Device Model Cisco- ASR-9902

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Cisco | IPWAN Family | Cisco ASR-9902 | Cisco ASR-9902 | Cisco ASR-9902 | Cisco ASR-9902 | 1 | 17.3 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Cisco ASR-9902 | IPWAN Family | Cisco ASR-9902 Shelf Position | Shelf Pos1 | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Cisco ASR-9902 Shelf Position | Cisco ASR-9902 Shelf | Shelf -1 | Cisco ASR-9902 Shelf | Cisco ASR-9902 Shelf | 1 | 17.3 |

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for Shelf

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Shelf archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Cisco ASR-9902 Shelf | IPWAN | QSFP-DD | 1/1-1/2 | 0 – 1 |
| IPWAN | QSFP28 | 1/3-1/8 | 2 – 7 |
|
| IPWAN | SFP28 | 1/9-1/24 | 8 – 23 |
|
| IPWAN | SFP+ | 1/25-1/48 | 24-47 |

### Pluggable Types

NA

### Pluggable Compatible for PTP

NA

### Port Compatibility

NA

#### Card Ports

NA

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
|
| Cisco ASR-9902 | Console | CONSOLE | 1 | 1 | Console | No |
| Auxiliary | Auxiliary Serial port | 2 | 2 | Auxiliary Serial port | No |
| Ethernet interface | 1 | 3 | 3 | Ethernet interface | No |
| Ethernet interface | 2 | 4 | 4 | Ethernet interface | No |
| USB | USB | 5 | 5 | USB | No |
| GPS | 10Mhz | 6 | 6 | GPS | No |
| 1PPS | 7 | 7 | GPS | No |
| ToD | 8 | 8 | GPS | No |
| BITS | BITS 1 | 9 | 9 | BITS | No |
| BITS 2 | 10 | 10 | BITS | No |
| SYNC | SYNC 1 | 11 | 11 | SYNC | No |
| SYNC 2 | 12 | 12 | SYNC | No |
| Management | MGT LAN 0 | 13 | 13 | Management | No |
| MGT LAN 1 | 14 | 14 | Management | No |

#### Pluggable Ports

NA

## Device Model Ericsson Mini Link 6694

### Device Types

Following device types will be configured in the BPI using Metadata Modeler. Roger’s project is not using the Rack so category should be defined as ‘Generic’

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Manufacturer** | **Device Type**  **Family** | **Archetype Name** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(In Inches)** | **Category** |
| Ericsson | IPRAN Family | Ericsson MINI-LINK 6694 | Ericsson MINI-LINK 6694 | Ericsson MINI-LINK 6694 | Ericsson MINI-LINK 6694 | 1 | 19 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Ericsson MINI-LINK 6694 | IPRAN Family | Ericsson MINI-LINK 6694-Shelf Position | MAIN | 0 |

### Shelf Types

Configure the following shelf types under the parent ShelfPosition type as per the below details.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Ericsson MINI-LINK 6694-Shelf Position | Ericsson MINI-LINK 6694 Shelf | Shelf -1 | Ericsson MINI-LINK 6694 Shelf | Ericsson MINI-LINK 6694 Shelf | 1 | 19 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| Shelf Archetype name | Slot position Archetype name | Slot position archetype instance name | Position Sequence |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 0 | Slot 0 | 0 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 1 | Slot 1 | 1 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 2 | Slot 2 | 2 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 3 | Slot 3 | 3 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot - 4 | Slot 4 | 4 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot - 5 | Slot 5 | 5 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 6 | Slot 6 | 6 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 7 | Slot 7 | 7 |
| Ericsson MINI-LINK 6694 Shelf | ML 6694 slot – 8 | Slot 8 | 8 |

### Card Types

Configure the following Card Types as per the below details.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| MMU 1001 | MMU 1001 | Modem Unit | NA | 1 | 1 | 1 | 0 | 1 |
| MMU 1002 | MMU 1002 | Modem Unit | NA | 1 | 1 | 1 | 0 | 2 |
| NPU 1002 | NPU 1002 | Node Processor Unit | NA | 1 | 1 | 1 | 3 | 6 |
| NPU 1003 | NPU 1003 | Node Processor Unit | NA | 1 | 1 | 1 | 3 | 6 |
| NPU 1005 | NPU 1005 | Node Processor Unit | NA | 1 | 1 | 1 | 3 | 6 |
| ETU 1001 | ETU 1001 | Ethernet Termination Units | NA | 1 | 1 | 1 | 0 | 2 |
| ETU 1002 | ETU 1002 | Ethernet Termination Units | NA | 1 | 1 | 1 | 5 | 0 |
| LTU 1001 | LTU 1001 | Line Termination Unit | NA | 1 | 1 | 1 | 0 | 16 |
| LTU 1002 | LTU 1002 | Line Termination Units | NA | 1 | 1 | 1 | 1 | 16 |
| PFU 1201 | PFU 1301 | Power Filter Unit | NA | 1 | 1 | 1 | 0 | 0 |
| FAU 1201 | FAU 1301 | Fan Unit | NA | 1 | 1 | 1 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |

### Card Compatibility for slots

Configure the compatibility between Slot Position to the Card

|  |  |  |
| --- | --- | --- |
| **Card Archetype** | **Slot position Archetype** | **Notes** |
| MMU 1001 | Slot 1, Slot 2, Slot 5, Slot 6 |  |
| MMU 1002 | Slot 1, Slot 2, Slot 5, Slot 6 |  |
| NPU 1002 | Slot 7, Slot 8 |  |
| NPU 1003 | Slot 7, Slot 8 |  |
| NPU 1005 | Slot 7, Slot 8 |  |
| ETU 1001 | Slot 2 |  |
| ETU 1002 | Slot 2 |  |
| LTU 1001 | Slot 5, Slot 6 |  |
| LTU 1002 | Slot 5, Slot 6 |  |
| PFU 1201 | Slot 3, Slot 4 |  |
| FAU 1201 | Slot 0 |  |

### Physical Termination Position for Card

|  |  |  |
| --- | --- | --- |
| Card Archetype Name | PTP archetype name | PTP archetype instance name |
| **NPU 1002** | SFP | TN 6 |
| SFP+ | TN 7 |
| SFP+ | TN 8 |
| **NPU 1003** | SFP | TN 6 |
| SFP+ | TN 7 |
| SFP+ | TN 8 |
| **NPU 1005** | SFP | TN 6 |
| SFP+ | TN 7 |
| SFP+ | TN 8 |
| **ETU 1002** | SFP | TN 1 |
| SFP | TN 2 |
| SFP | TN 3 |
| SFP | TN 4 |
| SFP+ | TN 5 |
| **LTU 1002** | SFP | SDH |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| SFP: 1000BASE-TX | SFP: 1000BASE-TX | SFP: 1000BASE-TX | SFP: 1000BASE-TX | 1 | Ericsson |
| SFP:Ericsson-1000Base-LX | SFP:Ericsson-1000Base-LX | SFP:Ericsson-1000Base-LX | SFP:Ericsson-1000Base-LX | 1 | Ericsson |
| SFP:Ericsson-1000Base-ZX | SFP:Ericsson-1000Base-ZX | SFP:Ericsson-1000Base-ZX | SFP:Ericsson-1000Base-ZX | 1 | Ericsson |
| SFP+:GENERIC-10GBASE-LR | SFP+:GENERIC-10GBASE-LR | SFP+:GENERIC-10GBASE-LR | SFP+:GENERIC-10GBASE-LR | 1 | Ericsson |
| SFP:Ericsson-STM-1 | SFP:Ericsson-STM-1 | SFP:Ericsson-STM-1 | SFP:Ericsson-STM-1 | 1 | Ericsson |

### Pluggable Compatible for PTP

|  |  |  |  |
| --- | --- | --- | --- |
| Card Archetype Name | PTP archetype name | PTP archetype instance name | Compatible SFP’s |
| **NPU 1002** | SFP | TN 6 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP+ | TN 7 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |
| SFP+ | TN 8 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |
| **NPU 1003** | SFP | TN 6 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP+ | TN 7 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |
|  | SFP+ | TN 8 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |
| **ETU 1002** | SFP | TN 1 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP | TN 2 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP | TN 3 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP | TN 4 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP+ | TN 5 | SFP+: GENERIC-10GBASE-LR |
| **LTU 1002** | SFP | SDH | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| **NPU 1005** | SFP | TN 6 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP: Ericsson-STM-1 |
| SFP+ | TN 7 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |
| SFP+ | TN 8 | SFP:1000BASE-TX  SFP: Ericsson-1000Base-LX  SFP: Ericsson-1000Base-ZX  SFP+: GENERIC-10GBASE-LR |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| MMU 1001 | RAU | RAU 1 | 1 | 1 | RAU | No |
| MMU 1002 | RAU | RAU 1, RAU 2 | 1-2 | 1-2 | RAU | No |
| NPU 1002 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45 SFP, SFP+, SFP+, User I/O, O&M | SYNC 1, SYNC 2, TN 4, TN 5, TN 6, TN 7, TN 8, User I/O, O&M | 1-9 | 1-9 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45, User I/O, O&M | No |
| NPU 1003 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45 SFP, SFP+, SFP+, User I/O, O&M | SYNC 1, SYNC 2, TN 4, TN 5, TN 6, TN 7, TN 8, User I/O, O&M | 1-9 | 1-9 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45, User I/O, O&M | No |
| NPU 1005 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45 SFP, SFP+, SFP+, User I/O, O&M | SYNC 1, SYNC 2, TN 4, TN 5, TN 6, TN 7, TN 8, User I/O, O&M | 1-9 | 1-9 | SYNC:1PPS+ToD, SYNC: 2MHz, RJ-45, RJ-45, User I/O, O&M | No |
| ETU 1001 | RJ 45 | RJ-45, RJ-45 | 1-2 | 1-2 | RJ-45 | No |
| ETU 1002 | SFP, SFP, SFP, SFP, SFP+ | TN 1, TN 2, TN 3, TN 4, TN 5 | 1 | 1 | - | No |
| LTU 1001 | DS1 | TN 1A-1D, TN 2A-2D, TN 3A-3D, TN 4A-4D | 1-16 | 1-16 | DS1 | No |
| LTU 1002 | DS1, TN 5 | TN 1A-1D, TN 2A-2D, TN 3A-3D, TN 4A-4D, TN 5 | 1-16 | 1-16 | DS1 | No |
| PFU 1201 |  |  |  |  |  | No |
| FAU 1201 |  |  |  |  |  | No |

#### Device Ports

NA

**12.1.1.3 Pluggable Ports**

|  |  |  |  |
| --- | --- | --- | --- |
| Pluggable Archetype name | Port Archetype name | Port Archetype Instance name | Port type name |
| SFP:1000BASE-TX | Gigabit Ethernet | TN 6 | Gigabit Ethernet |
| SFP: Ericsson-1000Base-LX | Gigabit Ethernet | TN 6 | Gigabit Ethernet |
| SFP: Ericsson-1000Base-ZX | Gigabit Ethernet | TN 6 | Gigabit Ethernet |
| SFP+: GENERIC-10GBASE-LR | 10 Gigabit Ethernet | TN 7 | 10 Gigabit Ethernet |
| SFP: Ericsson-STM-1 | Gigabit Ethernet | TN 5 | Gigabit Ethernet |

|  |
| --- |
| Device Roles Configure the metadata for the device roles in Metadata Modeler as per the following |
| |  |  | | --- | --- | | **Device Archetype Name** | **Roles** | | Cisco ASR-9902 | IPRAN, VRR, Operations Modernization | | Cisco NCS-540 | A2L, S, CSD, IPRAN, Operations Modernization | | Cisco NCS-560 | A2H, IPRAN, A2L, A3, Operations Modernization | | Ericsson MINI-LINK 6694 | MICROWAVE | | Asentria SiteBoss 360 | TLAN | | Fastback network IBR A 1300 | MICROWAVE | | Fastback network IBR A 1301 | MICROWAVE | | Cisco NCS-55A2-MOD-SYS | FAL, IPWAN | | Cisco NCS-5501-SE | FAL, IPWAN | | Cisco NCS-5504-SYS | MAL, IPWAN | | H&S CUBE 3RU 16 SX LGX | ACCESS, OADM, PASSIVE | | H&S CUBE 1RU 3 LGX | ACCESS, OADM, PASSIVE | |
|  |

# Naming

## Device Naming

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Device Archetype Name** | **Device Naming** | | Cisco ASR-9902 | “VRR”-Locationcode-SequenceNumber | | Cisco NCS-540 | <Device Role>-<Locationcode>-<SequenceNumber> - Device Name and Device TID  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI | | Cisco NCS-560 | <Device Role>-<Locationcode>-<SequenceNumber> - Device Name and Device TID  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI | | Ericsson Mini-Link 6694 | “MW”-<Locationcode>-<SequenceNumber>  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI  MW Device CLLI Name - <buildingCLLI><EntityCode>.<sequence> - 3digits sequence | | Asentria SiteBoss 360 | “TLAN”-<Locationcode>-<SequenceNumber>  TLAN Device CLLI - <building CLLI><entity code>-<location code>-<sequence> | | Fastback Network IBW A 1300 | “MW”-<Locationcode>-<SequenceNumber>  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI  MW Device CLLI Name - <buildingCLLI><EntityCode>.<sequence> - 3digits sequence | | Fastback Network IBW A 1300 | “MW”-<Locationcode>-<SequenceNumber>  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI  MW Device CLLI Name - <buildingCLLI><EntityCode>.<sequence> - 3digits sequence | | Huber and Suhner- CUBE 3 RU 19-inch LGX Modular Shell for 16 SX LGX module slots | <CLLI code>-<O2P>-<SequenceNumber> | | Huber and Suhner- CUBE 1 RU 19-inch LGX Modular Shell for 3 LGX module slots | <CLLI code>-<O2P>-<SequenceNumber> | | Cisco NCS-5504-SYS | <Device Role>-<Locationcode>-<SequenceNumber> - Device Name and Device TID  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI | | Cisco NCS-5501-SE | <Device Role>-<Locationcode>-<SequenceNumber> - Device Name and Device TID  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI | | Cisco NCS-55A2-MOD-SYS | <Device Role>-<Locationcode>-<SequenceNumber> - Device Name and Device TID  <building CLLI><entity code>-<location code>-<sequence> - for Device CLLI | |

## Slot Naming

|  |  |
| --- | --- |
| ***Device*** | ***Slot naming*** |
| *Cisco-NCS-5504-SYS* | *Slot 1, Slot 2, slot 3, slot 4* |
| Asentria- SiteBoss 360 | *Slot 1, Slot 2* |
| Huber and Suhner 3RU | *Slot 0 to Slot 15* |
| Huber and Suhner 1RU | *Slot 0, Slot 1, Slot 2* |
| *Cisco NCS55A2-MOD-SYS* | *MPA 0, MPA 1* |
| *Cisco NCS 560* | *PSU 0, PSU 1, PSU 2, FT 0, FT 1, FT 2, RSP 0, RSP 1, IM 0, IM 1, IM 2, IM 3, IM 4, IM 5* |
| Ericsson Mini Link 6694 | <Device Type> <Slot Number> (Eg: ML 6694 Slot-0) |

## PTP Naming

*NA*

## Port Naming

|  |  |
| --- | --- |
| ***Device*** | ***Port Naming*** |
| Asentria SiteBoss 360-4 | ge 0/1 |
| Fastback Network IBR 1300 | ge 0/1 |
| Fastback Network IBR 1301 | ge 0/1 |
| Cisco NCS-55A2-MOD-SYS | 0/0/0/<port name(0to39)>  This is for the port PTP with in the Shelf  0/0/<slotnumber>/<PTP position number>  This is for the PTPs under the Card |
| Cisco-NCS-5501-SE | 0/0/0/<PTP position number>  This is for the PTPs on the self. |
| Cisco-NCS-5504 | 0/<slotnumber>/0(constant)/<PTP position number> |
| H&S CUBE 3RU 16 SX LGX | <slotnumber>-<port name>  e.g 1-1570, 1-C38, 2-1570, 2-C38 etc |
| H&S CUBE 1RU 3 LGX | <slotnumber>-<port name>  e.g 1-Line, 2-Line, 2-1471 etc |

*c*

# Open and Closed Issues

## Open Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Closed Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |