BPI Device Modeling Sprint 3 LLD

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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 | ISR 1100 and Ciena WL5 Server device is out of scope |
| 2 | Nokia 1830 PSS-16II modeled as a shelf on the existing “Alcatel-Lucent 1830 PSS” |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Port Archetypes

|  |  |
| --- | --- |
| **Port Name** | **Archetype ID** |
| 10 Gigabit Ethernet | 10070082001 |
| 25GE | 94645684576433707 |
| 100 GE | 10070082005 |
| Gigabit Ethernet | 10070082071 |
| RJ-45 | 10070082117 |
| 40 Gigabit Ethernet | 10070082014 |
| OPT | **10070082101** |
| Line IN/OUT | 10070082079 |

# Device Modeling

## Device Model RAD- ETX-2i 100G RAD

### 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** |
| RAD | EON Family | ETX-2i 100G RAD | ETX-2i 100G RAD | ETX-2i 100G RAD | ETX-2i 100G RAD | 1 | 17.32 | 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

### Pluggable Types

NA

### Pluggable Compatible for PTP

NA

### Port Compatibility

#### Card Ports

NA

#### Device Ports

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
|
| ETX-2i 100G RAD | 10 Gigabit Ethernet | ETH 1/x (x is 1-8) | 1-8 | 10 Gigabit Ethernet | No |
| ETH 2/x (x is 1-8) | 9-16 | No |
| 100 GE | ETH 3/x (x is 1-4) | 17-20 | 100 GE | No |

#### Pluggable Ports

NA

## Device Model Ciena- WAVESERVER 5 CHASSIS

### 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** |
| Ciena | Transport Family | Ciena WaveServer 5 | Ciena WaveServer 5 | Ciena WaveServer 5 | 186-3001-900 | 2 | 18.89 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Ciena WaveServer 5 | Transport Family | Ciena WaveServer 5-Shelf Position | Shelf Pos 1 | 1 |

### Shelf Types

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Ciena WaveServer 5-Shelf Position | Ciena WaveServer 5-Shelf | Shelf-1 | Ciena WaveServer 5 -Shelf | Ciena WaveServer 5 -Shelf | 1 | 17.48 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Ciena WaveServer 5-Shelf | Ciena WaveServer 5 Slotposition | 1 | 1 |
| 3 | 3 |
| 5 | 5 |
| 7 | 7 |
| WS 5-ControlProcessorSlotPosition | 2 | 2 |
| WS 5-AccessPanelSlotPosition | 4 | 4 |
| WS 5-Power&FanSlotPosition | 6 | 6 |
| 8 | 8 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| WAVESERVER 5 CONTROL PROCESSOR SUBSYSTEM (186-3010-900) | WAVESERVER 5 CONTROL PROCESSOR SUBSYSTEM (186-3010-900) | WAVESERVER 5 CONTROL PROCESSOR SUBSYSTEM | 186-3010-900 | 1 | 1 | 1 | 0 | 0 |
| WAVESERVER 5 ACCESS PANEL (186-3020-900) | WAVESERVER 5 ACCESS PANEL (186-3020-900) | WAVESERVER 5 ACCESS PANEL | 186-3020-900 | 1 | 1 | 1 | 0 | 0 |
| WAVESERVER 5 -48VDC POWER AND FAN MODULE (186-3041-900) | WAVESERVER 5 -48VDC POWER AND FAN MODULE (186-3041-900) | WAVESERVER 5 -48VDC POWER AND FAN MODULE | 186-3041-900 | 1 | 1 | 1 | 0 | 0 |
| WAVESERVER 5 FAN MODULE (186-3042-900) | WAVESERVER 5 FAN MODULE (186-3042-900) | WAVESERVER 5 FAN MODULE | 186-3042-900 | 1 | 1 | 1 | 0 | 0 |
| Ciena 100G OTR (NTK538EJ) | Ciena 100G OTR (NTK538EJ) | Ciena 100G OTR J | NTK538EJ | 1 | 1 | 1 | 1 | 1 |
| WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) | WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) | WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE | 186-3101-901 | 1 | 1 | 1 | 16 | 2 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| Ciena WaveServer 5-Slot Position | WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) |  |
| Ciena 100G OTR (NTK538EJ) |  |
| WS 5-ControlProcessorSlotPosition | WAVESERVER 5 CONTROL PROCESSOR SUBSYSTEM (186-3010-900) |  |
| WS 5-AccessPanelSlotPosition | WAVESERVER 5 ACCESS PANEL (186-3020-900) |  |
| WS 5-Power&FanSlotPosition | WAVESERVER 5 -48VDC POWER AND FAN MODULE (186-3041-900)  WAVESERVER 5 FAN MODULE (186-3042-900) |  |

### Physical Termination Position for Shelf

NA

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype | PTP Archetype Instance | Position Sequence | Notes |
| WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) | Ciena OME 6500 QSFP28-PTP Position | 1/1 to 1/16 | 1 to 16 |  |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| 100GE-FR1 QSFP28 | 100GE-FR1 QSFP28 | 100GE-FR1 QSFP28 | 160-9431-900 | 1 | Ciena |
| 1xGE/FC100 SFP | 1xGE/FC100 SFP | 1xGE/FC100 SFP | NTK591SBE7 | 1 | Ciena |
| 400G-FR4, SMF, 2KM QSFP-DD | 400G-FR4, SMF, 2KM QSFP-DD | 400G-FR4, SMF, 2KM QSFP-DD | 160-9600-900 | 1 | Ciena |

### Pluggable Compatible for Cards

|  |  |
| --- | --- |
| **Card Archetype** | **Pluggable Archetype** |
| WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) | 100GE-FR1 QSFP28 |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** | **Pluggable Archetype** | **Notes** |
| Ciena OME 6500 QSFP28-PTP Position | 100GE-FR1 QSFP28 |  |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| WS 2xWL5E C-BAND PREMIUM 16XQSFP28/QSFP-DD MODULE (186-3101-901) |
| Line IN/OUT | Line 1 | 1 | 1 | Line IN/OUT | No |
| Line 2 | 2 | 2 | Line IN/OUT | No |

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| 100GE-FR1 QSFP28 | OPT | | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| 1xGE/FC100 SFP | OPT | | 1\*Optical TX/RX | 1 | 1 | OPT | No |

## Device Model OME 6500

### Shelf Types

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ShelfPosition Archetype** | **Shelf Archetype Name** | **Shelf Archetype Instance Name** | | **Part Number** | **Description** | **Positions Used** | **Width (in Inches)** |
| Ciena OME 6500 –Shelf Position | Ciena CPL CMD42 Shelf | Ciena CPL CMD42 Shelf | Ciena CPL CMD42 Shelf | Ciena CPL CMD42 Shelf | | 1 | 17.5 |

### Shelf Slot

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Ciena CPL CMD42 Shelf | Ciena CPL CMD42 Slot Position | Slot 1 | 0 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| CMD42 | CMD42 | CMD42 | **NTT862NA** | 1 | 1 | 1 | 0 | 43 |

### Card Compatibility for Cards

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| Ciena CPL CMD42 Slot Position | CMD42 | Ciena OME 6500 Device |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype | PTP Archetype Instance | Position Sequence | Notes |
| WLAi , WL5e MOTR card | Ciena OME 6500 QSFP28-PTP position | Slot 1 | 0 | Existing |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** | **Pluggable Archetype** | **Notes** |
| Ciena OME 6500 QSFP28-PTP Position | 400G-FR4, SMF, 2KM QSFP-DD |  |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| CMD42 | OPT | Ch IN/OUT 1 to Ch IN/OUT 43 | 1 to 43 | 1 to 43 | OPT | No |
| OPT | Ch Mux/Demux 44 | 44 | 44 | OPT | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| 400G-FR4, SMF, 2KM QSFP-DD | OPT | | 1\*Optical TX/RX | 1 | 1 | OPT | No |

## Device Model Nokia 7750 SR-1e

### 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** |
| Nokia | EON Family | Nokia 7750 SR-1e | Nokia 7750 SR-1e | Nokia 7750 SR-1e | Nokia 7750 SR-1e | 1 | 17.5 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Nokia 7750 SR-1e | EON Family | Nokia 7750 SR-1e 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)** |
| Nokia 7750 SR-1e Shelf Position | Nokia 7750 SR-1e Shelf | Shelf-1 | Nokia 7750 SR-1e Shelf | Nokia 7750 SR-1e Shelf | 1 | 17.5 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Nokia 7750 SR-1e Shelf | MDA | Slot 1 | 0 |
| Slot 2 | 1 |
| Slot 3 | 2 |
| Slot 4 | 3 |
|  | CCM | Slot 5 | 4 |
|  | Slot 6 | 5 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype** | **Card Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width (in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| MDA-e – 7750 SR 10-port 10GE SFP+ | MDA-e – 7750 SR 10-port 10GE SFP+ | MDA-e – 7750 SR 10-port 10GE SFP+ | 3HE09649AA | 1 | 1 | 1 | 10 | 0 |
| MDA-e 2pt 100GE QSFP28 | MDA-e 2pt 100GE QSFP28 | MDA-e 2pt 100GE QSFP28 | 3HE11031AA | 1 | 1 | 1 | 2 | 0 |
| MDA-e 40-port 1GE CSFP | MDA-e 40-port 1GE CSFP | MDA-e 40-port 1GE CSFP | 3HE10642AA | 1 | 1 | 1 | 40 | 0 |
| MDA-e 6-port 10GE SFP+ | MDA-e 6-port 10GE SFP+ | MDA-e 6-port 10GE SFP+ | 3HE10429AA | 1 | 1 | 1 | 6 | 0 |
| S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | 3HE12391AA | 1 | 1 | 1 | 36 | 0 |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | | **Notes** | |
| MDA  CCM | | MDA-e – 7750 SR 10-port 10GE SFP+ | |  |
| MDA-e 2pt 100GE QSFP28 | |  |
| MDA-e 40-port 1GE CSFP | |  |
| MDA-e 6-port 10GE SFP+ | |  |
| S36-400GB-QSFPDD:CR3600 | |  |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| MDA-e – 7750 SR 10-port 10GE SFP+ | EON family | SFP+ | 1-10 | 0-9 |
| MDA-e 2pt 100GE QSFP28 | QSFP28 | 1-2 | 0-1 |
| MDA-e 40-port 1GE CSFP | CSFP | 1-40 | 0-39 |
| MDA-e 6-port 10GE SFP+ | SFP+ | 1-6 | 0-5 |
| S36-400GB-QSFPDD:CR3600 | QSFP56-DD | cx (x is 1-36) | 0-35 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | 1 | Fonex |
| ME2-100GB-QSFP28 | ME2-100GB-QSFP28 | ME2-100GB-QSFP28 | ME2-100GB-QSFP28 | 1 | Nokia |
| ME6-10GB-SFP+ | ME6-10GB-SFP+ | ME6-10GB-SFP+ | ME6-10GB-SFP+ | 1 | Nokia |
| ME40-1GB-CSFP | ME40-1GB-CSFP | ME40-1GB-CSFP | ME40-1GB-CSFP | 1 | Nokia |
| ME10-10GB-SFP+ | ME10-10GB-SFP+ | ME10-10GB-SFP+ | ME10-10GB-SFP+ | 1 | Nokia |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| QSFP56-DD  SFP+  QSFP28  SFP+  CSFP | XFP:Fonex-10G-CWDM-1470nm  XFP:Fonex-10G-CWDM-1490nm  XFP:Fonex-10G-CWDM-1510nm  XFP:Fonex-10G-CWDM-1530nm  XFP:Fonex-10G-CWDM-1550nm  XFP:Fonex-10G-CWDM-1570nm  XFP:Fonex-10G-CWDM-1590nm  XFP:Fonex-10G-CWDM-1610nm |  |
| SFP+  QSFP28  SFP+  CSFP | ME10-10GB-SFP+ |  |
| ME2-100GB-QSFP28 |  |
| ME6-10GB-SFP+ |  |
| ME40-1GB-CSFP |  |

### Port Compatibility

#### 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** |
| ME10-10GB-SFP+ | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| ME2-100GB-QSFP28 | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| ME40-1GB-CSFP | Gigabit Ethernet | Gigabit Ethernet | 1 | 1 | Gigabit Ethernet | No |
| ME6-10GB-SFP+ | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1470nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1490nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1510nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1530nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1550nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1570nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1590nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1610nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |

## Device Model Nokia 7750 SR-2s

### 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** |
| Nokia | EON Family | Nokia 7750 SR-2s | Nokia 7750 SR-2s | Nokia 7750 SR-2s | Nokia 7750 SR-2s | 1 | 17.5 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Nokia 7750 SR-2s | EON Family | Nokia 7750 SR-2s Shelf Position 1 | 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)** |
| Nokia 7750 SR-2s Shelf Position 1 | Nokia 7750 SR-2s Shelf | Shelf-1 | Nokia 7750 SR-2s Shelf | Nokia 7750 SR-2s Shelf | 1 | 17.5 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Nokia 7750 SR-2s Shelf | PSU | Slot 1 | 0 |
| CPM | Slot 2 | 2 |
| Slot 3 | 3 |
| XCM | Slot 4 | 4 |
| Slot 5 | 5 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | 3HE12391AA | 1 | 1 | 1 | 36 | 0 |
| CPM-2s | CPM-2s | CPM-2s | 3HE1403A4AA | 1 | 1 | 1 | 0 | 0 |
| PS-A-DC-6000 | PS-A-DC-6000 | PS-A-DC-6000 | 3HE11185AA | 1 | 1 | 1 | 0 | 0 |
| PS-B-AC/HV-6000 | PS-B-AC/HV-6000 | PS-B-AC/HV-6000 | 3HE11183AA | 1 | 1 | 1 | 0 | 0 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| SlotPosition Archetype | Card Archetype | Notes |
| XCM | S36-400GB-QSFPDD:CR3600 |  |
| CPM | CPM-2s |  |
| PSU | PS-A-DC-6000  PS-B-AC/HV-6000 |  |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| S36-400GB-QSFPDD:CR3600 | EON family | QSFP56-DD | cX (x is 1-36) | 0-35 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | 1 | Fonex |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| QSFP56-DD | XFP:Fonex-10G-CWDM-1470nm  XFP:Fonex-10G-CWDM-1490nm  XFP:Fonex-10G-CWDM-1510nm  XFP:Fonex-10G-CWDM-1530nm  XFP:Fonex-10G-CWDM-1550nm  XFP:Fonex-10G-CWDM-1570nm  XFP:Fonex-10G-CWDM-1590nm  XFP:Fonex-10G-CWDM-1610nm |  |

### Port Compatibility

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| XFP:Fonex-10G-CWDM-1470nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1490nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1510nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1530nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1550nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1570nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1590nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1610nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |

## Device Model Nokia 7750 SR-7s

### 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** |
| Nokia | EON Family | Nokia 7750 SR-7s | Nokia 7750 SR-7s | Nokia 7750 SR-7s | Nokia 7750 SR-7s | 1 | 17.5 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Nokia 7750 SR-7s | EON Family | Nokia 7750 SR-7s 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)** |
| Nokia 7750 SR-7s  Shelf Position | Nokia 7750 SR-7s Shelf | Shelf-1 | Nokia 7750 SR-7s Shelf | Nokia 7750 SR-7s Shelf | 1 | 17.5 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Nokia 7750 SR-7s Shelf | XCM | Slot 1 | 0 |
|  | XCM | Slot 2 | 1 |
|  | XCM | Slot 3 | 2 |
|  | XCM | Slot 4 | 3 |
|  | XCM | Slot 5 | 4 |
|  | XCM | Slot 6 | 5 |
|  | CMA2 | Slot 7 | 6 |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| CMA2 | CMA2 | CMA2 | 3HE12560AA | 1 | 1 | 1 | 0 | 0 |
| CPM2 | CPM2 | CPM2 | 3HE12559AA | 1 | 1 | 1 | 0 |  |
| S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | S36-400GB-QSFPDD:CR3600 | 3HE12391AA | 1 | 1 | 1 | 36 | 0 |

### Card Compatibility for slots

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| XCM | S36-400GB-QSFPDD:CR3600 |  |
| CMA2 | CMA2 | Slot 7 |

### Slots compatible with Cards

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card archetype name | Slot Family | Slot Archetype name | Slot Instance Name | Position Sequence |
| CMA2 | EON family | CPM A | CPM A | 0 |
|  |  | CPM B | CPM B | 1 |

### Card Slots compatible with Cards

|  |  |  |
| --- | --- | --- |
| **SlotPosition Archetype** | **Card Archetype** | **Notes** |
| CPMA | CPM2 |  |
| CPMB | CPM2 |  |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| S36-400GB-QSFPDD:CR3600 |  | QSFP56-DD | C1 | 0 |
|  | C2 | 1 |
|  | C3 | 2 |
|  | C4 | 3 |
|  | C5 | 4 |
|  | C6 | 5 |
|  | C7 | 6 |
|  | C8 | 7 |
|  | C9 | 8 |
|  | C10 | 9 |
|  | C11 | 10 |
|  | C12 | 11 |
|  | C13 | 12 |
|  | C14 | 13 |
|  | C15 | 14 |
|  | C16 | 15 |
|  | C17 | 16 |
|  | C18 | 17 |
|  | C19 | 18 |
|  | C20 | 19 |
|  | C21 | 20 |
|  | C22 | 21 |
|  | C23 | 22 |
|  | C24 | 23 |
|  | C25 | 24 |
|  | C26 | 25 |
|  | C27 | 26 |
|  | C28 | 27 |
|  | C29 | 28 |
|  | C30 | 29 |
|  | C31 | 30 |
|  | C32 | 31 |
|  | C33 | 32 |
|  | C34 | 33 |
|  | C35 | 34 |
|  | C36 | 35 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | XFP:Fonex-10G-CWDM-1470nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | XFP:Fonex-10G-CWDM-1490nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | XFP:Fonex-10G-CWDM-1510nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | XFP:Fonex-10G-CWDM-1530nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | XFP:Fonex-10G-CWDM-1550nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | XFP:Fonex-10G-CWDM-1570nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | XFP:Fonex-10G-CWDM-1590nm | 1 | Fonex |
| XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | XFP:Fonex-10G-CWDM-1610nm | 1 | Fonex |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| QSFP56-DD | XFP:Fonex-10G-CWDM-1470nm |  |
| XFP:Fonex-10G-CWDM-1490nm |  |
| XFP:Fonex-10G-CWDM-1510nm |  |
| XFP:Fonex-10G-CWDM-1530nm |  |
| XFP:Fonex-10G-CWDM-1550nm |  |
| XFP:Fonex-10G-CWDM-1570nm |  |
| XFP:Fonex-10G-CWDM-1590nm |  |
| XFP:Fonex-10G-CWDM-1610nm |  |

### Port Compatibility

#### Card Ports

NA

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| XFP:Fonex-10G-CWDM-1470nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1610nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1570nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM -1550nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1590nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1530nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1490nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |
| XFP:Fonex-10G-CWDM-1510nm | 10 Gigabit Ethernet | 10 Gigabit Ethernet | 1 | 1 | 10 Gigabit Ethernet | No |

## Device Model Nokia 1830 PSI-M

### 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** |
| Nokia | TRANSPORT Family | Nokia 1830 PSI-M | Nokia 1830 PSI-M | Nokia 1830 PSI-M | Nokia1830 PSI-M | 1 | 18.89 | Generic |

### Shelf Position Types

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device Archetype** | **Device Type**  **Family** | **ShelfPosition Archetype Name** | **ShelfPosition Archetype Instance Name** | **Position Sequence** |
| Nokia 1830 PSI-M | TRANSPORT Family | Nokia 1830 PSI-M Shelf Position | Shelf Position | 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)** |
| Nokia 1830 PSI-M Shelf Position | Nokia 1830 PSI-M Shelf | Shelf-1 | Nokia 1830 PSI-M Shelf | Nokia 1830 PSI-M Shelf | 1 | 18.89 |

### Shelf Slots

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| Nokia 1830 PSI-M Shelf | SFM6 | Slot 1 | 0 |
| Slot 2 | 1 |
| Slot 3 | 2 |
| Slot 4 | 3 |
|  | | |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height (In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| 600G SFM6 module | 600G SFM6 module | 600G SFM6 module | 3KC82212AA | 1 | 1 | 1 | 6 | 1 |
| S6AD600 600G Muxponder Module | S6AD600 600G Muxponder Module | S6AD600 600G Muxponder Module | 3KC71192AA | 1 | 1 | 1 | 6 | 1 |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |
| --- | --- | --- |
| SlotPosition Archetype Instance Name | Card Archetype | Notes |
| Slot 1  Slot 2  Slot 3  Slot 4 | 600G SFM6 module |  |
| S6AD600 600G Muxponder Module |  |

### Physical Termination Position for Card

|  |  |  |  |
| --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype Name | PTP Archetype Instance Name | Position Sequence |
| 1. 600G SFM6 module  2. S6AD600 600G Muxponder Module | QSFP28 | 1/C1 | 0 |
| 1/C2 | 1 |
| 1/C3 | 2 |
| 1/C4 | 3 |
| 1/C5 | 4 |
| QSFP28/QSFP56-DD | 1/C6 | 5 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| CFP2-DCO | CFP2-DCO | CFP2-DCO | CFP2-DCO | 1 | Nokia |
| Q56DD-400G-FR4 | Q56DD-400G-FR4 | Q56DD-400G-FR4 | Q56DD-400G-FR4 | 1 | Nokia |
| Q56DD-400G-LR8 | Q56DD-400G-LR8 | Q56DD-400G-LR8 | Q56DD-400G-LR8 | 1 | Nokia |
| 400GBASE-LR8 | 400GBASE-LR8 | 400GBASE-LR8 | 400GBASE-LR8 | 1 | Nokia |
| 400GBASE-FR4 | 400GBASE-FR4 | 400GBASE-FR4 | 400GBASE-FR4 | 1 | Nokia |
| 100GBASE-LR4 | 100GBASE-LR4 | 100GBASE-LR4 | 100GBASE-LR4 | 1 | Nokia |
| 100GBASE-CWDM4 | 100GBASE-CWDM4 | 100GBASE-CWDM4 | 100GBASE-CWDM4 | 1 | Nokia |
| 100GBASE-SR4 | 100GBASE-SR4 | 100GBASE-SR4 | 100GBASE-SR4 | 1 | Nokia |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PTP Archetype** | **Pluggable Archetype** | **Notes** |
| QSFP28  QSFP28/QSFP56-DD | CFP2-DCO |  |
| Q56DD-400G-FR4 |  |
| Q56DD-400G-LR8 |  |
| 400GBASE-LR8 |  |
| 400GBASE-FR4 |  |
| 100GBASE-LR4 |  |
| 100GBASE-CWDM4 |  |
| 100GBASE-SR4 |  |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Card Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| 1. 600G SFM6 module  2. S6AD600 600G Muxponder Module | Trunk | Trunk | 1 | 1 | Trunk | No |

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| Nokia 1830 PSI-M | QSFP28/QSFP56-DD | 1/1 | 1 | 1 | QSFP28/QSFP56-DD | No |
| 1/2 | 2 | 2 | No |
| RJ-45 (Ethernet front panel) | 2 | 3 | 3 | RJ-45 (Ethernet front panel) | No |
| RJ-45(Serial front panel) | 3 | 4 | 4 | RJ-45(Serial front panel) | No |
| 100G Line | 4 | 5 | 5 | 100G Line Port | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| 400GBASE-LR8 | 400 GE | 400 GE | 1 | 1 | 400 GE | No |
| 400GBASE-FR4 | 400 GE | 400 GE | 1 | 1 | 400 GE | No |
| 100GBASE-LR4 | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| 100GBASE-CWDM4 | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| CFP2-DCO | 100 GE | 100 GE | 1 | 1 | 100 GE | No |
| Q56DD-400G-FR4 | 400 GE | 400 GE | 1 | 1 | 400 GE | No |
| Q56DD-400G-LR8 | 400 GE | 400 GE | 1 | 1 | 400 GE | No |
| 100GBASE-SR4 | 100 GE | 100 GE | 1 | 1 | 100 GE | No |

## Device Model Nokia- 7210 SAS-D

### 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** |
| Nokia | EON Family | Nokia- 7210 SAS-D | Nokia- 7210 SAS-D | Nokia- 7210 SAS-D | Nokia- 7210 SAS-D | 1 | 10.43 | Generic |

### Shelf Position Types

NA

### Shelf Types

NA

### Shelf Slots

NA

### Card Types

NA

### Card Compatibility for slots

NA

### Physical Termination Position for Device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device archetype name | PTP’s Family | PTP Archetype name | PTP Archetype Instance Name | Position Sequence |
| Nokia-7210 SAS-D | EON family | SFP | 1/1/1 | 0 |
|  | 1/1/2 | 1 |
|  | 1/1/3 | 2 |
|  | 1/1/4 | 3 |
|  | 1/1/5 | 4 |
|  | 1/1/6 | 5 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| SFP Generic | SFP Generic | Generic SFP | SFP Generic | 1 | Nokia |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP | SFP Generic |  |

### Port Compatibility

#### Card Ports

NA

#### Device Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interfac Required** |
| Nokia-7210 SAS-D | RJ-45 | 1/1/7 | 1 | 1 | copper | No |
| RJ-45 | 1/1/8 | 2 | 2 | copper | No |
| RJ-45 | 1/1/9 | 3 | 3 | copper | No |
| RJ-45 | 1/1/10 | 4 | 4 | copper | No |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| SFP Generic | 1GE | 1GE-1 | 1 | 1 | 1GE Port | No |

## Device Model Nokia- 7210 SAS-DXP

### 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** |
| Nokia | EON Family | Nokia- 7210 SAS-DXP | Nokia- 7210 SAS-DXP | Nokia- 7210 SAS-DXP | Nokia- 7210 SAS-DXP | 1 | 10.23 | 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 |
| Nokia 7210 SAS-DXP | EON family | SFP | 1/1/7 | 0 |
| 1/1/8 | 1 |
| 1/1/9 | 2 |
| 1/1/10 | 3 |
| SFP+ | 1/1/11 | 0 |
| 1/1/12 | 1 |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| 1GE SFP | 1GE SFP | 1GE SFP | 1GE SFP | 1 | Nokia |
| 10GE SFP+ | 10GE SFP+ | 10GE SFP+ | 10GE SFP+ | 1 | Nokia |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **PhysicalTermination Position Archetype** | **Pluggable Archetype** | **Notes** |
| SFP | 1GE SFP |  |
| SFP+ | 10GE SFP+ |  |

### 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** |
|  |
| Nokia- 7210 SAS-DXP | RJ-45 | 1/1/1 | 1 | 1 | Copper | No |  |
| RJ-45 | 1/1/2 | 2 | 2 | Copper | No |  |
| RJ-45 | 1/1/3 | 3 | 3 | Copper | No |  |
| RJ-45 | 1/1/4 | 4 | 4 | Copper | No |  |
| RJ-45 | 1/1/5 | 5 | 5 | Copper | No |  |
| RJ-45 | 1/1/6 | 6 | 6 | Copper | No |  |

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Instance Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| 1GE SFP | Gigabit Ethernet | Gigabit Ethernet | 1 | 1 | Gigabit Ethernet | No |
| 10GE SFP+ | 10GE | 10GE | 1 | 1 | 10GE | No |

## Shelf Model Nokia- 1830 PSS-16II

Nokia 1830 PSS-16II modeled as a shelf on the existing “Alcatel-Lucent 1830 PSS”

### 3.10.1 Shelf Types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ShelfPosition Archetype | Shelf Archetype Name | Shelf Archetype Instance Name | Part Number | Description | Positions Used | Width (in Inches) |
| Alcatel-Lucent 1830 PSS-Shelf Position | 1830 PSS-16 Shelf | 1830 PSS-16 Shelf | 1830 PSS-16 Shelf | 1830 PSS-16 Shelf | 1 | 17.5 |

### 3.10.2 Slot Types

|  |  |  |  |
| --- | --- | --- | --- |
| **Shelf Archetype Name** | **Slot Position Archetype** | **Slot Position Archetype Instance** | **Position Sequence** |
| 1830 PSS-16 -Shelf | Alcatel-Lucent 1830 PSS-16 Controller-Slot Position | SLOT-1-2 | 0 |
| SLOT-1-12 | 1 |
| Alcatel-Lucent 1830 PSS-16II Fan-Slot Position | SLOT-1-21 | 2 |
| Alcatel-Lucent 1830 PSS-16 Function (FH-DW)-Slot Position | SLOT-1-6 | 3 |
| SLOT-1-5 | 4 |
| SLOT-1-7 | 5 |
| SLOT-1-8 | 6 |
| SLOT-1-4 | 7 |
| SLOT-1-3 | 8 |
| SLOT-1-9 | 9 |
| Alcatel-Lucent 1830 PSS-16 Function (HH-DW)-Slot Position | SLOT-1-14 | 10 |
| SLOT-1-15 | 11 |
| SLOT-1-17 | 12 |
| SLOT-1-18 | 13 |
| SLOT-1-13 | 14 |
| SLOT-1-16 | 15 |
| Alcatel-Lucent 1830 PSS-16 Function (HH-SW) -Slot Position | SLOT-1-19 | 16 |
| Alcatel-Lucent 1830 PSS-16 Power-Slot Position | SLOT-1-1 | 17 |
| SLOT-1-11 | 18 |
| Alcatel-Lucent 1830 PSS-16 User-Slot Position | SLOT-1-20 | 19 |
| Alcatel-Lucent 1830 PSS-16 User-Slot Position | SLOT-1-10 | 20 |
| Alcatel-Lucent 1830 PSS-16 User Panel Slot Position | SLOT-1-22 | 21 |

### Card Compatibility for slots

Configure the compatibility between SlotPosition to the Card

|  |  |  |
| --- | --- | --- |
| SlotPosition Archetype Instance Name | Card Archetype | Notes |
| SLOT-1-6  SLOT-1-5  SLOT-1-7  SLOT-1-8  SLOT-1-4  SLOT-1-3  SLOT-1-9  SLOT-1-14  SLOT-1-15  SLOT-1-17  SLOT-1-18  SLOT-1-13  SLOT-1-16  SLOT-1-19  SLOT-1-10  SLOT-1-20 | S6AD600 600G Muxponder Module |  |
| iROADM32 = WSS card with integrated Amplifiers |  |
| RA5PB C+L Raman Amplifier card |  |
| OTDR-WB card |  |
| C+L Combiner/Splitter passive card |  |
| SLOT-1-2 | ECA |  |
| SLOT-1-1 | PFA |  |
| SLOT-1-12 | ECB |  |
| SLOT-1-11 | PFB |  |
| SLOT-1-22 | USRPNL |  |
| SLOT-1-21 | FAN |  |

### Card Types

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Width**  **(in Inches)** | **Height**  **(In Inches)** | **Child PTP**  **Positions** | **Physical Ports** |
| S6AD600 600G Muxponder Module | S6AD600 600G Muxponder Module | S6AD600 600G Muxponder Module | 3KC71192AA | 1 | 18.89 | 1.71 | 6 | 1 |
| iROADM32 = WSS card with integrated Amplifiers | iROADM32 = WSS card with integrated Amplifiers | iROADM32 = WSS card with integrated Amplifiers | NA | 1 | NA | NA | 0 | 0 |
| RA5PB C+L Raman Amplifier card | RA5PB C+L Raman Amplifier card | RA5PB C+L Raman Amplifier card | NA | 1 | NA | NA | 0 | 0 |
| OTDR-WB card | OTDR-WB card | OTDR-WB card | NA | 1 | NA | NA | 0 | 0 |
| C+L Combiner/Splitter passive card | C+L Combiner/Splitter passive card | C+L Combiner/Splitter passive card | NA | 1 | NA | NA | 0 | 0 |

### Physical Termination Position for Card

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Card Archetype Name | PTP Archetype | PTP Archetype Instance | Position Sequence | Notes |
| S6AD600 600G Muxponder Module | Alcatel-Lucent QSFP28-PTP Position | 1/1 | 0 |  |
| 1/2 | 1 |  |
| 1/3 | 2 |  |
| 1/4 | 3 |  |
| 1/5 | 4 |  |
| Alcatel-Lucent QSFP28/QSFP56-DD PTP Position | 1/6 | 5 |  |

### Pluggable Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Archetype** | **Archetype Instance Name** | **Description** | **Part Number** | **Positions Used** | **Vendor** |
| QSFP28 100GE-CWDM4 | QSFP28 100GE-CWDM4 | QSFP28 100GE-CWDM4 | 3AL82075AA | 1 | Nokia |
| QSFP28 100GE-SR4 | QSFP28 100GE-SR4 | QSFP28 100GE-SR4 | 3AL82217AA | 1 | Nokia |
| 100G-SR4 QSFP28 | 100G-SR4 QSFP28 | 100G-SR4 QSFP28 | 3AL82099AA | 1 | Nokia |
| QSFP28/100GBASE-LR4 (Dual Rate) | QSFP28/100GBASE-LR4 (Dual Rate) | Dual-rate 100GBASE-LR4 QSFP28 | 3AL82072AA | 1 | Nokia |
| QSFP28 100GE-LR4 | QSFP28 100GE-LR4 | QSFP28 100GE-LR4 | 3AL82074AA | 1 | Nokia |
| QSFP28 100GE-FR1 | QSFP28 100GE-FR1 | QSFP28 100GE-FR1 | 3AL82237AA | 1 | Nokia |
| QSFP28 100GE-ER4 | QSFP28 100GE-ER4 | QSFP28 100GE-ER4 | 3AL82152AA | 1 | Nokia |
| QSFP28 100GE-LR1 | QSFP28 100GE-LR1 | QSFP28 100GE-LR1 | 3AL82241AA | 1 | Nokia |
| QSFP56-DD 400G-FR4 | QSFP56-DD 400G-FR4 | QSFP28-DD 400G-FR4 | 3AL82188AA | 1 | Nokia |
| QSFP56-DD 400G-LR4 | QSFP56-DD 400G-LR4 | QSFP56-DD 400G-LR4 | 3AL82242AA | 1 | Nokia |

### Pluggable Compatible for Cards

|  |  |
| --- | --- |
| **Card Archetype** | **Pluggable Archetype** |
| S6AD600 600G Muxponder Module | QSFP28/100GBASE-LR4 (Dual Rate) |
| QSFP28 100GE-CWDM4 |
| 100G-SR4 QSFP28 |
| QSFP56-DD 400G-FR4 |
| QSFP28 100GE-ER4 |
| QSFP28 100GE-SR4 |
| QSFP56-DD 400G-LR4 |
| QSFP28 100GE-LR1 |
| QSFP28 100GE-LR4 |
| QSFP28 100GE-FR1 |

### Pluggable Compatible for PTP

|  |  |  |
| --- | --- | --- |
| **Physical Termination Position Archetype** 1 | **Pluggable Archetype** | **Notes** |
| Alcatel-Lucent QSFP28-PTP Position | QSFP28/100GBASE-LR4 (Dual Rate) |  |
| QSFP28 100GE-CWDM4 |  |
| 100G-SR4 QSFP28 |  |
| QSFP28 100GE-ER4 |  |
| QSFP28 100GE-SR4 |  |
| QSFP28 100GE-LR1 |  |
| QSFP28 100GE-FR1 |  |
| QSFP28 100GE-LR4 |  |
| Alcatel-Lucent QSFP28/QSFP56-DD PTP Position | QSFP56-DD 400G-LR4 |  |
| QSFP56-DD 400G-FR4 |  |

### Port Compatibility

#### Card Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Card Archetype Name | Port Archetype | Port Archetype Instance | Port Number | Port Sequence | Port Type Name | Logical Interface Required |
| S6AD600 600G Muxponder Module | Trunk | Trunk | 1 | 1 | Trunk | No |

#### Device Ports

NA

#### Pluggable Ports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pluggable Archetype Name** | **Port Archetype** | **Port Archetype Instance** | **Port Number** | **Port Sequence** | **Port Type Name** | **Logical Interface Required** |
| QSFP28/100GBASE-LR4 (Dual Rate) | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-CWDM4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| 100G-SR4 QSFP28 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-ER4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-SR4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-LR1 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-FR1 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP28 100GE-LR4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP56-DD 400G-LR4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |
| QSFP56-DD 400G-FR4 | OPT | 1\*Optical TX/RX | 1 | 1 | OPT | No |

## Device Roles

|  |
| --- |
| Configure the metadata for the device roles in Metadata Modeler as per the following |
| |  |  | | --- | --- | | **Device Archetype Name** | **Roles** | | ETX-2i 100G RAD | EON, Customer Edge | | Nokia 7750 SR1-e | MGW, AGW | | Nokia 7750 SR-2s | MGW, AGW | | Ciena WaveServer 5 | ACCESS,EXPRESS,ILA,EON,OADM,OTN,ROADM | | Nokia 7750 SR-7 chassis | MGW, AGW | | 1830 PSI-M | EXPRESS,ILA,EON,OADM,ROADM | | 7210 SAS-D | EON, Customer Edge | | 7210 SAS-DXP | EON, Customer Edge | |
|  |

# Naming

## Device Naming

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Device Archetype Name** | **Device Naming** | | ETX-2i 100G RAD | <clli\_code>+<sequence number> | | Nokia 7750 SR1-e | <Device Role>+<sequence number>.<clli\_code> | | Nokia 7750 SR-2s | <Device Role>+<sequence number>.<clli\_code> | | Ciena WaveServer 5 | <clli\_code>+<O2D>-<sequence number> | | Nokia 7750 SR-7 chassis | <Device Role>+<sequence number>.<clli\_code> | | 1830 PSI-M | <clli\_code>+<O2D>-<sequence number> | | 7210 SAS-D | <clli\_code>+<sequence number> | | 7210 SAS-DXP | <clli\_code>+<sequence number> | |

## Slot. Naming

|  |  |
| --- | --- |
| ***Device*** | ***Slot Naming*** |
| *Ciena WaveServer 5* | *Slot 1, Slot 3,Slot 5,Slot 7,Slot 2,Slot 4,Slot 6* |
| *Ciena OME 6500* | *CMD42-# (# - depends on Shelf AID)* |
| *Nokia 7750 SR-1e* | *Slot 1, Slot 2, Slot 3, Slot 4, Slot 5, Slot 6* |
| *Nokia 7750 SR-2s* | *Slot 1, Slot 2, Slot 3, Slot 4, Slot 5* |
| *Nokia 7750 SR-7s* | *Slot 1, Slot 2, Slot 3, Slot 4, Slot 5, Slot 6, Slot 7* |
| *Nokia 1830 PSI-M* | *Slot 1, Slot 2, Slot 3, Slot 4* |
| *Nokia 1830 PSS 16II* | *Slot-1-1 to Slot-1-22* |

## PTP Naming

*NA*

## Port Naming

|  |  |
| --- | --- |
| ***Device*** | ***Port Naming*** |
| Nokia 7750 SR-2s | 1/<Slot\_Number+1>/<PTP name> Eg:1/1/c1(1 is Shelf, 1 is slot number, c1 is the PTP name) |
| Nokia 7750 SR-7s | 1/<Slot\_Number+1>/<PTP name> Eg:1/1/c1(1 is Shelf, 1 is slot number, 1/c1 is the PTP name – extract as c1) |
| Nokia 7750 SR-1e | 1/<Slot\_Number+1>/<PTP name> Eg:1/1/c1(1 is Shelf, 1 is slot number, 1/c1 is the PTP name – extract as c1) |
| Nokia 1830 PSI-M | <Slot\_Number+1>/<PTP Name> Eg: 1/1/C1(0 to 3 is slot number, 1/C1 is the PTP name)  <Slot\_Number+1>/<Port Name> Eg: 1/L1(0 to 3 is slot number, Line is the Card port name) – Direct port on the card |
| Nokia 7210 SAS-DXP | <PTP name> Eg: 1/1/7(1/1/7 is the PTP name) |
| Nokia 7210 SAS-D | <PTP name> Eg: 1/1/7(1/1/7 is the PTP name) |
| Ciena OME 6500 | Shelf AID suffix-#(number 1 to 88) (CH\*) (\* - 1 to 88)) Ex: 51-1 (CH1) , 51-3(CH2),.....,51-85(COM) { Ref CMD44 } [87 & 88 are Mux/Demux ports] |
| RAD- ETX-2i 100G RAD | ETH 1/x (x is 1-8)  ETH 2/x (x is 1-8)  ETH 3/x (x is 1-4) |
| WAVESERVER 5 CHASSIS | Shelf-Slot Number-1 – direct port of OTR card  Support for Pluggable -TBD |
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# Open and Closed Issues

## Open Issues

| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
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## Closed Issues

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