

# Supported Optical Sources


- Supported Optical Sources, on page 1


# Supported Optical Sources

***Table 1: Feature History***

| Feature Name | Release Information | Feature Description |
|---|---|---|
| New Optical Source and Pluggable Support | Cisco ONP Release 4.2 | Optical Sources enable you to simulate the optical feasibility of the network with the 400G and other interfaces that are not natively modeled in Cisco ONP. The following Optical Sources are introduced in this release:<br>• ONS-CFP2D-400G-C-OpticalSources-V 2.mxd<br>• QDD-400G-ZRP-S-OpticalSources-V2.mxd |

Cisco ONP supports the following optical sources:

**Note** From Release 24.3.1, the optical sources for NCS 2000 networks are tagged with System Release to indicate from when the optical sources support the network release.

- OpticalSources_NCS2K_400GXP-LC_NCS4K-4H-OPW-QC2 DWDM Line Card
  - 400GXP_100G_25%_DE
  - 400GXP_200G_15%_DE
  - 100G-SD-FEC
  - 400GXP_100G_15%_DE
  - 200G-SD-FEC
  - 400GXP_100G_15%

- 400GXP_200G_15%
- 400GXP_200G_25%DE

- NCS1004_OpticalSources_V3
  - NCS1004_QPSK_SP_16QAM_200G_27%SDFEC_60GBd
  - NCS1004_SP_16QAM_300G_27%SDFEC_69GBd
  - NCS1004_QPSK_200G_27%SDFEC_69GBd
  - NCS1004_16QAM_32QAM_400G_27%SDFEC_62GBd
  - NCS1004_16QAM_400G_27%SDFEC_69GBd
  - NCS1004_SP_16QAM_16QAM_300G_27%SDFEC_60GBd
  - NCS1004_32QAM_500G_27%SDFEC_69GBd

- NCS1004_L_Band_OpticalSources_V3
  - NCS1004_L_200G_QPSK_27%SDFEC_69GBd
  - NCS1004_L_200G_QPSK_SP_16QAM_27%SDFEC_60GBd
  - NCS1004_L_300G_SP_16QAM_16QAM_27%SDFEC_60GBd
  - NCS1004_L_300G_SP_16QAM_27%SDFEC_69GBd
  - NCS1004_L_400G_16QAM_32QAM_27%SDFEC_62GBd
  - NCS1004_L_400G_16QAM_27%SDFEC_69GBd

- QDD and CFP2-DCO variants
  - **ONS-CFP2D-400G-C-OpticalSources-V2.mxd**[1]
    - CFP2_200OR_TXP_FOIC2_OFEC_15_DE_ON_4Q_1S_BR63_1
    - CFP2_300OR_TXP_FOIC3_OFEC_15_DE_ON_8Q_1S_BR63_1
    - CFP2_400OR_TXP_FOIC4_OFEC_15_DE_ON_16Q_1S_BR63_1
  - **ONS-CFP2D-400G-C-OpticalSources-V2.mxd**[2]
    - CFP2_300ZR+_MXP_GAUI8_OFEC_15_DE_ON_8Q_0S_BR60_1
    - CFP2_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_8Q_1E_BR40_1
    - CFP2_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_16Q_1E_BR30_1
    - CFP2_400ZR_TXP_GAUI8_CFEC_15_DE_ON_16Q_0S_BR59_8
    - CFP2_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_4Q_0S_BR60_1
    - CFP2_100ZR+_TXP_GAUI2_OFEC_15_DE_ON_4Q_1S_BR30_1

[1] The optical source interfaces are supported for SSON networks.
[2] The optical source interfaces are supported for SSON and non-SSON networks.

- CFP2_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_4Q_1S_BR60_1
- CFP2_400ZR+_TXP_GAUI8_OFEC_15_DE_ON_16Q_1E_BR60_1
- CFP2_300ZR+_MXP_GAUI8_OFEC_15_DE_ON_8Q_1E_BR60_1
- CFP2_400ZR+_TXP_GAUI8_OFEC_15_DE_ON_16Q_0S_BR60_1
- CFP2_100OR_TXP_FOIC1_OFEC_15_DE_ON_4Q_1S_BR31_6
- CFP2_200OR_TXP_FOIC2_OFEC_15_DE_ON_8Q_1S_BR42_1
- CFP2_200OR_TXP_FOIC2_OFEC_15_DE_ON_16Q_1E_BR31_6

- **QDD-400G-ZRP-S-OpticalSources-V2.mxd**[2]
  - QDD_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_4Q_1S_BR60_1
  - QDD_400ZR_TXP_GAUI8_CFEC_15_DE_ON_16Q_0S_BR59_8
  - QDD_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_4Q_0S_BR60_1
  - QDD_400ZR+_TXP_GAUI8_OFEC_15_DE_ON_16Q_1E_BR60_1
  - QDD_400ZR+_TXP_GAUI8_OFEC_15_DE_ON_16Q_0S_BR60_1
  - QDD_300ZR+_MXP_GAUI8_OFEC_15_DE_ON_8Q_1E_BR60_1
  - QDD_400ZR+_TXP_GAUI8_OFEC_15_DE_ON_16Q_0E_BR60_1
  - QDD_300ZR+_MXP_GAUI8_OFEC_15_DE_ON_8Q_0E_BR60_1
  - QDD_100ZR+_TXP_GAUI2_OFEC_15_DE_ON_4Q_1S_BR30_1
  - QDD_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_16Q_1E_BR30_1
  - QDD_300ZR+_MXP_GAUI8_OFEC_15_DE_ON_8Q_0S_BR60_1
  - QDD_200ZR+_MXP_GAUI2_OFEC_15_DE_ON_8Q_1E_BR40_1

  - From Release 24.3.1, CONP supports **QDD-400G-ZR-S** Optical Sources.
    QDD_400ZR_TXP_GAUI8_CFEC_15_DE_ON_16Q_0S_BR59_8

- Bright ZR+ Optical Sources
  - Bright-400G-FOIC4-OFEC-16QAM-1-E_BR63_14
  - Bright-400G-FOIC4-OFEC-16QAM-1-S_BR63_14
  - Bright-300G-FOIC3-OFEC-8QAM-1-S_BR63_14
  - Bright-200G-FOIC2-OFEC-QPSK-1-S_BR63_14
  - Bright-200G-FOIC2-OFEC-8QAM-1-E_BR42_09
  - Bright-200G-FOIC2-OFEC-16QAM-1-E_BR31_57
  - Bright-200G-FOIC2-OFEC-16QAM-1-S_BR31_57
  - Bright-100G-FOIC1-OFEC-QPSK-1-S_BR31_57

- Bright-100G-FOIC1-OFEC-DQPSK-1-S_BR31_57
- Bright-400G-400ZR-CFEC-16QAM-1-S_BR59_84
- Bright-400G-400ZRP-OFEC-16QAM-1-E_BR60_14
- Bright-400G-400ZRP-OFEC-16QAM-1-S_BR60_14
- Bright-300G-300ZRP-OFEC-8QAM-1-E_BR60_14
- Bright-300G-300ZRP-OFEC-8QAM-1-S_BR60_14
- Bright-200G-200ZRP-OFEC-QPSK-1-S_BR60_14
- Bright-200G-200ZRP-OFEC-8QAM-1-E_BR40_09
- Bright-200G-200ZRP-OFEC-16QAM-1-E_BR30_07
- Bright-100G-100ZRP-OFEC-QPSK-1-S_BR30_07
- Bright-100G-OTU4-SCFEC-DQPSK-1-S_BR27_95
- From Release 24.3.1, CONP supports the **DP04QSDD-HE0** Optical Sources.

  Bright_100G_100ZRP_OFEC_QPSK_1S_BR30_07
- Bright_200G_200ZRP_OFEC_16QAM_1E_BR30_07
- Bright_400G_400ZRP_OFEC_16QAM_1S_BR60_14
- Bright_200G_200ZRP_OFEC_8QAM_1E_BR40_09
- Bright_400G_400ZRP_OFEC_16QAM_1E_BR60_14
- Bright_300G_300ZRP_OFEC_8QAM_1E_BR60_14
- Bright_300G_300ZRP_OFEC_8QAM_1S_BR60_14
- Bright_200G_200ZRP_OFEC_QPSK_1S_BR60_14
- Bright_400G_400ZR_CFEC_16QAM_1S_BR59_84



**Note** Delete any of the old versions of Bright ZR+ optical sources that may be present in the server. The latest list of optical resources will be automatically loaded after Cisco ONP, Release 5.1 software is installed.

- Bright_ZRP_OpticalSources_V2

  The Rx OSNR sensitivity is improved for the *Bright_400G_400ZRP_OFEC_16QAM_1E_BR60_14* interface in the new version.

  The latest list of optical resources will be automatically loaded after Cisco ONP, Release 5.2 software is installed.

- CIM8_OpticalSource_V10
  - CIM8_900G_15FEC_Eth_ZR_BR138

- CIM8_700G_15FEC_Eth_ZR_BR128
- CIM8_800G_15FEC_Eth_ZR_BR108
- CIM8_800G_15FEC_Eth_ZR_BR138
- CIM8_900G_15FEC_Eth_ZR_BR118
- CIM8_1000G_15FEC_Eth_ZR_BR128
- CIM8_1000G_15FEC_Eth_ZR_BR138
- CIM8_800G_15FEC_Eth_ZR_BR118
- CIM8_800G_15FEC_Eth_ZR_BR128
- CIM8_400G_15FEC_Eth_ZR_BR88
- CIM8_400G_15FEC_Eth_ZR_BR128
- CIM8_500G_15FEC_Eth_ZR_BR88
- CIM8_500G_15FEC_Eth_ZR_BR128
- CIM8_600G_15FEC_Eth_ZR_BR98
- CIM8_600G_15FEC_Eth_ZR_BR128
- CIM8_700G_15FEC_Eth_ZR_BR98
- CIM8_400G_15FEC_Eth_ZR_BR108
- CIM8_900G_L_15FEC_Eth_ZR_BR138
- CIM8_800G_L_15FEC_Eth_ZR_BR138
- CIM8_400G_L_15FEC_Eth_ZR_BR128
- CIM8_500G_L_15FEC_Eth_ZR_BR138
- CIM8_1000G_L_15FEC_Eth_ZR_BR138
- CIM8_700G_L_15FEC_Eth_ZR_BR138
- CIM8_600G_L_15FEC_Eth_ZR_BR138

- From Release 24.3.1, CONP supports the CIM8 Optical Sources:
  - CIM8_600G_15FEC_Eth_ZR_BR138
  - CIM8_1200G_15FEC_Eth_ZR_BR138
  - CIM8_700G_15FEC_Eth_ZR_BR138
  - CIM8_500G_15FEC_Eth_ZR_BR138
  - CIM8_1100G_15FEC_Eth_ZR_BR138

**Note** NCS 1004 is supported as an optical source.

**Note** The following optical source files are not supported in NCS 2000 Release 11.0:

- NCS1004_16QAM_32QAM_400G_27%SDFEC_62GBd
- NCS1004_QPSK_SP_16QAM_200G_27%SDFEC_60GB

Hence, we recommend you to upgrade the system release of the network to Release 11.1, or force the optical source files that are supported for the Release 11.0.