

Supported Optical Sources

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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: • ONS-CFP2D-400G-C-OpticalSources-V 2.mxd • 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.

- From Release 25.1.1, CONP supports the CIM8 Optical Sources:

  CIM8_OpticalSource_v12

- CIM8_400G_15FEC_Eth_ZR_BR108
- CIM8_400G_15FEC_Eth_ZR_BR130
- CIM8_400G_15FEC_Eth_ZR_BR88
- CIM8_500G_15FEC_Eth_ZR_BR128
- CIM8_500G_15FEC_Eth_ZR_BR88
- CIM8_600G_15FEC_Eth_ZR_BR128
- CIM8_600G_15FEC_Eth_ZR_BR98
- CIM8_700G_15FEC_Eth_ZR_BR98
- CIM8_700G_15FEC_Eth_ZR_BR128
- CIM8_800G_15FEC_Eth_ZR_BR108
- CIM8_800G_15FEC_Eth_ZR_BR118
- CIM8_800G_15FEC_Eth_ZR_BR128
- CIM8_800G_15FEC_Eth_ZR_BR138
- CIM8_900G_15FEC_Eth_ZR_BR118
- CIM8_900G_15FEC_Eth_ZR_BR138
- CIM8_1000G_15FEC_Eth_ZR_BR128
- CIM8_1000G_15FEC_Eth_ZR_BR138
- CIM8_1100G_15FEC_Eth_ZR_BR138
- CIM8_1200G_15FEC_Eth_ZR_BR138
- CIM8_500G_15FEC_Eth_ZR_BR138
- CIM8_600G_15FEC_Eth_ZR_BR138
- CIM8_700G_15FEC_Eth_ZR_BR138

1. Delphi_ULH_Optical_Source_v2 (new)
   - Delphi-400G-ULH_OpenZR_16Q_OS_E_60_1
   - Delphi-400G-ULH_OpenZR_16Q_OS_HB_60_1
   - Delphi-400G-ULH_FlexO-4e_OS_65_7
   - Delphi-400G-ULH_FlexO-4_MPCS_OS_69_1
   - Delphi-400G-ULH_FlexO-4e_MPCS_OS_75
   - Delphi-400G-ULH_FlexO-4e_MPCS_OS_78_9
   - Delphi-400G-ULH_FlexO-4_MPCS_OS_87_3
   - Delphi-400G-ULH_FlexO-4e_MPCS_OS_87_4

- Delphi-400G-ULH_FlexO-4e_MPCS_OS_97_9
- Delphi-400G-ULH_FlexO-4e_QPSK_NOS_OR_118_2
- Delphi-400G-ULH_OpenZR_16Q_OS_LA_60_1
- Delphi-400G-ULH_FlexO-4_MPCS_OS_100_8

Pluto_QSFP28_100G_Optical_Source_v1 (new)

- QSFP28_100G_SC_FEC_7_QPSK_BR28



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.