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ONS 15454 SONET MSPP Hardware and Software Compatibility Matrix

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Introduction

This document provides a hardware and software compatibility matrix for the Cisco ONS 15454 SONET Multiservice Provisioning Platform (MSPP).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Transport Manager (CTM)
- Cisco Transport Controller (CTC)
- Sun Java Runtime Environment (JRE)

Components Used

The information in this document is based on these software and hardware versions:

- CTC version 2.20.0x through 6.0
- CTM version 2.1.x through 4.7
- JRE version 1.2.2, 1.3.1_01 and 1.4.2

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Hardware and Software Compatibility

JRE Compatibility

This table shows JRE compatibility with a given software release for the ONS 15454 SONET MSPP:

ONS Software Release	JRE 1.2.2 Compatible	JRE 1.3 Compatible	JRE 1.4 Compatible
ONS 15454 Release 2.2.1 and earlier	Yes	No	No
ONS 15454 Release 2.2.2	Yes	Yes	No
ONS 15454 Release 3.0	Yes	Yes	No
ONS 15454 Release 3.1	Yes	Yes	No
ONS 15454 Release 3.2	Yes	Yes	No
ONS 15454 Release 3.3	Yes	Yes	No
ONS 15454 Release 3.4	No	Yes	No
ONS 15454 Release 4.0 ¹	No	Yes	No
ONS 15454 Release 4.1	No	Yes	No
ONS 15454 Release 4.5	No	Yes	No
ONS 15454 Release 4.6	No	Yes	Yes
ONS 15454 Release 5.0	No	No	Yes
ONS 15454 Release 6.0	No	No	Yes

¹ Software releases 4.0 and later notify you if your PC or UNIX workstation runs an older version of the JRE.

Common-Control Card Software Release Compatibility

This table lists the Cisco Transport Controller (CTC) software release compatibility for each common-control card:

Card	R2.2.1	R2.2.2	R3.0.1	R3.1	R3.2	R3.3	R3.4	R4.0	R4.1	R4.5	R4.6	R4.7	R5.0	R6.0
TCC+	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-
TCC2	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TCC2P	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	-	-
XCVT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
XC10G	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
XC-VXC-10G	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
AIC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AIC-I	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AEP	-	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Common-Control Card Cross-Connect Compatibility

This table lists the cross-connect card compatibility for each common-control card:

Card	XCVT Card	XC10G Card ¹	XC-VXC-10G Card ¹
TCC+ ²	Yes	Yes	-
TCC2	Yes	Yes	Yes

TCC2P	Yes	Yes	Yes
XC	³	³	³
XCVT	Yes	³	³
XC10G	³	Yes	³
XC-VXC-10G	³	³	Yes
AIC-I	Yes	Yes	Yes
AEP	Yes	Yes	Yes

¹ Requires SA-ANSI or SA-HD shelf assembly.

² The TCC+ is not compatible with Software R4.5 or greater.

³ These cross-connect cards are compatible only during an upgrade.

Electrical Card Software Release Compatibility

This table lists the CTC software compatibility for each electrical card:

Electrical Card	R2.2.2	R3.0.1	R3.1	R3.2	R3.3	R3.4	R4.0	R4.1	R4.5	R4.6	R4.7	R5.0	R6.0
EC1-12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS1-14	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS1N-14	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS1/E1-56	-	-	-	-	-	-	-	-	-	-	-	-	Yes
DS3-12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes

DS3N-12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS3-12E	Yes ¹	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS3N-12E	Yes ¹	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS3XM-6 (Transmux)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS3XM-12 (Transmux)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
DS3/EC1-48	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes
DS3i-N-12	-	-	-	-	-	-	-	Yes (4.1.2)	-	Yes	-	Yes	Yes

Use Software R3.0 or later to enable all enhanced performance monitoring functions on the DS-3E cards. With Software R2.2.2, the DS-3E cards operate as the older DS-3 cards without enhanced performance monitoring.

Electrical Card Cross-Connect Compatibility

This table lists the cross-connect card compatibility for each electrical card:

Electrical Card	XCVT Card	XC10G Card ¹	XC-VXC-10G Card ¹
EC1-12	Yes	Yes	Yes
DS1-14	Yes	Yes	Yes
DS1N-14	Yes	Yes	Yes
DS3-12	Yes	Yes	Yes
DS3N-12	Yes	Yes	Yes

DS3-12E	Yes	Yes	Yes
DS3N-12E	Yes	Yes	Yes
DS3/EC1-48	-	Yes	Yes
DS3XM-6 (Transmux)	Yes	Yes	Yes
DS3XM-12 (Transmux)	Yes	Yes	Yes
DS3i-N-12	Yes	Yes	Yes
DS1/E1-56	Yes	Yes	Yes

¹ Requires a 15454-SA-ANSI or 15454-SA-HD shelf assembly.

Optical Card Software Release Compatibility

This table lists the CTC software compatibility for each optical card:

Optical Card	R2.2.1	R2.2.2	R3.0.1	R3.1	R3.2	R3.3	R3.4	R4.0	R4.1	R4.5	R4.6	R4.7	R5.0	R6.0
OC3 IR 4 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC3 IR 4/STM1 SH 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC3 IR /STM1 SH 1310-8	-	-	-	-	-	-	-	Yes	Yes	-	Yes	-	Yes	Yes
OC12 IR/STM4 SH 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC12 IR 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC12 LR 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC12 LR 1550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes

OC12 LR/STM4 LH 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC12 LR/STM4 LH 1550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC12 IR/STM4 SH 1310-4	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 IR 1310	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 LR 1550	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 IR/STM16 SH AS 1310 ²	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 LR/STM16 LH AS 1550 ³	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 ELR/STM16 EH 100 GHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC48 ELR 200 GHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC192 SR/STM64 IO 1310	-	-	-	-	-	-	-	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC192 IR/STM64 SH 1550	-	-	-	-	-	-	-	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC192 LR/STM64 LH 1550 (15454-OC192LR1550)	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC192 LR/STM64 LH 1550 (15454-OC192-LR2)	-	-	-	-	-	-	-	Yes	Yes	Yes	-	Yes	-	Yes	Yes
OC192 LR/STM64 LH ITU 15xx.xx	-	-	-	-	-	-	-	Yes	Yes	Yes	-	Yes	-	Yes	Yes

15454_MRC-12	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
OC192SR1/STM64IO Short Reach and OC192/STM64 Any Reach ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes

¹ DWDM-only release.

² In order to enable OC-192 and OC-48 any-slot card operation, use the XC10G or XC-VXC-10G card, the TCC+/TCC2/TCC2P card, Software R3.1 or later, and the 15454-SA-ANSI or 154545-SA-HD shelf assembly. Note that the TCC+ card is not compatible with Software 4.5 or later.

³ In order to enable OC-192 and OC-48 any-slot card operation, use the XC10G or XC-VXC-10G card, the TCC+/TCC2/TCC2P card, Software R3.1 or later, and the 15454-SA-ANSI or 154545-SA-HD shelf assembly. Note that the TCC+ card is not compatible with Software 4.5 or later.

⁴ These cards are designated as OC192-XFP in CTC.

Optical Card Cross-Connect Compatibility

This table lists the cross-connect card compatibility for each optical card:

Optical Card	XCVT Card	XC10G Card ¹	XC-VXC-10GCard ¹
OC3 IR 4 1310	Yes	Yes	Yes
OC3 IR 4/STM1 SH 1310	Yes	Yes	Yes
OC3 IR /STM1 SH 1310-8	-	Yes	Yes
OC12 IR 1310	Yes	Yes	Yes
OC12 LR 1310	Yes	Yes	Yes
OC12 LR 1550	Yes	Yes	Yes

OC12 IR/STM4 SH 1310	Yes	Yes	Yes
OC12 LR/STM4 LH 1310	Yes	Yes	Yes
OC12 LR/STM4 LH 1550	Yes	Yes	Yes
OC12 IR/STM4 SH 1310-4	-	Yes	Yes
OC48 IR 1310	Yes	Yes	Yes
OC48 LR 1550	Yes	Yes	Yes
OC48 IR/STM16 SH AS 1310	Yes ²	Yes	Yes
OC48 LR/STM16 LH AS 1550	Yes ²	Yes	Yes
OC48 ELR/STM16 EH 100 GHz	Yes	Yes	Yes
OC48 ELR 200 GHz	Yes	Yes	Yes
OC192 SR/STM64 IO 1310	-	Yes	Yes
OC192 IR/STM64 SH 1550	-	Yes	Yes
OC192 LR/STM64 LH 1550	-	Yes	Yes
OC192 LR/STM64 LH ITU 15xx.xx	-	Yes	Yes
OC192SR1/STM64 IO Short Reach and OC192/STM64 Any Reach (OC192-XFP cards)	-	Yes	Yes
15454_MRC-12	Yes	Yes	Yes

¹ Requires a 15454-SA-ANSI or 15454-SA-HD shelf assembly.

² Requires Software Release 3.2 and later in Slots 5, 6, 12, 13.

Ethernet Card Software Compatibility

This table lists the CTC software compatibility for each Ethernet card:

Card	R2.2.1	R2.2.2	R3.0.1	R3.1	R3.2	R3.3	R3.4	R4.0	R4.1	R4.5	R4.6	R4.7	R5.0	R6.0
E100T-12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
E1000-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
E100T-G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
E1000-2-G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
G1000-4	-	-	-	-	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
G1K-4	-	-	-	-	Yes	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
ML100T-12	-	-	-	-	-	-	-	Yes	Yes	-	Yes	-	Yes	Yes
ML100X-8	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
ML1000-2	-	-	-	-	-	-	-	Yes	Yes	-	Yes	-	Yes	Yes
CE-100T-8	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes

Ethernet Card Cross-Connect Compatibility

This table lists the cross-connect card compatibility for each Ethernet card:

Card	XCVT Card	XC10G Card ¹	XC-VXC-10G Card ¹
E100T-12	Yes	-	-
E1000-2	Yes	-	-
E100T-G	Yes	Yes	Yes

E1000-2-G	Yes	Yes	Yes
G1K-4	Yes, in Slots 5, 6, 12, 13	Yes	Yes
ML100T-12	Yes, in Slots 5, 6, 12, 13	Yes	Yes
ML1000-2	Yes, in Slots 5, 6, 12, 13	Yes	Yes
ML100X-8	Yes, in Slots 5, 6, 12, 13	Yes	Yes
CE 100T-8	Yes	Yes	Yes

¹ Requires a 15454-SA-ANSI or 15454-SA-HD shelf assembly.

SAN Card Compatibility

This table shows cross-connect compatibility for each SAN card:

SAN Cards	XCVT Card	XC10G Card ¹	XC-VXC-10G Card ¹
FC_MR-4	Yes	Yes	Yes

¹ Requires SA-ANSI or SA-HD shelf assembly.

CTC/CTM Compatibility

This table lists CTM compatibility for each ONS15454 SONET software release.

CTC Version (SONET)	CTM Version
R2.20.0x (2.2.0)	CTM R2.1.x (w/CTC R2.1.3 - R2.2.2)
R3.00.0x (3.0)	CTM R3.0,3.2,4.0,4.1,4.6
R3.10.0x (3.1)	CTM R3.1,3.2

R3.20.0x (3.2)	CTM R3.1,3.2,4.0,4.1,4.6, 4.7
R3.30.0x (3.3)	CTM R3.1,3.2,4.0,4.1,4.6, R4.7
R3.40.0x (3.4)	CTM R3.2,4.0,4.1,4.6,4.7
R4.0.0x(4.0)	CTM R4.0,4.1,4.6, 4.7
4.1.0x(4.1)	CTM R4.1,4.6, 4.7
R4.6.0x (4.6)	CTM R4.6, 4.7
R 5.0x	CTM R5.0, 6.0
R6	CTM R6.0

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