

# Addendum: Additional VNE Driver Support for Cisco ANA 3.7.1

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This document contains information about new or enhanced Virtual Network Elements (VNE) drivers that became available after Cisco ANA 3.7.1 was released. These drivers can be downloaded and installed on Cisco ANA 3.7.1.

## Obtaining the New and Enhanced Device Drivers

To obtain this additional support, contact your Cisco representative.

The support described in the following topics can be downloaded and installed on Cisco ANA 3.7.1. The downloadable package provides new and enhanced device support for multiple device families (as described in the release note or readme that accompanies the download).

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**Note** Be sure to read the accompanying documentation that is available from the download site. That documentation contains the instructions for installing the software, after the download is complete.

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## Cisco Routers

The following topics provide information about additional support that is available for Cisco routers.

### Cisco Routers—Additional Network Elements

NE Type	Product Name	SysOID	ANA Version	Introduced in
CISCO1941W-A/K9	Cisco 1941W Integrated Services Router	.1.3.6.1.4.1.9.1.1095	3.7.1	3.7.1.0.4
CISCO1941W-E/K9	Cisco 1941W Integrated Services Router	.1.3.6.1.4.1.9.1.1172	3.7.1	3.7.1.0.4
CISCO1941W-P/K9	Cisco 1941W Integrated Services Router	.1.3.6.1.4.1.9.1.1173	3.7.1	3.7.1.0.4
CISCO1941W-N/K9	Cisco 1941W Integrated Services Router	.1.3.6.1.4.1.9.1.1174	3.7.1	3.7.1.0.4

CISCO1941W-C/K9	Cisco 1941W Integrated Services Router	.1.3.6.1.4.1.9.1.1220	3.7.1	3.7.1.0.4
CISCO1941/K9	Cisco 1941 Integrated Services Router	.1.3.6.1.4.1.9.1.1047	3.7.1	3.7.1.0.4
Cisco ASR 1013	Cisco ASR 1013 Router	.1.3.6.1.4.1.9.1.1166	3.7.1	3.7.1.0.4

## Cisco 1900 Series Mobile Wireless Routers —Additional Support

### Cisco ISR 1941—Supported Software Versions

Software Version	ANA Version	Introduced in
15.1(1)T	3.7.1	3.7.1.0.4
15.1(1)T1	3.7.1	3.7.1.0.4

### Cisco ISR 1941—Supported Topologies

Topology Type	Link Type	ANA Version	Introduced in
Business	Business	3.7.1	3.7.1.0.4
Ethernet	Ethernet	3.7.1	3.7.1.0.4
BFD	BFD	3.7.1	3.7.1.0.4
VPN (IPv6)	VPN	3.7.1	3.7.1.0.4
Physical Layer	Physical Layer	3.7.1	3.7.1.0.4

## Cisco ISR 1941—Supported Modules

<b>Module Name</b>	<b>ANA Version</b>	<b>Module Description</b>	<b>Introduced in</b>
HWIC-1GE-SFP	3.7.1	High Speed WAN Interface Card - 1 Port Gigabit Ethernet	3.7.1.0.4
GLC-LH-SM	3.7.1	1000BASE-LX/LH long-wavelength/long haul; without DOM	3.7.1.0.4
PWR-1941-2901-AC	3.7.1	Cisco 1941 C2901 AC Power Supply	3.7.1.0.4
PWR-1941-POE	3.7.1	Cisco 1941 AC Power Supply with Power Over Ethernet (Both system & spare)	3.7.1.0.4

## Cisco ISR 1941—Supported Technologies

<b>Technologies</b>	<b>ANA Version</b>	<b>Introduced in</b>
ARP	3.7.1	3.7.1.0.4
IP	3.7.1	3.7.1.0.4
BGP	3.7.1	3.7.1.0.4
OSPF	3.7.1	3.7.1.0.4
RIP	3.7.1	3.7.1.0.4
BFD	3.7.1	3.7.1.0.4
VLAN (IEEE802.1Q)	3.7.1	3.7.1.0.4
Q-in-Q	3.7.1	3.7.1.0.4
Ethernet Channel	3.7.1	3.7.1.0.4

Link-OAM	3.7.1	3.7.1.0.4
ATM	3.7.1	3.7.1.0.4
BFD	3.7.1	3.7.1.0.4

## Cisco 2900 Series Integrated Services Routers —Additional Support

### Cisco ISR 2900—Supported Software Versions

Software Version	ANA Version	Introduced in
15.1(1)T1	3.7.1	3.7.1.0.4

### Cisco ISR 2900—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
SM-D-ES2-48	3.7.1	48 10/100 Ethernet port, double-wide Layer 2 enhanced EtherSwitch service module	3.7.1.0.4
SM-D-ES3-48-P	3.7.1	48 10/100 Ethernet port, double-wide Layer 2 and Layer 3 enhanced EtherSwitch service module, with PoE support	3.7.1.0.4
SM-D-ES3G-48-P	3.7.1	48 10/100/1000 Ethernet port, double-wide Layer 2 and Layer 3 enhanced EtherSwitch service module, with PoE support	3.7.1.0.4

## Cisco 3900 Series Integrated Services Routers —Additional Support

### Cisco ISR 3900 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
15.1(1)T1	3.7.1	3.7.1.0.4

### Cisco ISR 3900 Series—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
SM-D-ES2-48	3.7.1	48 10/100 Ethernet port, double-wide Layer 2 enhanced EtherSwitch service module	3.7.1.0.4
SM-D-ES3-48-P	3.7.1	48 10/100 Ethernet port, double-wide Layer 2 and Layer 3 enhanced EtherSwitch service module, with PoE support	3.7.1.0.4
SM-D-ES3G-48-P	3.7.1	48 10/100/1000 Ethernet port, double-wide Layer 2 and Layer 3 enhanced EtherSwitch service module, with PoE support	3.7.1.0.4

## Cisco 7600 Series Routers —Additional Support

### Cisco 7600 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(33)SRD5	3.7.1	3.7.1.0.4
12.2(33)SRE2	3.7.1	3.7.1.0.4

## Cisco 7600 Series—Supported Topologies

Topology Type	Link Type	ANA Version	Introduced in
N/A	N/A	3.7.1	3.7.1.0.4

## Cisco 7600 Series—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
SPA-1X10GE-L-V2	3.7.1	Cisco 1-Port 10GE LAN-PHY Shared Port Adapter	3.7.1.0.4
GLC-GE-100FX	3.7.1		3.7.1.0.4
SPA-2X1GE-SYNCE	3.7.1	2-port Synchronous Gigabit Ethernet Shared Port Adapter	3.7.1.0.4
SPA-1XOC12-ATM-V2	3.7.1	1-port OC12c SFP Optics ATM Shared Port Adapter	3.7.1.0.4
SPA-3XOC3-ATM-V2	3.7.1	3-port OC3c SFP Optics ATM Shared Port Adapter	3.7.1.0.4
SPA-1XOC3-ATM-V2	3.7.1	1-port OC3c SFP Optics ATM Shared Port Adapter	3.7.1.0.4

## Cisco CRS-1/CRS-3 Carrier Routing System—Additional Support

### Cisco CRS-1/CRS-3 Supported Software Versions

Software Version	ANA Version	Introduced in
IOX 3.9.2	3.7.1	3.7.1.0.4
IOX 4.0.0	3.7.1	3.7.1.1.0

### Cisco CRS-1/CRS-3 Supported Modules

Module Name	ANA Version	Module Description	Introduced in
SFP-GE-L	3.7.1	1000BASE-LX/LH SFP transceiver module for MMF and SMF, 1300-nm wavelength, extended operating temperature range and DOM support, dual LC/PC connector	3.7.1.0.4
SFP-OC12-IR1	3.7.1	OC-12/STM-4 pluggable intermediate-reach (15 km) transceiver module, 1310-nm wavelength	3.7.1.0.4
SFP-OC12-LR1	3.7.1	OC-12/STM-4 pluggable long-reach (40 km) transceiver module, 1310-nm wavelength, LC connector	3.7.1.0.4
SFP-OC12-LR2	3.7.1	OC-12/STM-4 pluggable long-reach (80 km) transceiver module, 1550-nm wavelength, LC connector	3.7.1.0.4
SFP-OC12-MM	3.7.1	OC-12/STM-4 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, MMF, LC connector	3.7.1.0.4
SFP-OC12-SR	3.7.1	OC-12/STM-4 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, LC connector	3.7.1.0.4
SFP-OC3-IR1	3.7.1	OC-3/STM-1 pluggable intermediate-reach (15 km) transceiver module, 1310-nm wavelength, LC connector	3.7.1.0.4

		connector	
SFP-OC3-LR1	3.7.1	OC-3/STM-1 pluggable long-reach (40 km) transceiver module, 1310-nm wavelength, LC connector	3.7.1.0.4
SFP-OC3-LR2	3.7.1	OC-3/STM-1 pluggable long-reach (80 km) transceiver module, 1550-nm wavelength, LC connector	3.7.1.0.4
SFP-OC3-MM	3.7.1	OC-3/STM-1 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, MMF, LC connector	3.7.1.0.4
SFP-OC3-SR	3.7.1	OC-3/STM-1 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, LC connector	3.7.1.0.4
XENPAK-10GB-ER+	3.7.1	10GBASE-ER XENPAK transceiver module for SMF, 1550-nm wavelength, SC duplex connector	3.7.1.0.4
XFP-10GLR-OC192SR	3.7.1	Cisco multirate XFP transceiver module for 10GBASE-LR Ethernet and OC-192/STM-64 short-reach (SR-1) Packet-over-SONET/SDH (POS) applications, SMF, dual LC connector	3.7.1.0.4
XFP-10G-MM-SR	3.7.1	Cisco 10GBASE-SR Ethernet XFP transceiver module for MMF, dual LC connector	3.7.1.0.4
14x10GBE-WL-XFP	3.7.1	Cisco CRS-3 14-Port 10GE LAN/WAN-PHY Interface Module	3.7.1.1.0
20x10GBE-WL-XFP	3.7.1	Cisco CRS-3 20x10GbE LAN/WAN Physical Interface Module	3.7.1.1.0
CRS-16-FC140/S	3.7.1	Cisco CRS-1 Series 16 Slots Fabric Card / Single (140G)	3.7.1.1.0
CRS-FP140	3.7.1	Cisco CRS Series Forwarding Processor 140G	3.7.1.1.0
CRS-MS-C-140G	3.7.1	Cisco CRS Series Modular Series Card 140G	3.7.1.1.0
1-100GBE	3.7.1	Cisco CRS Series 1X100GbE Interface Module	3.7.1.1.0
CRS-4-FC140/S	3.7.1	Cisco CRS Series 4 Slot Fabric Card / Single(140G)	3.7.1.1.0
CRS-8-FC140/S	3.7.1	Cisco CRS Series 8 Slot Fabric Card / Single(140G)	3.7.1.1.0
CFP-100G-LR4	3.7.1	100GBASE-LR4 CFP Module for SMF	3.7.1.1.0



XFP-10GLR-192 SR-L	3.7.1	Cisco multirate XFP transceiver module for 10GBASE-LR Ethernet and OC-192/STM-64 short-reach (SR-1) Packet-over-SONET/SDH (POS) applications, SMF, dual LC connector	3.7.1.1.0
XFP10GER-192I R-L	3.7.1	Cisco Multirate XFP transceiver module for 10GBASE-ER and OC-192/STM-64 IR-2 XFP Module for SMF, low power (2.5W)	3.7.1.1.0

## Cisco ASR 9000—Additional Support

### Cisco ASR 9000—Supported Software Versions

Software Version	ANA Version	Introduced in
IOX 3.9.2	3.7.1	3.7.1.0.4
IOX 4.0.0	3.7.1	3.7.1.1.0

### Cisco ASR 9000—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
A9K-2T20GE-L	3.7.1	2-Port 10GE, 20-Port GE Low Queue Combo Line Card, Requires XFPs for 10GE, SFPs for GE	3.7.1.0.4

## Cisco GSR 12000 XR —Additional Support

### Cisco GSR 12000 XR —Supported Software Versions

Software Version	ANA Version	Introduced in
IOX 3.9.2	3.7.1	3.7.1.0.4
IOX 4.0.0	3.7.1	3.7.1.1.0

## Cisco ASR 1000 Series Routers—Additional Support

### Cisco ASR 1000 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
XE 3.1.1S	3.7.1	3.7.1.0.4
XE 3.1.0S	3.7.1	3.7.1.0.4

### Cisco ASR 1000 Series—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
SPA-WMA-K9	3.7.1	SPA WebEx node for ASR 1000	3.7.1.0.4
SPA-1XOC12-ATM-V2	3.7.1	Cisco 1-Port OC12c/STM4c ATM Shared Port Adapter	3.7.1.0.4
ASR1000-SIP40	3.7.1	Cisco ASR 1000 Series SPA Interface Processor (SIP)40	3.7.1.0.4
ASR1000-ESP40	3.7.1	40-Gbps Cisco ASR 1000 Series ESP	3.7.1.0.4
ASR1013-PWR-AC	3.7.1	Cisco ASR 1013 AC power supply	3.7.1.0.4
ASR1013-PWR-DC	3.7.1	Cisco ASR 1013 DC power supply	3.7.1.0.4

## Cisco 7200 Series Routers —Additional Support

### Cisco 7200 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(33)SRD5	3.7.1	3.7.1.0.4
12.2(33)SRE2	3.7.1	3.7.1.0.4
12.2(33)SRE	3.7.1	3.7.1.0.4
12.2(33)SRE1	3.7.1	3.7.1.0.4
12.2(31)SB18	3.7.1	3.7.1.0.5
12.4(15)T1	3.7.1	3.7.1.0.5

### Cisco 7200—Supported Modules

Module Name	ANA Version	Module Description	Introduced in
PA-2E3	3.7.1	2 Port E3 Serial Port Adapter with E3 DSUs	3.7.1.1.1
PA-4T	3.7.1	4 Port Serial Port Adapter, Enhanced	3.7.1.1.1
PA-2H	3.7.1	2-Port HSSI Port Adapter	3.7.1.1.1
PA-E3	3.7.1	1 Port E3 Serial Port Adapter with E3 DSU	3.7.1.1.1
PA-8T-232	3.7.1	8-Port Serial, 232 Port Adapter	3.7.1.1.1
PA-2FE-FX	3.7.1	2-Port Fast Ethernet 100Base FX Port Adapter	3.7.1.1.1

## Cisco 10k Series Routers —Additional Support

### Cisco 10k Series—Supported Software Versions

Software Version	ANA Version	Introduced in
15.0(1)S1	3.7.1	3.7.1.0.4
15.0(1)S	3.7.1	3.7.1.0.4

## Cisco ME3600x Series Routers —Additional Support

### Cisco ME3600x Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(52)EY	3.7.1	3.7.1.0.4

### Cisco ME3600x Series—Supported Technologies

Technologies	ANA Version	Introduced in
Bridge	3.7.1	3.7.1.0.4

## Cisco ME3800x Series Routers —Additional Support

### Cisco ME3800x Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(52)EY	3.7.1	3.7.1.0.4

## Cisco ME3800x Series—Supported Technologies

Technologies	ANA Version	Introduced in
Bridge	3.7.1	3.7.1.0.4

## Cisco MWR 2900 Series Routers —Additional Support

### Cisco MWR 2941 Series—Supported Software Versions

Software Version	ANA Version	Introduced in VNE Monthly Update:
12.4(20)MR2	3.7.1	3.7.1.0.5

## Cisco Switches

This section includes the following information about additional suPoint Patchort that is available for Cisco switches:

## Cisco 3400 Metro Ethernet Switches —Additional Support

### Cisco ME 3400 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(55)SE	3.7.1	3.7.1.0.4

## Cisco 3750 Metro Ethernet Switches —Additional Support

### Cisco ME 3750 Series—Supported Software Versions

Software Version	ANA Version	Introduced in
12.2(55)SE	3.7.1	3.7.1.0.4

## Cisco Nexus 7000 Series Switches —Additional Support

### Cisco Nexus 7000 Series—Supported Technologies

<b>Technologies</b>	<b>ANA Version</b>	<b>Introduced in</b>
VRF	3.7.1	3.7.1.0.5