Readme for Cisco Prime Network 3.8 Device Package 1.0

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1 Contents of Cisco Prime Network 3.8 Device Package 1.0

Cisco Prime Network 3.8 Device Package (DP) 1.0 provides new and enhanced device support and bug fixes for Cisco VNEs. The new support and bug fixes are described in this Readme.

Note:

- DPs are cumulative. This means that all of the content supported in a previous DP version will continue to be supported in subsequent DP versions. In other words, a DP will contain new support *plus* all of the support from earlier DPs.
- Cisco Prime Network 3.8 DP 1.0 contains all of the support provided by the Device packages released post Cisco Prime Network 3.8
- Install the latest Cisco Prime Network 3.8 point patches / service patches on since some of the bug fixes in the VNE Drivers are dependent on these patches. (refer to sec 4.1 of readme me for details)
- At any point in time, to get the most up-to-date device support, install the most recent DP that is available from Cisco.com. To verify whether you have latest VNE driver files, refer to Section 3.

1.1 New Software/Feature for Cisco Network Elements

• This DP provides the following new NE support. Note that jar files are cumulative; a jar that is revised for a newer DP contains all of the support that was contained in the previous version of the jar. (For example, CiscoPrimeNetwork-3.8-DP5.tar contains all of the support that was delivered from CiscoPrimeNetwork-3.8-DP1.tar)

The following table describes the new NE support provided in Cisco Prime Network 3.8 DP 1.0 (CiscoPrimeNetwork-3.8-DP1.tar) .

Device Series	Software	New NE / Power supply/Modules supported	Feature/ Technologies	Name and Version of Jar File Containing the s/w Support
7206 VXR			ISIS*	cisco-70xx-v2.1.0.0.jar
7600	15.2(1)S 15.1(3)S2 12.2(33)SRE5			Cisco-76xx_65xxIOS- v2.1.0.0.jar
ASR 1000	XE 3.5.0S			Cisco-ASR10xx- v2.1.0.0.jar
ASR 9000	XR 4.1.2		Channelization - SDH(AU3/AU4) Mode Clocking Enhancement for SyncE MST-AG Script	Cisco-ASR90xx- v2.1.0.0.jar
CRS	XR 4.1.2	CRS-8-LCC-B CRS-8-PSH-DC-B CRS-8-PSH-AC-B	Channelization - SDH(AU3/AU4) Mode	Cisco-CRS-v2.1.0.0.jar

ME 2750			ISIS*	Cisco-3750ME-
ME 3750			1212	v2.1.0.0.jar
ME 6500			ISIS*	Cisco-Others-
IVIE 0300			1313	v2.1.0.0.jar
ME3600x/3800	15.1(2)EY1			Cisco-ME36XX-
x	13.1(2)[11			ME38XX-v2.1.0.0.jar
Catalyst 6500		6509 VE Chassis		Cisco-76xx_65xxIOS-
Catalyst 6500		0309 VE CHASSIS		v2.1.0.0.jar
			Events: cross-bar-fabric	
			insert	
			cross-bar-fabric remove	Cisco-Nexus70xx-
Nexus 7000	s 7000		FAN_DETECT	v2.1.0.0.jar
			FAN_REMOVED	V2.1.U.U.Jai
			linecard insert, remove	
			PS_FOUND,PS_REMOVE	
UBR 1000	12.2SBC			Cisco-UBR100xx-
OBK 1000	12.23BC			v2.1.0.0.jar
			Carrier Grade NAT (CGN)	· · · · · · · · · · · · · · · · · · ·
XR 12000	XR 4.1.2	DDD3 CMDC	Channelization -	Cisco-12xxx-
XK 12000	AR 4.1.2	PRP3-SMDC	SDH(AU3/AU4) Mode	v2.1.0.0.jar
		C.0.0 = 1 1		1.1101011 1 1 1

^{*}Following IMO's are supported as part of ISIS Technology - IISISProcess, IISISMetric, IISISInterface and IISISNeighbor

1.2 Cisco ANA 3.7.x DPs is not included in Cisco Prime Network 3.8 DP1

Content in ANA 3.7.x DP8 and ANA 3.7.x DP9 readme is available CiscoPrimeNetwork-3.8-DP1.tar.

Refer to Section 1.1 on the below Readme document (click on hyperlink)

Readme document for Cisco ANA 3.7.x Device Package 8.0 Readme document for Cisco ANA 3.7.x Device Package 9.0

1.3 New Support for Device Package Mechanism

This DP provides support for the Device Package update mechanism for the following devices. (This means that these devices can support VNE updates from the <u>Cisco ANA Software Download site on Cisco.com</u>.)

Device Series	DP Support Added in	Jar File Name and Version
None in the release		

1.4 New Reduced Polling (EVNE) Support

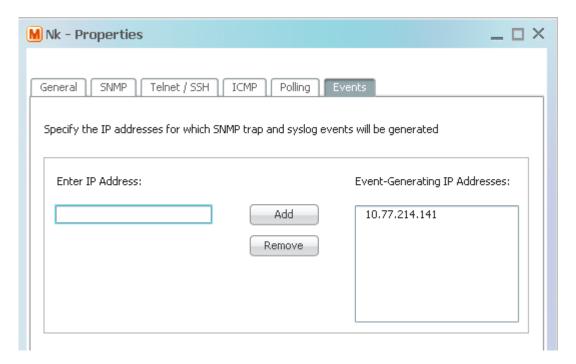
This DP provides reduced polling (event-based polling) support for the following devices. After installing the DP, when you create a VNE for these device families using the Cisco ANA Manage GUI client, you will be able to choose reduced polling for these VNEs. (For information on reduced polling, see the Cisco Active Network Abstraction Administrator Guide.

Device Series	EVNE Support Added in	Jar File Name and Version
Nexus 70xx	ANA 3.8 DP1	Cisco-Nexus70xx-v2.1.0.0.jar

1.4.1 Reduced VNE Polling support for Nexus 7000

Configuration Tasks for Nexus 7000 reduced polling VNE Creation

- Choose "Reduced Polling (event-based)* " in "Polling Method" pane under "Polling Tab" of the VNE Creation window
- All VDC should be configured with Management IP address.
- The management IP address of each VDC should be added in the Event- Generating IP addresses box which appears in the "Events" Tab of the VNE Creation window



• Logging should be enabled on Nexus 7000 (default vdc as well as non default vdc's) and add the IP address of Cisco ANA 3.7.3 Server as logging server host.

Nexus7K(config)# logging server <Cisco ANA 3.7.3 server IP address> 5 use-vrf <Management VRF>

1.5 New Support for Cisco ANA Configuration and Image Management

This DP provides the following new support for Cisco ANA Configuration and Image Management. For bug fixes, see Section 3.

Device Series	Software Release	Software Version	Functionality Supported	Device package jar file	Device Package release
NA					

2 Installing Cisco Prime Network 3.8 Device Package 1.0

For instructions on how to install (or uninstall) the DP, see the appropriate DP installation guide for your Cisco ANA release. The guides are available from two places:

 Go to <u>Cisco Prime Network 3.8 Software Download site on Cisco.com</u> (click on hyperlink) and navigate to <u>Cisco Prime Network 3.8 > Cisco Prime Network VNE Drivers</u>. Choose the latest Device Package release available on Cisco.com

Note: If you are installing the Device package on a Gateway and Unit setup, execute the following steps on the Prime Network Unit

- 1. Go the \$ANAHOME/Main/drivers directory in the Unit
- 2. Delete all the jars, by issuing the below command

PrimeNetworkServer:/export/home/network38/Main/drivers >> rm *.jar

(Refer to CSCtu15254 for further details)

For a complete list of Cisco Prime Network 3.8 documentation, see:

• <u>Cisco Prime Network 3.8 Documentation</u>

3 List of Latest Driver Files on Cisco Prime Network 3.8 server post installation of DP 1.0

The following list reflects the latest versions of VNE driver files for Cisco devices. This includes the drivers that were provided with the base release of Cisco Prime Network 3.8 (without any DPs installed). To check if the system has the latest driver files installed, log into the gateway server and compare the contents of your \$ANAHOME/Main/drivers directory with the list below.

Note: This table only lists the latest <u>Cisco</u> VNE driver files. Your directory may also contain third-party VNE drivers if you have installed any third-party VNE DPs.

Davies Savies	Iou Filo mone	DP version in which thejar file was
Device Series	Jar File name	changed

1000	Cisco-100xx-v2.0.1.0.jar	Cisco-ANA3.8.x-DP1
45xx	Cisco-45xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
49xx	Cisco-49xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
6500/7600	Cisco-76xx_65xxIOS-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
70xx	cisco-70xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
All Cisco Devices	Cisco-Commons-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
All XR Devices	Cisco-IOX-Commons-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ASR 10xx	Cisco-ASR10xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ASR 50xx	Cisco-ASR5000-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ASR 90xx	Cisco-ASR90xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
Cisco-Others	Cisco-Others-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
СРТ	Cisco-CPT-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
CRS	Cisco-CRS-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ISR 19xx	Cisco-ISR19xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ISR 29xx	Cisco-ISR29xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ME 3400	Cisco-3400ME-v2.0.1.0.jar	Cisco-ANA3.8.x-DP1
ME 3750	Cisco-3750ME-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ME36XX-ME38XX	Cisco-ME36XX-ME38XX-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
Mib2	Mib2-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
MWR29xx	Cisco-MWR29xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
NCCM feature for all devices	Cisco-NCCM_Core-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
NCCM feature for XR devices	Cisco-NCCM_IOX-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
Nexus 10xx	Cisco-Nexus10xx-v2.0.0.0.jar	Cisco-ANA3.8.x-DP1
Nexus 50xx	Cisco-Nexus50xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
Nexus 70xx	Cisco-Nexus70xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
UBR 100xx	Cisco-UBR100xx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
XR 12000	Cisco-12xxx-v2.1.0.0.jar	Cisco-ANA3.8.x-DP1
ACE4710	Cisco-ACE4710-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0
ASA50xx	Cisco-asa55xx-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0
ISR 39xx	Cisco-ISR39xx-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0

Cisco-Modules	Cisco-Modules-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0
UBR72xx	Cisco-UBR72xx-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0
UCS	Cisco-ucs-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0
Generic-ICMP	Generic-ICMP-v2.0.0.0.jar	Cisco-ANA3.8.x-DP0

^{*}See Appendix A.

4 Resolved Defects

This section lists all bugs that are resolved in this DP. Because bug fixes are cumulative and may be inherited from previous DPs, this section also lists which DP provided the resolution.

The following bugs are resolved in Prime Network 3.8 DP 1.0

S No	Bugs	Platform	Headline
1.	CSCtu54294	ASR 901	PTP State is not shown under PTP Service Page
2.	CSCtr54450	7600	NullPointerException flood the AVM log
3.	CSCtr74786	All XR devices	ipv4 ACL was missing, if ACL name for ipv4 and ipv6 same
4.	CSCtr96430	All XR devices	DSCP attribute in ACL doesnt get updated in ANA
5.	CSCts41347	ASR 1000	ASR1K: Missing VLAN sub interface down alarm in sub- interface down test
6.	CSCts67203	NCCM feature for XR devices	ASR9K: Wrong telnet command for flash-device-info registration
7.	CSCts79062	CRS	Channelized Serial shows Protocol Status 'Unknown'
8.	CSCtu54833	ASR 901	Attribute values are not getting update for PTP Interface Properties
9.	CSCtt14123	ASR 903	Rudy device always shows partially discoverd state in ANA
10.	CSCtt26671	XR 12000	EVNE: Card down (SPA) not clear after Card down/Card up(SIP) of GSR-IOX
11.	CSCtt29108	All XR devices	IPsec profile property is missing in case of 2 tunnels with same profile
12.	CSCtt33740	ASR 903	Rudy- Modules unsupported ticket is being received continuously
13.	CSCtt40362	All XR devices	Tengig SFP pluggable type is showing wrong as CFP
14.	CSCtt41323	NCCM feature for	"Unable to add the image to the repository" error in

		IOS devices	Image Mgmt
15.	CSCtt44090	Nexus 7000	cpu utilization polled every system interval on 7600, evne scheme
16.	CSCtt94994	Nexus 7000	IPV6 Routing Table not modeling for Nexus 7000.
17.	CSCtt99611	ASR 901	Admin and Oper Status fields are UP in ANA, even when the Port is Down
18.	CSCtu23875	NCCM for IOS devices	Image Distribution failed in External Repository
19.	CSCtu34126	CRS	No Driver support for T3/E3 syslog on CHOC12 cards for CRS1
20.	CSCtt99361	NCCM for IOS devices	Task result pop-up doesn't show the root cause of failure
21.	CSCtr03667	7600	CiscoRouterIPv6BGPLabelwithRouteParser throws NoSuchElementException
22.	CSCtr91490	7600	Label Switching table is not modelling explicit and implicit
23.	CSCts18491	СРТ	CPT EVNE is not working
24.	CSCts40086	СРТ	CPT no Serial number and improper module state is on NGXP after bug fix
25.	CSCts40215	СРТ	CDP is not discovering on CPT 600 device
26.	CSCtu56055	ASR 1000	ASR1001 15.1(2)S1 support is broken in the latest ANA 3.7.X DP
27.	CSCtu08360	СРТ	Port status not getting updated on CPT
28.	CSCtu24070	СРТ	CPT device not contains CPU usage registration.
29.	CSCtt25845	10000	10k flashfileEntries(logicalfiles) not modelling in 12.2.33.SB10
30.	CSCtu20393	ME 3400	ME-3400 device Missing pluggable ports are showing wrong media type.

Note: For information regarding the support provided in previous DPs, refer to the respective DP Readme files. Links are provided in Section 6.

4.1 Bug Resolutions That Require Cisco ANA Patches

The following bug resolutions are contained in this DP. However, to get the complete bug fix you must also install the indicated version (or later revision) of the Cisco ANA patch. The following table lists these bugs along with the required ANA patch, and the ANA bug identifier.

To obtain any ANA patches, contact your Cisco representative.

	Identifier	Platform	Headline	ANA Release in which it is the dependent ANA bug is fixed	Resolved in
1.	NA				

5 Open Bugs

5.1 Device-Specific Open Bugs

This sections lists the bugs on the devices because of which some features relating to VNE might not work.

Sno	Bug ID	Platform	Description	Impact	Workaround
1.	CSCtu11656	СРТ	Association happens to wrong interface for SNMP Link Down/Up Trap on CPT	While modeling Cisco Carrier Packet Transport (CPT), Association happens to wrong interface for SNMP Link Down/Up Trap.	None
2.	CSCtu00707	ME 34xx	Port security properties are not shown on ME3400 VNE	On Cisco ME3400 device VNE, the port security properties are not shown in the Port Properties windows as expected.	None
3.	CSCtt46916	Nexus 7000	ANA 3.8 OSPFv3 neighbors not modeling for Nexus 7000	In Cisco ANA 3.8 ,OSPFv3 neighbors table does not modeling for Nexus 7K devices and Corresponding AVM Log file throws NullPointerException.	None
4.	CSCtt43809	ME 38xx	OSPF neighbor down is not parsed from Cisco 3825	Load live automation setup (attached is the setup details - setup.xml)and Wait for the VNEs to get modeled then remove interface FastEthernet0/4 from P1-7204-Auto (169.255.6.10) and by that cause to OSPF neighbor down syslog from PE3-3825-Auto (169.255.6.3) and P1-7204-Auto (169.255.6.10). The syslog "OSPF neighbor down" is parsed from P1-7204-Auto but not from PE3-3825-Auto.	None

Sno	Bug ID	Platform	Description	Impact	Workaround
5.	CSCts79008	Nexus 5000	Memory usage information is missing in Nexus5K	On Cisco Nexus-5K devices, Memory usage information is missing and unable to view the specific memory.	None
6.	CSCts75628	XR 12000	CDP neighbors detail command does not list all IP entries in IOS XR.	In IOS XR Platform where as it is listed in IOS, by giving "CDP neighbors detail" command it does not list all the IP entries but all IP address entries should get reflected in CISCO-CDP-MIB.	None
7.	CSCts74887	XR 12000	MPLS LDP does not support IPv6 only intefaces On XR platform	On XR Platform by giving "Show MPLS LDP interfaces" command does not list IPv6 configured interfaces. Interfaces will be listed only after configuring IPv4 address on that Interface. Also, while configuring neighbor for MPLS LDp it will accept only IPv4 address. Support is required for IPv6 address also.	None
8.	CSCts48120	ME 38xx	MPLS LDP session up trap is not correlated to Link up ticket	On Cisco ME 38XX devices, Theticket "Link up" and all the expected events arriving the system and correlated to it except for "MPLS LDP session up" trap which arrived but is not correlated to the "link up" ticket. Instead the "MPLS LDP session down" trap. Which is correlated in the ticket is auto cleared	None
9.	CSCts31097	72xx	ATM IMA modeling issues for pa- ima-e1	On Cisco 72xx devices,ATM IMA will not model properly for pa-ima-e1 module,IfDesc is showing as ATM whereas ifType is showing as E1/T1.	None
10.	CSCts23284	Cat 49xx	Incorrect modeling of vlan interfaces on Catalyst WS-C4948	Create 1 VNE UPE3-4948-TX (60.0.1.111 product) and Wait for the VNE to get modeled, The sub interfaces on this VNE were modeled as VlanEncapMux instead of vlan Interface (for example under ports Gi1/11 and Gi1/12) As a result those sub interfaces does not appear in the GUI under the relevant bridge	None
11.	CSCtr95939	CRS	CSC PathTrace fails, due to wrong Top Label in the path.	In ANA v3.8(Build 641),Load the map called MPLS_VPN choose VNE:ce1-1841-ca and check loopback 1000 under Routing Entity in logical inventory. Perform Path Trace to destination: 10.100.0.253. Path Trace fails, it stuck on CORE10-CRS-1 Probably because of a wrong MPLS Top Label Parameter	None
12.	CSCtr56846	ASR 1000	ASR 1000 modeling never	On Cisco ASR 1K devices modeling never complete and Investigation state is Partially Discovered, even though Communication State states Device Reachable .	None

Sno	Bug ID	Platform	Description	Impact	Workaround
			complete		
13.	CSCtr42741	NCCM Feature for XR devices	Admin config shows Running config	In ANA v3.8.0 Build 1270,Open XR devices (nccm) and go to Configuration backup and look for "gsr-xr-4.1" on the device name then check for Admin config but it shows running-config.	None
14.	CSCtq61849	Nccm	Activating Image name should not be limited in command builder	In ANA Network Vision, Open command handler in device inventory view then Go to NEIMACEVerifyActivateImage and Run the script. It will ask for image name (rsp72043-adventerprisek9_dbg-mz.151-2.16.S0.5),with a limit of 20 character and not more.	None
15.	CSCtq61427	7600	registrations failed as error Unrecoverable / recoverable	Load the Cisco 7600 device with large config, Wait till device become Operational and run LCMDetailedReport for example :"debugScript.pl 888 /export/home/ana38/Main/scripts/LCMDetailedReport 10.56.22.130" it shows 148 registrations will failed as error Unrecoverable and error recoverable	None
16.	CSCtq36525	Nexus 7000	Nexus 7000 - Wrong PID is shown in telnet result for all SFP's available	On Cisco Nexus 7000 devices by telnetting the following command "show interface transceiver" returns wrong PID for transceiver/SFP available on each interface.	None

5.2 Cisco ANA-Specific Open Defects

S no	Bug ID	Description	Impact	Workaround
1.	CSCtw53760	Issue in channelization		
		modeling(AU3/AU4)_ASR9k_ANA373/38		
2.	CSCtt99335	Command builder does not work on CPT on the port connectors of NGXP	On Cisco CPT device Network Vision, Create a Command Builder script on a port of NGXPcard and execute the command. But the command fails because the same is being executed on the default context and not NGXP context.	None
3.	CSCtk00267	Migration: Legacy scripts from Cisco ANA 3.7.1 disappear after migration	In Cisco ANA 3.7.1 to 3.7.2 migration setup, Legacy scripts from Cisco ANA 3.7.1 disappear after migration.	None
4.	CSCtg56888	Missing VlanInterface notification when moving switchport to routed	On 10.56.101.33 device, verify hat gig 1/0/10 switch port mode is trunk, and the related vlanInterface appear under bridge 559. when moving switch port mode to routed, VlanInterface notification got missing.	None

5.	CSCtg54230	ATM IMA cards do not populate	In Cisco 7200 device OC3 POS	None
		Loopback, Framing, or Scrambling values	interface Loopback value is	
			not populated properly.Pa-	
			ima-e1 module is not populate	
			E1 properties like	
			loopback,Framing,Scrambling.	
6.	CSCtj92252	VNE restarts due to software version	When the Operator changes	None
		change	the current S/W version to	
			upgraded software version	
			,VNE restarts due to software	
			version change.	
7.	CSCtj44001	Cisco SFP-10GBase-CUxM does not	The Connector SFP-10GBase-	None
		return proper vendor OID	CUXM is returning the OID as	
			unknown instead of returning	
			correct vendor OID in entity	
			MIB. The connector cannot be	
			supported in ANA due to this	
			issue.	
8.	CSCth01054	Cisco ANA models Cisco 3750g fiber	While Modeling Cisco ANA	None
		optic ports as RJ45 ports	3750G the ports shown as RJ45	
			ports instead of fiber optic	
			ports.	
9.	CSCtj19233	Cisco RSP720 removal redundancy state	while testing TMX events on	None
		ticket issued only after reinsert	T4IL lab, By removing the	
			active RSP from a 76xx with	
			SRE0a will not issue "Cisco RF	
			unit state changed" tickets	
			until former active is	
			reinserted and reaches at least	
			"cold standby" state	
			•	

6 Related Documentation

The following documents provide information that is specific to DPs.

Document	Provides the Following Information on DPs		
Cisco Prime Network 3.8 User	Complete details about the ivne script and examples of how to use it,		
<u>Guide</u>	along with troubleshooting tips. There are separate administrator		
	guides for Cisco Prime Network 3.8		
Cisco Prime Network 3.8 VNE	List of VNEs supported in Cisco Prime Network 3.8		
Reference Guide			
Addendum: Additional Cisco VNE	A complete listing of all support that is provided by DPs for the Cisco		
Driver Support for Cisco Prime	Prime Network 3.8 releases. This is a companion document to the Cisco		
Network 3.8	Prime Network 3.8 VNE Reference Guide		

For a complete list of Cisco ANA documentation, see:

• <u>Cisco Prime Network 3.8 Documentation</u>

7 Appendix A

The following device series are supported by Cisco Cisco-Others-v2.1.0.0.jar.

Routers	Switches			
Cisco 1000 Series Routers	Cisco Catalyst 3500 XL Series Switches			
Cisco 800 Series Routers	Cisco Catalyst 3550 Series Switches			
Cisco 1600 Series Routers	Cisco Catalyst 3560 Series Switches			
Cisco 1700 Series Modular Access Routers	Cisco Catalyst 3750 Series Switches			
Cisco 1800 Series Integrated Services Routers	Cisco Catalyst 4000 Series Switches			
Cisco 2500 Series Routers	Cisco Catalyst 5000 Series Switches			
Cisco 2600 Series Multiservice Platform Routers	Cisco Catalyst 6500 Series (CatOS) Switches			
Cisco 2800 Series Integrated Services Routers	Cisco ME 6500 Series Ethernet Switches (6524)			
Cisco 3600 Series Multiservice Platform Routers	Cisco Service Control Engines			
Cisco 3700 Series Multiservice Access Routers				
Cisco 3800 Series Integrated Services Routers				
Cisco 4700 Series Routers				
Access Servers Gateways, Security Appliances, and Generic Devices				
Cisco Access Server 5800 Series				
Cisco AS5300 Series Universal Gateways				