IDU Updates

This appendix provides details about new features and devices that are supported in the Incremental Device Update (IDU) on Resource Manager Essentials 3.5.

To access IDU 13.0 on Essentials 3.5, log into Cisco.com and download it from http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-rme.

This appendix contains:

Baseline Configuration Compare Command feature

The new Baseline Configuration Compare Command feature in this release, lists the differences between versions of device configurations against a baseline configuration or a template.

This section contains the following:

Usage

To run the Baseline Configuration Compare command, enter:

cwconfig comparewithbaseline -u *userid* **-p** *password*

[**-d** *debuglevel*] [**-m** *email*] [**-l** *logfile*]

{**-device** *list* | **-view** *name* | **-device** *name*} [**-version** *version*]

{**-baseline** *baselinefile* **-outputdir** *outputdir*

-report *reportfile*} [**-generatecmdfile** *commandfile*]

[**-substitute** *mappingfile*]

[**-input** *argumentfile*] [**-continue**]

Argument Explanations

The explanations of the arguments in the baseline configuration command are given below:

Argument	Explanation
-u *userid*	CiscoWorks user name.
-p *password*	Password for the CiscoWorks username.
-d *debuglevel*	Debug level (1 - 5).
-m *email*	Email address to send the results.
-l *logfile*	File to log the results of the **cwconfig** command.

Argument	Explanation
-device *list*	One or more device names as a comma-separated list. Do not use this with the **-input** option.
-view *name*	Confines the devices search to the specified view.
-device *name*	Name of the device.
-version *version*	Configuration version number. Enter either a valid version number for the device or enter latest. If you do not enter a version number, the default of latest is taken.
-baseline *baselinefile*	Baseline file.
-outputdir *outputdir*	Directory containing the files with the missing commands.
-report *reportfile*	Filename report in XML format.
-generatecmdfile *commandfile*	Filename created for input to the cwconfig import command.
-substitute *mappingfile*	Filename containing the values for the parameters.
-input *argumentfile*	Text file containing arguments for multiple devices. Do not use this with the **-device** option.
-continue	Causes the command to continue running even if errors are encountered on devices.

You can specify the devices using either the **-device** or the **-view** option. To specify multiple devices, separate each device name with a comma. You can specify the version to be compared with the baseline file by using the **-version** option.

You can specify the value, “latest” for the **-version** option to compare the latest archived configuration of the devices with the baseline configuration. If you do not specify a value, the latest version is taken. You can specify the baseline configuration or template using the **-baseline** option.

After comparing the versions, all the missing commands for each of the devices or versions are written to a separate file created under a directory. This is the directory specified by the **-outputdir** option. This file name is in the following format:

Devicename **-Ver**-*version* **-Vs**-*Baselinefile*

For commands that are disallowed on the device, the negation of the commands will be generated and stored in the file. If they contain parameters, all commands that are in the device configuration that match this command pattern are taken and their negation commands are generated and stored in the file.

To specify the report file name, use the **-report** option. This generates a report in XML format, specifying versions of devices that are or are not compliant with the specified baseline file. It also lists the missing commands for the non-compliant devices or versions.

To download the missing commands onto the device to ensure compliance, use the **-generatecmdfile** option. This option logs entries to a command file. These entries are logged in the following format:

-device *Device name1* **-f** *file*

This is done for each of the non-compliant devices, with **-f** specifying the appropriate file, containing the missing commands. This file was created under the output directory, specified by the **-outputdir** option.

You can then use the **cwconfig import** command, specifying the command file as the value for the **-input** option, to download the missing commands onto the device.

Online Help

To access Online help enter:

```
cwconfig comparewithbaseline -help
```

Using Baseline Configuration Compare Command

Defining Baseline Templates

The baseline template can contain place-holders for device-specific values. These are called parameters. You must embed such parameters within a "[" and "]" with no spaces in between.

For example:

```
set snmp community read-only [read-only-community-name]
set snmp community read-write [read-write-community-name]
```

In this example, there are two place-holders in [read-only-community-name] and [read-write-community-name].

This means that the actual values for these two place holders are irrelevant as long as these two commands are on the device.

The rules for specifying the baseline template are:

- All the commands that are disallowed should begin with a (-).
- All commands that are mandatory can begin with a (+).
- Commands that do not begin with (-) are also treated as mandatory.
- Comments in the baseline file should begin with a "#".

For example:

```
#Mandatory
(+)set port disable [port-range]
(+)set port trap [port-range] enable
(+)set vtp domain [name] password [read-only-community-name-string]
(+)set vtp mode transparent
(+)set snmp community read-write [read-write-community-name-string]
#DisAllowed
(-)set snmp community read-only public
(-)set udld enable [Ports]
```

The last command in this example, verifies that "udld" is not enabled on any of the ports. To ensure this, the parameter [Ports] is used.

Substituting Parameters

If the commands to be downloaded onto the device contain parameters, you can specify the values for these parameters in a mapping file. You can specify the mapping file using the **-substitute** option.

Before writing the missing commands to the file, the parameters are substituted with the appropriate values as specified in the mapping file. The mapping file contains entries in the format specified below:

[**Device**:*Global]*

Parameter1=value1

Parameter2=value2

Parameter3=value3

Parameter4=value4

[**Device**:*Dev1*]

Parameter1=value11

Parameter2=value12

Parameter5=value15

Parameters specific to a device can be specified by entering them under the subject [**Device**:*Dev*].

If you do not specify a value for that device, then the values specified globally are taken. That is, the value under the subject [**Device**:*Global*], is taken. If there are no values specified even at the global level, then the parameters are retained.

In the above example, the values for the parameters *Parameter1, Parameter2, Parameter5* and *Parameter3* in the context of the device **Dev1** are *value11, value12, value15 and value3* respectively.

Note that the value for *Parameter3* is taken from the value specified globally whereas the values for *Parameter1* and *Parameter2* override the value specified globally.

Example of Using Baseline Configuration Command

The following is an example of using the Baseline Configuration Command to compare the latest configurations of 5 devices:
Cat-Dev1, Cat-Dev2, Cat-Dev3, Cat-Dev4 and Cat-Dev5
with the contents of the baseline template given below:

```
#Mandatory
(+)set logging console disable
(+)set vtp domain mydomain password [domain-password]
(+)set vtp mode transparent
(+)set snmp community read-write [read-write-community-name-string]
#DisAllowed
(-)set snmp community read-only public
(-)set udld enable [Ports]
(-)set errordetection inband disable
(-)set feature supmon enable
(-)set spantree macreduction disable
```

This baseline template is in a file, d:\temp\Baseline\BaseLineMandDis.cfg. With this template, you need the commands:

```
set logging console disable
set vtp mode transparent
```

to be in the configuration of the 5 devices. You also need a password for the vtp domain, mydomain. However, the value of this password is not important. Hence, this password is specified as a parameter, [**domain-password**] as shown below:

```
(+)set vtp domain mydomain password [domain-password]
```

Using the command,

```
(+)set snmp community read-write [read-write-community-name-string]
```

you need a read-write community string on the device. However, its value is not important.

With this template you do not need the following commands on the device

```
set snmp community read-only public
set errordetection inband disable
set feature supmon enable
set spantree macreduction disable
```

Using the command **(-)set udld enable [Ports]**, you have specified that none of the ports should have udld enabled. If udld is enabled on any of the ports, it is treated as a misconfiguration.

Running the Command

To run this command, enter:

cwconfig comparewithbaseline -u *username* **-p** *password* **-device Cat-Dev1,Cat-Dev2,Cat-Dev3,Cat-Dev4,Cat-Dev5 -baseline d:\temp\Baseline\BaseLineMandDis.cfg -report d:\temp\Baseline\MisConfig.xml -outputdir d:\temp\Baseline\output -generatecmdfile d:\temp\baseline\commandfile.txt -substitute d:\temp\Baseline\Mapping.ini**

Baseline Configuration Compare Report

After this command has been run successfully, the following report is generated.

```
**********************************************************************
<?xml version="1.0" ?>
<Report Name = "Baseline Compliance Report"
BaseLineFile="d:\temp\Baseline\BaseLineMandDis.cfg" NoOfDevices="5">
<StartTime>
Fri Jun 20 12:30:18 GMT+05:30 2003
</StartTime>
<Non-Compliant-Devices total="3">
<Device name="Cat-Dev1" Version ="latest">
<command> (+)set snmp community read-write
[read-write-community-name-string] </command>
<command> (-)set snmp community read-only public
</command>
<command> (-)set udld enable 2/34 </command>
<command> (-)set udld enable 3/48 </command>
<command> (-)set spantree macreduction disable </command>
</Device>
<Device name="Cat-Dev2" Version ="latest">
<command> (+)set snmp community read-write
[read-write-community-name-string] </command>
<command> (-)set snmp community read-only public
</command>
<command> (-)set spantree macreduction disable </command>
```

```
</Device>
<Device name="Cat-Dev3" Version ="latest">
<command> (+)set snmp community read-write
[read-write-community-name-string] </command>
<command> (-)set udld enable 2/34 </command>
<command> (-)set udld enable 3/48 </command>
<command> (-)set spantree macreduction disable </command>
</Device>
</Non-Compliant-Devices>
<Compliant-Devices total="2">
<Device name="Cat-Dev4" Version ="latest"> </Device>
<Device name="Cat-Dev5" Version ="latest"> </Device>
</Compliant-Devices>
<EndTime>
Fri Jun 20 12:30:29 GMT+05:30 2003
</EndTime>
</Report>
**********************************************************************
```

Report Description

In this report the following devices are compliant:

- Cat-Dev4
- Cat-Dev5

The following devices are non-compliant:

- Cat-Dev1
- Cat-Dev2
- Cat-Dev3

For the non-compliant devices, the commands in their configuration file that caused non-compliance are also listed.

For example, for the device Cat-Dev1, the non-compliance is caused by the following disallowed commands:

```
set snmp community read-only public
set udld enable 2/34
set udld enable 3/48
set spantree macreduction disable
```

For this device, non-compliance is also because it does not have a read-write community string.

For each of the non-compliant devices, the set of commands needed to make it compliant is generated. The parameters are replaced by the device-specific values, given in the mapping file. For further details, see Substituting Parameters.

For example, for the non-compliant device, Cat-Dev1, in the mapping file, d:\temp\Baseline\Mapping.ini, if there is value, mycompany, for the read-write-community-name-string the following set of commands is generated.

```
set snmp community read-write mycompany
set snmp community read-only
set udld disable 2/34
set udld disable 3/48
set spantree macreduction enable
```

These commands are stored in the file: d:\temp\Baseline\output\Cat-Dev1-Ver-latest-vs-BaseLineMandDis.cfg.

The following entries are logged in the generated command file: d:\temp\baseline\commandfile.txt, one, for each of the non-compliant devices. This file was specified using the **`-generatecmdfile`** option, in the **`cwconfig comparewithbaseline`** command.

-device Cat-Dev1-f d:\temp\Baseline\output\Cat-Dev1-Ver-latest-vs-BaseLineMandDis.cfg

-device Cat-Dev2 -f d:\temp\Baseline\output\Cat-Dev2-Ver-latest-vs-BaseLineMandDis.cfg

-device Cat-Dev3 -f d:\temp\Baseline\output\Cat-Dev3-Ver-latest-vs-BaseLineMandDis.cfgIn this example, the following files contain the commands required to make the devices Cat-Dev2 and Cat-Dev3 compliant:

- d:\temp\Baseline\output\Cat-Dev2-Ver-latest-vs-BaseLineMandDis.cfg
- d:\temp\Baseline\output\Cat-Dev3-Ver-latest-vs-BaseLineMandDis.cfg

To download the commands onto the respective devices, use the cwconfig import command:

`cwconfig import -u` *username* **`-p`** *password* **`import -input d:\temp\baseline\commandfile.txt`**

Limitations of Baseline Configuration Command

The limitations of Baseline Configuration Compare command are as follows:

- It does not take into account the order of commands.
- This approach supports only a flat list of baseline commands. That is, it cannot search for commands within a context. For example, searching for commands within an interface.
- Some of the commands have no negation. For example, set summertime recurring.

  In such cases, no negation commands are generated. The negation command generation rules are given in *$NMSROOT*/objects/cmf/data/negaterules.*category*

For further details see, the Online help of "Guidelines for Editing the configuration negaterules. devicetype File".

Supported Devices in IDU on RME 3.5

Table F-1 lists the devices supported in IDU on Essentials 3.5.

Note You have to download CiscoView 6.0 device packages separately for CiscoView 6.0 application to support these devices. You can download CiscoView 6.0 device packages from this location: http://www.cisco.com/cgi-bin/Software/CiscoView/cvplanner.cgi

For a list of all devices supported in CiscoWorks SNMS 1.5 and 1.5.1 see Supported Device Table on Cisco.com at http://cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/cwsnms/1_5/snms1_5.htm

Table F-1 Devices Supported in IDU Devices in RME 3.5

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Devices Supported in IDU 13.0							
Cisco Router 12000 Series	12010	1.3.6.1.4.1.9.1.348	Yes	Yes	Yes	Yes	Yes
Cisco Catalyst 3750 Series Switches	3750-24FS	1.3.6.1.4.1.9.1.516	Yes	Yes	Yes[2]	Yes	Yes
Cisco Access Server 5400 Series	AS5400 HPX	1.3.6.1.4.1.9.1.274	Yes	Yes	Yes[2]	Yes	Yes
Devices Supported in IDU 12.0							
Cisco Catalyst 3560 Series Switches	3560-24TS	1.3.6.1.4.1.9.1.633	Yes	Yes	Yes	Yes	12.2(20)EX
	3560-48TS	1.3.6.1.4.1.9.1.634	Yes	Yes	Yes	Yes	
Devices Supported in IDU 11.0							
Cisco Catalyst 7600 Series Switches	Catalyst 7609	1.3.6.1.4.1.9.5.55	Yes	Yes	Yes	Yes	8.1(3)
Cisco Content Engine Series	CE 511	1.3.6.1.4.1.9.1.595	Yes	Yes[1]	Yes	Yes	5.2.1.5
Cisco Gigabit Ethernet Switching Module	CGESM	1.3.6.1.4.1.11.2.3.7.11.33.3.1.1	Yes	Yes	Yes	Yes	12.2(25)SE
Devices Supported in IDU 10.0							
Cisco 1800 Series Routers	1841	1.3.6.1.4.1.9.1.620	Yes	Yes	Yes	Yes	12.3(8)T4

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Cisco 2800 Series Routers	2801	1.3.6.1.4.1.9.1.619	Yes	Yes	Yes	Yes	12.3(8)T4
	2811	1.3.6.1.4.1.9.1.576					
	2821	1.3.6.1.4.1.9.1.577					
	2851	1.3.6.1.4.1.9.1.578					
Cisco 3800 Series Routers	3825	1.3.6.1.4.1.9.1.543	Yes	Yes	Yes	Yes	12.3(11)T
	3845	1.3.6.1.4.1.9.1.544					
Cisco Intelligent Gigabit Ethernet Switch Module	IGESM	1.3.6.1.4.1.9.1.592	Yes	Yes	Yes	Yes	12.1(14)AY1
Cisco Catalyst 3560 Series Switches	3560G-24PS	1.3.6.1.4.1.9.1.614	Yes	Yes	Yes	Yes	12.2(20)SE3
	3560G-24TS	1.3.6.1.4.1.9.1.615					
	3560G-48PS	1.3.6.1.4.1.9.1.616					
	3560G-48TS	1.3.6.1.4.1.9.1.617					

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Cisco Catalyst 3750 Series Switches	3750-24ME	1.3.6.1.4.1.9.1.574	Yes	Yes	Yes	Yes	12.1(14) AX1
	3750G-24PS	1.3.6.1.4.1.9.1.516					12.2(20) SE3
	3750G-48TS						
	3750G-24TS-1U						
	3750G-48PS						
Cisco Catalyst 4000 Series Supervisor Module	SUP 2 Plus (20G)	—	Yes	Yes	Yes	Yes	12.2(20) EWA

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Devices Supported in IDU 9.0							
Cisco Aironet Devices	WMIC Bridge 3201	1.3.6.1.4.1.9.1.581	Yes	Yes	Yes	Yes	12.2(15)JK
	BR 1300	1.3.6.1.4.1.9.1.565					12.2(15)JA
Cisco Catalyst 6500 Series Switches	6509-NEB-A-IOS	1.3.6.1.4.1.9.1.534	Yes	Yes	Yes	Yes	12.1(20)E3
Cisco 7600 Series Routers	7613-IOS	1.3.6.1.4.1.9.1.528	Yes	Yes	Yes	Yes	12.2(17b)
Devices Supported in IDU 8.0							
Cisco Catalyst 4500 Series	4507 SUP V Redundancy	1.3.6.1.4.1.9.1.501	Yes[2]	Yes[2]	Yes[2]	Yes	12.2(18)
	4507 SUP V						
Cisco Catalyst 6000 Module	WLAN	–	No	No	No	Yes	c6svc-wlan-k9w7.2.1(1).bin
Cisco Content Service Switch	CSS 11501	1.3.6.1.4.1.2467.4.7	Yes	No	Yes	Yes	7.30(0)
	CSS 11503	1.3.6.1.4.1.2467.4.5	Yes[2]		Yes[2]		
	CSS 11506	1.3.6.1.4.1.2467.4.6					

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Cisco IAD Series Routers	IAD2431-1T1E1	1.3.6.1.4.1.9.1.548	Yes	Yes	Yes	Yes	12.2(15) ZJ3
	IAD2431-8FXS	1.3.6.1.4.1.9.1.546					
	IAD2431-16FXS	1.3.6.1.4.1.9.1.547					
	IAD2432-24FXS	1.3.6.1.4.1.9.1.549					
Cisco SOHO Series Routers	SOHO 78	1.3.6.1.4.1.9.1.383	Yes	Yes	Yes	Yes	12.2.1-XE2
Cisco 3750 Series Stack Switches	3750-24PS	1.3.6.1.4.1.9.1.516	Yes	Yes	Yes	Yes	12.2.18-SE (ED)
	3750-48PS						
	3750-16TD						
Cisco 800 Series Routers	811	1.3.6.1.4.1.9.1.395	Yes	Yes	Yes	Yes	12.2.11T
	813	1.3.6.1.4.1.9.1.396					
Network Analysis Module for Cisco 2600/3600 Series	NAM	1.3.6.1.4.1.9.1.562	Yes	Yes	Yes	Yes[3]	3.2(1A)
Devices Supported in IDU 7.0							
Cisco Aironet Devices	AP 350 IOS	1.3.6.1.4.1.9.1.552	Yes	Yes	Yes	Yes	12.2 (13) JA1
Cisco Catalyst 2900 Series Switches	2948G-GE-TX	1.3.6.1.4.1.9.5.62	Yes	Yes	Yes	Yes	8.2(1)GLX

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Cisco Catalyst 6000 Modules	X6380-NAM	1.3.6.1.4.1.9.5 .1.3.1.1.2.223	Yes	Yes	Yes	Yes	3.1[4]
	NAM-1	1.3.6.1.4.1.9.5 .1.3.1.1.2.914					
	NAM-2	1.3.6.1.4.1.9.5 .1.3.1.1.2.291					
	SSL	1.3.6.1.4.1.9.1 .554	Ye	Yes	Yes	Yes	2.1(0.38)
	MSFC3	1.3.6.1.4.1.9.1 .557	Yes	Yes	Yes	Yes	12.2(17a) SX1
Cisco 3560 Series Switches	3560-24PS-S	1.3.6.1.4.1.9.1 .563	Yes	Yes	Yes	Yes	12.1(19) EA1
	3560-24PS-E	1.3.6.1.4.1.9.1 .563					
	3560-48PS-S	1.3.6.1.4.1.9.1 .564					
	3560-48PS-E	1.3.6.1.4.1.9.1 .564					
Cisco 3700 Series Switches	3750-Stack (12 SFP)	1.3.6.1.4.1.9.1 .516	Yes	Yes	Yes	Yes	12.1 (19) EA1a
Cisco 7600 Series Routers	Cisco 7609	1.3.6.1.4.1.9.1 .509	Yes	Yes	Yes	Yes[5]	–
Cisco VG200 Series Gateways	VG224	1.3.6.1.4.1.9.1 .558	Yes	Yes	Yes	Yes	12.3(4)X D
Cisco Content Engine	CE 7305	1.3.6.1.4.1.9.1 .504	Yes	Yes[6,7]	Yes	Yes	ACNS 5.0
	CE 7325	1.3.6.1.4.1.9.1 .492					

Table F-1 Devices Supported in IDU Devices in RME 3.5 (continued)

Device Type	Devices/ Modules Supported	Sys objectID	Inventory Manager	Syslog Analyzer	Config. Mgmt.	Software Mgmt.	Minimum Software
Cisco Aironet 1400 Series	BR1410	1.3.6.1.4.1.9.1 .533	Yes	Yes	Yes	Yes	12.2(11) JA
Devices Supported in IDU 6.0							
Cisco SOHO Series Routers	SOHO 91	1.3.6.1.4.1.9.1 .498	Yes	Yes	Yes	Yes	12.2.8 YN
	SOHO 96	1.3.6.1.4.1.9.1 .500	Yes	Yes	Yes	Yes	12.2.11 YV
	SOHO 97	1.3.6.1.4.1.9.1 .496	Yes	Yes	Yes	Yes	12.2.8 YN
Cisco 3200 Series Mobile Access Routers	3220	1.3.6.1.4.1.9.1 .553	Yes	Yes	Yes	Yes	12.3.2 (XA)
Cisco Catalyst 4000 Series Switch	SUP II-Plus	1.3.6.1.4.1.9.5 .59	Yes	Yes	Yes	Yes	IOS12.1 (19)EW
Cisco 7600 Series Router	7609 (OSR)	1.3.6.1.4.1.9.1 .310	Yes	Yes	Yes	Yes	12.1.20E (ED)
Cisco Catalyst 7600 Series Switch	7609 (OSR)	1.3.6.1.4.1.9.5 .47	Yes	Yes	Yes	Yes	5.1(1)

1. Syslog will trigger configuration change event for Cisco Content Engine devices.
2. Support has been provided in an earlier IDU.
3. Software Management does not support NM-NAM (Network Module-Network Analysis Module) card for Cisco 2600 and 3600 routers when it is connected to the network through the external management interface. So if you want to upgrade NM-NAM image to a higher version you must configure the internal interface as a management port.
4. Minimum Software support is for Configuration Management.
5. Minimum Software depends on the Supervisor card installed on the device for Software Management.
6. Syslog will not trigger Configuration change event for Content Engine devices.
7. *Syslog Message Reference* will not be available for any syslog message types of Content Engine/Content Distribution Manager devices in any syslog report.

Other Supported Features in IDU on RME 3.5

The following features are supported in IDU on RME 3.5:

- Polling Devices for Schedule Collection in Configuration Management:

  You can set the options for the attribute POLL_DEVICE in the config.properties file under *NMSROOT*\www\classpath\com\cisco\nm\config\archive to customize polling.

  You can set two values for POLL_DEVICE attribute:

  – **No**. This is the default. When it is set to the default value, the configuration archive fetches running and start-up configurations even if the MIB does not detect changes in the configuration.

  – **Yes**. The configuration archive fetches the corresponding configuration, only if the MIB detects a change in the configuration. If the MIB does not detect any change in the configuration, the configuration archive does not fetch the running or start-up configurations.

  You must restart the daemons after setting the values of POLL_DEVICE attribute to reflect the changes.

- Support for Network Analysis Module (NAM) devices:

  – NetConfig: Support for system-defined configuration templates like TACACS+ template, Syslog template, SNMP Traps template, DNS template, WebUser template, SNMP Community template, Ad-hoc template, and user-defined Protocol template.

    For more details, see *Online Help*: **Resource Manager Essentials > NetConfig > Configuration Templates**.

  – NetShow: Support for NAM commands.

    For more details, see *Online Help:* **Resource Manager Essentials > Network Show > The Basics > List of Network Show Commands > Network Show Commands for Network Analysis Module**.

  – Config Editor: Supports NAM as a new category of device.

- NRP2 distribution performed through the parent NSP device.

  For more details, see *Online Help*: **Resource Manager Essentials** > **Software Management** > **Distribution** > **Distribute by Devices**.

- CMM, CSG, CSM, MWAM, SSL, and WLAN cards categorized as Catalyst 6000 modules. You can select one of the cards while distributing the image.

  For more details, see *Online Help*: **Resource Manager Essentials** > **Software Management** > **Distribution** > **Distribute by Devices**.

- Log Rotation Tool (Logrot), a utility designed to simplify the administration of log files on a system which generates many log files.

  For more details, see *Online Help*: **Resource Manager Essentials** > **Utilities** > **Log Rotation Tool**.

This section contains protocols supported for IDU devices in Configuration Management and Inventory custom reports supported for IDU 11.0, IDU 10.0, IDU 9.0, IDU 8.0, IDU 7.0 and IDU 6.0 devices.

- Table F-2—Protocol Support for IDU Devices in RME 3.5
- Table F-3—Supported Inventory Custom Reports for IDU Devices

Table F-2 lists the protocol support for IDU devices in Configuration Management.

Table F-2 Protocol Support for IDU Devices in RME 3.5

Device Type	Devices Supported	Telnet	TFTP	SSH	rcp
Protocol Support for IDU 12.0 Devices in Essentials 3.5					
Cisco Catalyst 3560 Series Switches	3560-24TS	Yes	Yes	Yes	Yes
	3560-48TS	Yes	Yes	Yes	Yes
Protocol Support for IDU 11.0 Devices in Essentials 3.5					
Cisco Catalyst 7600 Series Switches	Catalyst 7609	Yes	Yes	Yes	Yes
Cisco Content Engine Series	CE 511	Yes	No	Yes	No
Cisco Gigabit Ethernet Switching Module	CGESM	Yes	Yes	Yes	Yes

Table F-2 Protocol Support for IDU Devices in RME 3.5 (continued)

Device Type	Devices Supported	Telnet	TFTP	SSH	rcp
Protocol Support for IDU 10.0 Devices in Essentials 3.5					
Cisco 1800 Series Routers	1841	Yes	Yes	Yes	Yes
Cisco 2800 Series Routers	2801 2811 2821 2851	Yes	Yes	Yes	Yes
Cisco 3800 Series Routers	3825 3845	Yes	Yes	Yes	Yes
Cisco Intelligent Gigabit Ethernet Switch Module	IGESM	Yes	Yes	Yes	Yes
Cisco Catalyst 3560 Series Switches	3560G-24PS 3560G-24TS 3560G-48PS 3560G-48TS	Yes	Yes	Yes	Yes
Cisco Catalyst 3750 Series Switches	C3750-24ME 3750G-24PS 3750G-48TS 3750G-24TS-1U 3750G-48PS	Yes	Yes	Yes	Yes
Cisco Catalyst 4000 Series Supervisor Module	SUP 2 Plus (20G)	Yes	Yes	Yes	Yes
Protocol Support for IDU 9.0 Devices in Essentials 3.5					
Cisco Aironet Devices	WMIC Bridge 3201	Yes	Yes	Yes	No
	BR 1300	Yes	Yes	Yes	Yes
Cisco Catalyst 6500 Series Switches	6509-NEB-A-IOS	Yes	Yes	Yes	Yes

Table F-2 Protocol Support for IDU Devices in RME 3.5 (continued)

Device Type	Devices Supported	Telnet	TFTP	SSH	rcp
Cisco 7600 Series Routers	7613-IOS	Yes	Yes	Yes	Yes
Protocol Support for IDU 8.0 Devices in Essentials 3.5					
Cisco Catalyst 4500 Series	4507 SUP V Redundancy	Yes	Yes	Yes	Yes
Cisco Content Service Switch	CSS 11501	Yes	No	Yes	No
Cisco IAD Series Routers	IAD2431-1T1E1	Yes	Yes	Yes	Yes
	IAD2431-8FXS	Yes	Yes	Yes	Yes
	IAD2431-16FXS	Yes	Yes	Yes	Yes
	IAD2432-24FXS	Yes	Yes	Yes	Yes
Cisco SOHO Series Routers	SOHO 78	Yes	No	No	Yes
Cisco 3750 Series Stack Switches	3750-24PS	Yes	Yes	Yes	Yes
	3750-48PS	Yes	Yes	Yes	Yes
	3750-16TD	Yes	Yes	Yes	Yes
Cisco 800 Series Routers	811	Yes	No	No	Yes
	813	Yes	No	Yes	Yes
Network Analysis Module for Cisco 2600/3600 Series	NAM	Yes	No	Yes	No
Protocol Support for IDU 7.0 Devices in Essentials 3.5					
Cisco 3700 Series Switches	C3750 G-12 S Stack	Yes	Yes	Yes	Yes
Cisco 3560 Series Switches	C3560-24PS-S	Yes	Yes	Yes	Yes
	C3560-24PS-E	Yes	Yes	Yes	Yes
	C3560-48PS-S	Yes	Yes	Yes	Yes
	C3560-48PS-E	Yes	Yes	Yes	Yes

Table F-2 Protocol Support for IDU Devices in RME 3.5 (continued)

Device Type	Devices Supported	Telnet	TFTP	SSH	rcp
Cisco Catalyst 6000 Modules	X6380-NAM	Yes	No	No	No
	NAM-1	Yes	No	No	No
	NAM-2	Yes	No	No	No
	SSL	Yes	No	Yes	Yes
	MSFC3	Yes	Yes	Yes	Yes
Cisco Catalyst 4000 Devices	4510R Sup V	Yes	Yes	Yes	Yes
Cisco Catalyst 2900 Series Device Switches	2948G-GE-TX	Yes	Yes	Yes	No
Cisco AP Aironet Devices	AP 350 IOS	Yes	Yes	Yes	Yes
Cisco DSL Switches	6015 IP DSL	Yes	Yes	No	Yes
	6160 IP DSL	Yes	Yes	No	Yes
	6260 IP DSL	Yes	Yes	No	Yes
Cisco 7600 Series Routers	Cisco 7609	Yes	Yes	Yes	Yes
Cisco VG200 Series Gateways	VG224	Yes	Yes	Yes	Yes
Cisco Aironet 1400 Series	BR1410	Yes	Yes	Yes	Yes
Cisco Content Engine	CE7305 CE7325	Yes	No	Yes	No
Protocol Support for IDU 6.0 Devices in Essentials 3.5					
Cisco Catalyst 6000 Blades	FWSM	Yes	No	Yes	No
Cisco 800 Series	826 831 836 837	Yes	No	Yes	Yes

Table F-2 Protocol Support for IDU Devices in RME 3.5 (continued)

Device Type	Devices Supported	Telnet	TFTP	SSH	rcp
Cisco 1700 Series	1701	Yes	Yes	No	Yes
	1711	Yes	Yes	Yes	Yes
	1712	Yes	Yes	Yes	Yes

Table F-3 lists the supported Inventory custom reports for IDU devices.

Table F-3 Supported Inventory Custom Reports for IDU Devices

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Devices Supported by IDU 12.0										
Cisco Catalyst 3560 Series Switches	3560-24TS	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
	3560-48TS	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Devices Supported by IDU 11.0										
Cisco Catalyst 7600 Series Switches	Catalyst 7609	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Cisco Content Engine Series	CE 511	Yes	Yes	No	No	No	No	No	Yes	No
Cisco Gigabit Ethernet Switching Module	CGESM	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Devices Supported by IDU 10.0										
Cisco 1800 Series Routers	1841	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Cisco 2800 Series Routers	2801 2811 2821 2851	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Cisco 3800 Series Routers	3825 3845	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Cisco Intelligent Gigabit Ethernet Switch Module	IGESM	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Cisco Catalyst 3560 Series Switches	3560G-24 PS 3560G-24 TS 3560G-48 PS 3560G-48 TS	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Cisco Catalyst 3750 Series Switches	C3750-24 ME 3750G-24 PS 3750G-48 TS 3750G-24 TS-1U 3750G-48 PS	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Cisco Catalyst 4000 Series Supervisor Module	SUP 2 Plus (20G)	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Devices Supported by IDU 9.0										
Cisco Aironet Devices	WMIC Bridge 3201	Yes	Yes	Yes	Yes	No	No	No	Yes	No
	BR 1300	Yes	Yes	Yes	Yes	No	No	No	Yes	No
Cisco Catalyst 6500 Series Switches	6509-NE B-A-IOS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cisco 7600 Series Routers	7613-IOS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Devices Supported by IDU 8.0										
Cisco Catalyst 4500 Series	4507 SUP V Redundancy	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	4507 SUP V	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Cisco Content Service Switch	CSS 11501	Yes	Yes	No	No	No	No	No	Yes	No
	CSS 11503	Yes	Yes	No	No	No	No	No	Yes	No
	CSS 11506	Yes	Yes	No	No	No	No	No	Yes	No
Cisco IAD Series Routers	IAD2431-1T1E1	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	IAD2431-8FXS	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	IAD2431-16FXS	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	IAD2432-24FXS	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Cisco SOHO Series Routers	SOHO 78	Yes	Yes	Yes	Yes	No[1]	Yes	No	Yes	Yes
Cisco 3750 Series Stack Switches	3750-24PS	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	3750-48PS	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
	3750-16TD	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Cisco 800 Series Routers	811	Yes	Yes	Yes	Yes	No[2]	Yes	No	Yes	Yes
	813	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Network Analysis Module for Cisco 2600/3600 Series	NAM	Yes	Yes	No	No	No	No	No	No	No
Devices Supported by IDU 7.0										
Cisco 3700 Series Switches	C3750 G-12 S Stack	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cisco 3560 Series Switches	C3560-24 PS-S	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	C3560-24 PS-E	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	C3560-48 PS-S	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	C3560-48 PS-E	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cisco Catalyst 6000 Modules	X6380-NAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SVC-NAM-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SVC-NAM-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SSL	Yes	Yes	No	No	No	No	No	Yes	No
	MSFC3	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Cisco Catalyst 2900 Series Device Switches	2948G-GE-TX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cisco AP Aironet Devices	AP 350 IOS	Yes	Yes	Yes	Yes	No	No	No	Yes	No
Cisco 7600 Series Routers	Cisco 7609	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cisco VG200 Series Gateways	VG224	Yes	Yes	Yes	Yes	Yes	Yes	No[3]	Yes	Yes
Cisco Content Engine	CE7305 CE7325	Yes	Yes	No	No	No	No	No	Yes	No
Cisco Aironet 1400 Series	BR1410	Yes	Yes	Yes	Yes	No	No	No	Yes	No

Table F-3 Supported Inventory Custom Reports for IDU Devices (continued)

Device Type	Devices Supported	IP Address	User Field	Flash	RAM	Hardware Version	Card Type	Port Count	Serial No	SAA
Devices Supported by IDU 6.0										
Cisco 800 Series	826 831 836 837	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes
Cisco 1700 Series	1701 1711 1712	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Cisco Catalyst 6000 Blades	FWSM	Yes	Yes	No	No	No	No	No	No	Yes

1. Refer to Bug ID CSCsa13368 in the Cisco Software Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/home.pl.
2. Refer to Bug ID CSCsa13388 in the Cisco Software Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/home.pl.
3. Refer to Bug ID CSCsa07757 in the Cisco Software Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/home.pl.