



Cisco Prime Network Registrar IPAM 8.3.0.1 Release Notes

May 29, 2017

Note: Cisco Prime Network Registrar IPAM 8.3.0.1 patch can only be applied on an existing installation of IPAM 8.3 (8.0.33 build). To apply the patch on IPAM 8.1.2/8.1.3, you MUST first upgrade it to IPAM 8.3. After you have upgraded to IPAM 8.3, you can apply the IPAM 8.3.0.1 patch. To learn about how to apply the patch on IPAM 8.3, refer to [How to Apply IPAM 8.3.0.1 Patch, page 2](#).

These release notes provide an overview of the fixed and open defects in IPAM 8.3.0.1, describe how to apply the patch, and how to access additional information about known problems in IPAM 8.3.0.1.

Note: You can access the most current IPAM documentation, including these release notes, online at: http://www.cisco.com/en/US/products/ps11808/tsd_products_support_series_home.html.

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Introduction

IPAM is a comprehensive software solution that helps organizations plan and maintain their IP address space and leverages that information for use by IP services such as DNS and DHCP.

IPAM is a next generation tool that offers advanced functionality:

- Centralized planning and management of the complete address space down to the individual IP address level
- Centralized DNS and DHCP configuration management
- IPv4 and IPv6 support

Before you Begin

- Automated address utilization collection and reporting
- Address utilization forecasting and trending analysis
- APIs and Command Line Interfaces for integration with any type of system. Examples are work-flow systems, provisioning systems, change management systems, or network management systems.

Unlike other tools that maintain IP name and address data as discrete information maintained uniquely and separately, IPAM interacts with network devices and services to:

- Verify that the actual network matches the information in IPAM
- Capture and record utilization information to be able to establish historical trends
- Reclaim inactive addresses

This interaction not only maintains consistency between the planned and deployed network, but allows proactive modification to the network to adjust for IP address shortages and overages.

Before you Begin

For information on installing IPAM, refer to *Cisco Prime Network Registrar IPAM 8.3 Installation Guide*.

To start using the IPAM Management System, all IPAM services and the IPAM database must be started.

IPAM is licensed separately from Cisco Prime Network Registrar DHCP, DNS, and Caching DNS. When installing IPAM, you will be asked to install as a separate process using a separate license key. To receive the IPAM license, you must purchase IPAM, either individually, or as part of a Cisco Prime Network Registrar suite.

How to Apply IPAM 8.3.0.1 Patch

Note: This patch will upgrade the IPAM 8.3 version from 8.0.33 to 8.0.47 build. When this patch is applied, though the product version number remains as IPAM 8.3, the build will be upgraded from 8.0.33 to 8.0.47.

Note: For customers running mysql db replication - this patch DOES update the db. Therefore you will need to rem (#) the read_only line from the my.cnf file ON THE SLAVE EXEC ONLY, restart mysql for effect in order to apply this patch. Then, after the patch is installed, remove the # sign and restart mysql. You should not have to re-set up replication as patch installations only take IPAM services offline for a short time. Monitor your <http://PRIMARYEXECIP:8080/incontrol/ReplmonStats.html> page after the patch is installed. If you have further questions on this, open a support ticket.

Generic Instructions to Install Patches:

The IPAM 8.3.0.1 Upgrade/Patch Utility is designed to help users automatically upgrade or patch their systems and automatically backup existing data at the same time.

Patch upgrades are when the 'incontrol.jar', 'incontrol.war', 'inc-ws.war' files are replaced and the originals are backed up. In some cases, files that do not reside within the .war or .jar files are also applied and the originals are backed up. Or just .sql updates are applied against the database to assist with obtaining new features.

An "in-place" upgrade is when a new version of IPAM is applied and the database schema is also upgraded to the new version. The original .war and .jar files, along with the database, are backed up.

Note: All original files will be backed up automatically to `INCHOME/tmp/backup-<dateofupgrade>`.

Note: Oracle users must manually backup their database before starting an upgrade. Contact your DBA for assistance.

Important Notes

Unix Instructions for Upgrade/Patching Tool:

Note: All commands should be run as **incadmin**.

1. Download the file **cpnr_8_3_0_1-ipam-unix-patch.gtar.gz**, copy it into **/tmp** directory of the IPAM Executive system, and extract the file.
2. Navigate to **/tmp/cpnr_8_3_0_1-ipam-unix** directory.
3. Run the following command:
`. /opt/incontrol/etc/shrc` (Notice the space after the dot.)
4. From **/tmp/cpnr_8_3_0_1-ipam-unix**, run the following command:
`sh PNR83Upgrade-8.0.24-8.0.47-unix-1.bin`

For restoring your original files/db

1. Run the following command:
`. /opt/incontrol/etc/shrc`
2. From **/tmp/cpnr_8_3_0_1-ipam-unix**, run the following command:
`sh restore.sh INCHOME/tmp/<directory to restore>`

Example: `sh restore.sh /opt/incontrol/tmp/backup-<dateofupgrade>`

Windows Instructions for Upgrade/Patching Tool:

1. Download the file **cpnr_8_3_0_1-ipam-windows-patch.exe** and copy it into **C:\temp** directory of the Executive server.
2. Extract the file into **C:\temp** directory.
3. Open a DOS prompt window and run the following command:
`cd C:\temp\cpnr_8_3_0_1-ipam-windows-patch`
4. Run the following command:
`"c:\Program Files (x86)\Cisco\Cisco Prime Network Registrar IPAM\etc\shrc.bat"`
5. Run **RunUpgrade.exe**.

For restoring your original files/db:

1. Open a DOS prompt window and run the following command:
`cd C:\temp\cpnr_8_3_0_1-ipam-windows-patch`
2. Run the following command:
`"c:\Program Files (x86)\Cisco\Cisco Prime Network Registrar IPAM\etc\shrc.bat"`
3. Run the following command:
`restore.exe "INCHOME\tmp\<directory to restore>"`

Example: `restore.exe "c:\Program Files (x86)\Cisco\Cisco Prime Network Registrar IPAM\tmp\backup-<dateofupgrade>"`

Important Notes

This patch includes the support for configuring SHA1-AES as SNMPv3 Privacy Protocol while adding a network element in IPAM. For more information, see [CSCve12635](#).

Cisco Prime Network Registrar IPAM Bugs

For more information on a specific bug or to search all bugs in a particular IPAM release, see [Using the Bug Search Tool, page 6](#).

This section contains the following information:

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- [Using the Bug Search Tool, page 6](#)

Resolved Bugs

Table 1 lists the key issues resolved in the IPAM 8.3.0.1 release.

Table 1 Resolved Bugs in IPAM 8.3.0.1

Bug ID	Description
IN-16572	In place upgrades fail when adding a duplicate constraint
IN-16611	AddChildBlock - IPv6 - Sparse allocation is not working, seems to be getting next available every time
IN-16624	Unable to use wildcard owner with ImportDeviceResourceRecord
IN-16626	Fix potential database deadlock involving Deleting IP Addresses and DNS Push tasks
IN-16628	Deleting hundreds of devices with Resource Records can take several minutes
IN-16647	ISC DHCP 'set' policy dictionary entry removed on upgrade to 6.0 and beyond
IN-16653	Search Device fails with HibernateException when previous search was sorted by Ippaddress
IN-16654	Advanced Search by Individual Objects returns a search count by devices but not IP addresses
IN-16681	Low Pool Report is not displaying Address Pools, but is displaying Blocks
IN-16698	Patch installer doesn't handle changes to incinitdata.sql
IN-16762	Export to edit on Advanced Device Search by address type throws an error
IN-16777	DHCP 4.3 SQL script does not migrate user defined options from DHCP 3.x or 4.1
IN-16806	Doing a Full Server Configuration push with defined options to a CNR 8.3 Caching server fails with an exception
IN-16835	Swagger UI - Email address for support incorrect
IN-16870	@ symbol not interpreted correctly for DDNS updates
IN-16882	Search device with a selected container: Export for editing returns an empty file
IN-16884	Export Device CLI with -de and another filter throws org.springframework.jdbc.BadSqlGrammarException
IN-16891	Forward, Stub and Static-Stub zones should be allowed for Non-Managed domains
IN-16932	Advanced search preferences do not work when searching for an IP Address that returns a block
IN-16933	The GUI should prevent a user from deleting a Free block that is the only child of an Aggregate
IN-16935	Submitting a change to a block via Block Edit, after a failed attempt to Delete a block saves invalid blocks
IN-16943	[Invalid field value for field "view".] When attempt to add a DNS Domain (only first attempt)
IN-16977	While adding a Child Container within Container Maintenance, the current selected Container is not displayed as Parent Container, but its Parent
IN-16984	DHCP File Generation - Server's subnet appears twice if it is part of a network link (shared-network)
IN-16990	ImportDeviceResourceRec fails when importing a CNAME for other A records
IN-17002	Ignore DDNS Errors and Warnings flag is not honored for Failover DHCP server file generation

Table 1 Resolved Bugs in IPAM 8.3.0.1 (continued)

Bug ID	Description
IN-17003	Ignore DDNS Errors and Warnings flag is not shown in the task summary
IN-17011	Can bypass Policy setting on Net Service by typing name
IN-17015	Router Discover fails when CIDR size provided for IPV4 addresses
IN-17032	ImportAdmin API does not update lastupdate column when an admin is modified
IN-17041	GetContainer API getContainerByName method throws NullPointerException when no container name specified
IN-17046	gsstsig-interceptor & gsstsig-updater scripts look for /opt/incontrol/conf/appliance.tag
IN-17067	The DetachBlock API can leave the database connection in a pinned state
IN-17076	Search function retains its Container value when Reset should have cleared it
IN-17077	Search result window is unable to change its sort order
IN-17083	Cannot access IPControl GUI via an IPv6 address on port 8080. Port 8443 works
IN-17087	Administrator Activity Audit report date filter uses wrong timezone
IN-17093	Advanced Search for Block or Devices: cannot clean up a selected container
IN-17103	Memory Leak in DaysLeftRegression
IN-17107	Device search by UDF using the default value in the search causes an Exception - Oracle only
IN-17115	Adding a child container can reset the "Maintain History Records" flag on the parent container
IN-17118	Administrator with restricted Access Control in Policy to child container of IPControl cannot add child container
IN-17130	SSL Updates required for Sweet32 vulnerability
IN-17135	CNR DHCP Collection differences are not always accurate for network links and interfaces
IN-17143	ImportServiceSnapshot performance suffers due to always looking for block containing addrpool
IN-17146	DNSListener fails zone transfer after MySQL wait_timeout (default 8 hours) has expired
IN-17149	Swagger Client URL Encodes username and password

Enhancement Features

Table 2 lists the key enhancement features added in the IPAM 8.3.0.1 release.

Table 2 Enhancement Features in IPAM 8.3.0.1

Bug ID	Description
CSCve12635	IPAM - unable to use SHA1-AES as the SNMP V3 privacy protocol
IN-16602	Add checkbox for DHCP Pushes to "Ignore Dynamic DNS Errors and Warnings"
IN-16659	DHCP Collection performance enhancement - optimize snapshot creation query
IN-16662	Allow ImportDevice CLI/API to support GetNextAvailable logic for multi-homed devices
IN-16851	Block Subnet Policy tab should show default gateway and primary WINS server even if DHCP not licensed
IN-16885	Device search by UDF takes too long and results in a timeout exception
IN-17009	Improve performance of Block Utilization Report
IN-17105	Improve the performance of the Appliance Dashboard query
IN-17159	Improve BaseTestRestServer to allow concurrent test suites

Open Caveats

Table 3 lists the open caveats in the IPAM 8.3.0.1 release.

Table 3 Open Caveats in IPAM 8.3.0.1

Bug ID	Description
CSCvb25366	DNS64 priority gets duplicated when creating objects through IPAM
CSCvb45951	MySQL Critical Patch Update for July 2016

Using the Bug Search Tool

Use the Bug Search tool to search for a specific bug or to search for all bugs in a release.

1. Go to <http://tools.cisco.com/bugsearch>.
2. At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**. The Bug Search page opens.

Note: If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.
3. To search for a specific bug, enter the bug ID in the Search For field and press **Return**.
4. To search for bugs in the current release:
 - a. Click the **Search Bugs** tab and specify the following criteria:
 - b. In the Search For field, enter **Prime Network Registrar IPAM 8.3** and press **Return**. (Leave the other fields empty)
 - c. When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs by status, severity, modified date, and so forth.

Note: To export the results to a spreadsheet, click the **Export All to Spreadsheet** link.

Related Documentation

See [Cisco Prime Network Registrar IPAM Documentation](#) for a list of IPAM 8.3 guides.

Accessibility Features in IPAM 8.3.0.1

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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