



Cisco Broadband Access Center 3.10.1 Release Notes

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These release notes contain details on the new software features, bug fixes, and documentation for Cisco Broadband Access Center (Cisco BAC), Release 3.10.1.

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Introduction

Cisco Broadband Access Center (Cisco BAC) automates the tasks of provisioning and managing customer premises equipment (CPE) in a broadband service provider network. The product provides a simple and easy way to deploy high-speed data, voice technology, and home networking devices.

With the high-performance capabilities of Cisco BAC, you can scale the product to suit networks of virtually any size, even those with millions of CPE. It also offers high availability, made possible by the product's distributed architecture and centralized management.



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Cisco BAC enables you to provision and manage CPE by using the Broadband Forum's CPE WAN Management Protocol (CWMP), a standard defined in the TR-069 specification. Cisco BAC integrates the capabilities defined in TR-069 to increase operator efficiency and reduce network-management problems.

Cisco BAC supports devices based on the TR-069, TR-098, TR-104, TR-106, and TR-196 standards. These devices include Ethernet and ADSL gateway devices, wireless gateways, VoIP ATAs, DLC, and other devices that are compliant with CWMP. For details about the features supported in Cisco BAC 3.10.1, see [New Features in Cisco BAC 3.10.1, page 4](#) section.

System Components

Cisco BAC comprises:

- A Regional Distribution Unit (RDU) that is a software that you install on your server. The RDU is the primary server in a Cisco BAC deployment. Through its extensible architecture, the RDU supports the addition of new technologies and services.
- The Device Provisioning Engine (DPE) that is a software that you install on your server. The DPE server handles all device interactions for the RDU.
- An administrator user interface through which you can monitor and manage Cisco BAC.
- A Java provisioning application programming interface (API). You can use this to integrate Cisco BAC into an existing operations support-system environment. You can use the provisioning API to register devices in Cisco BAC, assign device configuration policies, run CWMP operations on the device, and configure the entire Cisco BAC provisioning system.
- Cisco Network Registrar extensions (CNR extensions), are the links between Cisco BAC and Cisco Network Registrar. You should install this component on all Cisco Network Registrar servers in your Cisco BAC environment. If you are deploying Cisco BAC in a failover environment, ensure that you install the extensions on the failover servers, as well.
- The Cisco Prime Access Register (PAR) Extensions are the links between Cisco BAC and Cisco Prime Access Registrar. You should install this component on all Cisco Prime Access Registrar servers in your Cisco BAC environment. If you are deploying Cisco BAC in a fail-over environment, ensure that you also install the extensions on the fail-over servers.

Installation Components

Pre-Maintenance Script

This script is used to automate the pre-maintenance window activities such as backup, database recovery and also verification, migration of the data base before any major upgrade from BAC version 3.8.1, 3.8.1.x, 3.9 or 3.10 to 3.10.1. This script should be run on the server where the RDU is installed. You can either choose a single prompt to complete all the above activities or execute them one-by-one by providing the appropriate inputs.

The script location is: `<BAC_Linux_Install_directory>/BAC_3.10.1_LinuxK9/pre_maintenance.sh`

Upgrade Prompt Change

Upgrading BAC from 3.8.1, 3.8.1.x, 3.9 or 3.10 to 3.10.1 has been improved for ease of use. The <BAC_Linux_Install_directory>/BAC_3.10.1_LinuxK9/install_bac.sh script has been enhanced to include automation of the following processes: backup, recovery, verify, migration and restore database.

This script also has the prompt to skip the above processes and execute them instead using the Pre-maintenance script.

Inter Build Upgrade

From BAC 3.10 release onwards, users can upgrade between the different build numbers of 3.10 version and the different build numbers of the 3.10.1 version.

Inter-build upgrade also supports the various database operations being automated using <BAC_Linux_Install_directory>/BAC_3.10.1_LinuxK9/install_bac.sh script.

System Requirements

- You must have Linux 6.6 operating system installed on your system to use the Cisco BAC software. For information on installation, see the [Cisco Broadband Access Center 3.10 Installation Guide](#).
- BAC uses Cisco Prime Network Registrar 8.3
- BAC uses Cisco Prime Access Registrar 7.0
- BAC 3.10.1 does not include a STUN server.



Note

Please note that the Solaris operating system is NOT supported for this release.

Licensing Requirements

You require a valid license key to successfully provision devices that use Cisco BAC. These licenses are specific to the:

- CWMP technology
- DPE component
- Feature Pack Licensing

**Note**

Feature Pack licensing is required only for Java based DPE Technology extensions. If you have not yet received your licenses, contact your Cisco representative.

New Features in Cisco BAC 3.10.1

The following new features have been added to this release:

- [New CVC Event, page 4](#)
- [Device Faults Statistics Enhancements, page 4](#)

New CVC Event

A new Custom Value Change (CVC) event has been added to BAC. This event is triggered whenever the DPE receives a Value Change inform from the AP.

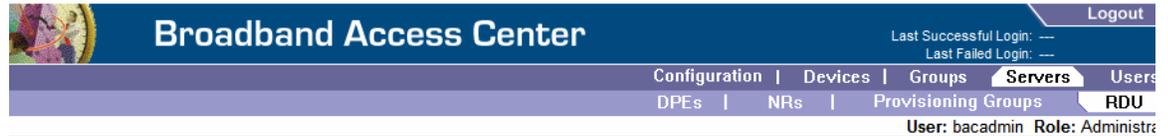
Two new custom properties have been added which need to be monitored during VC informs.

- FC-ENABLE-CVC-EVENT
- FC-CVC-PARAMETER-KEY-LIST (this parameter needs to be configured with “Full Object Name”. For multi-instance objects, follow standard notation: *Device.{i}.xx.{i}.xxx*)

Device Faults Statistics Enhancements

In order to improve system performance and enhance user experience, the RDU statistics mechanism has been improved. Device faults are now collected and displayed on-demand, in an easier to read manner. The DPE sends the number of faults to the RDU and this is displayed in the RDU Statistics screen.

The user can click on the glasses icon to open up new screens which display fault history statistics for DPE and RDU.



Broadband Access Center Logout
Last Successful Login: ---
Last Failed Login: ---

Configuration | Devices | Groups | **Servers** | Users
DPEs | NRs | Provisioning Groups | **RDU**

User: bacadmin Role: Administr

SYSTEMS **Device Faults History**
Use this page to view the device faults history.

Device Faults Statistics	All DPEs
1 Hour(s):	5
3 Hour(s):	5
12 Hour(s):	5
72 Hour(s):	5



Broadband Access Center Logout
Last Successful Login: 07-07-2015 07:54
Last Failed Login: 07-07-2015 07:54

Configuration | Devices | Groups | **Servers** | Users
DPEs | NRs | Provisioning Groups | **RDU**

User: bacadmin Role: Administ

SYSTEMS **Device Faults History**
Use this page to view the device faults history.

Device Faults Statistics	RDU
1 Hour(s):	0
3 Hour(s):	0
12 Hour(s):	0
72 Hour(s):	0

In addition, the faults description has been removed from the DPE Device Faults History screen. The user can view the fault details with the time stamp and description in the Device Details screen.

Broadband Access Center 3.10.1 Bugs

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

Procedure

- Step 1** Go to <http://tools.cisco.com/bugsearch>.
- Step 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>.

- Step 3** To search for a specific bug, enter the bug ID in the Search For field and press **Enter**.

Step 4 To search for bugs in the current release:

- a. In the Search For field, enter **Broadband Access Center 3.10.1** and press **Enter** (Leave the other fields empty).
- b. 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 modified date, status, severity, and so forth.



Tip

To export the results to a spreadsheet, click **Export Results to Excel**.

Related Documentation

For details, see the [Cisco Broadband Access Center 3.10 Administration Guide](#) and the [Cisco Broadband Access Center 3.10 Installation Guide](#).

The following document gives you the list of user documents for Cisco Prime Network Registrar 8.3:

http://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/network_registrar/8-3/doc_overview/guide/CPNR_8_3_Doc_Guide.html

The following document gives you the list of user documents for Cisco Prime Access Registrar 7.0:

http://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/access_registrar/7-0/doc_overview/guide/CPAR_7_0_Doc_Guide.html

Accessibility Features in Broadband Access Center 3.10.1

For a list of accessibility features in Broadband Access Center, see the [Voluntary Product Accessibility Template \(VPAT\)](#) on the Cisco website, or contact accessibility@cisco.com.



Note

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, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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