



Release Notes

Bandwidth Composer v5.1.1

General Release – January 11, 2005

Applies to both BC500 & BC200 systems

Upgrade/Release Installation Instructions

See note on Scheduling upgrade below.

Your BC100/BC500 system will need to be **running firmware release v4.0.24 before upgrading** to v5.1.1. Each firmware release must be updated in order. (For example, if you are currently running v4.0.22, you will need to update to v4.0.23, then v4.0.24 before upgrading to v5.1.1.)

BC200 systems shipped with firmware v4.0.25, and can upgrade directly to v5.1.1.

1. Telnet/SSH/Serial into Bandwidth Composer configuration interface
2. From the menu select option **11. Upgrade Firmware**
3. Select option **2. Install an Upgrade**
4. Select the option corresponding to **v5.1.1** (if you are currently at v4.0.24 or later)
5. Follow the prompts to upgrade the firmware
6. Once the upgrade is complete, you will need to reboot Bandwidth Composer

Scheduling Your Upgrade

Due to the size of the firmware upgrade, it is recommended that you perform the system upgrade during a light usage period.

During the upgrade process, there will be up to two downloads.

1. After step 5 above, the general 5.1.1 firmware will begin downloading to your system. The general release is 44 MB, followed by the installation of the new release.
2. After the new release firmware is installed, you will be prompted to update the Web filtering and category engine (13 MB). Follow the prompts to update your systems Web usage tracking.

After the Web filtering components have downloaded, they will install, then re-index the web usage data on your system. **This re-indexing process may take some time to complete depending on the number of Web requests stored on your system and the activity level of the system during the upgrade.** For example, very active systems with over ten million Web requests may take several hours to complete.

After the system has completed all updates, you will need to reboot Bandwidth Composer.

On BC500 units, you can press the Red X button twice on the front LCD panel or use the configuration menu option.

On BC200 units, you must select option **6. Hardware Reboot** through the configuration menu.

Enhancements

New User Interface

A new web interface is now available for Bandwidth Composer. New reports, data export options, system alerts have been added. A new graphics engine allows for faster report updating, reports and graphs that are easier to read, and the ability to print right from the report pages.

6 New Application Groups

- **IM/Chat**
- **Remote Desktop** (including Citrix)
- **VPN**
- **Streaming Media**
- **Custom 1**
- **Custom 2**

In addition to the existing application classes: Peer to Peer, Windows NetBios/File&Print, HTTP(S), FTP, Email, SSH/Telnet, ICMP/TOS, VoIP, & Online Games

The Custom signature groups allow for port based controls of applications and protocols. Packet level application signatures remain available through the Cymphonix Professional Services group.

Enhanced Real Time Monitor

Application frames displaying

- **total network traffic,**
- **total traffic by application,** and
- **selectable application** frame useful for specific or focused monitoring.

User frames displaying

- **total user traffic,**
- **application traffic by user,** and
- **selectable application** frame for specific or focused monitoring by user.

Active User Worksheet, displaying a list of the 50 most active users, with click to sort headings allowing for display by application. This allows RTM users to notice an increase in any one sort of traffic, then easily identify the machine(s) responsible in real time.

User Prioritization

There are 7 priority levels available to assign to specific machines. This allows servers or specific user machines to have either high or low priority access allowing for network usage optimization.

Additional Application Signatures

New application signatures continue to be developed for addition to the existing application classes. As previously mentioned this release includes new Citrix and other remote desktop applications, streaming media, as well as updated peer to peer signatures.

Export/Print function on Web graphs & screens

Reports and graphs visible on the Web interface now have an export and/or print capability that will allow for easier distribution of reports and graphs.

Web Request by File Type report

Bandwidth Composer administrators can view and control the types of files (for example, .exe, .mp3, .zip, .gif, etc.) entering and leaving the network.

Enhanced URL History

New default settings allow Hit count to more accurately reflect page count. The Hit count will no longer count all item loads on a single page, nor automatically store image server linkages. By storing the information regarding the main URL, Web usage reports will provide more useful information. This setting can be configured to operate in the earlier mode if necessary.

Web Filtering Enhancements

The total number of categories will be reduced to approximately 65 to allow for easier administration and customers can now easily modify incorrectly categorized Websites. This will allow administrators to quickly allow or disallow Websites based on their judgment, and not require them to wait for category updates from Cymphonix.

New website categorizations will include File Type (.exe, .mp3, .zip, etc.) and Spyware/Adware

New Web URL Listings/Top URLs Report

System administrators can now more easily recognize which URLs are experiencing the most traffic, then easily expand the report to view which users are generating the most traffic to the selected site.

Upgrade Availability

The Bandwidth Composer Version 5 release is available at no additional charge for both BC500 and BC200 systems. Accessing the upgrade release is available through the configuration menu.

Notes:

Use of PIX routers and fixed interfaces – When installing Bandwidth Composer into a network with PIX™ routers and/or hard-set (fixed instead of auto-negotiate) network interfaces, it is recommended that Bandwidth Composer also be hard-set. A cross-over cable is also recommended in these circumstances between the router/firewall and Bandwidth Composer. Contact Cymphonix support for detailed instructions and assistance at support@cymphonix.com or 801-938-1500 opt. 2.