

Product Notice #0282

BIOS Update Procedure for AudioCodes CloudBond 365 Standard Box Edition

Notice Subject

BIOS update procedure for AudioCodes CloudBond 365 Standard Box Edition.

Notice Date

February 16, 2016

Notice Effective Date

Immediate

Affected Products

AudioCodes CloudBond 365 Standard Box Edition (based on Mediant 800B OSN 16G)

Notice Details

This Product Notice provides step-by-step instructions on how to update the BIOS on the Open Solution Network (OSN) server of AudioCodes CloudBond 365 Standard Box Edition (hereafter referred to as *CloudBond*). This update is mandatory for new deployments of CloudBond Release 6.4.5 and later.



Notes:

Customers already using the updated BIOS version can ignore this Product Notice.

This Product Notice is only relevant for Mediant 800B OSN with 16G RAM.

The updated BIOS Version is **60104T00**, from American Megatrends (AMI). This BIOS version fixes an issue whereby the server fails to boot after system restart (and the server boot screen may display the error message "A disk read error occurred..." or similar).

International Headquarters 1 Hayarden Street, Airport City, Lod 7019900 P.O. Box 255, Ben Gurion Airport, Israel, 7019900 Tel: +972-3-976-4000 Fax: +972-3-976-4040

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Notes:

- The new BIOS version is supported by CloudBond Version 6.4.5 and later. Prior to performing the BIOS update, make sure that you have such a compatible version on your USB dongle.
- If your current CloudBond version is earlier than 6.4.5, you will be required to reinstall the entire CloudBond 365 software after BIOS update.

BIOS Update Procedure

The BIOS update procedure includes the following main steps:

- 1. Check the BIOS version
- 2. Check the current Boot method
- 3. Check the current SATA Configuration mode
- 4. How to switch between RAID to AHCI
- 5. Download the BIOS
- 6. Create a bootable USB dongle for the BIOS upgrade
- 7. Upgrade the BIOS

Check the BIOS Version

- 1. Connect a monitor to your OSN server and restart the server.
- 2. Enter the OSN BIOS settings main screen; the BIOS vendor and version is displayed.
- 3. Verify that the Project Name is **PCOM-B219VG** (see figure below). If it display a different name, **DO NOT** continue with this BIOS upgrade.
- 4. If your BIOS is not AMI (American Megatrends, Inc.) or the version is not **60104T00** or later, upgrade your OSN BIOS.



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Check the Current BOOT Method

- 1. Enter the OSN BIOS settings and check your Boot Priority settings.
- 2. If your current settings is **UEFI**, reinstall the CloudBond 365 software after the BIOS update. (You can skip the next step for checking your SATA configuration mode.)

	INT19 Trap Response	[Immediate]
	Set Boot Priority	
l	1st Boot	[UEFI]
ŀ	2nd Boot	[USB CD/DVD]
L	3rd Boot	[CD/DVD]
	4th Boot	[Hard Disk: PLEXTOR]
	Sth Boot	[USB Floppy]
	6th Boot	[Network]
_		

Check the Current SATA Configuration Mode

The new BIOS version requires an AHCI mode in the SATA mode configuration.

- 1. Enter the OSN BIOS settings and check your current SATA Configuration mode.
- 2. If your current settings is **RAID**, follow the instructions in "How to switch between RAID to AHCI".

Configuration	
SATA Configuration	
SATA Controller(s)	[Enabled]
SATA Mode Selection	[RAID]
SATA Controller Speed	[Gen2]
Alternate ID	[Disabled]
Serial ATA Port 0	PLEXTOR PX-256 (256.0
Port 0	[Enabled]

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How to Switch Between RAID to AHCI

This step is required only if your current server SATA configuration mode is set to RAID.

- 1. Restart your server, and then enter the server Host operating system.
- 2. Press START, and then type "msconfig" or "System "Configuration".
- 3. Click the **Boot** tab, and then select the 'Safe boot' checkbox:

🤤 Syst	em Configuration	×
General Boot Services Startup Tools		
	nencos, beradicos	
Boot options	No GUI boot	Imeout:
Alternate shell Active Directory repair Network] <u>boot log</u>] Bas <u>e</u> video] <u>O</u> S boot information	Make all boot settings permanent
	OK Cancel	Apply Help

4. Click OK.

System Configuration						
You may need to restart your computer to apply these changes. Before restarting, save any open files and close all programs.						
Don't show this message again.						
Restart	Exit without restart					

5. Restart the server, and then press F2 or DEL continuously until you access the BIOS settings.

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Click the Configuration tab, and then choose SATA Configuration:

SATA Controller(s) [Enabled] ATA Mode Selection [AHCI] ATA Controller Speed [Gen2] Serial ATA Port 0 PLEXTOR PX-256 (256.0 Port 0 [Enabled] Hot Plug [Disabled] External SATA [Disabled] SATA Device Type SATA Mode Selection Serial ATA Port 1 IDE Port 1 IDE Hot Plug Empty External SATA [Disabled] SATA Device Type Empty Serial ATA Port 2 Empty Port 2 [Enabled] Hot Plug [Disabled] External SATA [Disabled] F2: Previous Values F3: Optimized Defaults F3: Optimized Defaults F4: Save & Exit Port 3 [Enabled] Hot Plug [Disabled] External SATA [Disabled] F4: Save & Exit ESC: Exit	BIA Configuration		A Determines how SATA
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Plant in the second s	External SATA	[D1sabled]	

- 7. Make sure that 'SATA Controller Speed' is set to Gen2. If this option is unavailable, you are probably using an old BIOS version. If this is the case, please stop the procedure and contact AudioCodes' support team.
- 8. Change the SATA configuration to AHCI.
- 9. Press F4 to save the changes and then exit; the server restarts.
- 10. When the server comes up again, repeat Step 1 to exit from Safe Mode status (clear the 'Safe mode' checkbox), and then restart the server once again; your server is now configured with AHCI mode and you can continue with the BIOS update procedure.

Download the BIOS

- 1. Make sure you have a free USB dongle with storage capacity of 1 GB or more.
- 2. Download the BIOS from AudioCodes Web site:
 - a. Open the Product Documentation & Support page at http://www.audiocodes.com/downloads.
 - b. Filter the search as follows:
 - From the 'Type' drop-down list, select Software.
 - From the 'Product Family' drop-down list, select CloudBond 365. ٠
 - From the 'Product' drop-down list, select CloudBond 365 Standard/Standard+ Box ٠ Edition.



- c. Click the **Mediant 800 OSN4 Ami BIOS Version 60104T00** link displayed in the searched results, and download the zipped file to a temporary folder on your PC.
- d. Make sure that the temporary folder includes these files:
 - 60104T00_B219_BIOS.img (new BIOS image)
 - USB Image Tool.zip (USB Image tool for creating a bootable USB for the BIOS upgrade)
 - AudioCodes Product Notice (CloudBond 365 BIOS Update containing instructions on how to perform the BIOS upgrade)

Create a Bootable USB Dongle for the BIOS Upgrade

- 1. Extract the USB Image Tool.zip file to a temporary folder on your PC.
- 2. Run the USB Image Tool.exe on your PC:

	-					
Device Mode	~	Device	Favorites	Options	Info	
		Devi Name Numbe Identifie Path Size Serial	ice n er			
		Path Name File sys	on me stem			
		Free	þ			₽

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3. Plug the USB into your PC; the USB Image Tool will recognize the USB:



- 4. In the left pane, select the USB, and then click the **Restore** button.
- 5. Select the BIOS image file 60104T00_B219_BIOS.img from the temporary folder on your PC.

Name	Date modified	Туре
💭 60104T00_B219_BIOS.img	26-Jan-16 12:14	WinZip File

6. Click the **Open** button, and then click **Yes** to approve the restore action:



7. Make sure that the restore process starts; the progress indicator in the lower-most left corner of the screen displays the installation progress:

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u USB Image Tool		
Device Mode 🗸 🗸	Device Favorite	s Options Info
Kingmax USB2.0 Flas	Device Name Number Identifier Path Size Serial Location Volume	Kingmax USB2.0 FlashDisk USB Device 2668 USBSTOR\DISK&VEN_KINGMAX&PROD_I \\?\usbstort#disk&ven_kingmax∏_usb2. 3,932,977,408 Bytes A33000000000222 USB2.0 FlashDisk
	Path Name File system Size Free	F:\ FAT32 3,988,815,872 Bytes 3,988,783,104 Bytes
Restoring image]	Cancel

- 8. Wait for the restore process to finish and then close the USB Image tool.
- 9. Make sure that the new USB content includes the following files (note that it may include additional hidden files):

Name	Туре	Total size
Application (1) Flash.exe	Application	
 Text Document (1) Readme.txt 	Text Document	
 Windows Batch File (1) Windows Batch File (1) 	Windows Batch File	

10. Unplug the USB using the **Safely remove hardware** icon in the Windows tray.

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Upgrade the BIOS

- 1. Connect the screen and keyboard to the CloudBond 365 OSN (on the rear panel).
- 2. Plug the BIOS upgrade USB dongle to the OSN USB port.
- 3. Boot the CloudBond 365 system using the USB disk drive.
- 4. Make sure that the OSN boots from the USB and not the hard drive.
- 5. Wait until you see the Win98 DOS prompt:



- 6. At the main prompt, type Update.bat, and then press the Enter key. DO NOT POWER OFF the system until the BIOS process has completed. When the upgrade completes, it should display the FPT Operation Passed message.
- 7. Remove the USB disk drive.
- 8. Unplug the power cord, wait for one minute and then reconnect the power cord again; the system reboots.
- 9. Navigate to the BIOS menu using the F2 key.
- 10. Make sure that the version of the new BIOS is the correct version.

Your OSN BIOS is now upgraded to the latest version. You can continue with the installation of the CloudBond 365 software. Make sure you install CloudBond 365 Version 6.4.5 or newer.

For further instructions on how to obtain the latest CloudBond 365 version, please refer to the latest *Release Notes* on AudioCodes Web site at <u>http://www.audiocodes.com/products/cloudbond-365-</u><u>standard-box</u>.

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