

CPE Upgrade Procedure for Gen 2 BaiCE_AP_2.1.4_NA Firmware

Introduction

The latest Baicells user equipment (UE) firmware version for generation 2 (Gen 2) indoor and outdoor UEs (IDUs and ODUs) is **BaiCE_AP_2.1.4_NA**. Baicells *highly recommends* that all customers complete an upgrade to their Gen 2 UEs to v2.1.4 by August 15, 2018.

The latest Baicells UE firmware version for generation 1 (Gen 1) outdoor UEs (ODUs) is **BCE-ODU-1.0.12**. Baicells *highly recommends* that all customers complete an upgrade to their Gen 1 ODUs to v1.0.12 by August 15, 2018.



NOTE 1: As of 12:01 a.m. August 16, 2018 any UE not upgraded to the recommended firmware version indicated above may require rebooting if the UE disconnects from the network for 15 minutes or longer and cannot reattach.

If you are unsure whether the UEs you have are Gen 1 or Gen 2, log in to the CloudCore OMC, go to **CPE > Monitor** and in the list of UEs check the **Model Name** column. If the model name is blank, the UE is a Gen 2 UE. If the model name shows an alphanumeric name that starts with something like MH, MLH, or MT, the UE is a Gen 1 UE. You can also check the current software level running on the UE against the table shown below under [Upgrade Paths](#).

Upgrade Paths

In anticipation of upgrading your Baicells UEs, please follow the guidance in the table below. Then, follow the upgrade procedure using either the UE GUI (for individual UEs) or the OMC (for multiple UEs), as indicated in the [Upgrade Procedures](#) section.

NOTE 2: You can upgrade any UE from any firmware release to the latest firmware release without having to step through the interim releases.

Indoor Outdoor	Model	Gen	Global P/N	Bands	Currently Recommended FW Version	New FW Version
Indoor	Atom R9 5	1	CN6671-B4243	42/43	BCE-IDU-1.2.5-R4.bin	Stay at BCE-IDU-1.2.5-R4.bin
Indoor	Atom R9 5	1	CN6671-B41	41	BCE-IDU-1.2.5-R4.bin	Stay at BCE-IDU-1.2.5-R4.bin
Indoor	Atom ID04-6.5	2	EG2030C-M2	42/43	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Indoor	Atom ID04-6.5	2	EG2030C-M1	40/41	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Indoor	Atom ID04-6.5	2	EG2030C-M11	42/43/48	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom R9 11	NA	CW0100-B4243	42/43	BCE-ODU-1.0.12	Stay at BCE-ODU-1.0.12
Outdoor	Atom R9 11	NA	CW0100-B41	41	BCE-ODU-1.0.12	Stay at BCE-ODU-1.0.12

Indoor Outdoor	Model	Gen	Global P/N	Bands	Currently Recommended FW Version	New FW Version
Outdoor	Atom OD04-14	2	EG7035L-M1	40/41	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-14	2	EG7035L-M2	42/43	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-14	2	EG7035L-M10	7/38	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-14	2	EG7035L-M11	42/43/48	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom R9 19.5	1	EG7035	42/43	BCE-ODU-1.0.12	Stay at BCE-ODU-1.0.12
Outdoor	Atom OD04-19.5	2	EG7035E-M1	40/41	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-19.5	2	EG7035E-M2	42/43	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-19.5	2	EG7035E-M10	7/38	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA
Outdoor	Atom OD04-19.5	2	EG7035E-M11	42/43/48	BaiCPE_V100R001C01B005 SPC009	BaiCE_AP_2.1.4_NA

NOTES:

1. NA – Not Applicable
2. Gen 2 is used to describe the next generation of a previously existing model of equipment. The term does not represent a specified set of features and functionality.

Upgrade Procedures

Reference: *Baicells Configuration & Network Administration Guide*

UE GUI Method (Individual UEs)

Follow the upgrade procedure appropriate to your UE scenario as provided in the *Baicells Configuration & Network Administration Guide* (section 3, UE GUI).

The example instructions provided below, showing a Gen 2 UE upgrade to 2.1.4, are based on upgrading a Gen 2 UE to BaiCE_AP_2.1.4_NA firmware using a Windows PC.

NOTE 3: The GUI menus and navigation vary slightly from one OS, UE model, or version to another.

NOTE 4: Exact steps and screens for upgrading a Gen 1 ODU to BCE-ODU-1.0.12 will look different.

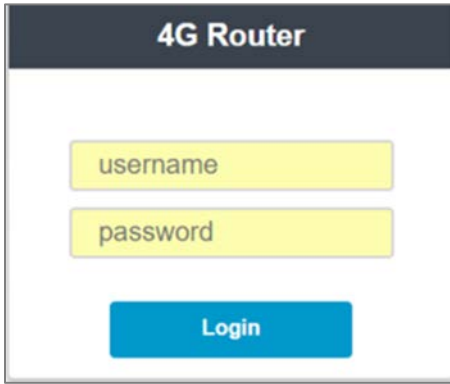
Please refer to 1.0.12 firmware announcement on the Baicells website:

<https://community.na.baicells.com/t/new-cpe-ue-firmware-bce-odu-1-0-12/493/11>.

1. Download the new firmware image to your computer.
2. Launch the GUI using a web browser or a local connection.
 - a. Web browser:
 - i. Enter **http://192.168.150.1** (or enter **http://192.168.1.1** if on firmware older than v1.0.3), and then press **Enter**.
 - ii. At the login window (Figure 3-2), enter the default user name (admin) and password (admin), and click on Login.
 - b. Local connection:
 - i. Use an Ethernet cable to connect the computer Ethernet interface to a LAN interface port on the back or bottom of the UE.

- Log in to the UE GUI with your username and password (Figure 1).

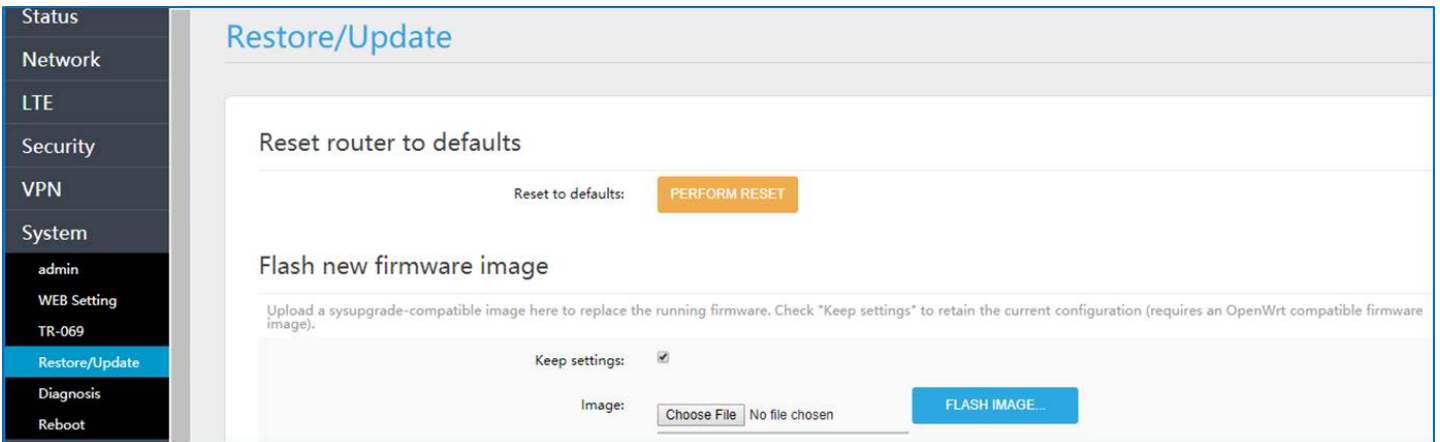
Figure 1: UE GUI Login



- At the main menu, go to **System > Restore/Update** (Figure 2).
- If you want to preserve the current configuration settings, click on the check box next to **Keep settings**.
- Select **Choose File** to navigate to the new image file on your computer. Select **Open** in the dialogue window.
- Click on **Flash Image** to initiate the upgrade.

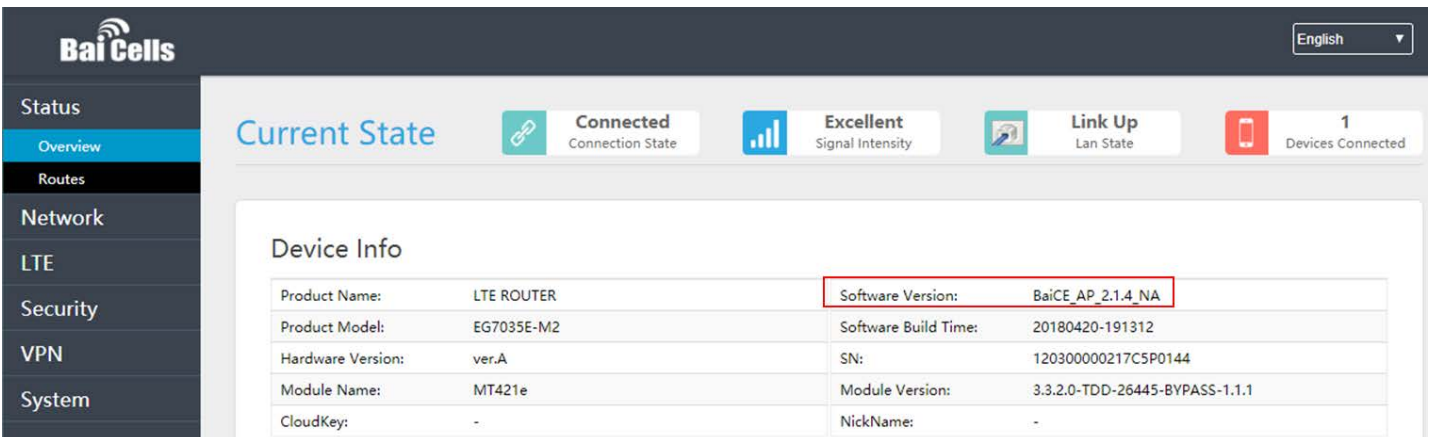
 **Caution: Do not power off the UE or disconnect it from the computer during the upgrade.**

Figure 2: Restore/Update



- When the upgrade is completed, verify the new version of firmware is loaded on the UE by going to **Status > Overview** and checking the **Software Version** field (Figure 3).

Figure 3: Check Software Version



OMC Method (Multiple UEs)

Follow the upgrade procedure appropriate to your network scenario as provided in the *Baicells Configuration & Network Administration Guide* (section 4, OMC).

The example instructions provided below, showing Gen 2 UE upgrades to 2.1.4, are based on OMC v4.2.3 using a Windows PC.

NOTE 5: The GUI menus and navigation vary slightly from one OS, UE model, or version to another.

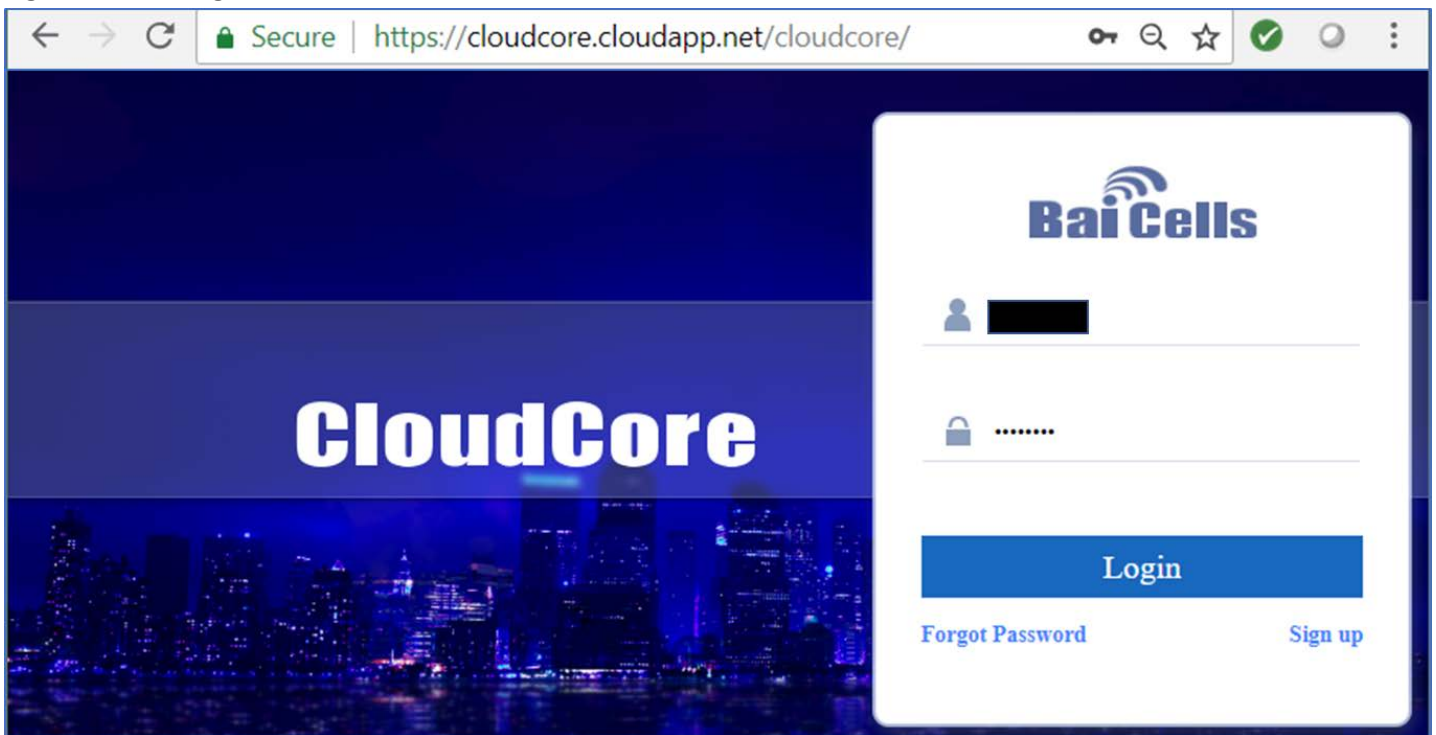
NOTE 6: Exact steps and screens for upgrading a Gen 1 ODU to BCE-ODU-1.0.12 will look different.

Please refer to 1.0.12 firmware announcement on the Baicells website:

<https://community.na.baicells.com/t/new-cpe-ue-firmware-bce-odu-1-0-12/493/11>.

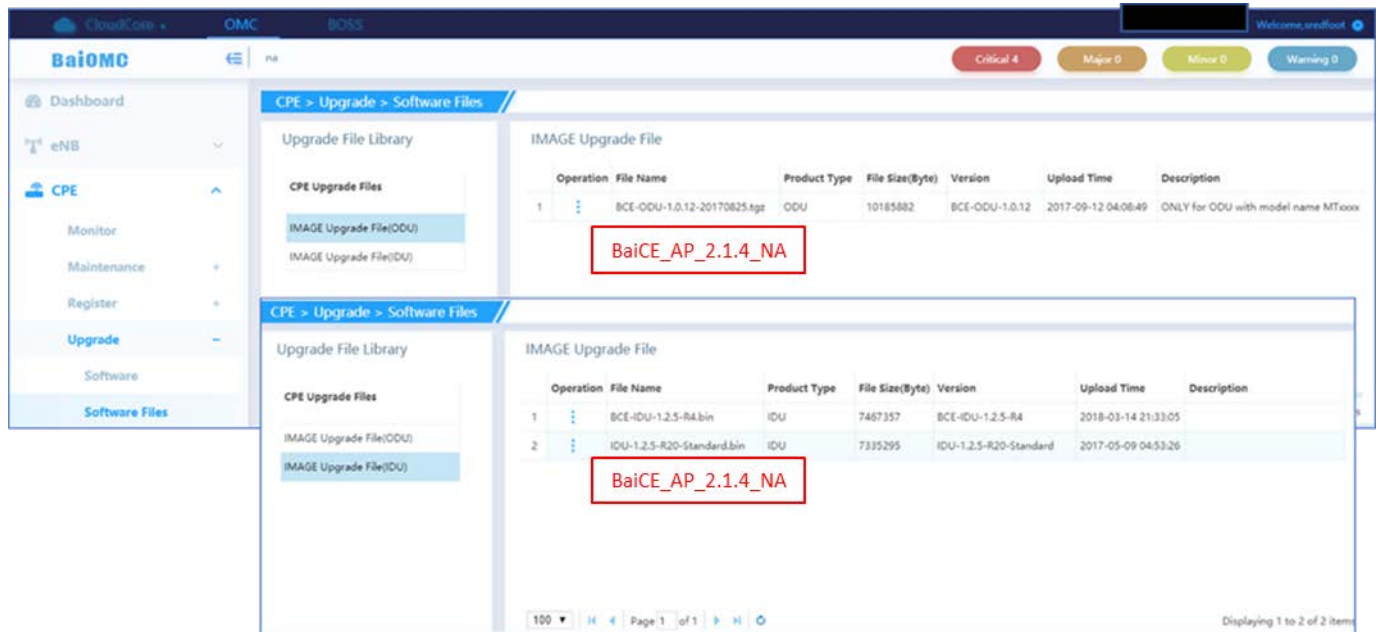
1. Open a web browser, and enter the CloudCore address: <https://cloudcore.cloudapp.net/cloudcore/>
2. Log in with your username and password (Figure 4).

Figure 4: OMC Login



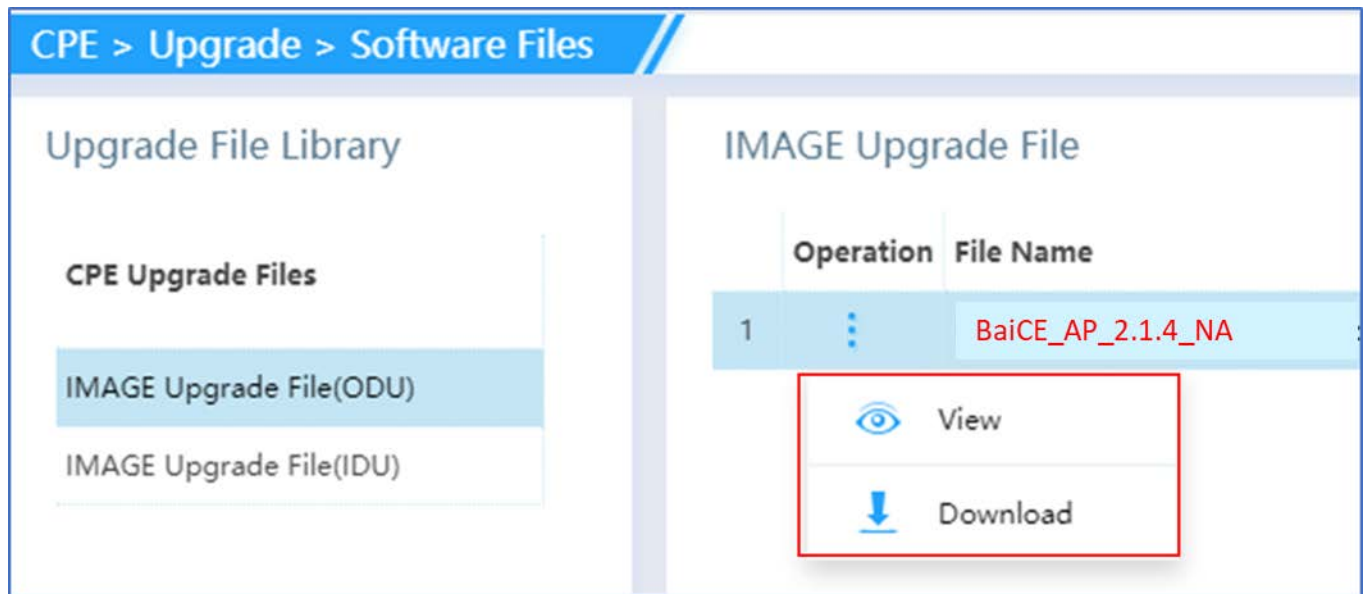
3. At the main menu, go to **CPE > Upgrade > Software Files** (Figure 5). Under “Upgrade File Library”, select either the outdoor unit (**ODU**) or indoor unit (**IDU**) category depending on the model of UEs you are planning to upgrade. The list of available software files for the category you selected will appear on the right.

Figure 5: Upgrade > Software Files



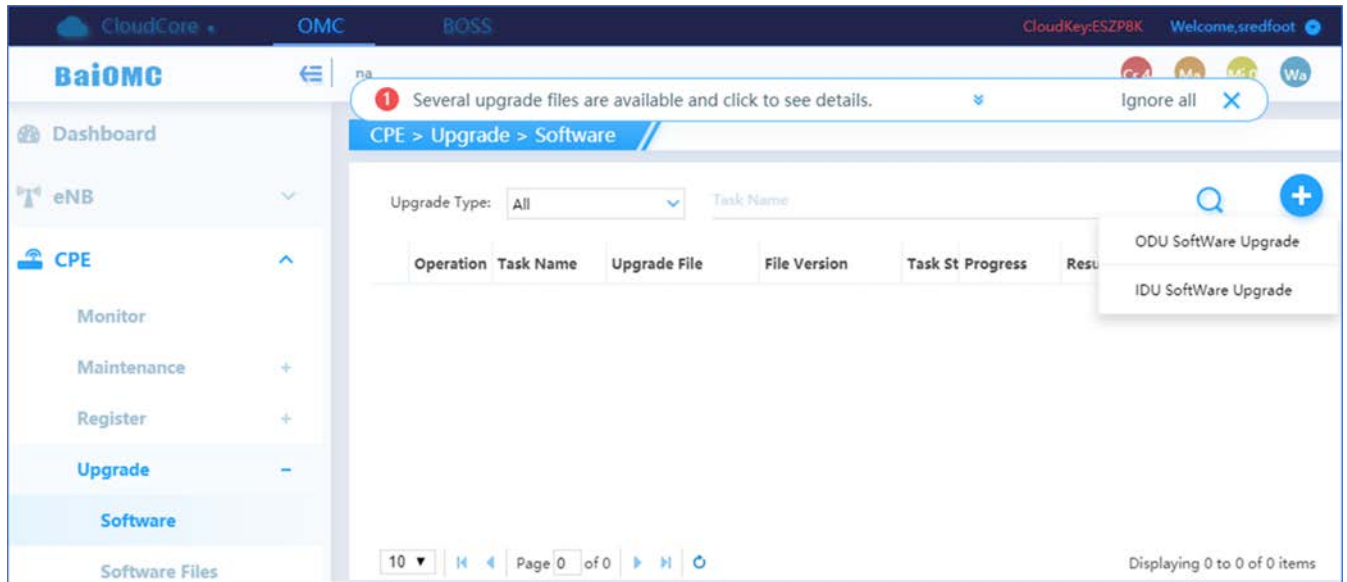
- Under the Operation column for the ODU or IDU image file you need, click on the 3 vertical bubbles icon and select **Download** (Figure 6). Navigate to a folder on your computer where you want to save the image file.

Figure 6: Download



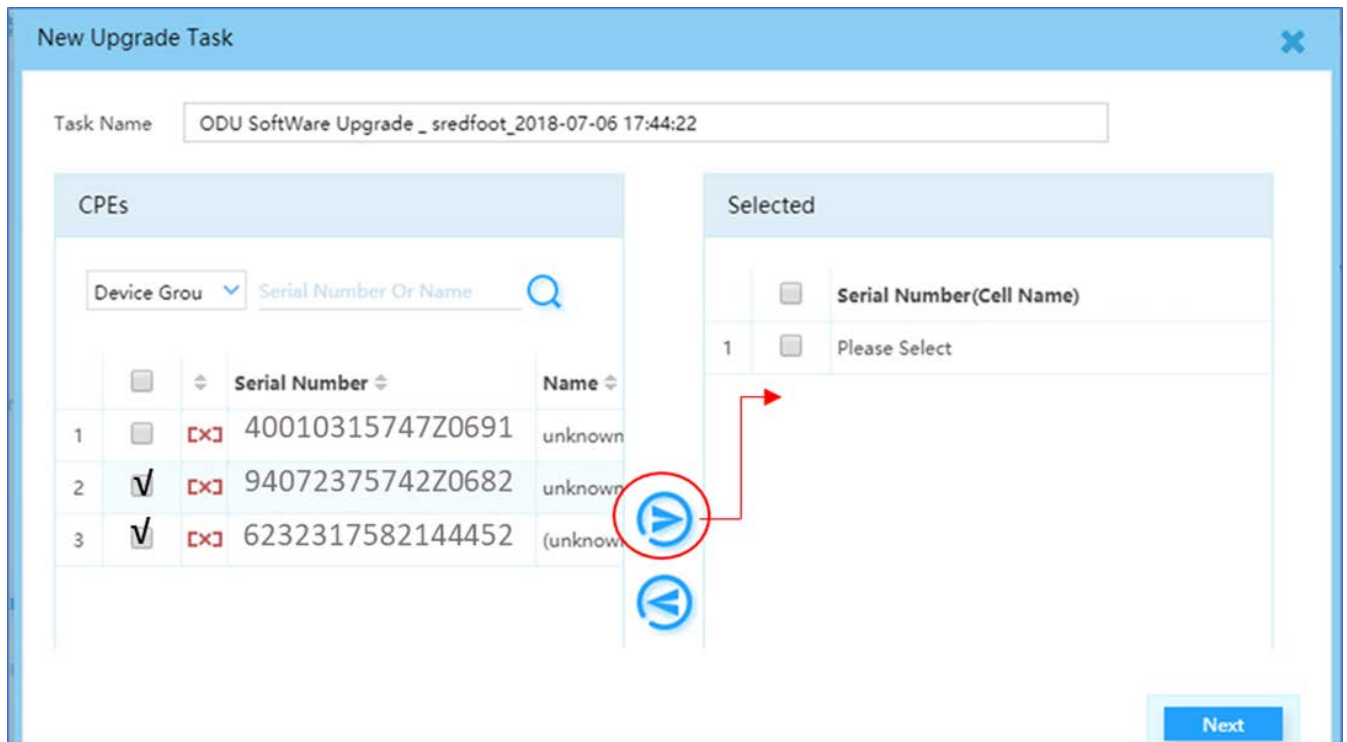
- At the main menu, go to **CPE > Upgrade > Software** (Figure 7). Click on the + Add icon, and select either ODU Software Upgrade or IDU Software Upgrade depending on the model of UEs you are planning to upgrade.

Figure 7: Upgrade > Software



- At the “New Upgrade Task” dialogue window, under “CPEs” check the check box next to each UE you want to upgrade (Figure 8). Click on the right arrow to “move” the UEs to the “Selected” list. Click on **Next**.

Figure 8: New Upgrade Task (1 of 3)



- Select the new firmware image file by clicking on the radio button next to the file name (Figure 9). Click on **Finish**. The new upgrade task will now appear in the Upgrade > Software list (Figure 10).

Figure 9: New Upgrade Task (2 of 3)

New Upgrade Task
✕

Select Upgrade File

		File Name	Product 1	File Size(Byte)	Version	Upload Time	Upload	Descriptio
1	<input checked="" type="radio"/>	BaiCE_AP_2.1.4_NA	IDU	7467357	BCE-IDU-1.2.	2018-03-14 15:33:05	baicells_admi	
2	<input type="radio"/>	IDU-1.2.5-R20-Standard.bin	IDU	7335295	IDU-1.2.5-R2	2017-05-08 22:53:26	baicells_admi	

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Displaying 1 to 2 of 2 items

Previous
Finish
Cancel

Figure 10: New Upgrade Task (3 of 3)

CloudCore
OMC
BOSS
CloudKey:ESZP8K
Welcome, sredfoot

Several upgrade files are available and click to see details. Ignore all ✕

CPE > Upgrade > Software

Upgrade Type: All ▾ Task Name:

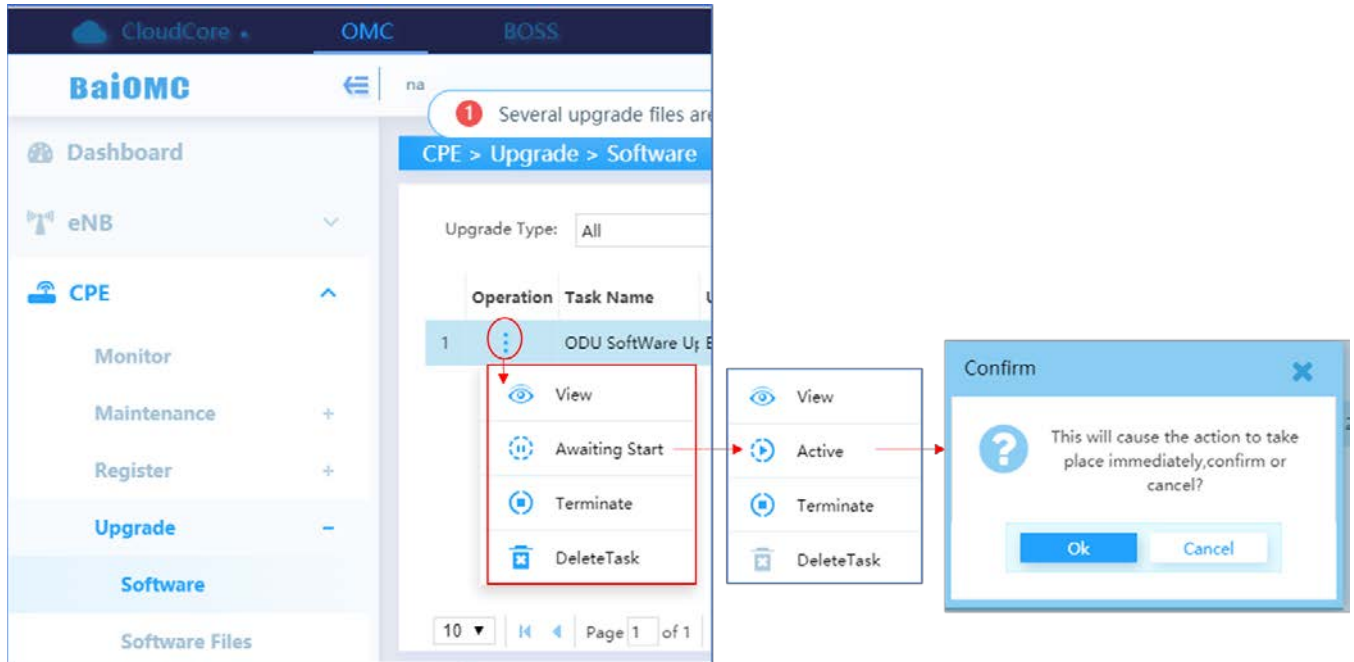
	Operation	Task Name	Upgrade File	File Version	Task Sta	Progress	Results	Start Time	End Time
1	⋮	ODU SoftWare U	BaiCE_AP_2.1.4_NA	BaiCE_AP_2.1.4_NA	Active	Not start		2018-08-08	

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Displaying 1 to 1 of 1 items

- For the new task, under the Operation column click on the 3 vertical bubble icons for additional functions: View, Awaiting Start, Terminate, or DeleteTask (Figure 11). To initiate the upgrade, select **Awaiting Start**. This will change the function name to Active. When you click on **Active**, you will receive a warning that taking this action will cause the upgrade to occur immediately. If you are ready to upgrade, select **OK**. Otherwise, select Cancel.

Figure 11: Operation > Awaiting Start > Active



- To verify the new firmware version is on the UEs that you initiated the upgrade task for, go to **CPE > Monitor** to search for the UEs by CPE Name, MAC Address, or IMSI. Scroll to the right and check the **Software Version** column (Figure 12).

Figure 12: CPE > Monitor (Software Version)

