

Release Notes

OMC 4.2.3 & BOSS 4.3.3

July 2018

Version 1.4

About This Document

This document captures the new features and enhancements that became available with Baicells CloudCore Operations Management Console (OMC) version 4.2.3 and Business & Operations Support System (BOSS) version 4.3.3. It is intended for wireless internet service providers (WISP) and network operators. The information represents a “delta” (what’s new) to prior versions of each application, as covered in their respective release notes and the *Baicells Configuration & Network Administration Guide*.

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Revision Record

Date	Version	Description	SMEs/Contributors	Author/Editor
2-Jly-2018	V1.4	Clarified action to take for assigning service plans	Jesse Raasch	Sharon Redfoot
29-Jun-2018	V1.3, V1.2	SME review	Nitisha Potti, Don White, Cameron Kilton, Katie Heyl, Ronald Mao, Rick Harnish, Jie Lewis	Sharon Redfoot
19-Jun-2018	V1.1	Draft	Junfeng Wu	Sharon Redfoot

Related Documents

Other Baicells technical documents may be found on the Baicells support website (refer to [Contact Us](#)). Following is a list of the technical documents.

UE – Gen 1	Atom 5dBi Indoor CPE User Manual
	Atom 11dBi Outdoor CPE User Manual
	Atom 19.5dBi Outdoor CPE User Manual
UE – Gen 2	Atom ID04/06-3.5/6.5 & ID06-6.5 User Manual
	Atom OD04/06-14/19.5 User Manual
eNB – Gen 1	Nova 1W Base Station Installation Guide
	Nova 1W Quick Start Guide
	Nova 10W Base Station Installation Guide
	Nova 10W Quick Start Guide
eNB – Gen 2	Nova-227 Outdoor 2x250mW TDD eNB Installation Guide
	Nova-227 Quick Start Guide
	Nova-233 Outdoor 2x1WG2 FDD-TDD eNB Installation Guide
	Nova-233 Quick Start Guide
	Nova-243 Outdoor 2x10WG2 FDD-TDD eNB Installation Guide
	Nova-243 Quick Start Guide
	Nova-436 Outdoor 4x1W CCA TDD eNB Installation Guide
	Nova-436 Quick Start Guide
	Nova-446 Outdoor 4x10W FDD eNB Installation Guide (forthcoming)
	Nova-446 Quick Start Guide (forthcoming)
	elfcell-220 Indoor 2x50mW FDD eNB Installation Guide (forthcoming)
	elfcell-220 Quick Start Guide (forthcoming)
NeutralCell Indoor Multi FDD-TDD Small Cell Installation Guide (forthcoming)	NeutralCell Quick Start Guide (forthcoming)
	NeutralCell Quick Start Guide (forthcoming)
Neutrino-224 Indoor 2x125mW FDD-TDD eNB Installation Guide (forthcoming)	Neutrino-224 Quick Start Guide (forthcoming)
	Neutrino-224 Quick Start Guide (forthcoming)
SolarCell Outdoor Solution Installation Guide (forthcoming)	SolarCell Quick Start Guide (forthcoming)
	SolarCell Quick Start Guide (forthcoming)
Spectra LTE-U Outdoor 2x500mW FDD eNB Installation Guide (forthcoming)	Spectra LTE-U Quick Start Guide (forthcoming)
	Spectra LTE-U Quick Start Guide (forthcoming)
EPC, OMC, BOSS, HaloB, OAM & System Manuals	Baicells Configuration & Network Administration Guide

	Baicells Handoff Configuration Guidelines (Beta trial)
	Baicells BOSS API Manual
	Baicells Operation, Maintenance, & Troubleshooting Guide
	Baicells HaloB User Guide
	Baicells Dual Carrier Configuration Quick Guide
	Baicells Enterprise EPC Deployment Guide (forthcoming)
	Baicells Enterprise EPC User Guide (forthcoming)

API – Application Protocol Interface

CCA – Component Carrier Aggregation

CPE – Customer Premise Equipment, another name for UE

eNB – eNodeB, sometimes referred to as base station or small cell

EPC – Evolved Packet Core

FDD – Frequency Division Duplexing

LTE – Long-Term Evolution

OAM – Operation, Administration, and Maintenance

TDD – Time Division Duplexing

UE – User Equipment, also called CPE

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Table of Contents

- 1. OMC 4.2.3..... 1**
 - 1.1 SECURITY FEATURES..... 1
 - 1.2 HALOB SUPPORT 5
 - 1.3 OAM / UI ENHANCEMENTS 5
- 2. BOSS 4.3.3 9**
 - 2.1 MINOR ENHANCEMENTS..... 9
 - 2.2 CLOUDCORE BILLING..... 11
 - 2.3 KNOWN ISSUE 11

List of Figures

- FIGURE 1-1: CAPTCHA VERIFICATION CODE 1
- FIGURE 1-2: SECURITY RULE (1 OF 3) 2
- FIGURE 1-3: SECURITY RULE (2 OF 3) 2
- FIGURE 1-4: SECURITY RULE (3 OF 3) 3
- FIGURE 1-5: ROLESET 3
- FIGURE 1-6: ADD ROLESET 4
- FIGURE 1-7: ADD ROLESET, CONT..... 4
- FIGURE 1-8: SELECT ROLESET WHEN ADDING USER GROUP..... 5
- FIGURE 1-9: ENB > REGISTER, CPE > REGISTER..... 6
- FIGURE 1-10: ENB > UPGRADE 6
- FIGURE 1-11: STRATEGY > PCI LOCK 7
- FIGURE 1-12: ALARM COLUMN 7
- FIGURE 1-13: MAINTENANCE SUB-MENU..... 8
- FIGURE 1-14: LGW & MAC ADDRESS COLUMNS 8
- FIGURE 1-15: BULK CPE REBOOTS..... 9

1. OMC 4.2.3

The Baicells CloudCore Operations Management Console (OMC) version 4.2.3 release provides new features and enhancements in three areas:

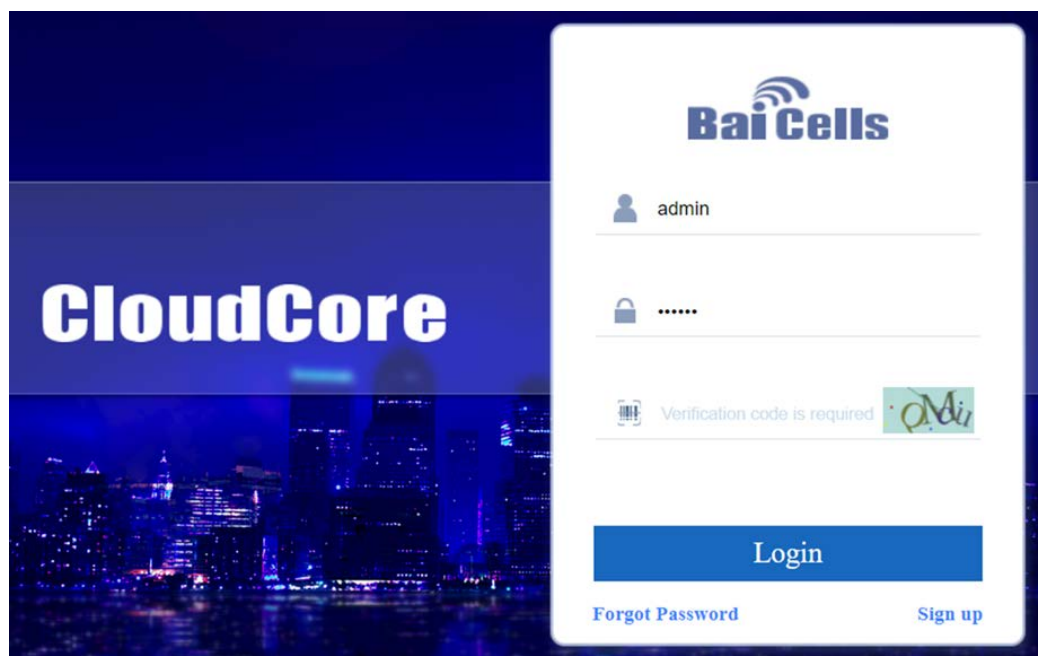
- Security
- HaloB
- Operation, administration, and maintenance (OAM) / user interface (UI)

1.1 Security Features

OMC v4.2.3 offers the following security enhancements.

- Add an auto-generated login verification code (Figure 1-1).

Figure 1-1: CAPTCHA Verification Code



- Allow the OMC super administrator to define additional security parameters for other OMC users, such as limiting the number of failed logins before being locked out. Go to CloudCore > Security Rule (Figures 1-2, 1-3, and 1-4).

Figure 1-2: Security Rule (1 of 3)

The screenshot shows the CloudCore interface with the following configuration for the 'User Rule':

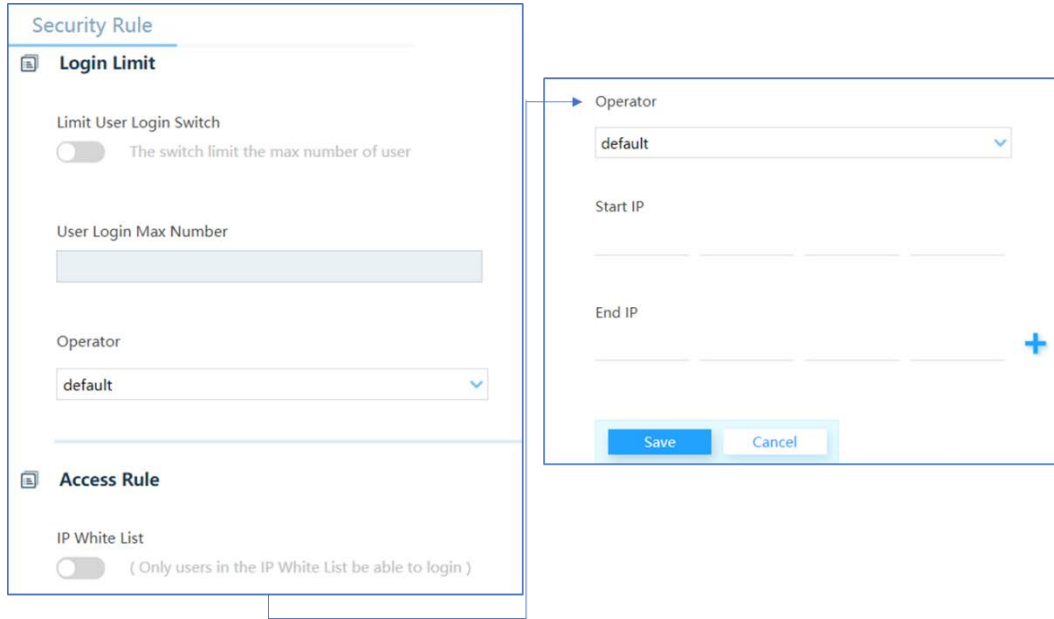
- Enable minimum length of user name: No
- Min characters long of user name: 6
- Need changed when first time login: No
- Password length: 6 - 16

Figure 1-3: Security Rule (2 of 3)

The screenshot shows the following configuration for the 'Security Rule':

- Password Rule:** At least contain two type of letters, numbers, chars
- Password Expiry (Days):** 90
- Notice before password expiry (Days):** 10
- Login Rule:**
 - Max number of allowed login failure times: 5
- Unfreeze account time (min):** 5
- Lock Screen Time (min):** 30
- Session expiration time (min):** 30
- Enable login notification:** No
- Login message:** User rights must be processed after login

Figure 1-4: Security Rule (3 of 3)



- [<here>](#) Define roles within user groups – The OMC super administrator can now set up different roles within an OMC user group (Figure 1-5). When you click + to add a roleset, the dialog window shown in Figures 1-6 and 1-7 appears. You can select which OMC menus and fields you want this role to be able to view or change within a specified user group. You will need to define the RoleSet roles before adding or modifying user groups, as you will select the role(s) as a part of adding or modifying a user group (Figure 1-8).

Figure 1-5: RoleSet

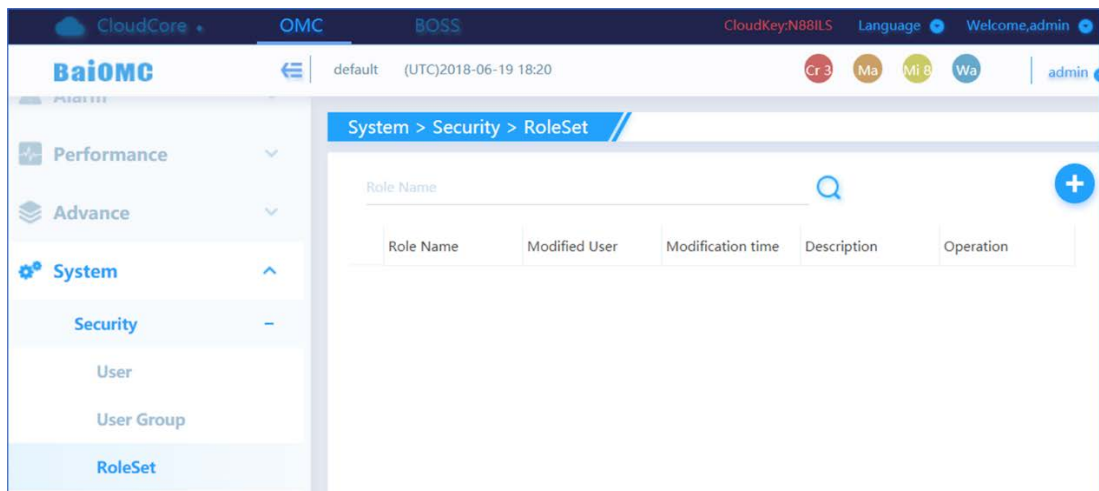


Figure 1-6: Add RoleSet

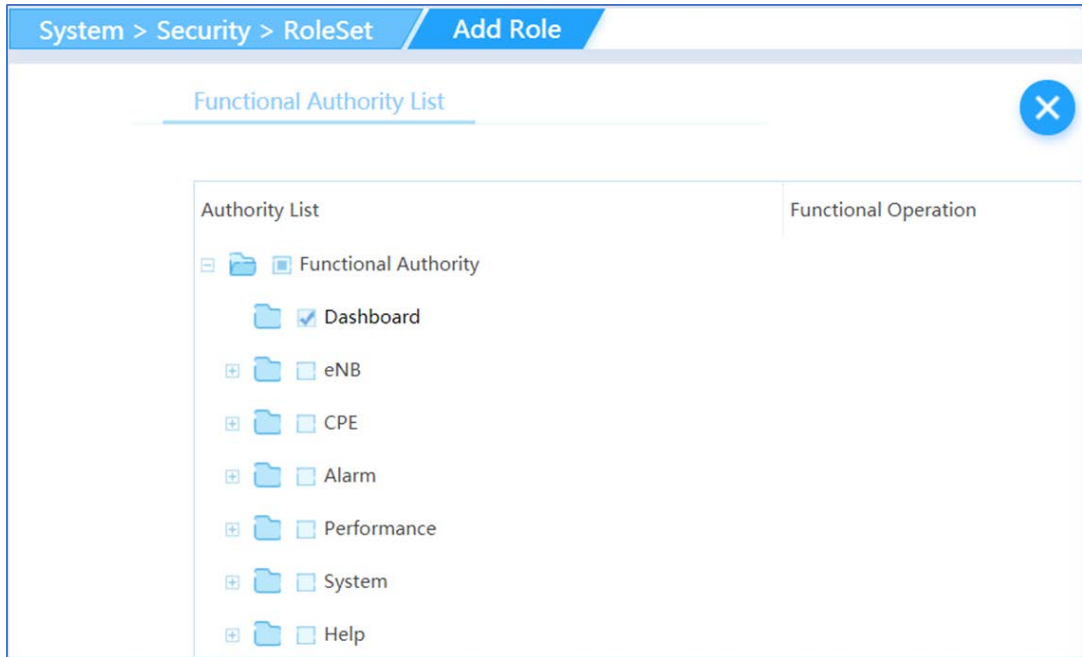
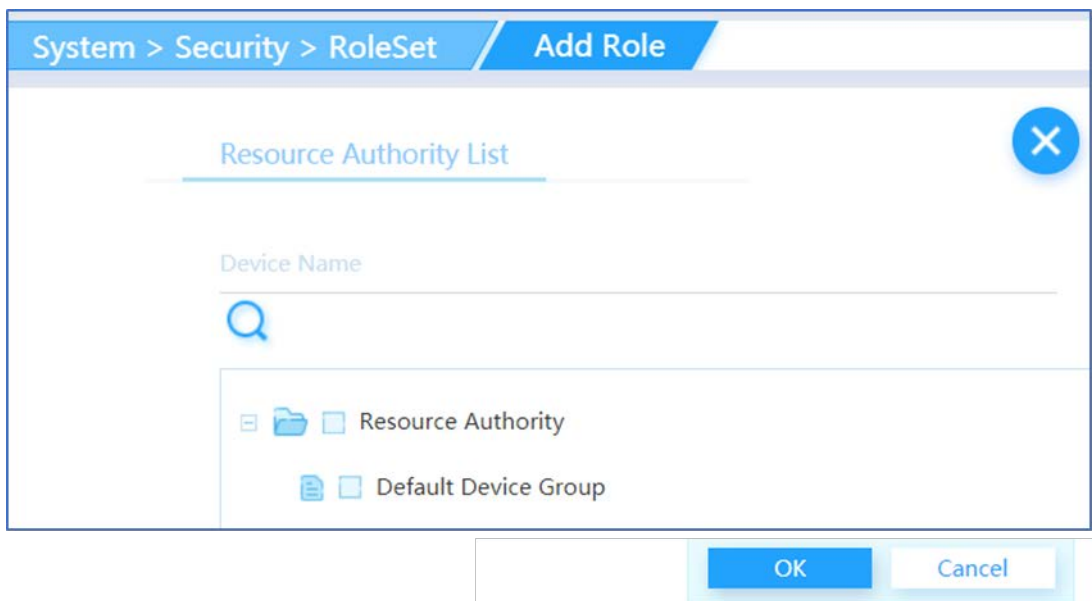
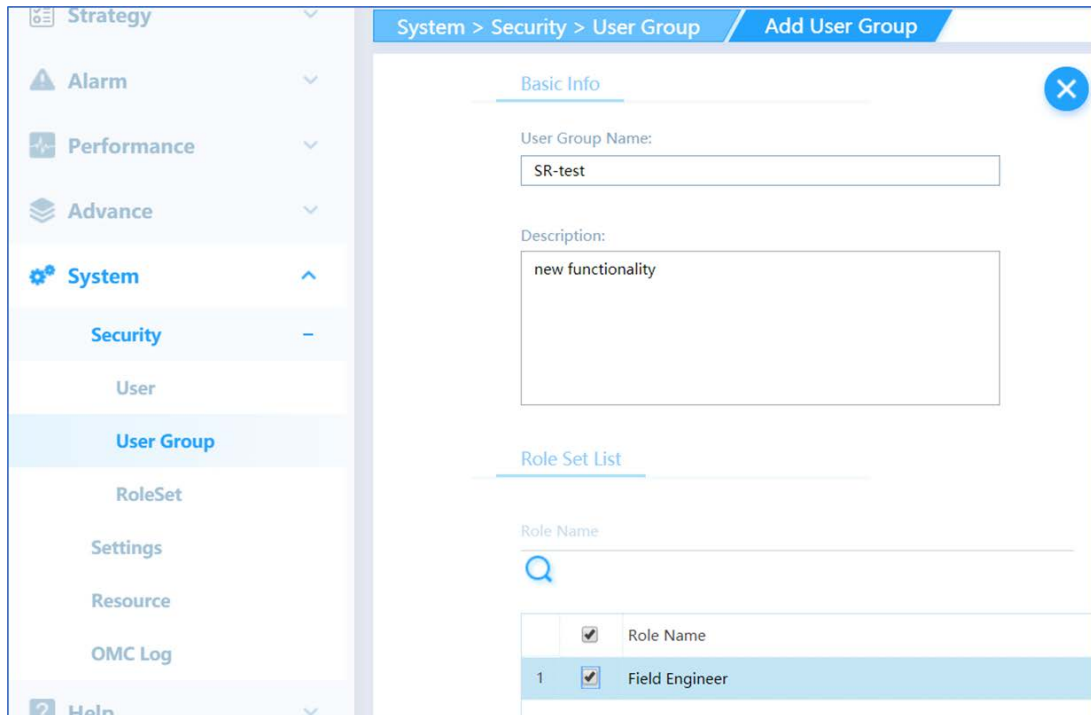


Figure 1-7: Add RoleSet, Cont.



OK Cancel

Figure 1-8: Select RoleSet When Adding User Group



1.2 HaloB Support

Reference: *Baicells HaloB User Guide*

With version 4.2.3 the HaloB feature is now integrated in the CloudCore OMC. Previously, operators could only use the eNB GUI to activate HaloB on an eNB.

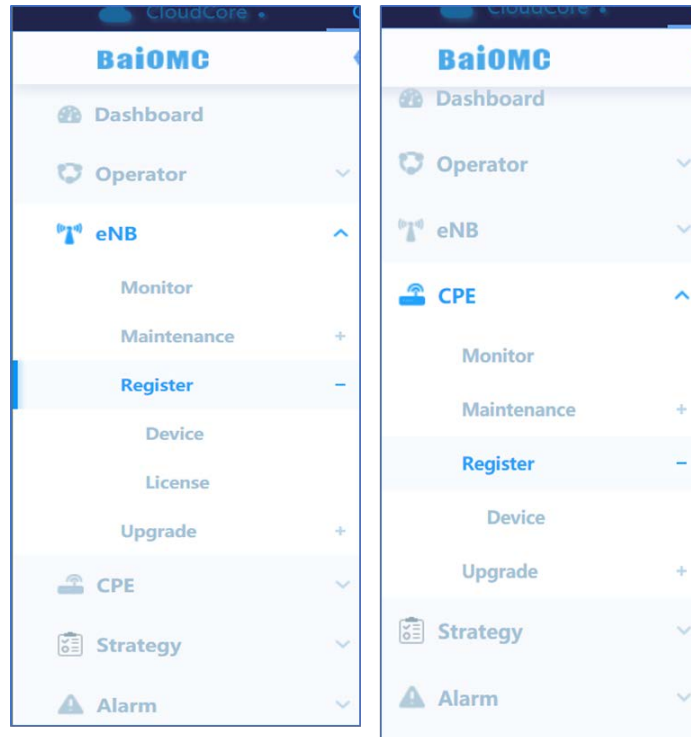
Under OMC > eNB > Monitor, on the row displaying the eNB of interest, you can enable/disable HaloB operation. Under the Operation column, select Information to add the HaloB feature key information.

1.3 OAM / UI Enhancements

The following OAM and user interface enhancements were made in OMC v4.2.3.

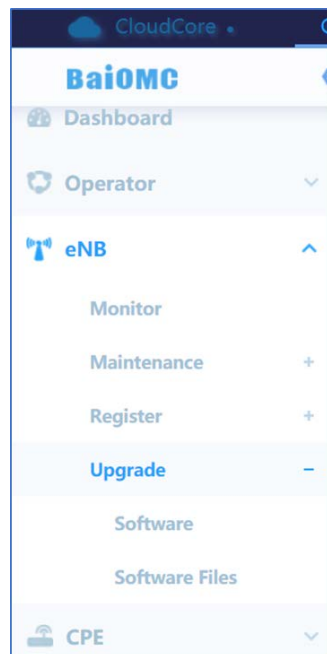
- System level
 - Improved display announcing availability of new firmware
 - eNB and UE onboarding function simplified by moving from System > Device Management > Device to eNB > Register and CPE > Register (Figure 1-9)

Figure 1-9: eNB > Register, CPE > Register



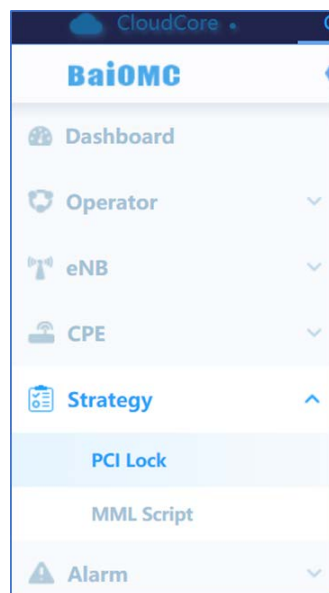
- eNB upgrade function location moved from eNB > Strategy > Upgrade to eNB > Upgrade (Figure 1-10)

Figure 1-10: eNB > Upgrade



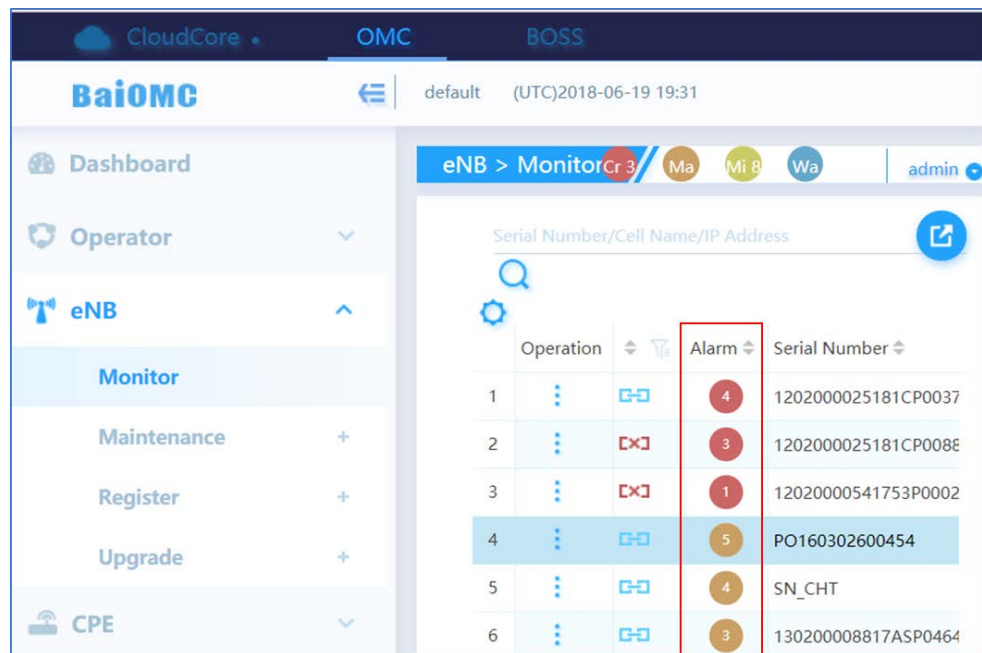
- PCI Lock feature location simplified by moving from CPE > Strategy > PCI Lock to Strategy > PCI Lock (Figure 1-11)

Figure 1-11: Strategy > PCI Lock



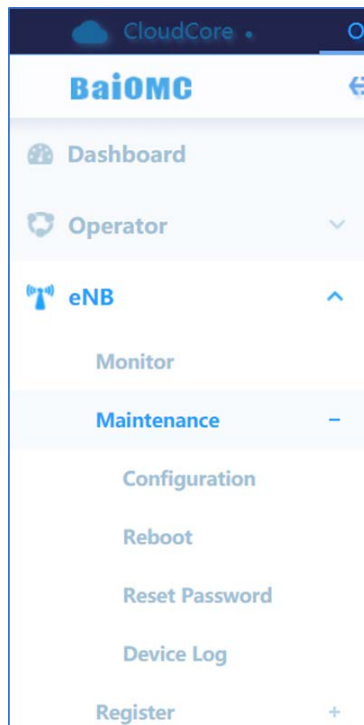
- eNB level
 - Added alarm column in eNB > Monitor to display the number of active alarms for each eNB (Figure 1-12)

Figure 1-12: Alarm Column



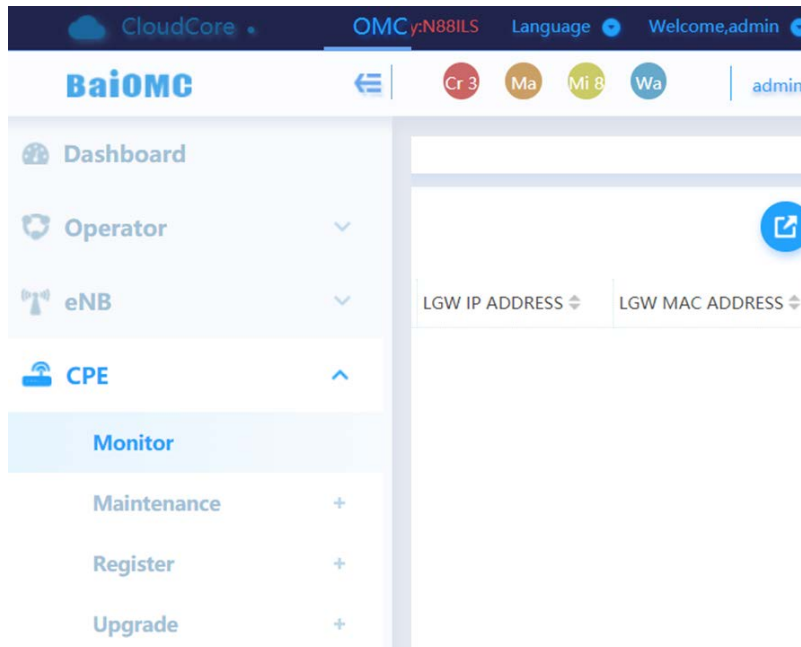
- Count of all attached UEs placed in clickable link under eNB > Monitor
- New maintenance section added to eNB menu to support bulk reboots, password resets, and log collections (Figure 1-13)

Figure 1-13: Maintenance Sub-Menu



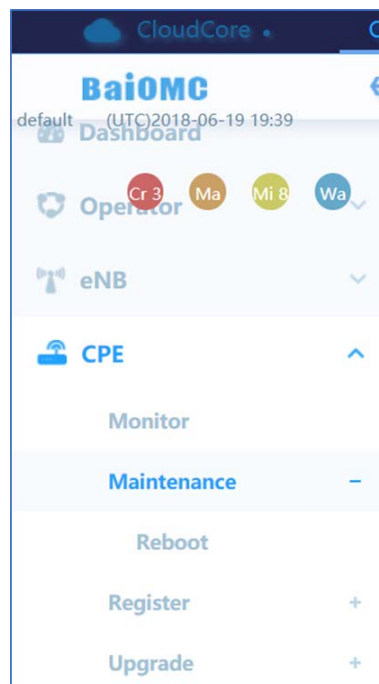
- UE level
 - Added LGW IP address and MAC address columns to CPE > Monitor (Figure 1-14)

Figure 1-14: LGW & MAC Address Columns



- New maintenance section added to CPE menu to support bulk reboots (Figure 1-15)

Figure 1-15: Bulk CPE Reboots



2. BOSS 4.3.3

2.1 Minor Enhancements

The user group roles explained in OMC 4.2.3 ([section 1 Security Features](#)) also apply to the BOSS user groups. A few minor enhancements, such as syncing the CPE name to the OMC when editing a subscriber name* (Figures 1-16 and 1-17), and more cosmetic style modifications, occurred in this release.

*NOTE: The CPE Name Sync feature may work only with certain UE firmware versions.

Figure 1-16: Sync BOSS-OMC CPE Name (1 of 2)

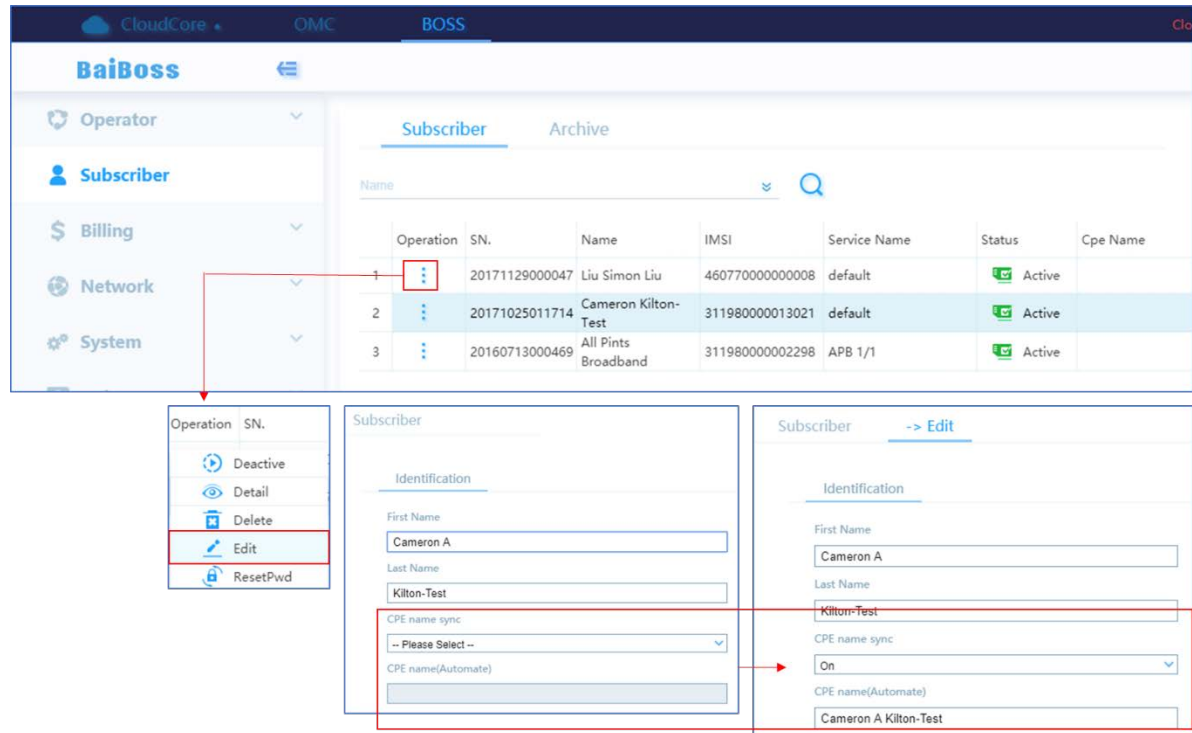
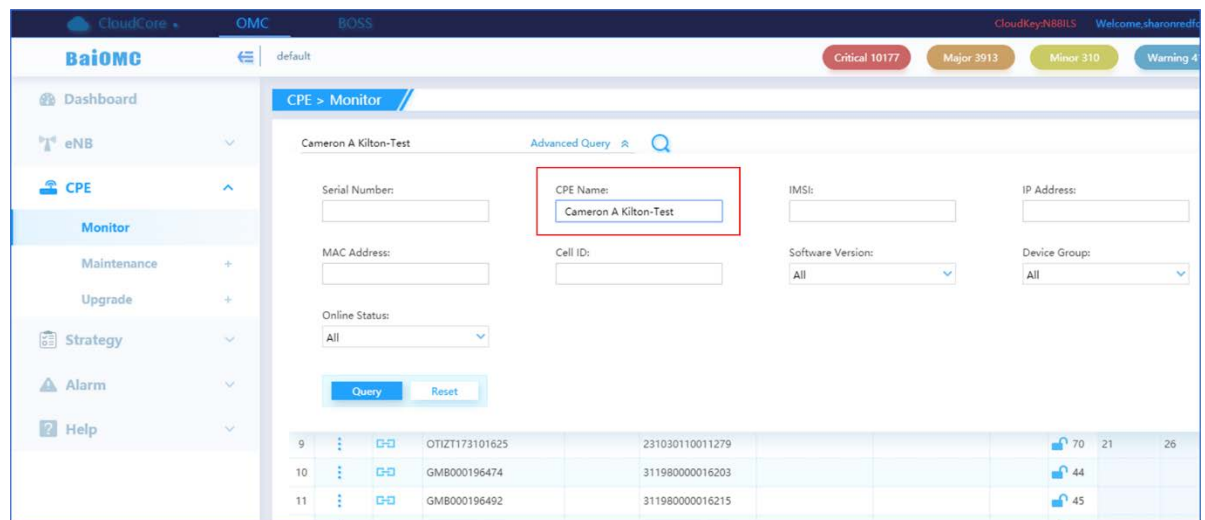
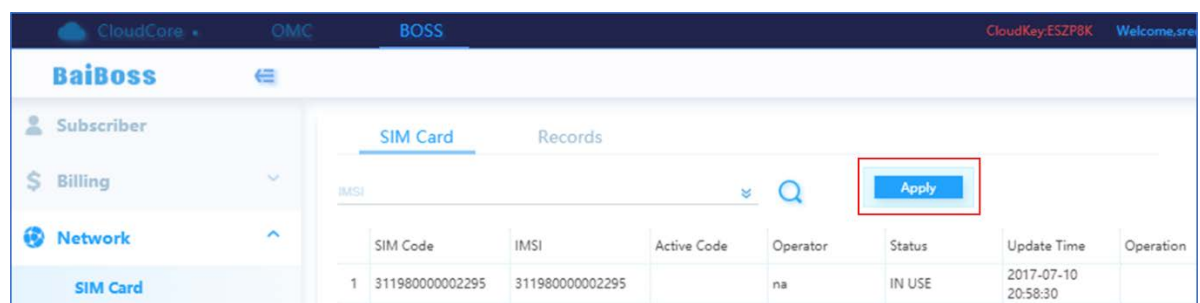


Figure 1-17: Sync BOSS-OMC CPE Name (2 of 2)



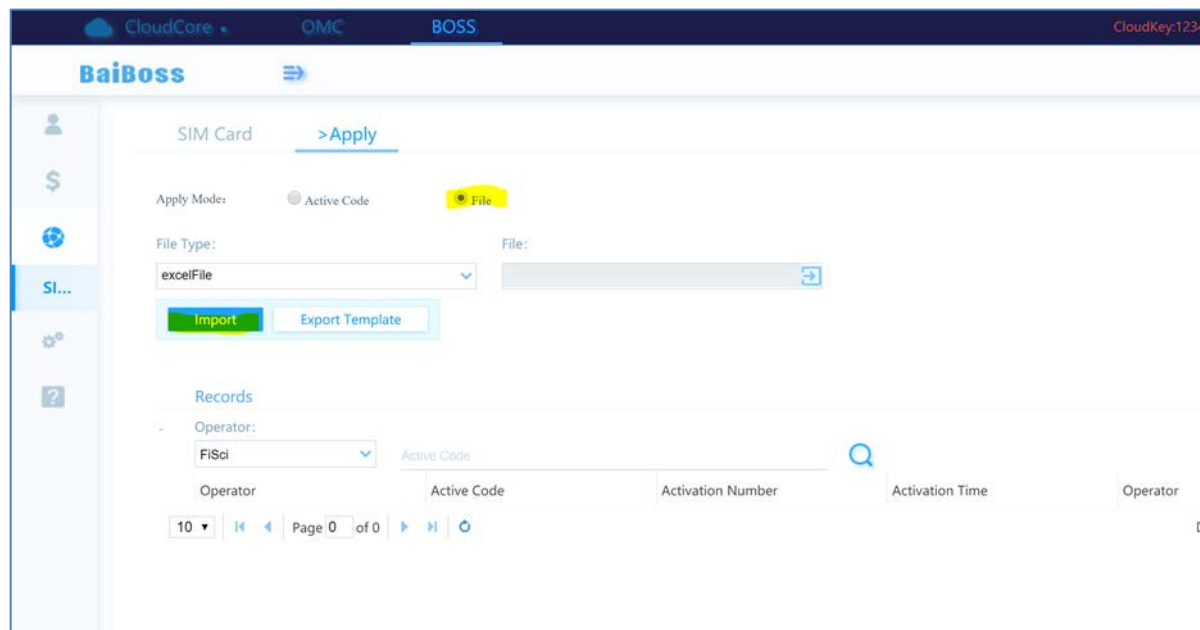
How you import SIM card information changed slightly. Go to Network > SIM Card, and click on Apply (Figure 1-18).

Figure 1-18: Apply



To import the SIMs using an Excel file, select the radio button next to File, navigate to the file on your desktop, and then select Import (Figure 1-19).

Figure 1-19: Import File



2.2 CloudCore Billing

Please refer to this announcement posted by Baicells June 29, 2018.

<https://community.na.baicells.com/t/baicells-cloudcore-billing-to-start-on-august-1st-2018/772>

2.3 Possible Issue Assigning Service Plan to Subscriber

If you experience an issue with assigning a service plan to a subscriber in BOSS 4.3.3, please clear your browsing cache to resolve the issue.