

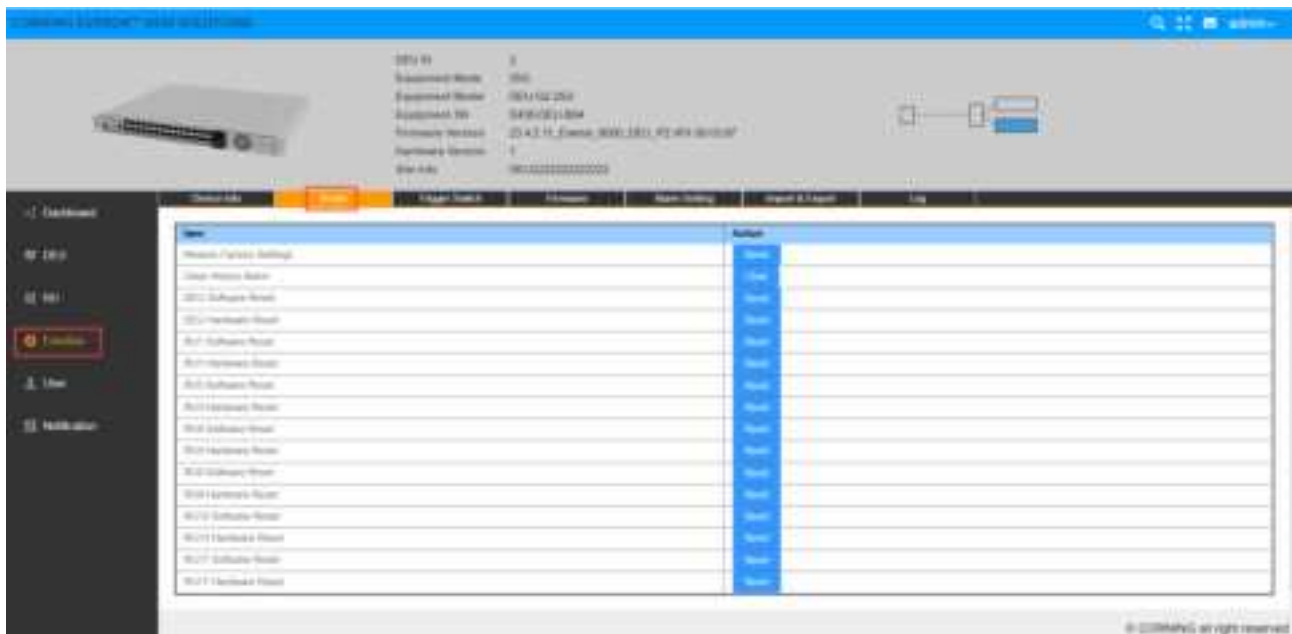


Figure 168. DEU25G Function Reset



Figure 169.DEU 10 G Function Reset

5.3.2.3 Trigger Switch

Click DEU->Function->Trigger Switch.

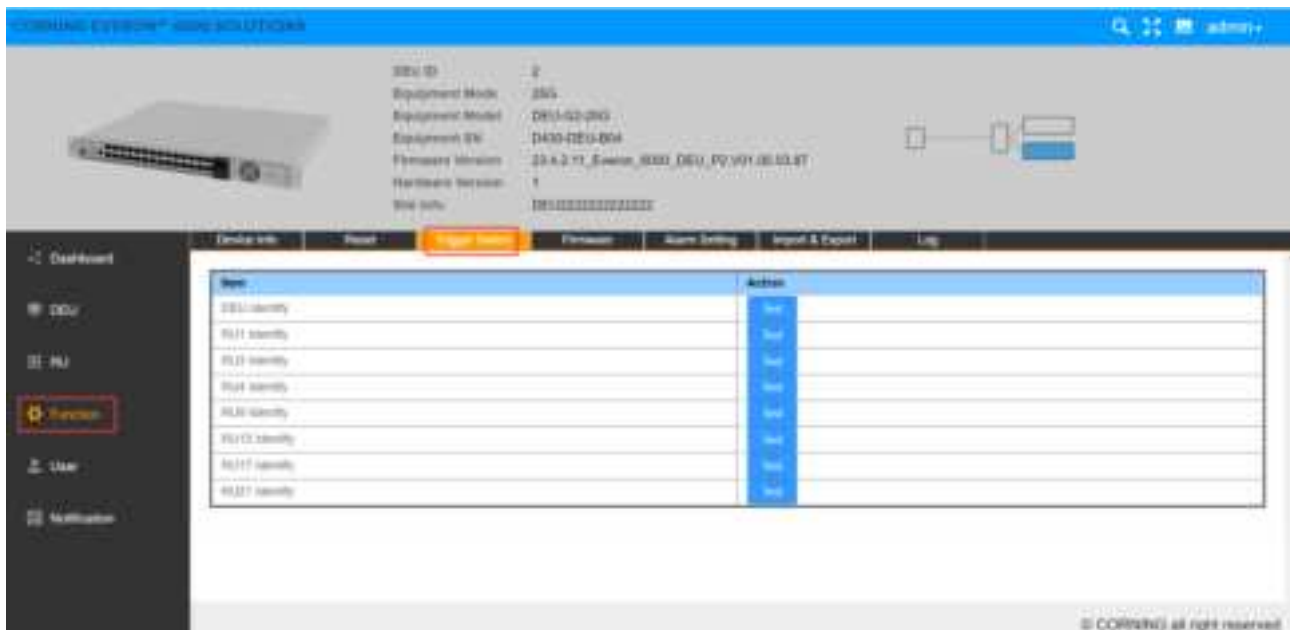


Figure 170.DEU 25G—Function--Trigger Switch

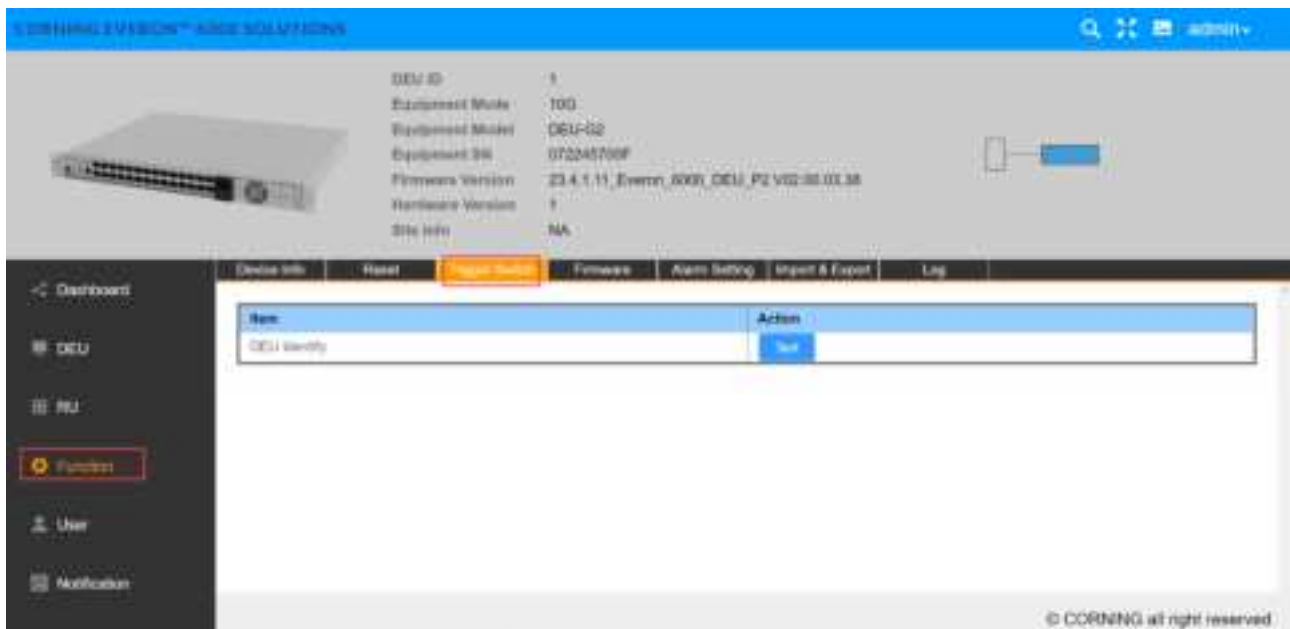


Figure 171.DEU 10 G—Function--Trigger Switch

5.3.2.4 Firmware

Click Function Firmware and the firmware info can be viewed and upgraded.

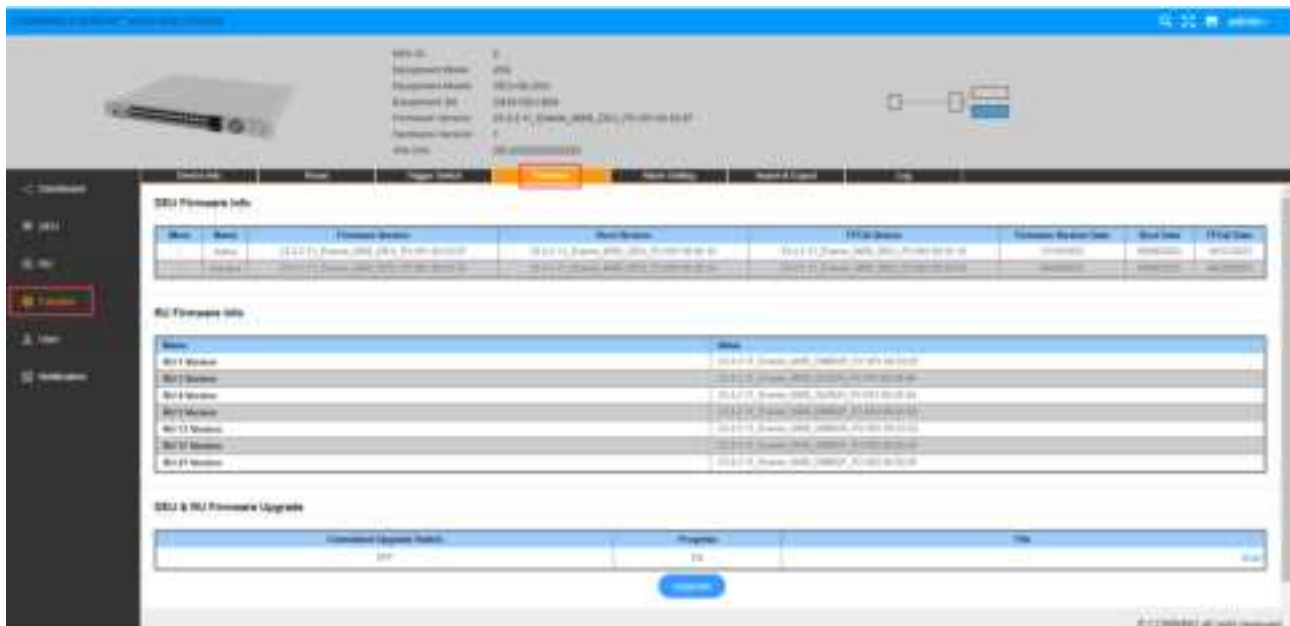


Figure 172. DEU 25G Function Firmware

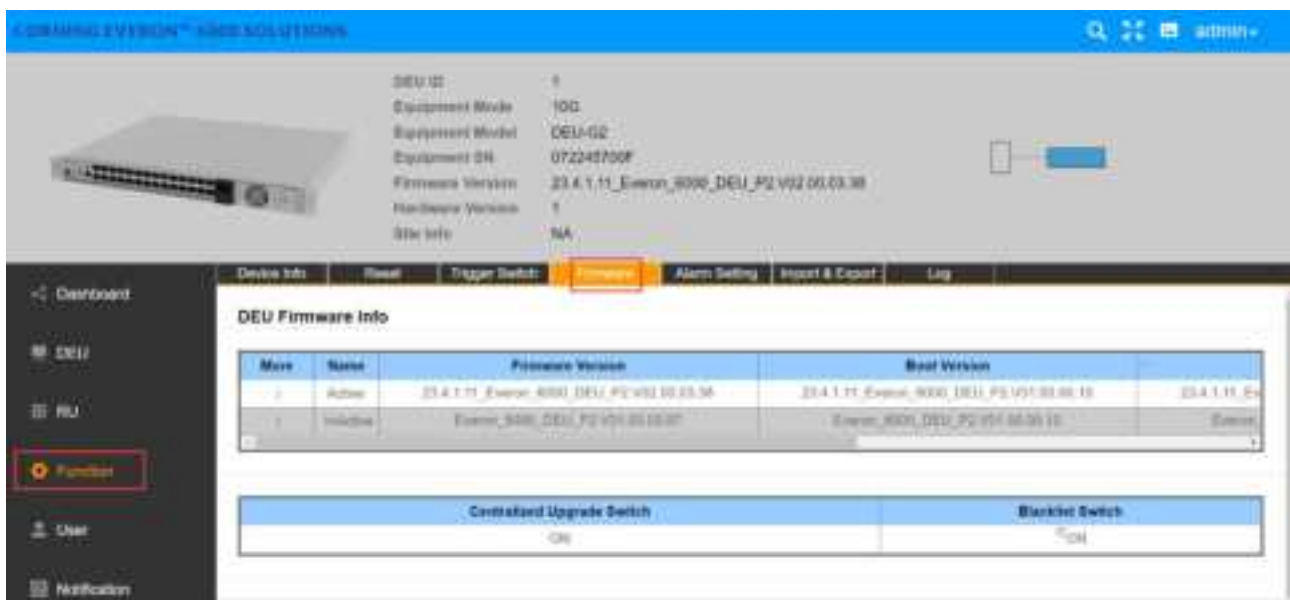


Figure 173. DEU 10G Function Firmware

5.3.2.5 Alarm Setting

Click Function Alarm Setting to set the DEU alarm detect duration.

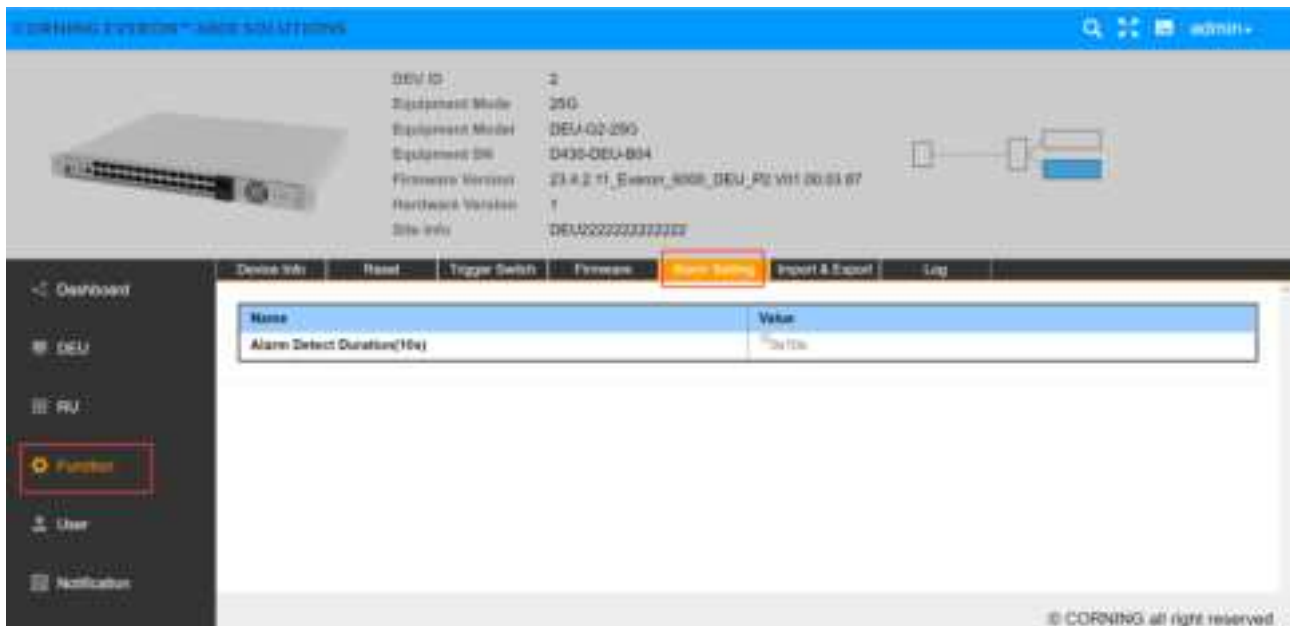


Figure 174. DEU25G Function Alarm Setting



Figure 175.DEU10G Function Alarm Setting

5.3.2.6 Import & Export

Import and export the DEU configuration by clicking Function Import & Export.

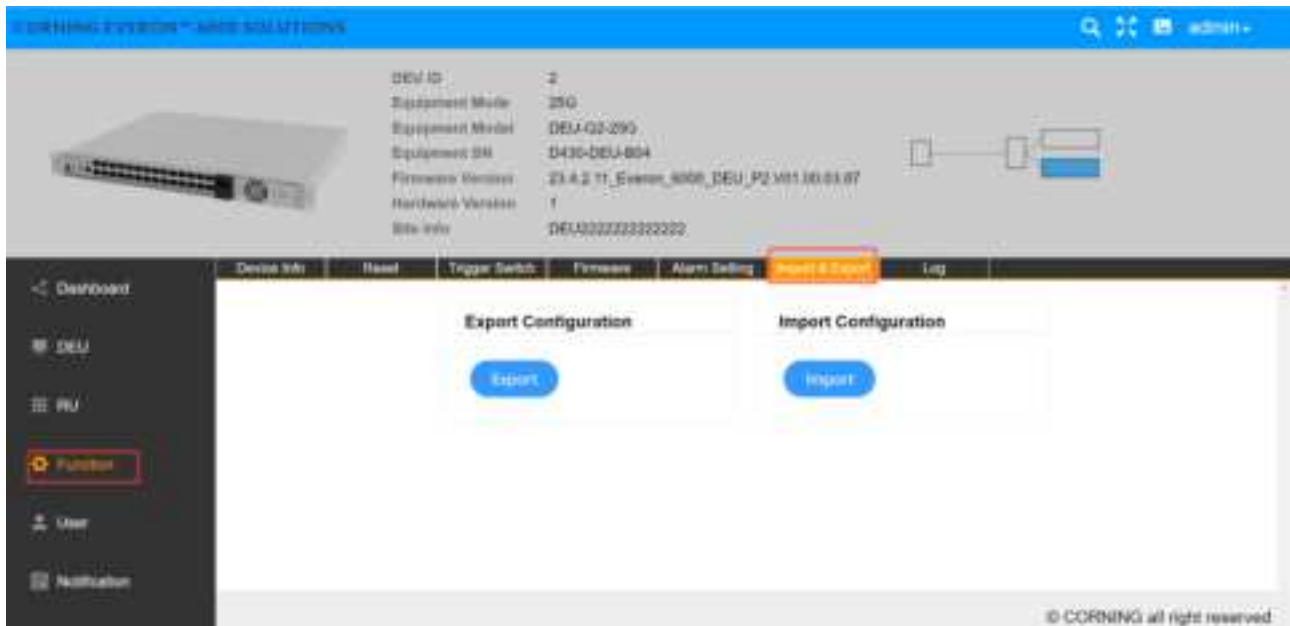


Figure 176.DEU25G Function Import & Export

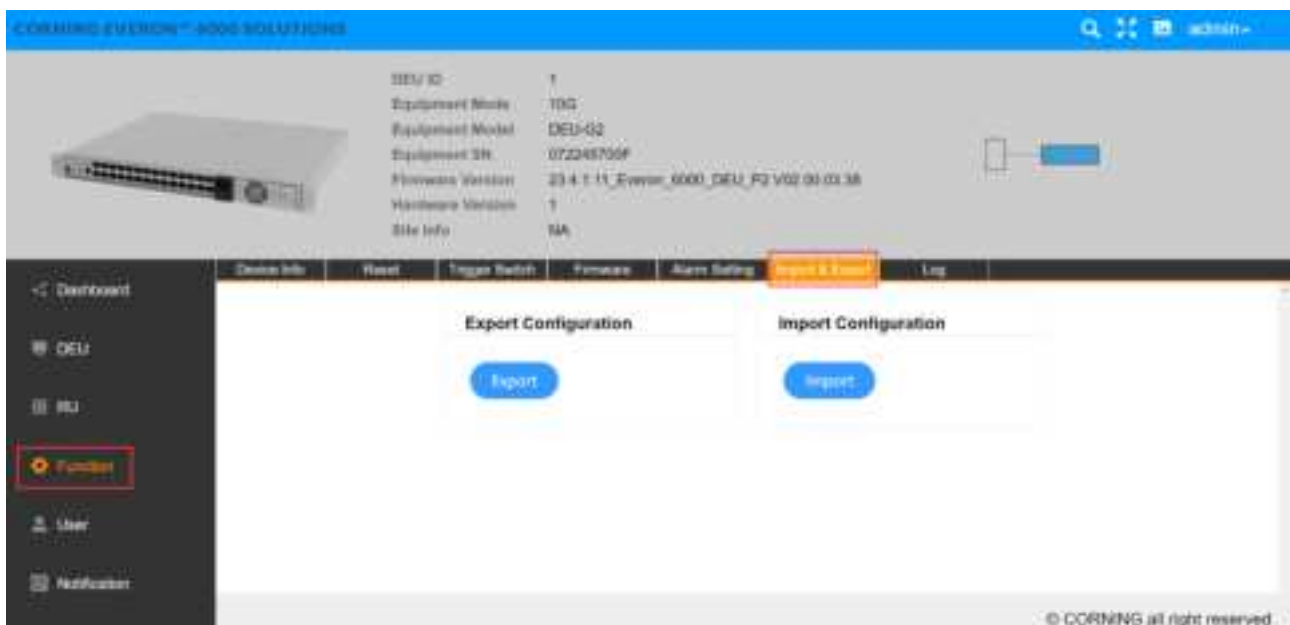


Figure 177.DEU 10 G Function Import & Export

5.3.2.7 Log

Click Function Log to export the log of DEU for problem analysis.

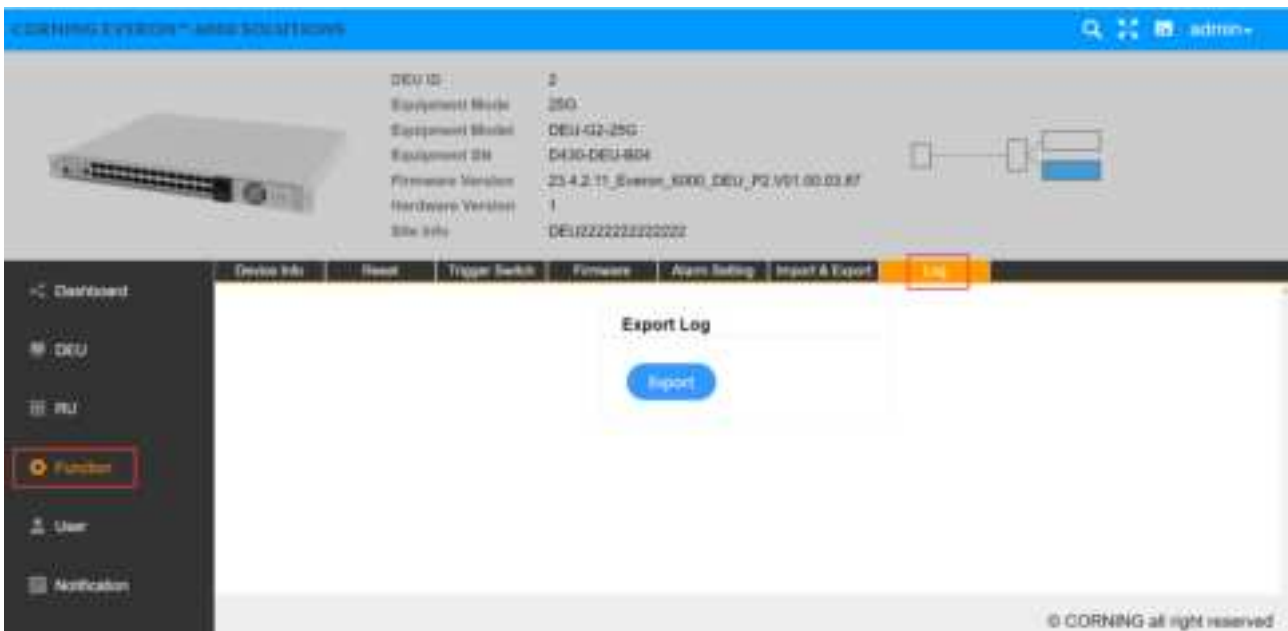


Figure 178.DEU 25G Function Log

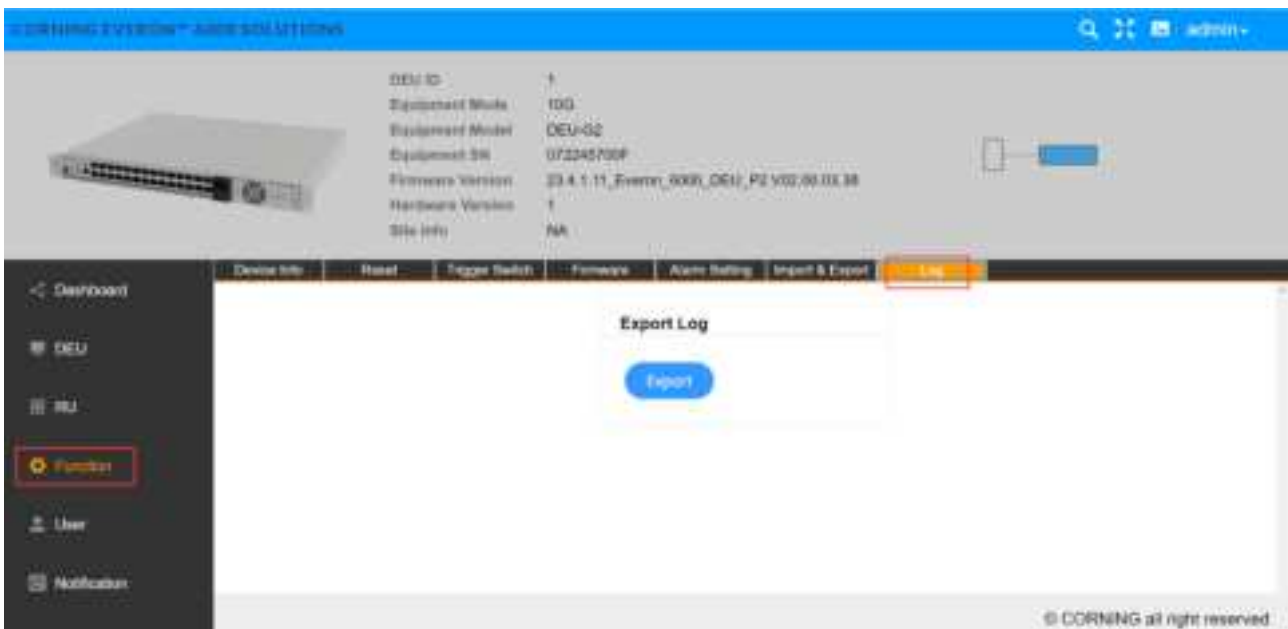


Figure 179.DEU 10G Function Log

5.3.3 DEU -> User Info

5.3.3.1 Password

Click User->Password to reset DEU password.

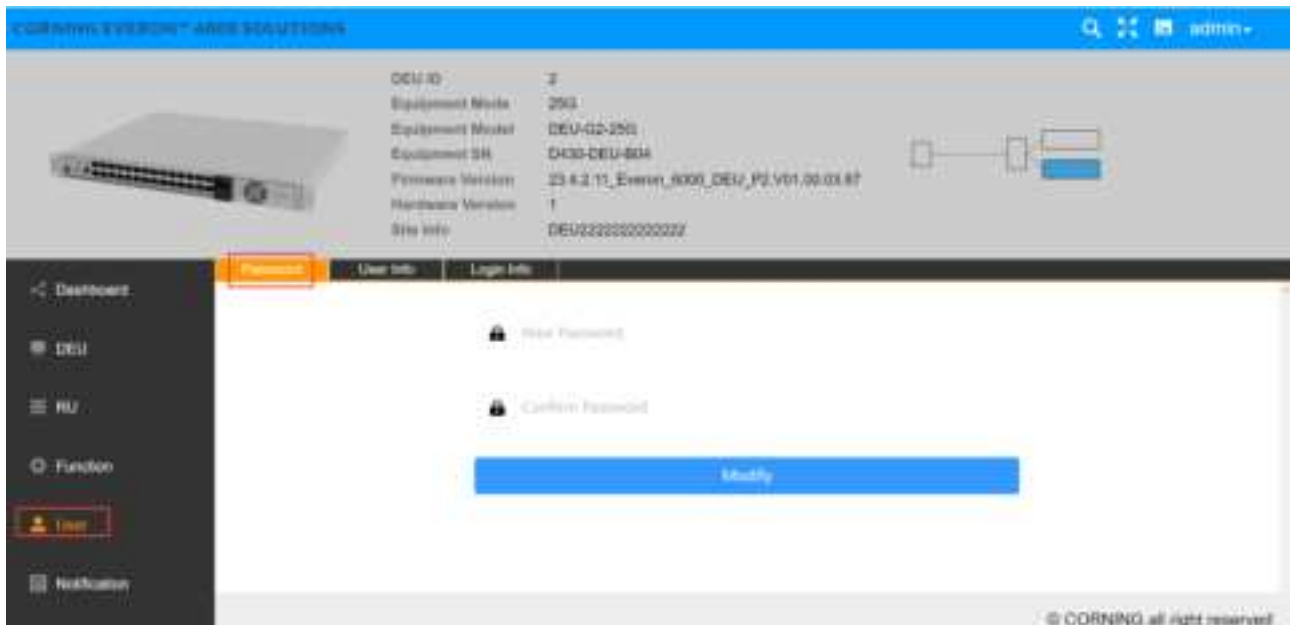


Figure 180. DEU25G User Password

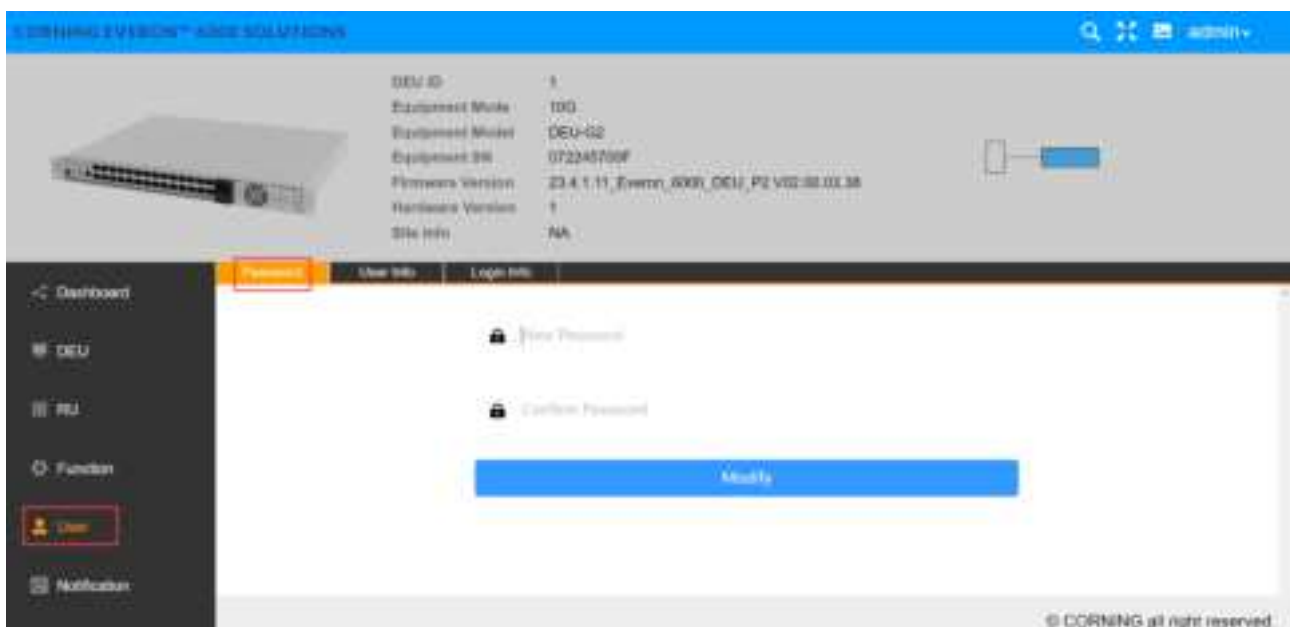


Figure 181. DEU 10 G User Password

5.3.3.2 User Info

Click User->User Info to add a user to set the role and password.

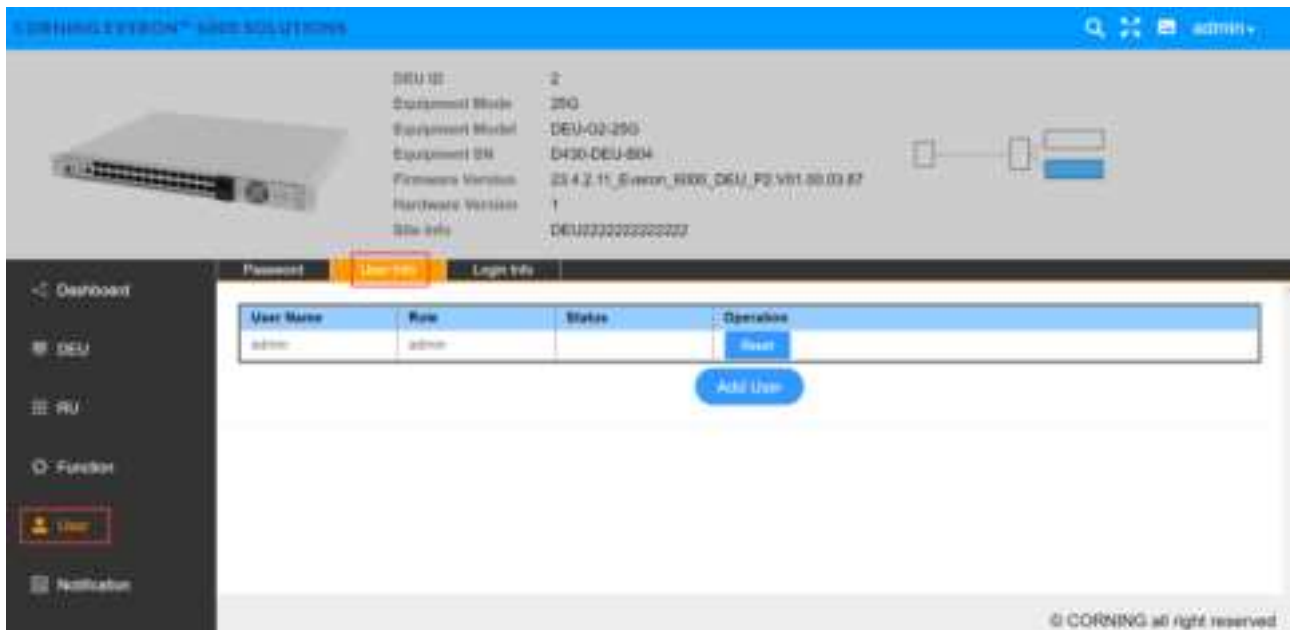


Figure 182.DEU25G User User Info

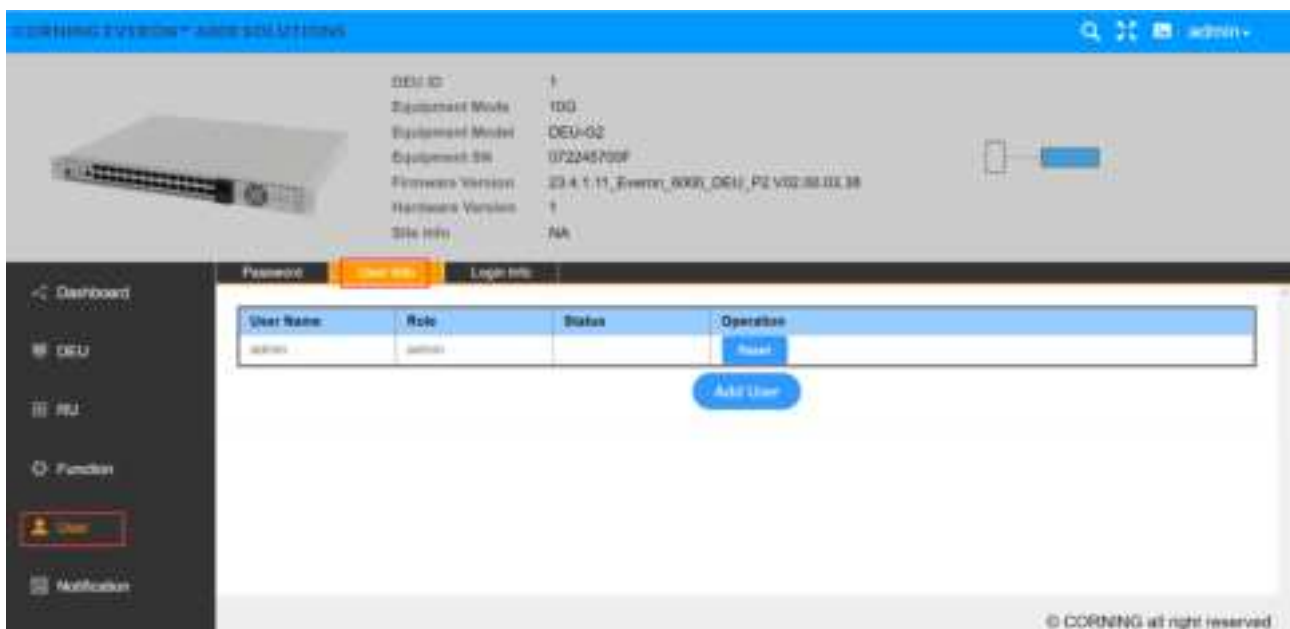


Figure 183.DEU 10G User User Info

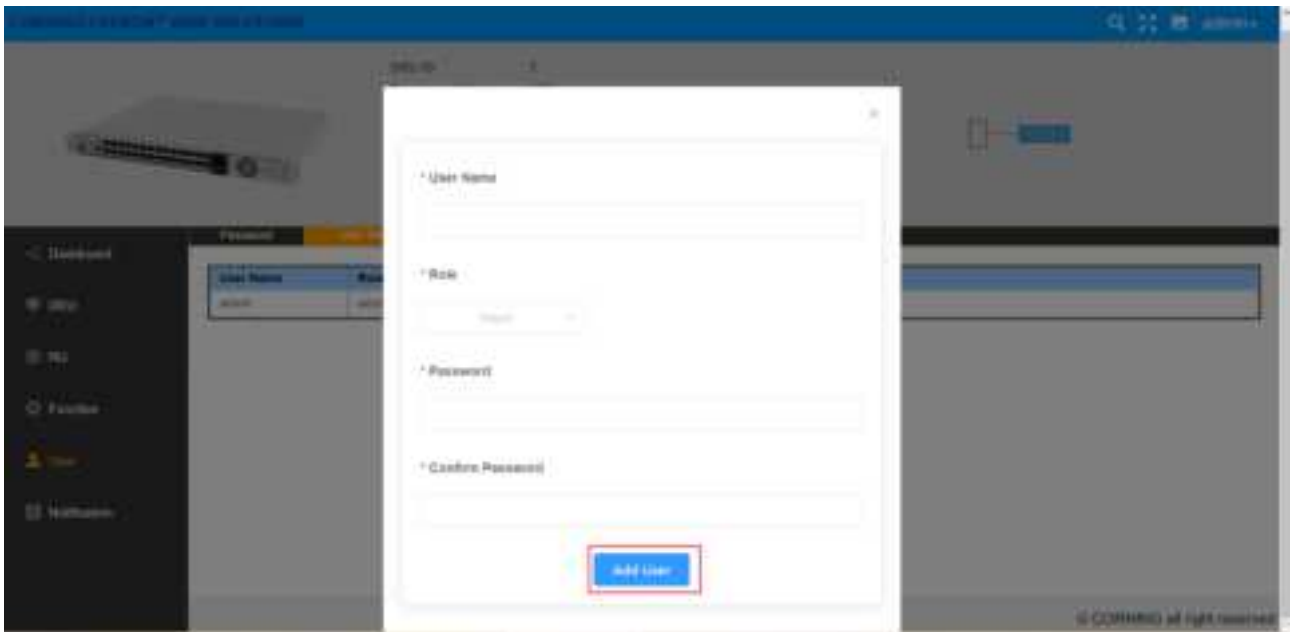


Figure 184.DEU10G/25G User User Info Add User

5.3.3.3 Login Info

Click User->Login Info to set the max value of entering the password.

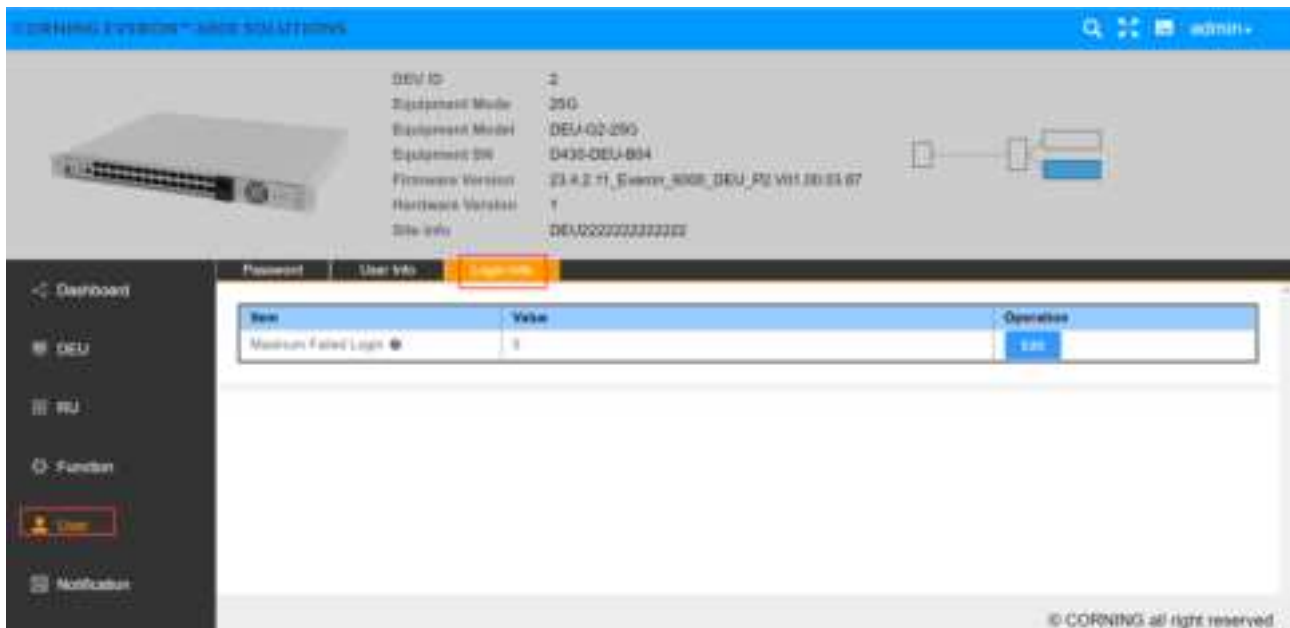


Figure 185. DEU25G User Login Info

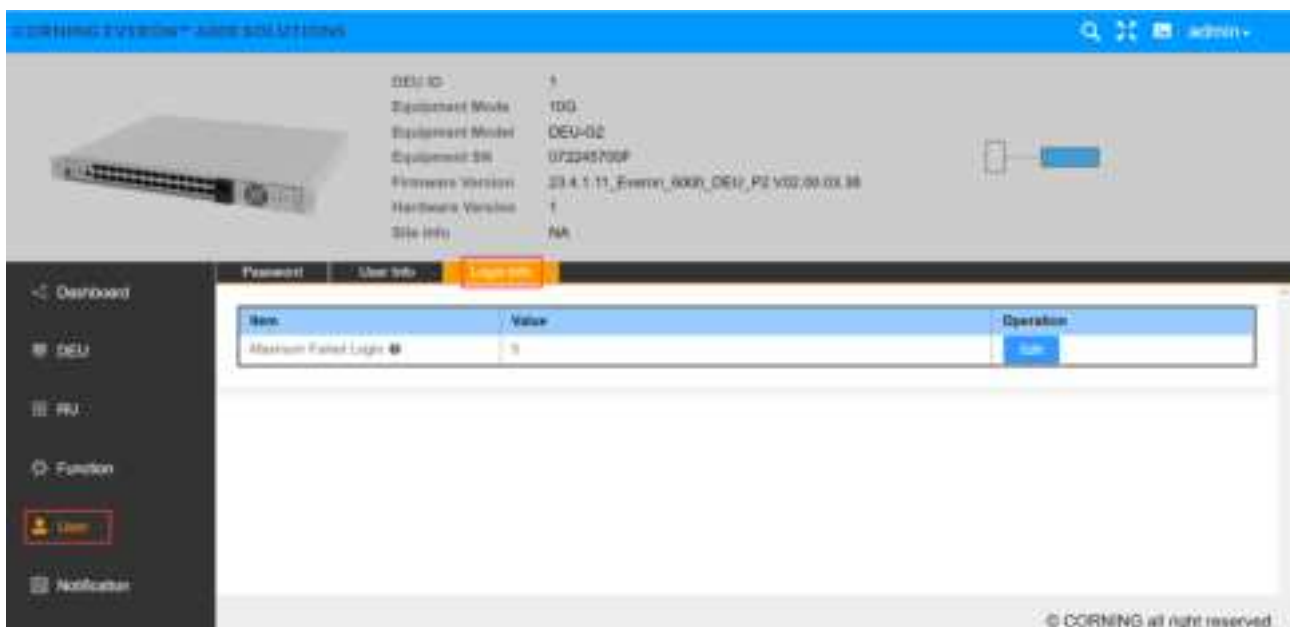
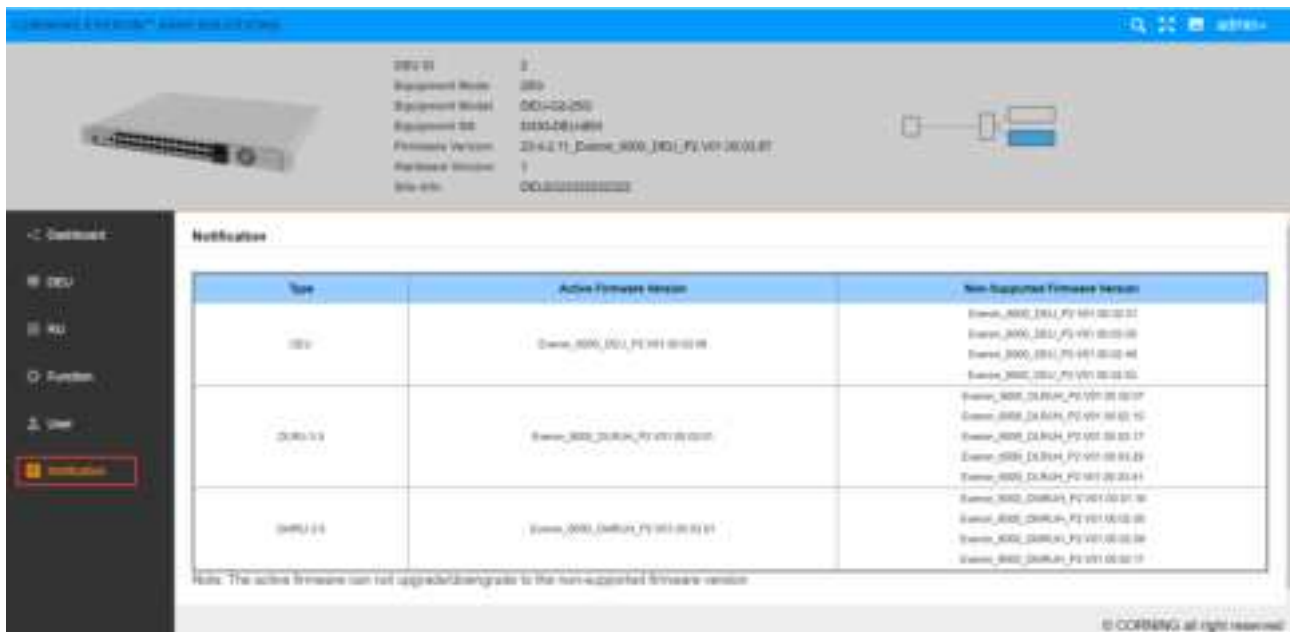


Figure 186. DEU 10 G User Login Info

5.3.3.4 Notification



LAN-3091 AEN V1.0.0.0

DEU ID: 1
Equipment Model: DEU-25G
Equipment ID: 10000000000000000000
Firmware Version: 23.4.2.11_Eurom_9000_DEU_V01.00.00.01
Hardware Version: 1
Sku Info: 0000000000000000

Notification

Type	Active Firmware Version	Non-Supported Firmware Version
DEU	Eurom_9000_DEU_V01.00.00.00	Eurom_9000_DEU_V01.00.00.01 Eurom_9000_DEU_V01.00.00.02 Eurom_9000_DEU_V01.00.00.03 Eurom_9000_DEU_V01.00.00.04
DEU 10G	Eurom_9000_DEU10G_V01.00.00.01	Eurom_9000_DEU10G_V01.00.00.02 Eurom_9000_DEU10G_V01.00.00.03 Eurom_9000_DEU10G_V01.00.00.04 Eurom_9000_DEU10G_V01.00.00.05 Eurom_9000_DEU10G_V01.00.00.06 Eurom_9000_DEU10G_V01.00.00.07
DEU 25G	Eurom_9000_DEU25G_V01.00.00.01	Eurom_9000_DEU25G_V01.00.00.02 Eurom_9000_DEU25G_V01.00.00.03 Eurom_9000_DEU25G_V01.00.00.04 Eurom_9000_DEU25G_V01.00.00.05

Note: The active firmware can not upgrade/downgrade to the non-supported firmware version.

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Figure 187.DEU 25G Notification



LAN-3091 AEN V1.0.0.0

DEU ID: 1
Equipment Model: DEU-10G
Equipment ID: 10000000000000000000
Firmware Version: 23.4.2.11_Eurom_9000_DEU_V01.00.00.00
Hardware Version: 1
Sku Info: NA

Notification

Type	Active Firmware Version	Non-Supported Firmware Version
DEU 10G	Eurom_9000_DEU10G_V01.00.00.00	Eurom_9000_DEU10G_V01.00.00.01
DEU 25G	Eurom_9000_DEU25G_V01.00.00.00	Eurom_9000_DEU25G_V01.00.00.01

Note: The active firmware can not upgrade/downgrade to the non-supported firmware version.

Figure 188. DEU 10 G Notification

5.4 dMRU Config

5.4.1 RU -> Overview & Alarm

Click RU to enter the Overview interface and view the current status of RU alarms (e.g., Link Alarm).

Row	RU ID	Equipment Alarm	Equipment Model	Equipment SN	Firmware Version
1	1	●	dMRU-G2-20	SN21H0221100711	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
2	2	●	dMRU-G2-20	SN21H0221100711	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
3	3	●	dMRU-G2-20	18	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
4	4	●	dMRU-G2-20	5	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
5	5	●	dMRU-G2-20S	8	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
6	12	●	dMRU-G2-20E	1022230732	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
7	13	●	dMRU-G2-17S	1022230732	23.4.1.11_Encoder_8000_D13034_P2_V0110130102
8	23	●	dMRU-G2-17S	1022230732	23.4.1.11_Encoder_8000_D13034_P2_V0110130102

Figure 189.DEU RU Overview

Each alarm is defined as follows:

- Link Alarm
- Digital HW ALM
- Temperature Alarm
- Low Transmission Alarm
- Overflow Alarm
- DC Voltage Lower Alarm
- Over Consumption Alarm
- Firmware Mismatch Alarm

Drag the scroll bar to view more information (e.g., Low Transmission Alarm) as shown in Figure 190.

5.4.2 dMRU Parameter config

5.4.2.1 RF Info

Click RF Info to read various RF information of RU.



Figure 191. RF Info

SN	RU parameter	Range	Default values	Remark
1	RF Switch	ON/OFF	ON	
2	DL ATTN	(0~20) dB	10 dB	0dB (max power)
3	UL ATTN	(0~20) dB	10 dB	0dB (max power)
4	Work Mode	Normal DL force uplink UL force uplink	Normal	
5	Delay adjust mode	Auto/Manual	Auto	
6	Manual Delay Adjust Value	0~50000ns	Ons	
7	Fan Switch	ON/OFF	OFF	
8	DL VSWR THR	1.5/2.0/2.5	1.5	

➤ **To configure the RF info**

1. Click RU RU 3 to enter the info page.
2. Click the icon  in each field.
3. Select one from the drop-down options (In the Band of example below, N3500F is selected).
4. For UL ATT, DL ATT, enter values with the range according to the parameters form above.
5. For RF Switch, DL VSWR Alarm, Antenna Sense Alarm and PA Alarm, select ON/OFF and Enable /Disable button.
6. Click Finish  to complete the settings.

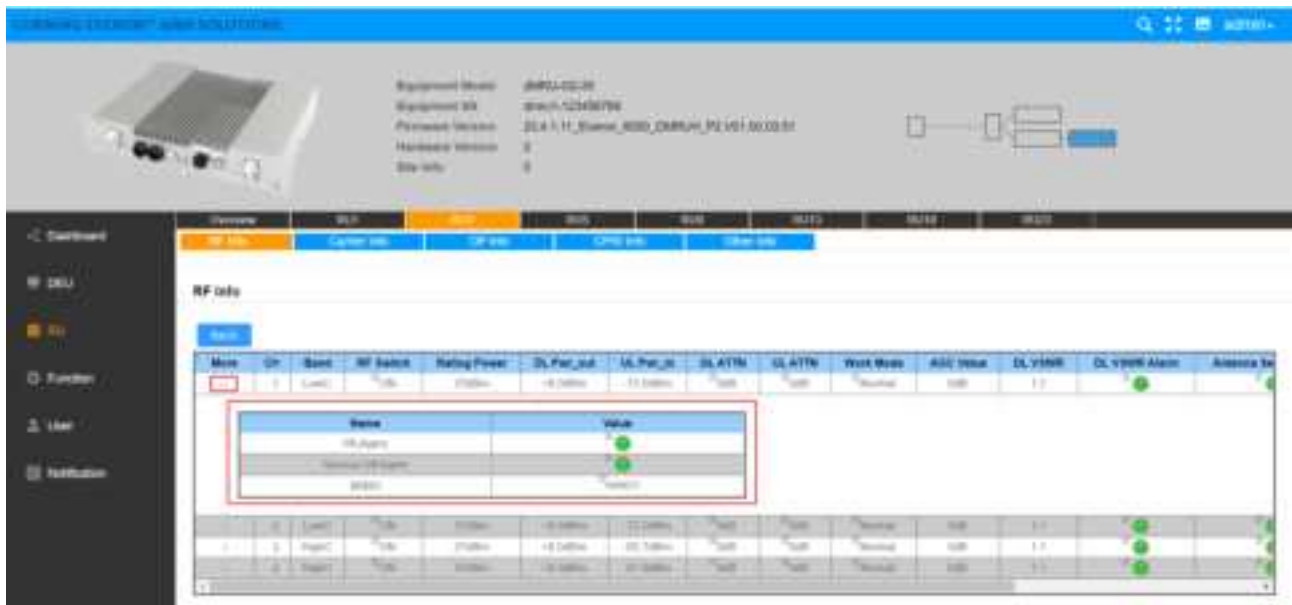


Figure 192. RF info More

5.4.2.2 Carrier Info



Figure 193.RU Carrier Info

5.4.2.3 OP Info

The OP Info list box displays the current optical port connection status and information reading volume of the device.

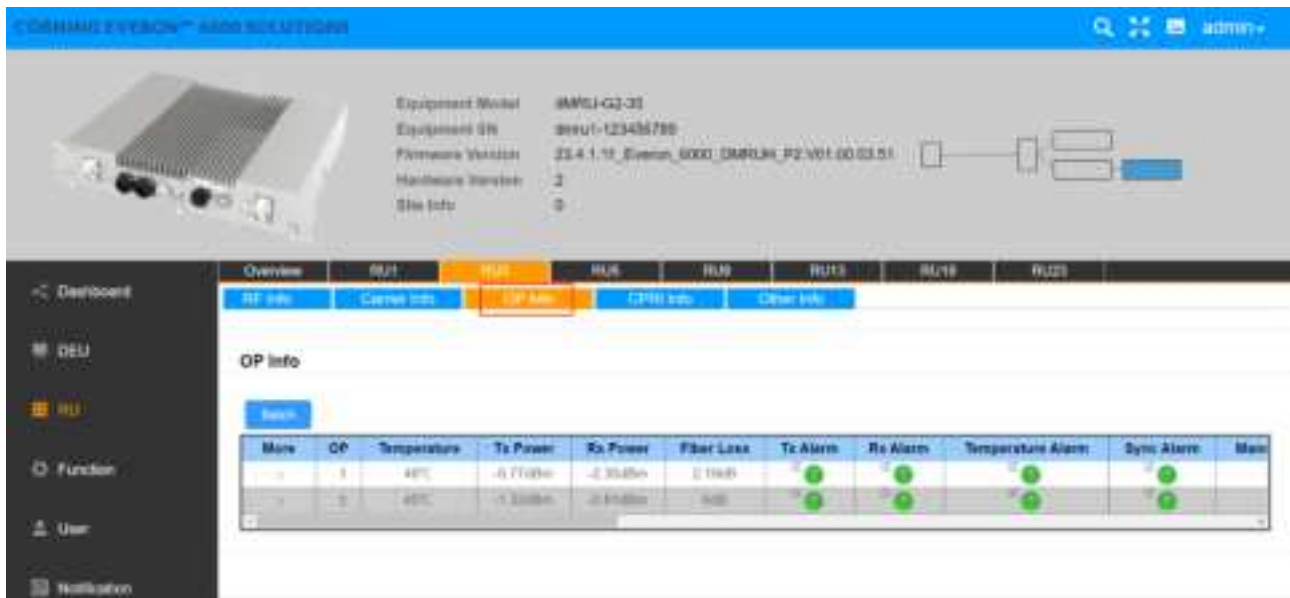


Figure 194. RU OP Info

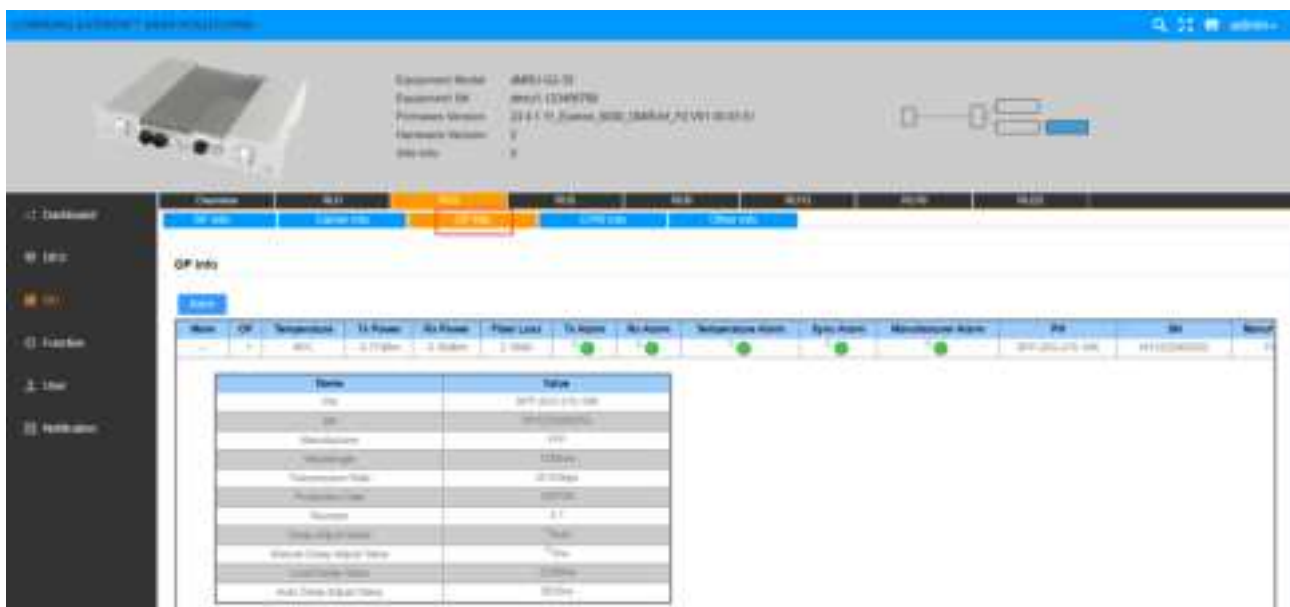


Figure 195.RU [OP](#) [Info](#) [More](#)

5.4.2.4 CPRI Info



Figure 196.RU—CPRI Info

5.4.2.5 Other Info



Figure 197. RU Other info

5.5 dLRU Config

5.5.1 RU -> Overview & Alarm

Click RU to enter the Overview interface and view the current status of RU alarms (e.g., Link Alarm).



The screenshot shows the 'RU Overview' interface. At the top, there's a header with 'RU ID' and 'RU Name'. Below this is a table with columns: 'Work', 'RU ID', 'Equipment Name', 'Equipment Model', 'Equipment ID', 'Firmware Version', 'Site Info', 'Temperature', 'Power String', 'Roll Speed', and 'Link Alarm'. The table contains three rows of data. The first row has a green status icon, the second a green icon, and the third a red icon. A sidebar on the left contains navigation links: 'Dashboard', 'RU', 'Function', 'User', and 'Maintenance'.

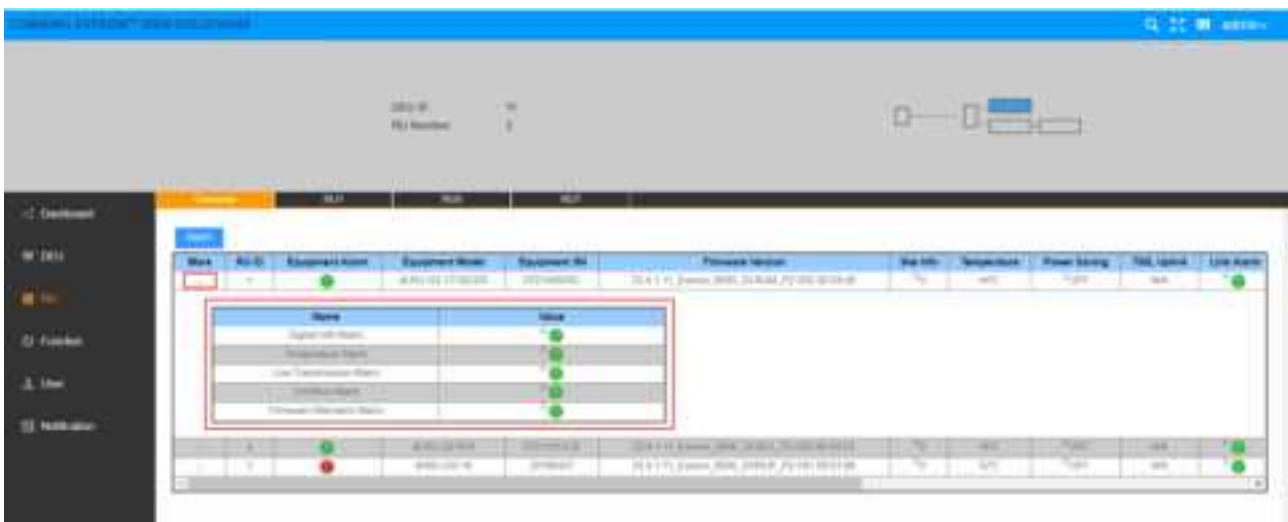
Work	RU ID	Equipment Name	Equipment Model	Equipment ID	Firmware Version	Site Info	Temperature	Power String	Roll Speed	Link Alarm
	1	RU1-100-11-000000	RU1-100-11-000000	RU1-100-11-000000	RU1-100-11-000000	100	40°C	100W	100%	Link Alarm
	2	RU2-100-11-000000	RU2-100-11-000000	RU2-100-11-000000	RU2-100-11-000000	100	40°C	100W	100%	Link Alarm
	3	RU3-100-11-000000	RU3-100-11-000000	RU3-100-11-000000	RU3-100-11-000000	100	40°C	100W	100%	Link Alarm

Figure 198. RU Overview

Each alarm is defined as follows:

- Link Alarm
- Digital HW ALM
- Temperature Alarm
- Low Transmission Alarm
- Overflow Alarm
- DC Voltage Lower Alarm
- Over Power Consumption Alarm
- Firmware Mismatch Alarm

Drag the scroll bar to view more information (e.g., Temperature) .



This screenshot is similar to Figure 198 but shows a scroll bar on the right side of the table. A red box highlights the scroll bar and the 'Temperature' column. The table data is the same as in Figure 198.

Work	RU ID	Equipment Name	Equipment Model	Equipment ID	Firmware Version	Site Info	Temperature	Power String	Roll Speed	Link Alarm
	1	RU1-100-11-000000	RU1-100-11-000000	RU1-100-11-000000	RU1-100-11-000000	100	40°C	100W	100%	Link Alarm
	2	RU2-100-11-000000	RU2-100-11-000000	RU2-100-11-000000	RU2-100-11-000000	100	40°C	100W	100%	Link Alarm
	3	RU3-100-11-000000	RU3-100-11-000000	RU3-100-11-000000	RU3-100-11-000000	100	40°C	100W	100%	Link Alarm

Figure 199. RU Overview More

5.5.2 dLRU Parameter config

5.5.2.1 RF info

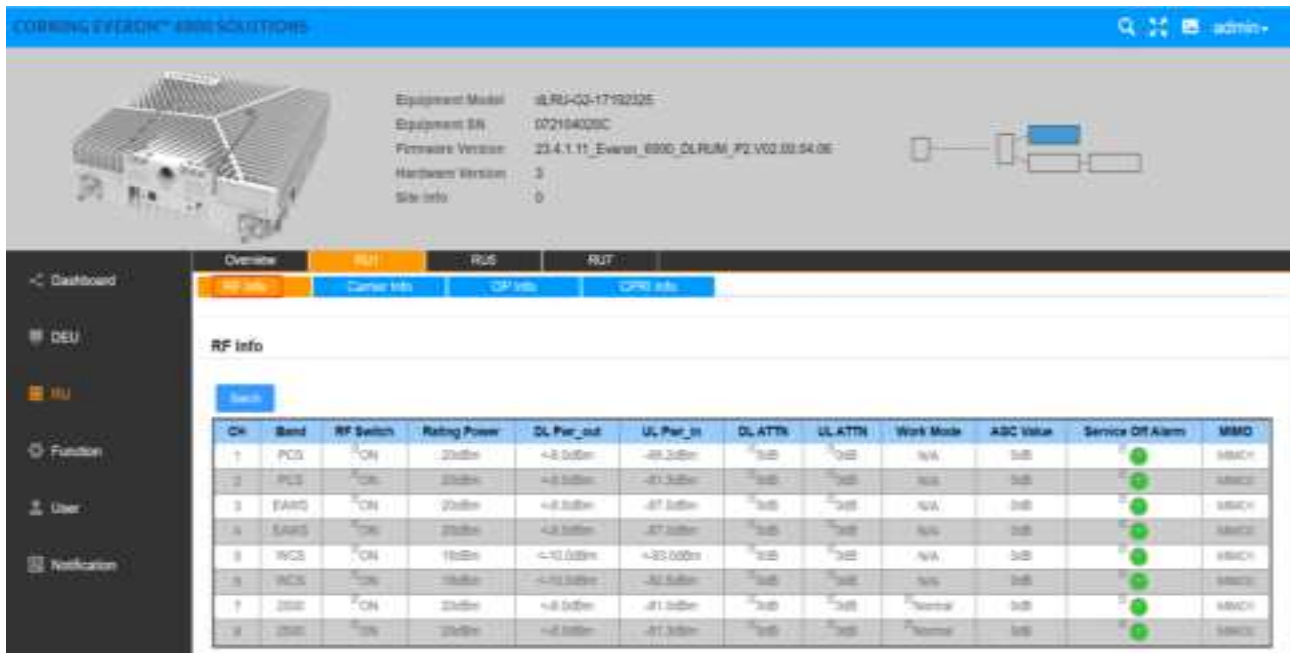


Figure 200.RF Info

Click RU RU1 to read various RF information of RU, as shown in Figure 201.

SN	Parameter	Range	Recommend value
1	RF Switch	ON/OFF	ON
2	DL ATTN	(0~20)	10
3	UL ATTN	(0~20)	10
4	Work Mode	Normal DL force uplink UL force uplink	Normal
5	Service off alarm	Disable Enable	Enable
6	MIMO	MIMO 1 MIMO 2	

Figure 201. RF info

5.5.2.2 Carrier info



Figure 202.RU Carrier Info

5.5.2.3 OP info

The OP Info list box displays the current optical port connection status and information reading volume of the device.



Figure 203.RU OP Info



Figure 204.RU OP Info More

5.5.2.4 CPRI Info



Figure 205. RU-CPRI Info

5.6 dHRU Config

5.6.1 RU -> Overview & Alarm

Click RU to enter the Overview interface and view the current status of RU alarms (e.g., Link Alarm).

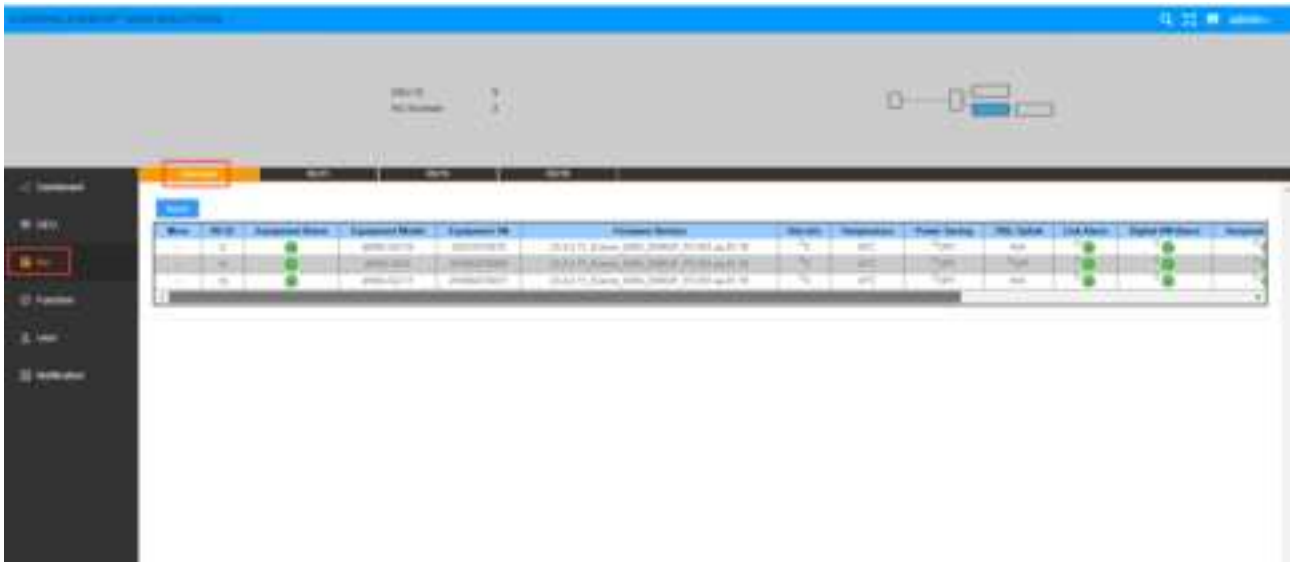


Figure 206. RU—Overview

Each alarm is defined as follows:

- Link Alarm
- Digital HW ALM
- Temperature Alarm
- Low Transmission Alarm
- Overflow Alarm
- Firmware Mismatch Alarm

Drag the scroll bar to view more information (e.g., Low Transmission Alarm)..

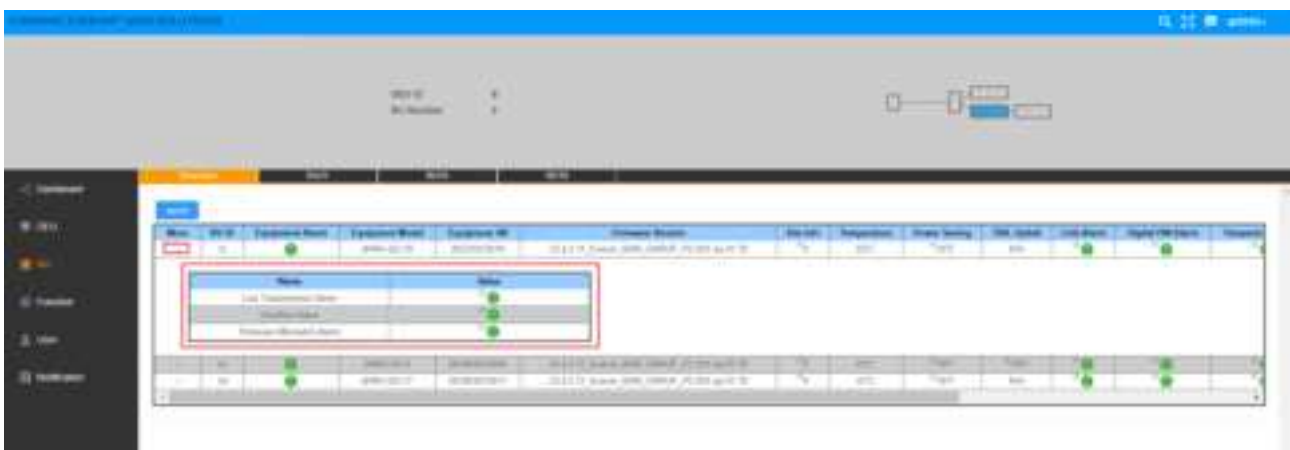


Figure 207. RU-overview—More

5.6.1 dHRU Parameter config

5.6.1.1 RF info

Click RF Info to read various RF information of RU.



Figure 208. RF Info

SN	RU parameter	Range	Default values	Remark
1	RF Switch	ON/OFF	ON	
2	DL ATTN	(0~20) dB	10 dB	0dB (max power)
3	UL ATTN	(0~20) dB	10 dB	0dB (max power)
4	Work Mode	Normal DL force uplink UL force uplink	Normal	
5	Service Off Alarm	Enable/Disable	Enable	
6	MIMO	MIMO1/MIMO2	MIMO1	
6	Delay adjust mode	Auto/Manual	Auto	
7	Manual Delay Adjust Value	0~50000ns	0ns	
8	DL VSWR THR	1.5/2.0/2.5	2.0	

5.6.1.2 Carrier info

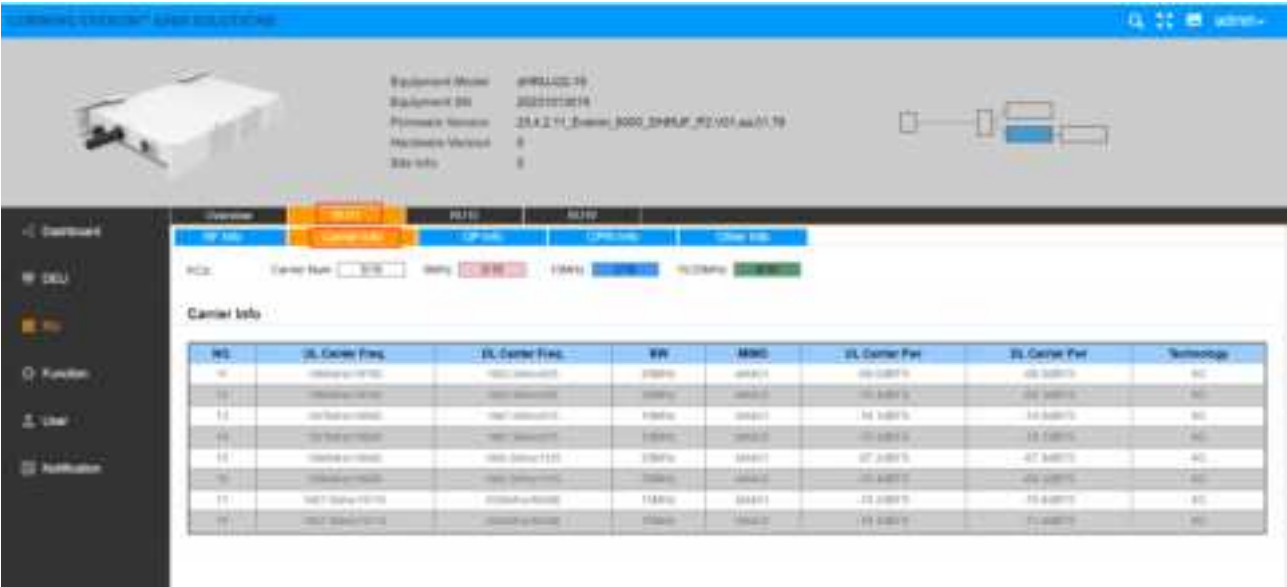


Figure 209. Carrier Info

5.6.1.3 OP info

The OP Info list box displays the current optical port connection status and information reading volume of the device.

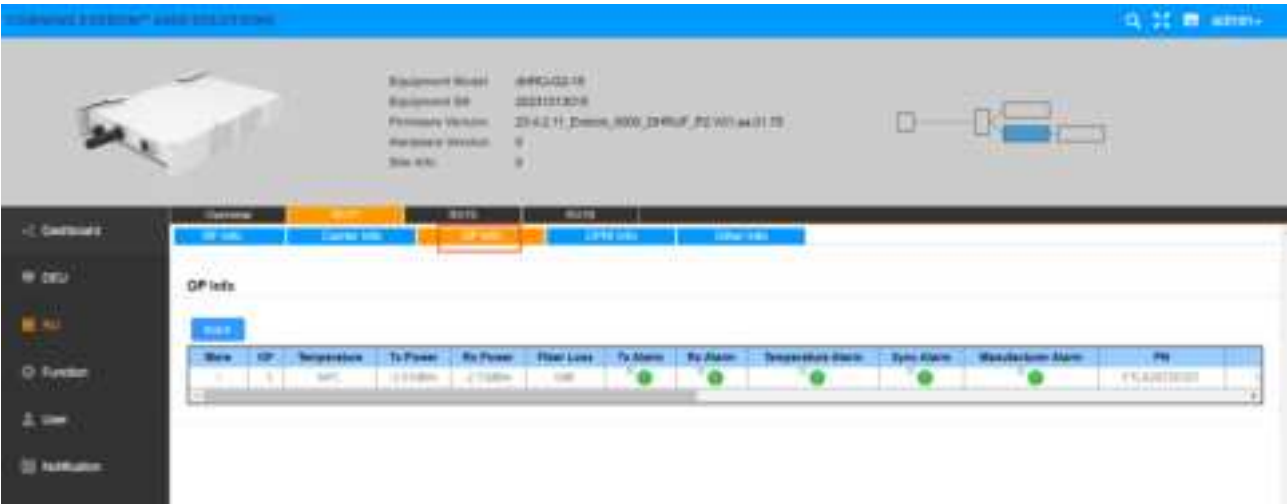


Figure 210. OP Info

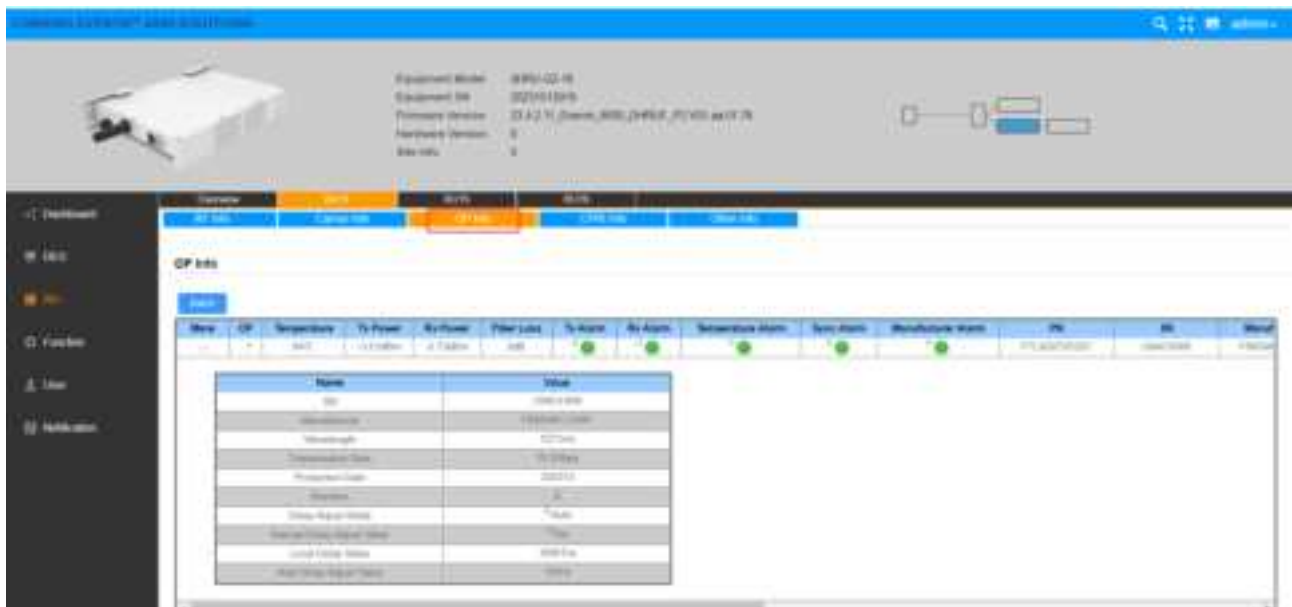


Figure 211. OP Info--More

5.6.1.4 CPRI Info



Figure 212. CPRI Info

5.6.1.5 Other Info

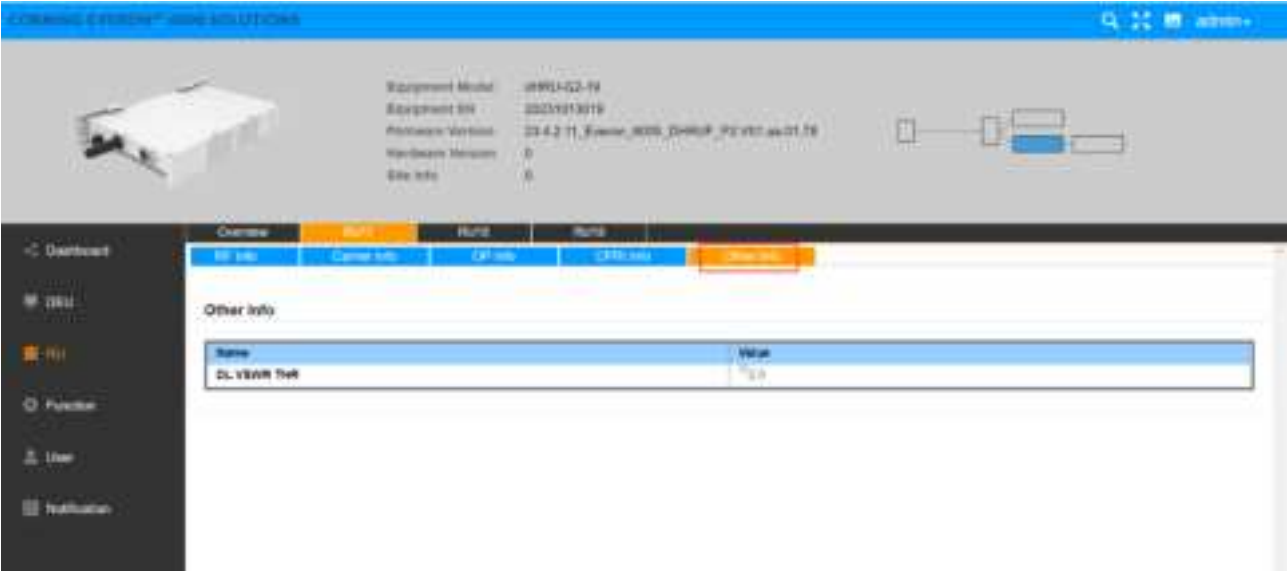
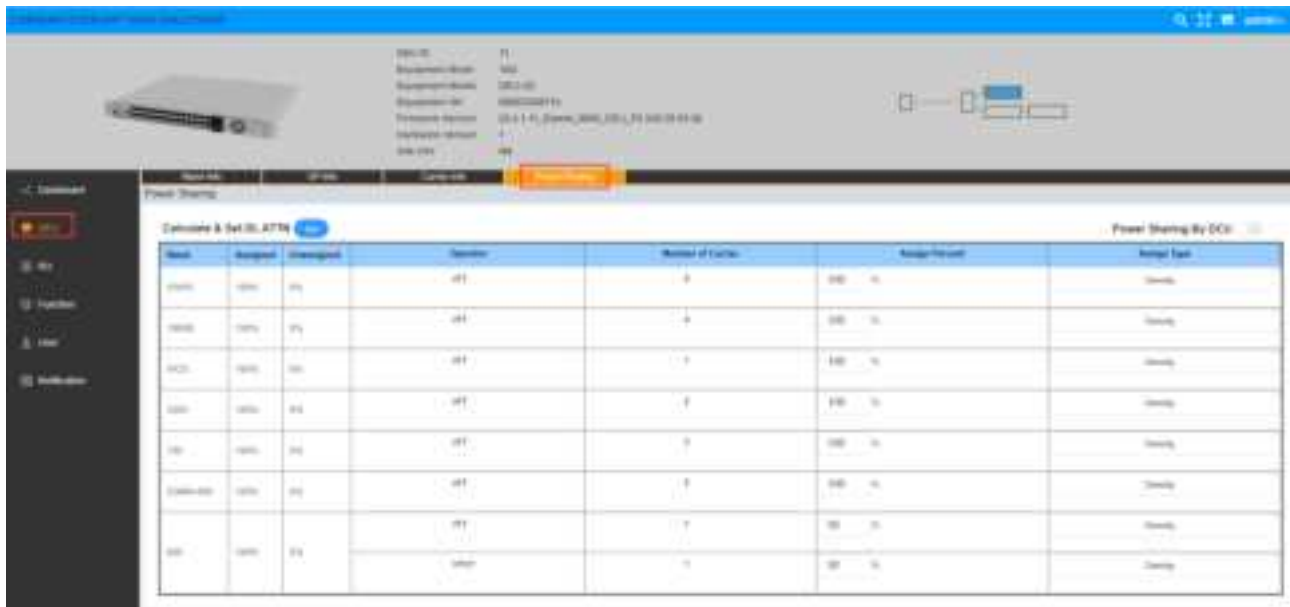


Figure 213. Other Info

5.7 System Downlink/Uplink Config

5.7.1 Downlink Output Power Config (Power Sharing Process)

Step 1. Set Carrier Info in Chapter 5.3.1.3, including the operator info, carrier info. The DL ATTN can be set to default value in power sharing config.



Step 2. Set the power sharing parameters in chapter 5.3.1.4

- Assign each operator's power share (percentage).
- Select the carrier's power assignment mode for each operator (Density /Even).
Density mode: power assignment based on carrier bandwidth.
Even mode: power assignment based on the number of carriers.
- Config MIMO 1 and MIMO 2 channel.
- Select the calculate button to active the value, then the DL ATT value in Step 1 will be automatically calculated.
- Select the 'Power Share Lock' button to lock the ATT config.
- The system will automatically emit the output target power based on power sharing configuration if the DCU input power is within the operation range.

Step 3. Set RIU ATTN to meet DCU input power range according to chapter 5.1.2

- Set RIU high gain mode (ON/OFF) and DL ATTN to suitable value to meet DCU input operation range.

Input	Config and result								
Base station	RIU				DCU			dxRU	
Base station input power to RIU(PwrB)	RIU high gain mode switch	RIU DL_ATT (manual)	RIU gain	RIU output TO DCU	DCU input power	DCU high gain mode switch	DCU DL_ATT (AGC auto control)	corresponding dxRU baseband power	dLRU output power
37dBm	OFF	14	-30-(14) =-44dB	-7	-7	OFF	0 dB	-14dBfs	Rated power
23~37dBm	OFF	(PwrB-23)	-30dB-RIU DL_ATT	-7	-7	OFF	0dB	-14dBfs	Rated power
23dBm	OFF	0	-30dB	-7	-7	OFF	0dB	-14dBfs	Rated power
12~23dBm	OFF	0	-30dB	PwrB - 30	PwrB - 30	ON	PwrB - 30- (-19) = PwrB-11	-14dBfs	Rated power
12dBm	OFF	0	-30dB	-18dBm	-18dBm	ON	1dB	-14dBfs	Rated power
11dBm	ON	11dB	-7dB-11dB =-18dB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
0-11dBm	ON	PwrB	-7dB- PwrB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
0 dBm	ON	0	-7dB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
-12 dBm ~0 dBm	ON	0	-7dB	-7 dBm + PwrB	-7+ PwrB	ON	-7+ PwrB- (-19) =12+PwrB	-14dBfs	Rated power
-12 dBm	ON	0	-7dB	-7 dBm + -12=-19 dBm	-7+ -12=-19 dBm	ON	-7-12-(-19) =0	-14dBfs	Rated power
-12 dBm ~-15 dBm	ON	0	-7dB	-7+ PwrB	-7+ PwrB	ON	0dB	=-14dBfs-(-12- PwrB)	Rated power-(-12- PwrB)
-15 dBm	ON	0	-7dB	-22dBm	-22dBm	ON	0dB	=-14dBfs-(-12- (-15))=-17dBfs	Rated power-3dB

- The DCU input power target is -7dBm, and the RIU suggested input power range is 10~37dBm, so that please config RIU high gain mode and DL ATT according to the input power.

Input	Config and result								
Base station	RIU				DCU			dxRU	
Base station input power to RIU(PwrB)	RIU high gain mode switch	RIU DL_ATT (manual)	RIU gain	RIU output TO dcu	DCU input power	DCU high gain mode switch	DCU DL_ATT (AGC auto control)	corresponding dxRU baseband power	dLRU output power
37dBm	OFF	14	-30-(14) =-44dB	-7	-7	OFF	0 dB	-14dBfs	Rated power
23~37dBm	OFF	(PwrB-23)	-30dB-RIU DL_ATT	-7	-7	OFF	0dB	-14dBfs	Rated power
23dBm	OFF	0	-30dB	-7	-7	OFF	0dB	-14dBfs	Rated power
12~23dBm	OFF	0	-30dB	PwrB - 30	PwrB - 30	ON	PwrB - 30- (-19) = PwrB-11	-14dBfs	Rated power
12dBm	OFF	0	-30dB	-18dBm	-18dBm	ON	1dB	-14dBfs	Rated power
11dBm	ON	11dB	-7dB-11dB =-18dB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
0-11dBm	ON	PwrB	-7dB-PwrB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
0 dBm	ON	0	-7dB	-7dBm	-7dBm	OFF	0dB	-14dBfs	Rated power
-12 dBm ~0 dBm	ON	0	-7dB	-7 dBm + PwrB	-7+ PwrB	ON	-7+ PwrB-(-19) =12+PwrB	-14dBfs	Rated power
-12 dBm	ON	0	-7dB	-7 dBm + -12=-19 dBm	-7+ -12=-19 dBm	ON	-7-12-(-19) =0	-14dBfs	Rated power
-12 dBm ~-15 dBm	ON	0	-7dB	-7+ PwrB	-7+ PwrB	ON	0dB	=-14dBfs-(-12-PwrB)	Rated power-(-12- PwrB)
-15 dBm	ON	0	-7dB	-22dBm	-22dBm	ON	0dB	=-14dBfs-(-12-(-15))=-17dBfs	Rated power-3dB

In this case, please config the DCU to the following config. The detailed config is listed in chapter 5.2.2

High Gain mode = OFF

DCU DL ATT changes from 20dB to 0dB after antenna connection.

Note: PwrB refers to the base station input power to RIU

5.7.2 Uplink Gain Config

The Total Uplink Gain = -2dB - RIU UL ATT - DCU UL ATT - RU UL ATT

Step 1. Config the RIU UL ATT according to chapter 5.1.2

Step 2. Config the DCU UL ATT according to chapter 5.2.2.2

Step 3. Config the RU UL ATT according to chapter 5.4.2.2

The range of each ATT is listed as below.

SN	ATT Range(dB)	Default Value(dB)	Config Description
1	0~25	20	chapter 2.1.2
2	0~20	20	chapter 2.2.2.2
3	0~20	10	chapter 2.4.2.2