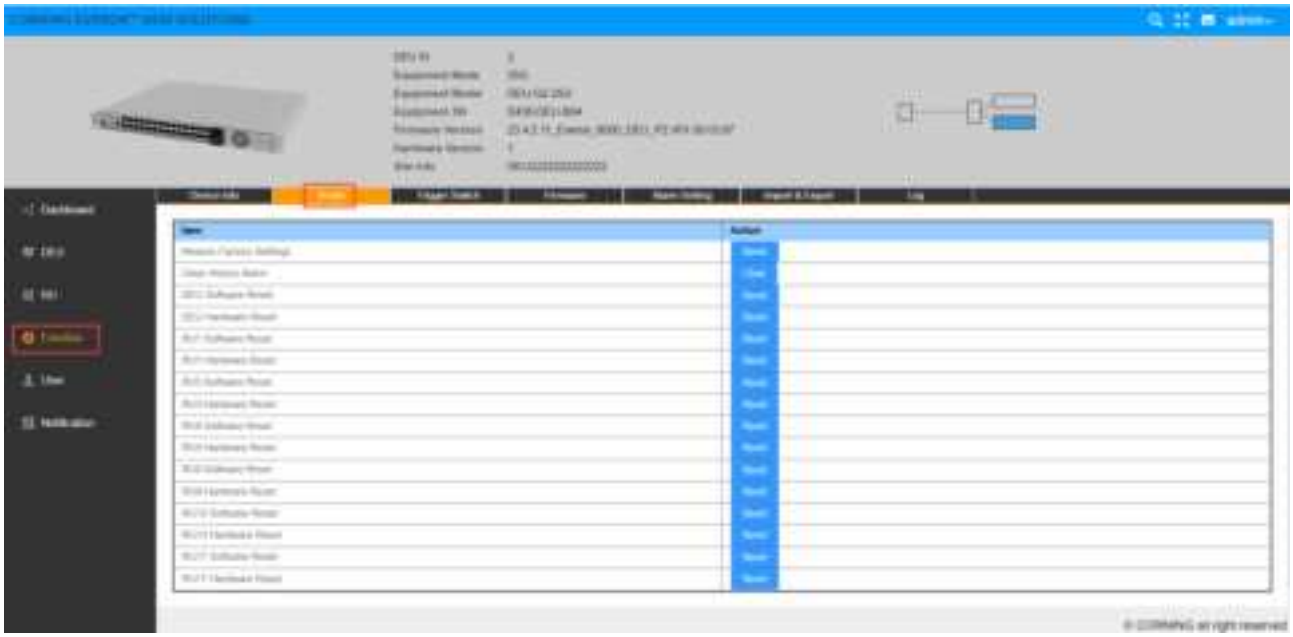


Figure 168. DEU25G Function Reset

Figure 169.DEU 10 G Function Reset

5.3.2.3 Trigger Switch

Click DEU->Function->Trigger Switch.

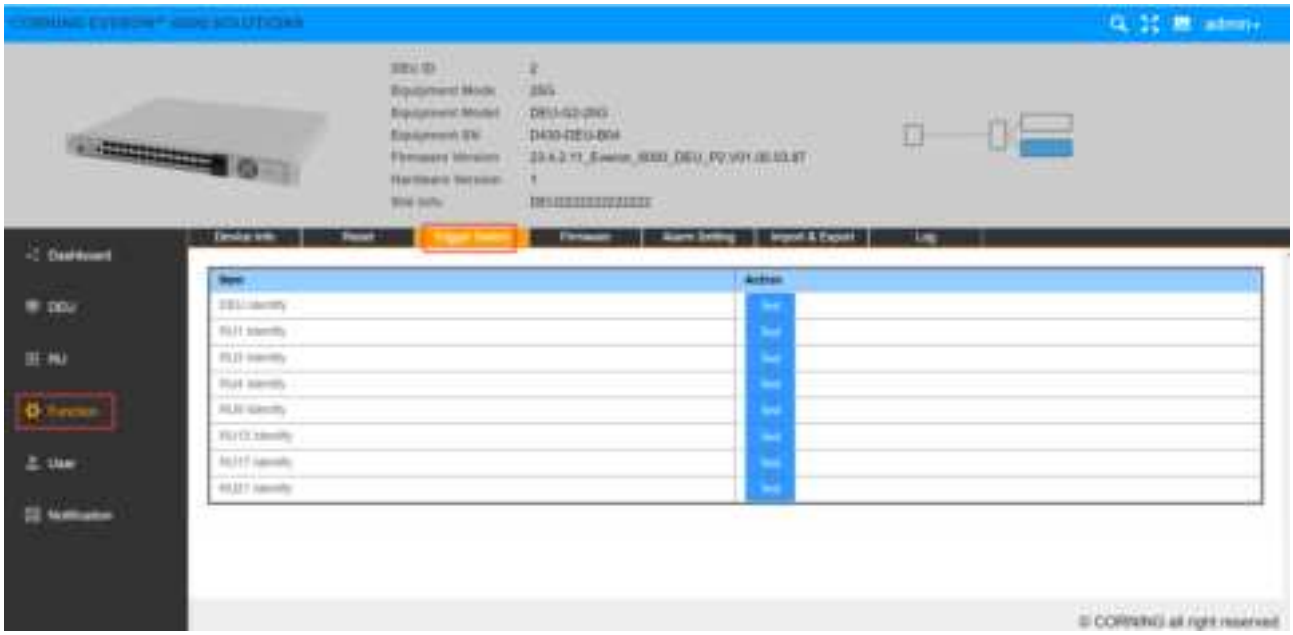


Figure 170.DEU 25G—Function--Trigger Switch

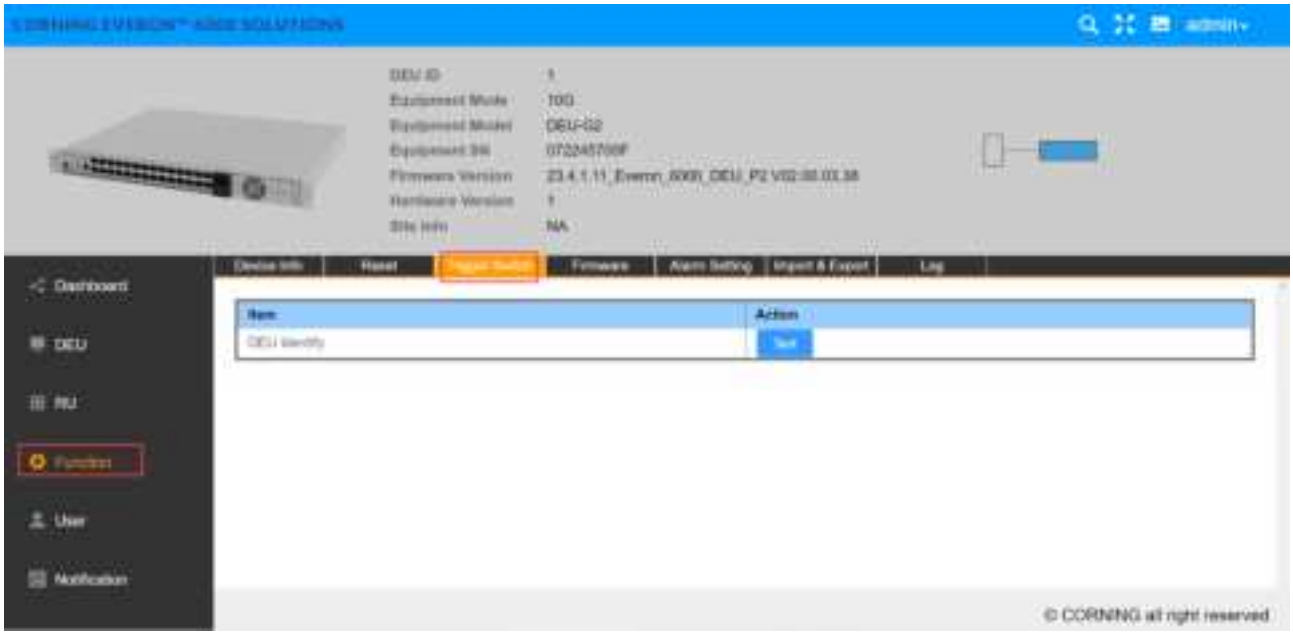


Figure 171.DEU 10 G—Function--Trigger Switch

5.3.2.4 Firmware

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

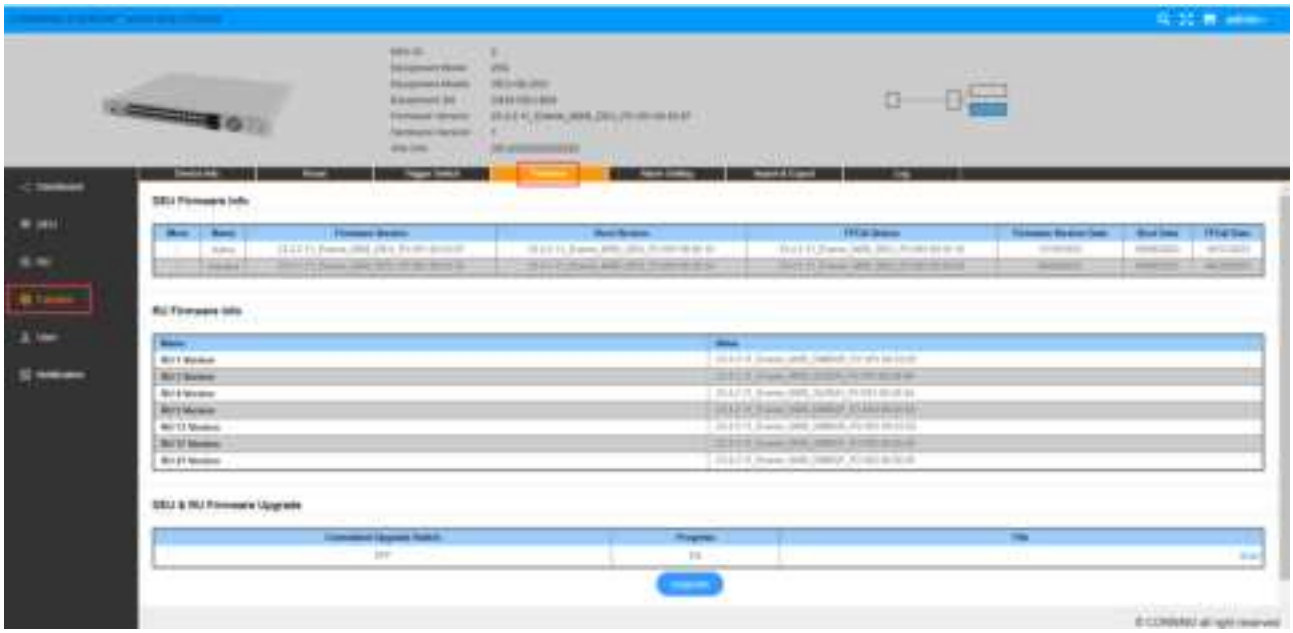


Figure 172. DEU 25G Function Firmware

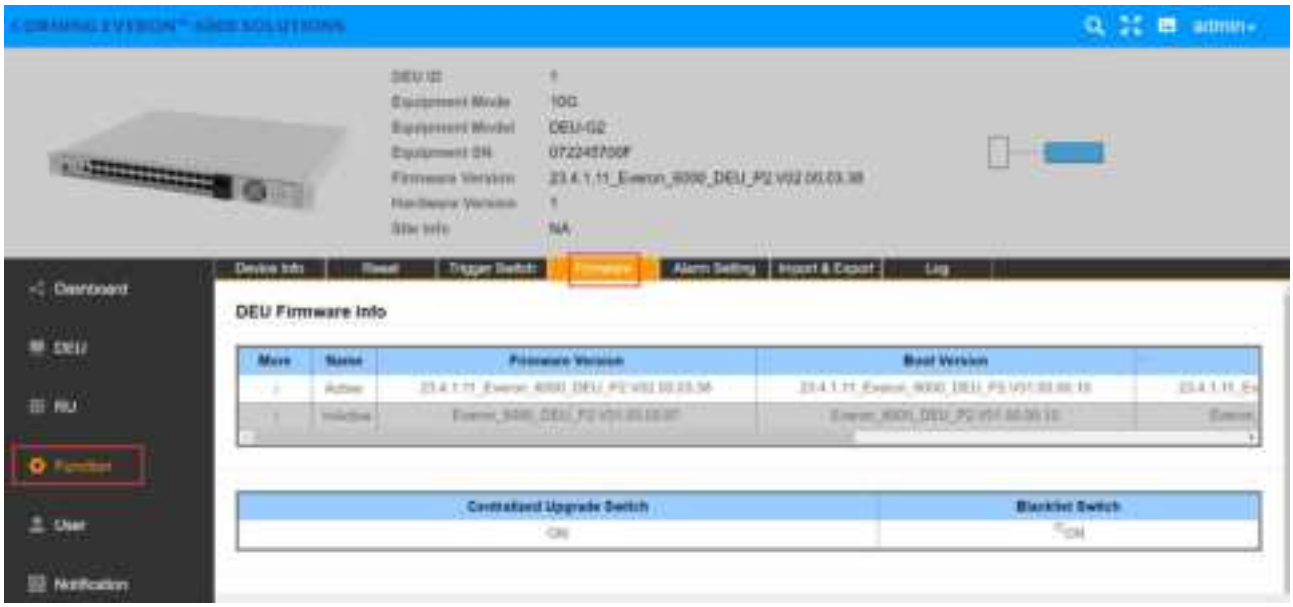


Figure 173.DEU 10G Function Firmware

5.3.2.5 Alarm Setting

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

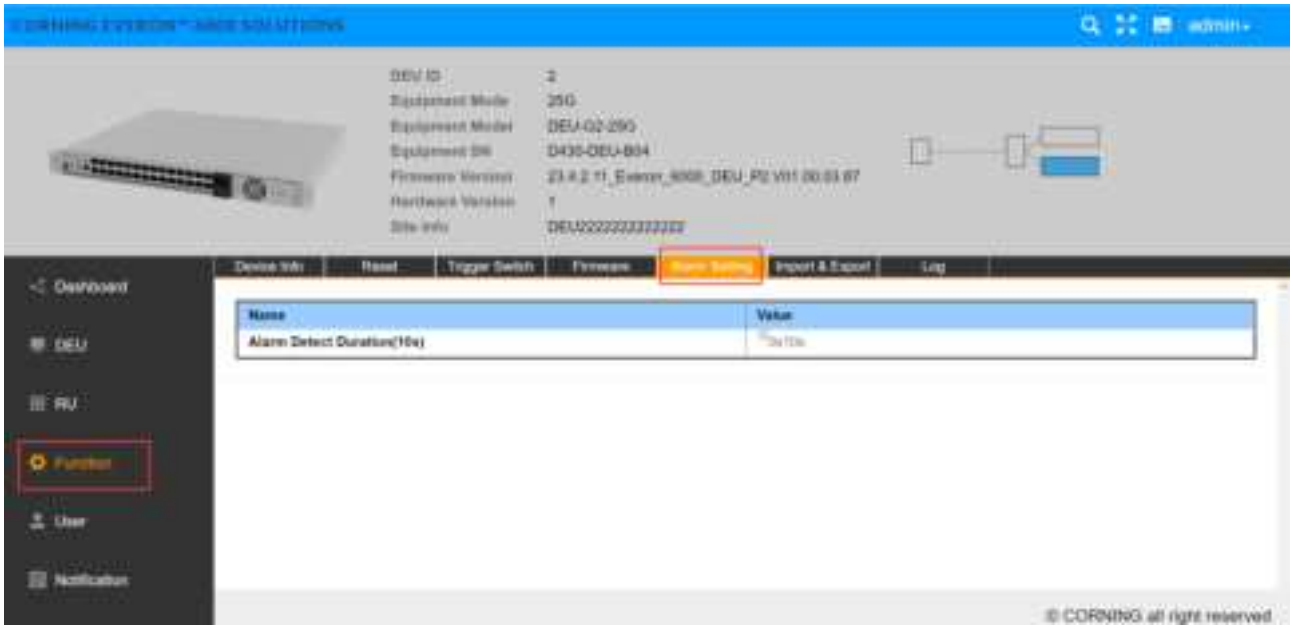


Figure 174. DEU25G Function Alarm Setting

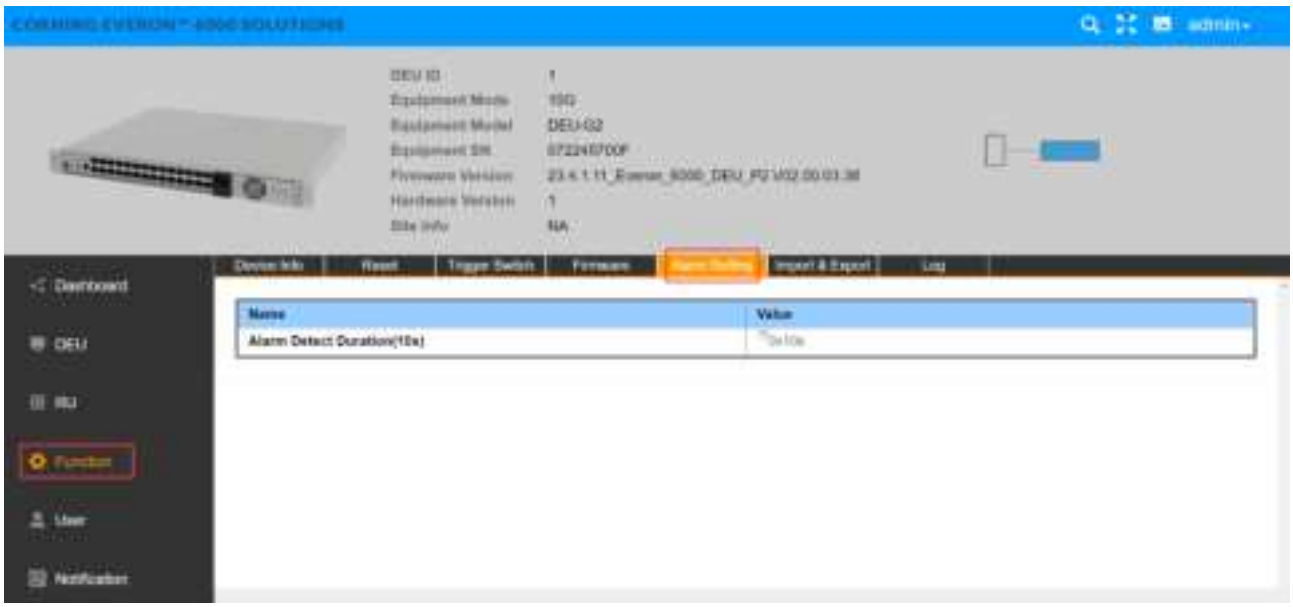


Figure 175.DEU10G Function Alarm Setting

5.3.2.6 Import & Export

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

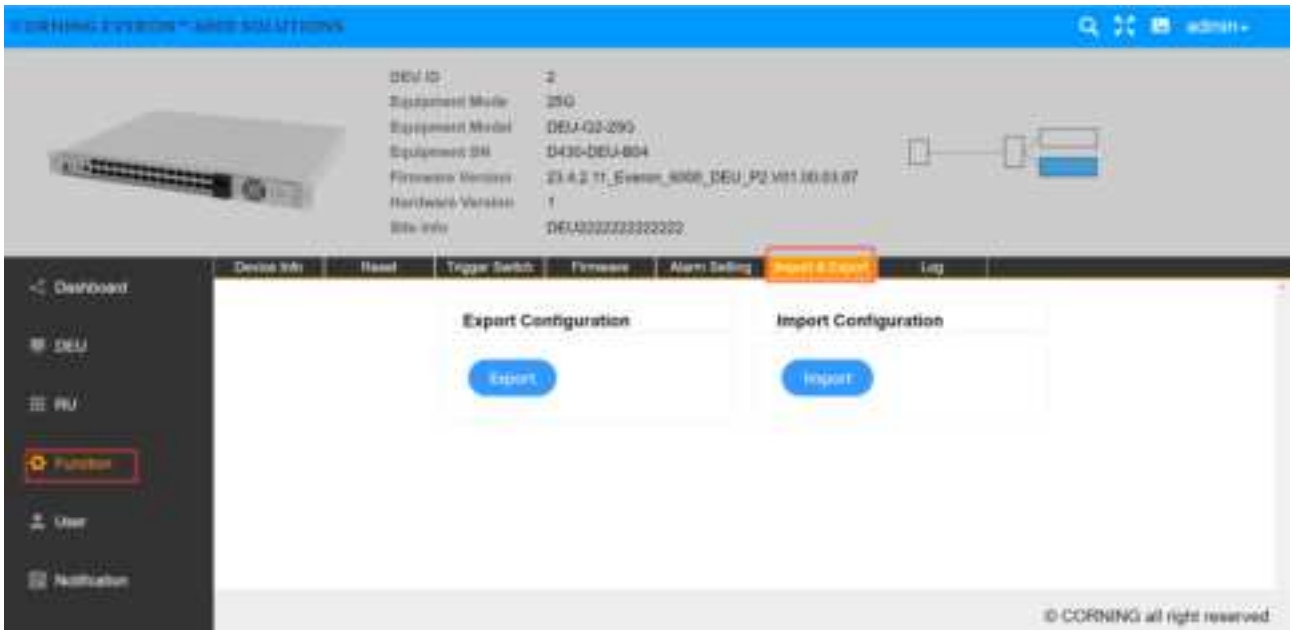


Figure 176.DEU25G Function Import & Export

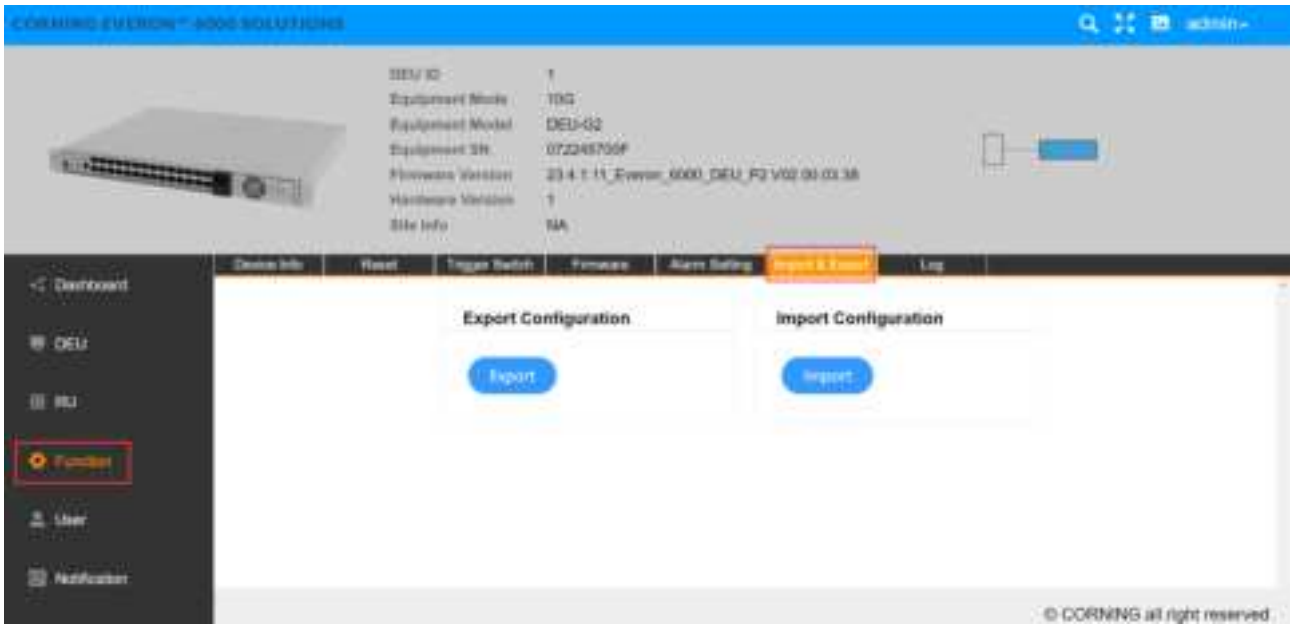


Figure 177.DEU 10 G Function Import & Export

5.3.2.7 Log

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

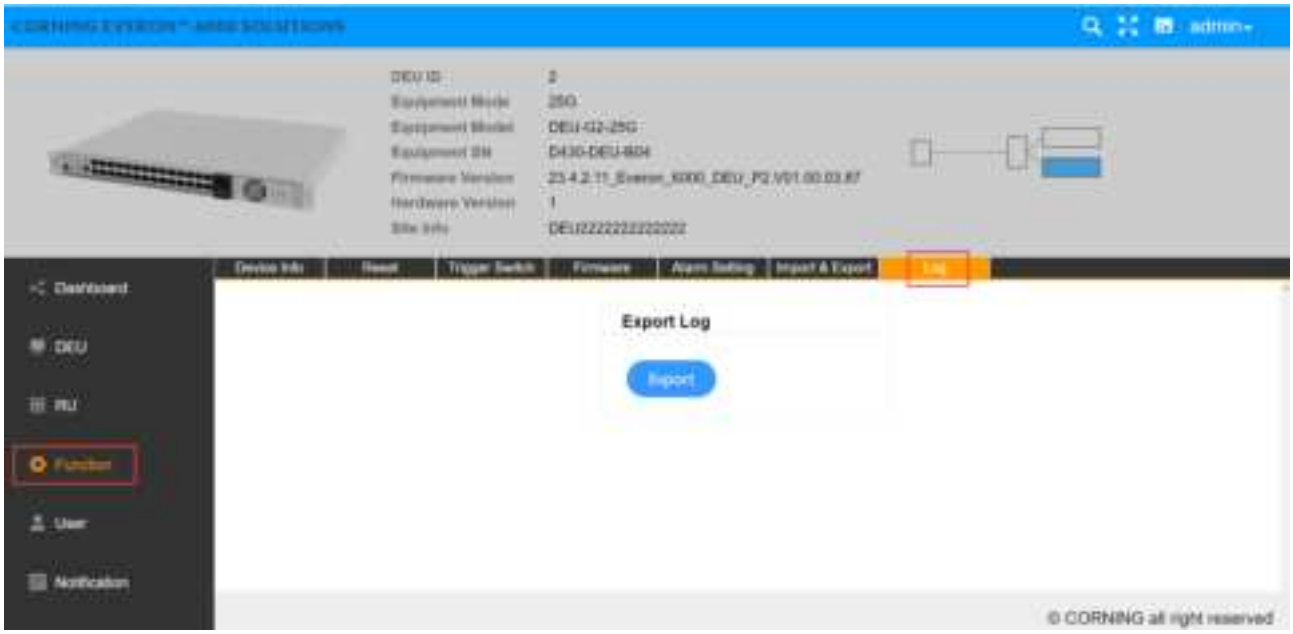


*Figure 178.*DEU 25G Function Log

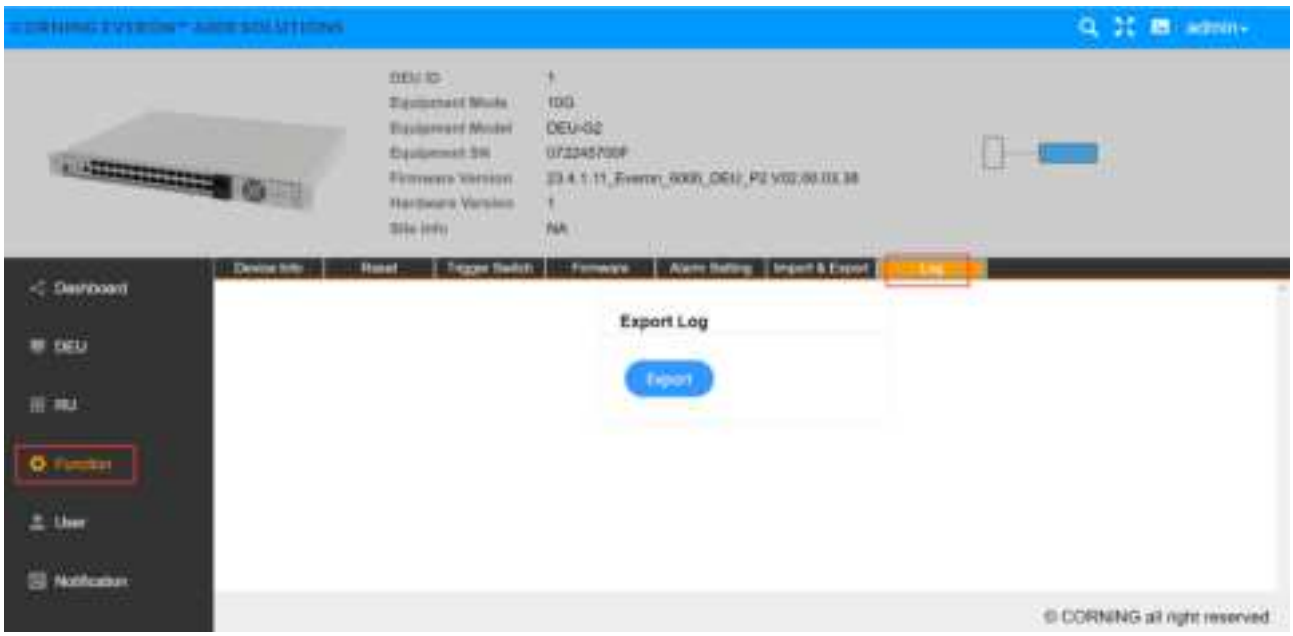


Figure 179.DEU 10G Function Log

5.3.3 DEU -> User Info

5.3.3.1 Password

Click User->Password to reset DEU password.

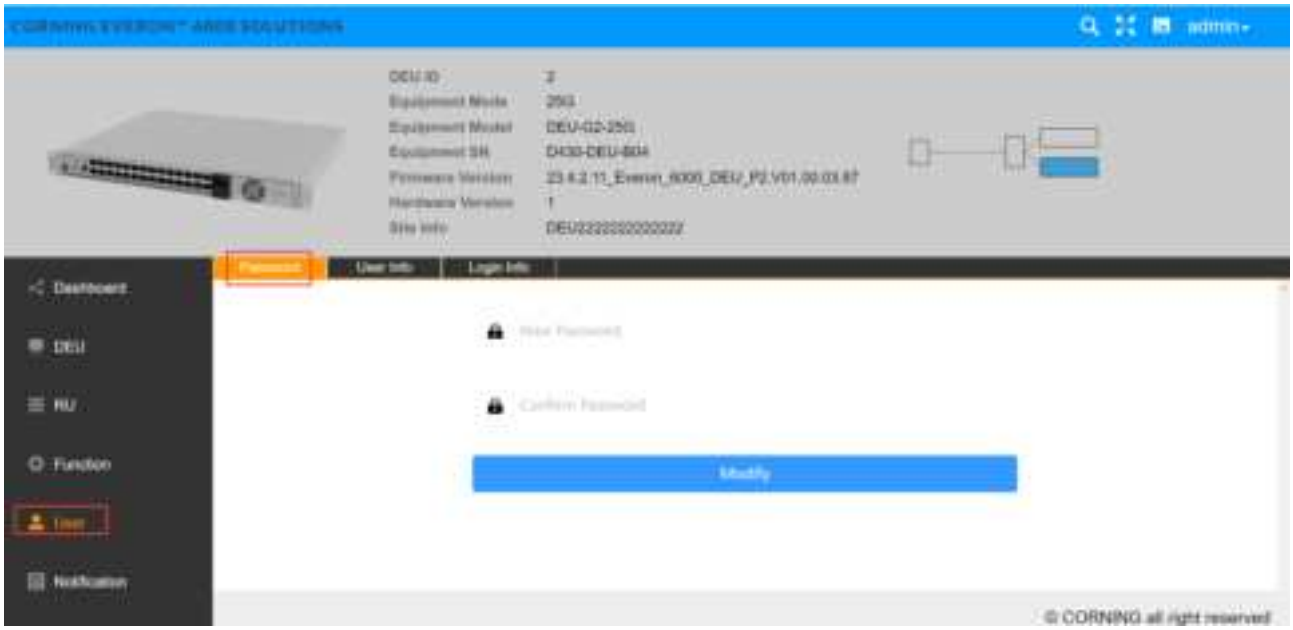


Figure 180. DEU25G User Password

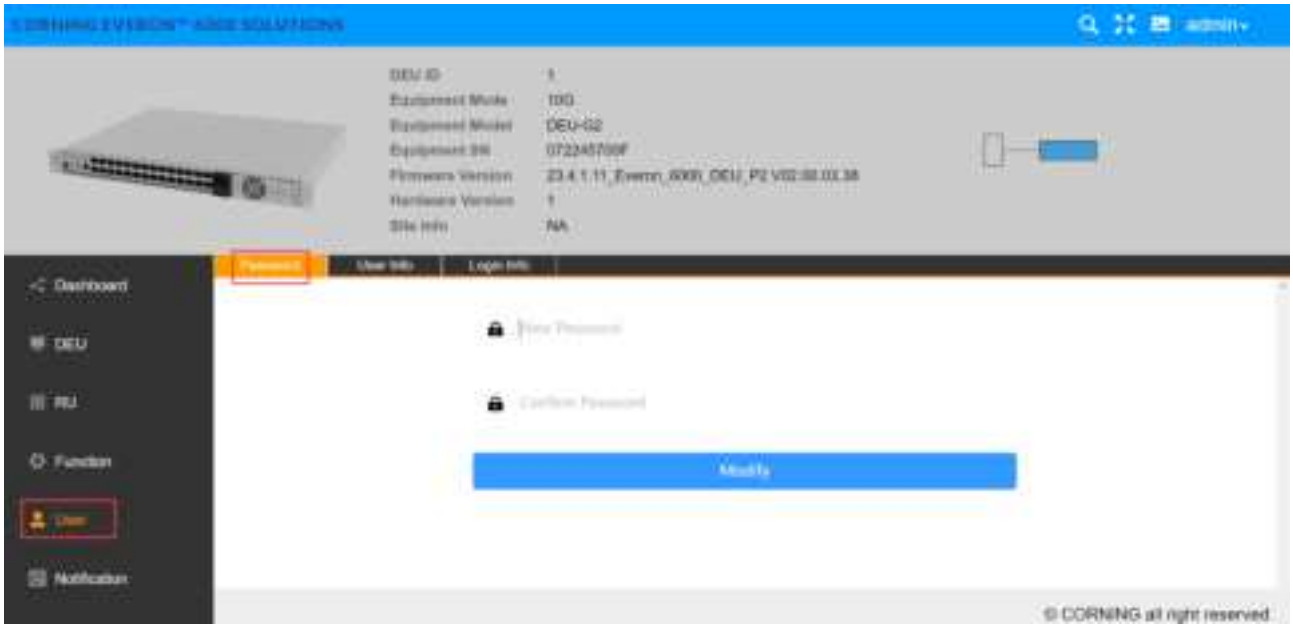


Figure 181. DEU 10 G User Password

5.3.3.2 User Info

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

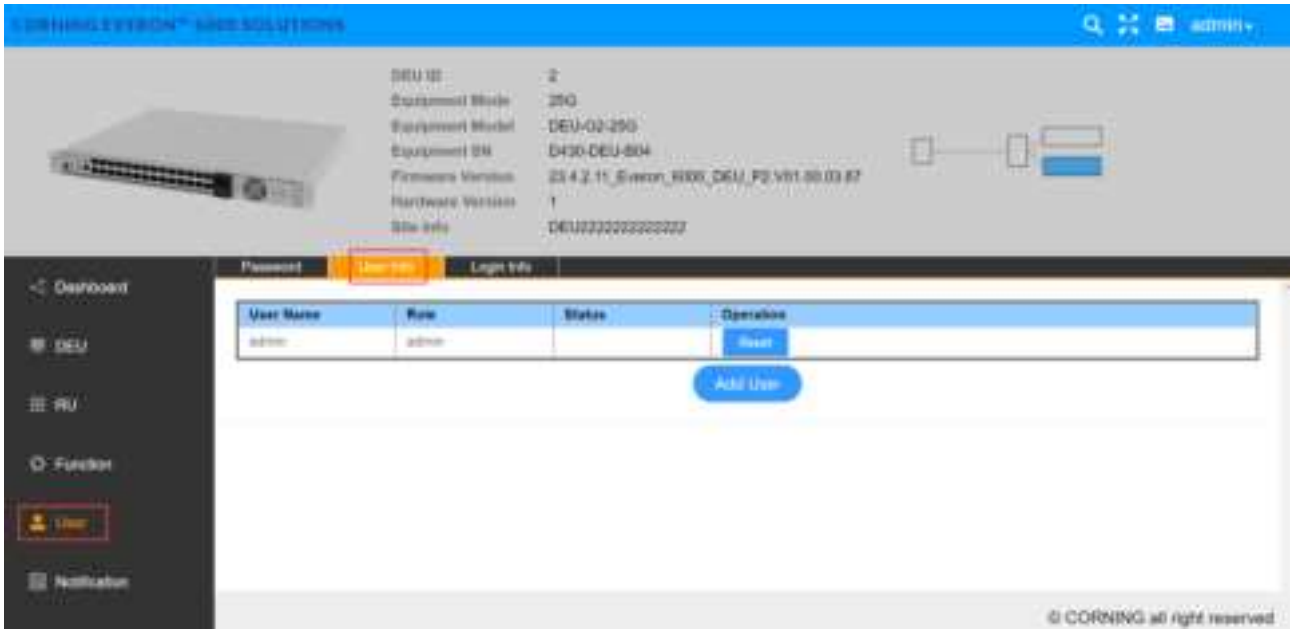


Figure 182.DEU25G User User Info

Figure 183.DEU 10G User User Info

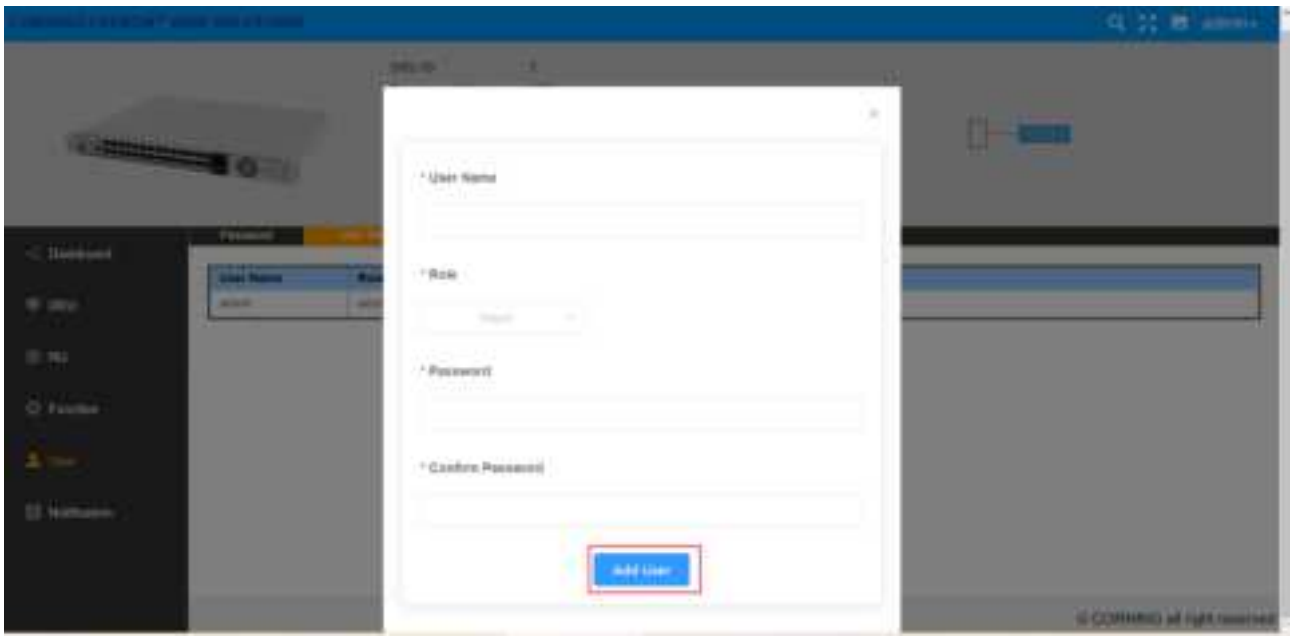


Figure 184.DEU10G/25G User User Info Add User

5.3.3.3 Login Info

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

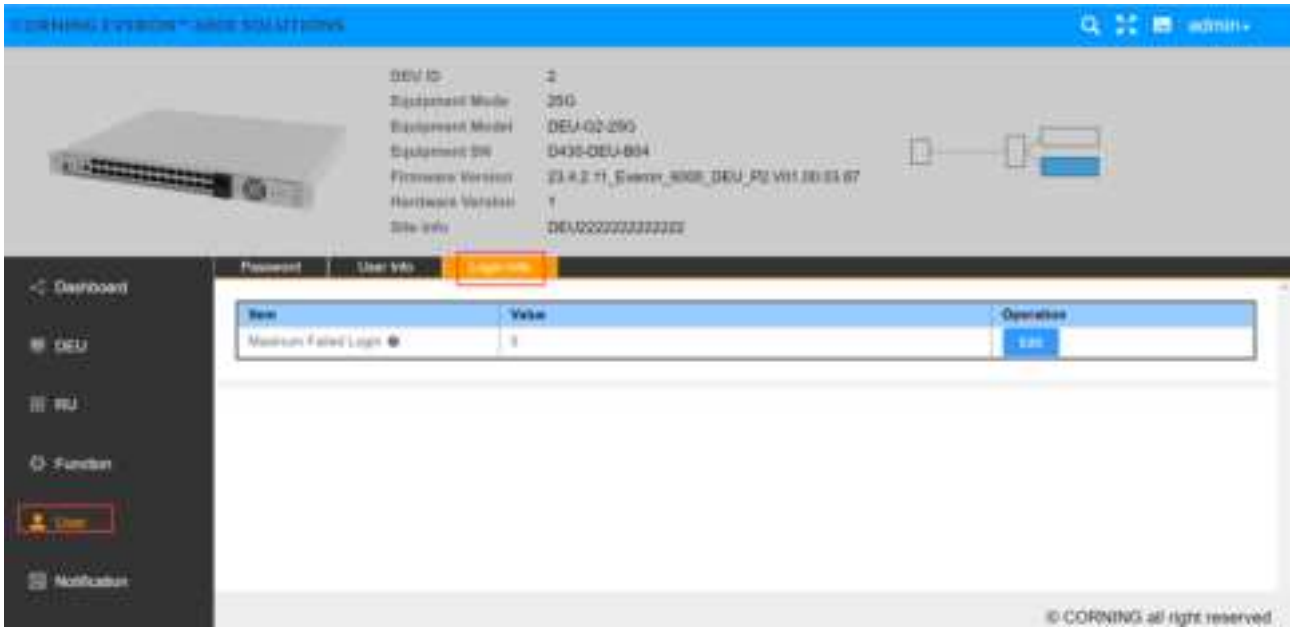


Figure 185. DEU25G User Login Info

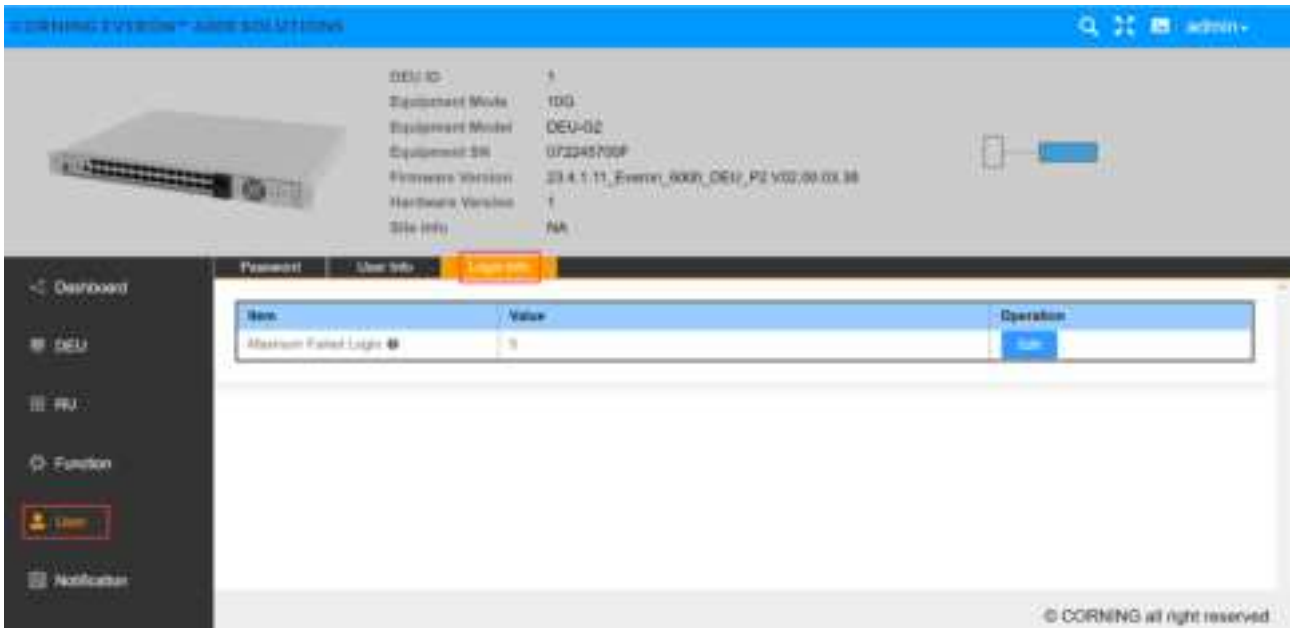


Figure 186.DEU 10 G User Login Info

5.3.3.4 Notification

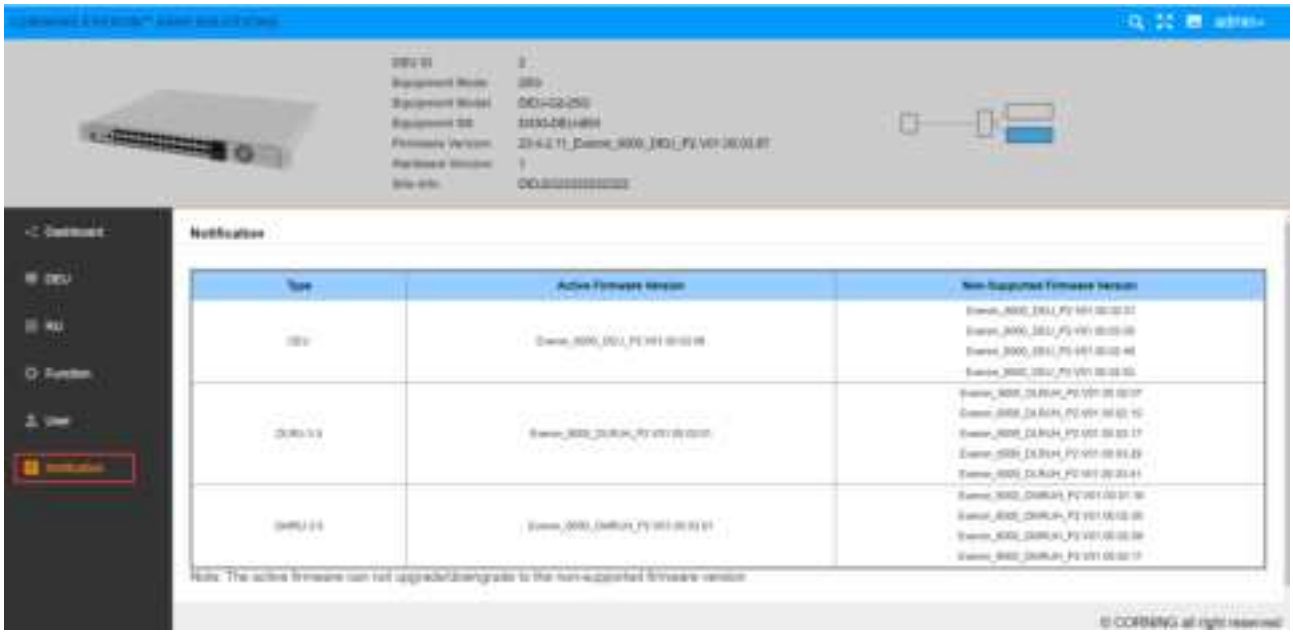


Figure 187.DEU 25G Notification

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).

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.

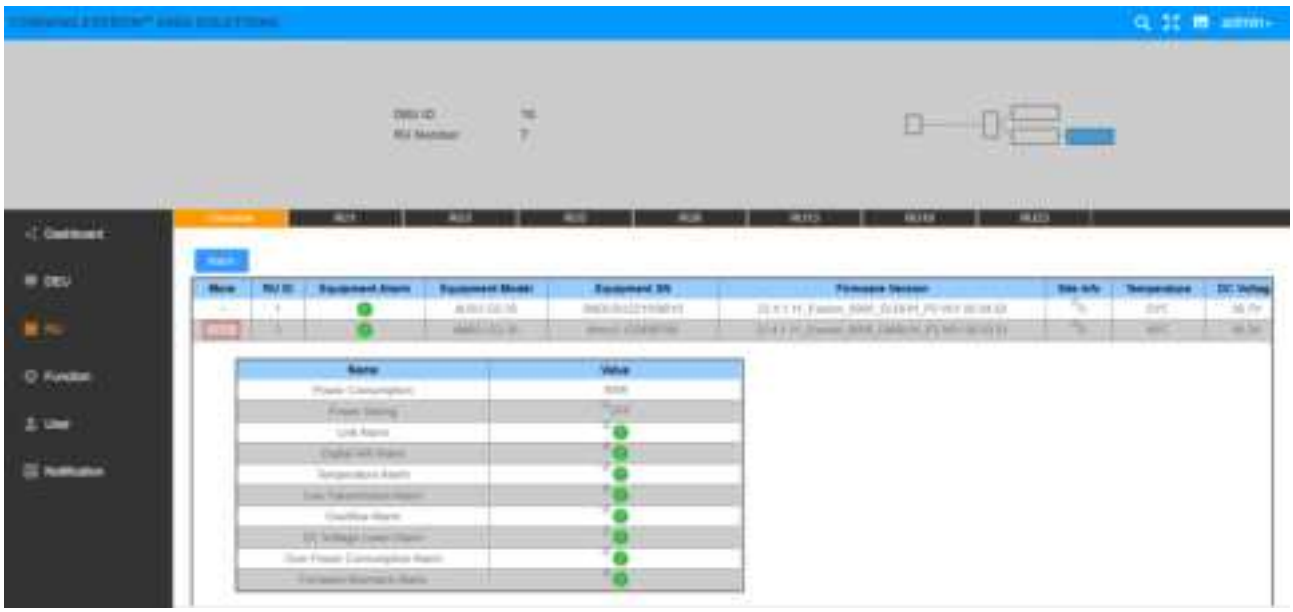


Figure 190.RU Overview More

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	0ns	
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.

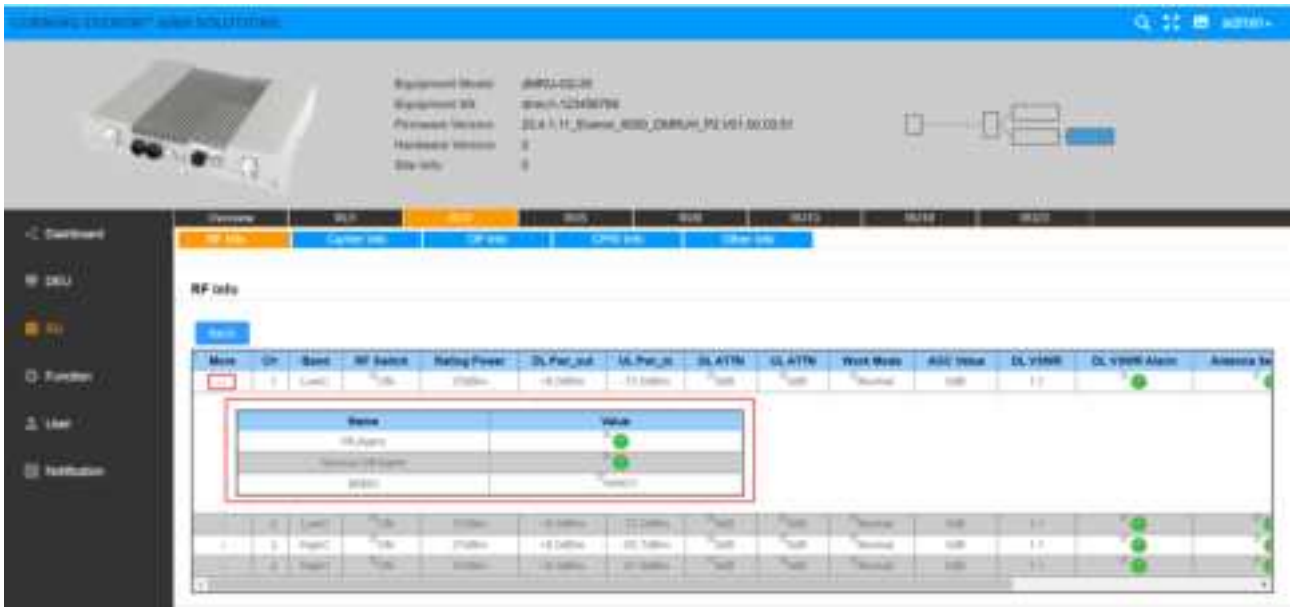


Figure 192. RF info More

5.4.2.2 Carrier Info

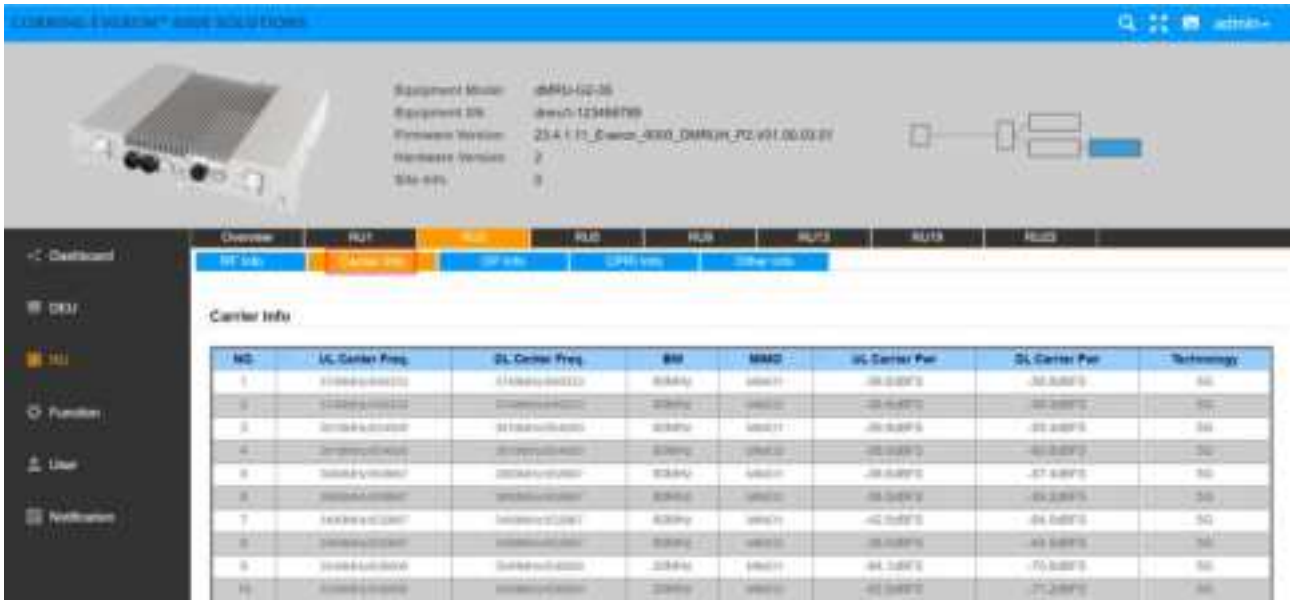


Figure 193.RU Carrier Info

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.

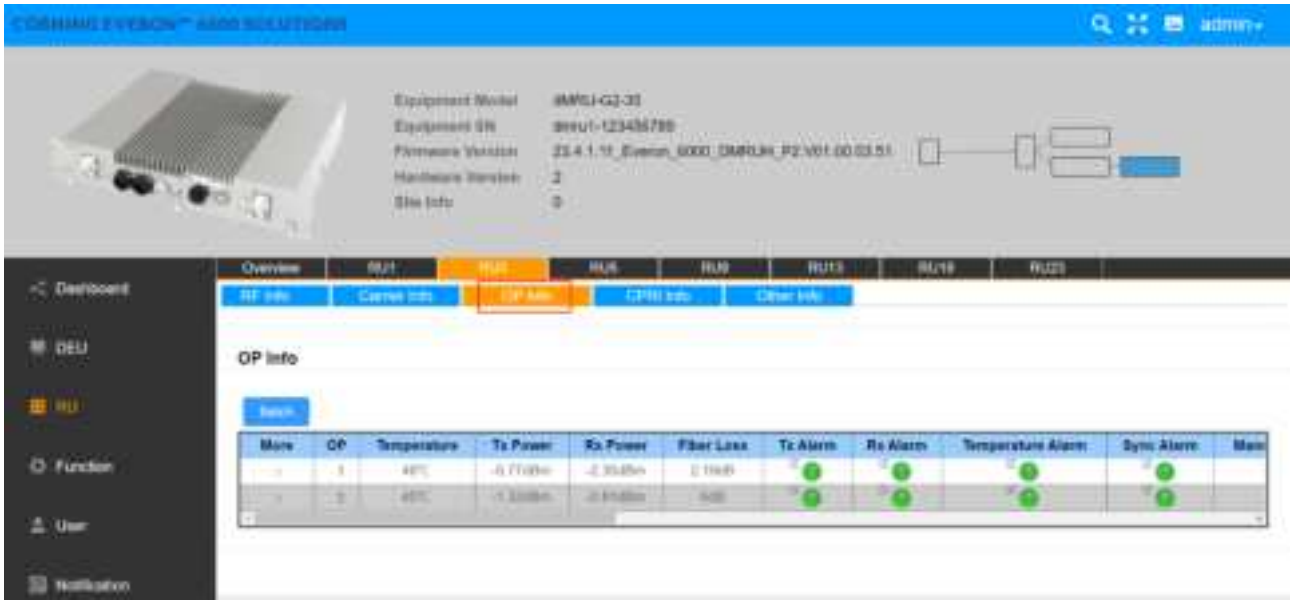


Figure 194. RU OP Info

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).

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) .

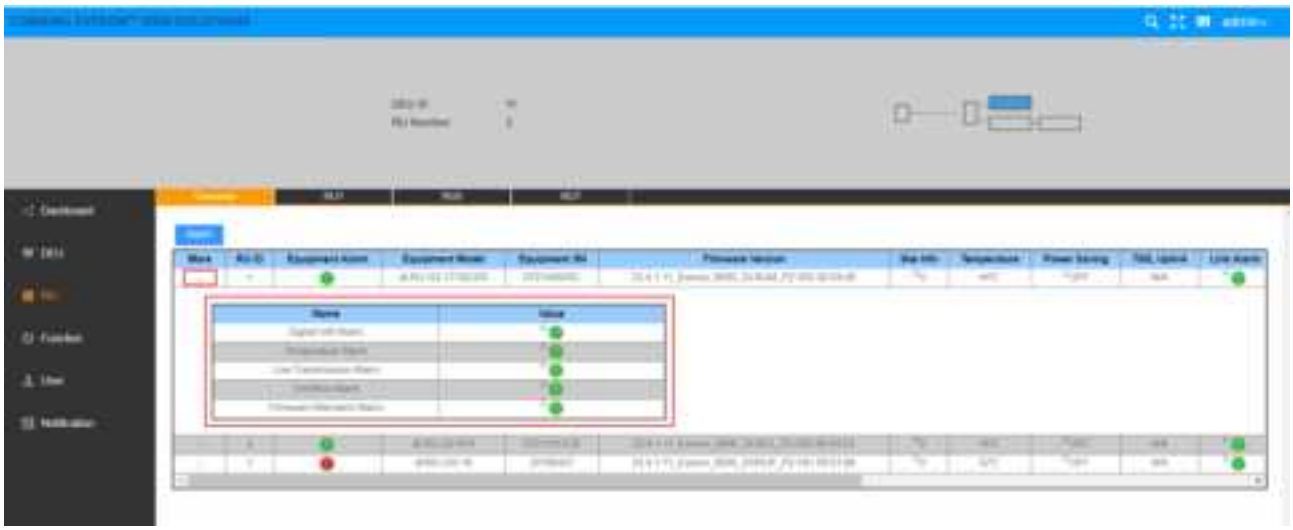


Figure 199.RU Overview More

5.5.2 dLRU Parameter config

5.5.2.1 RF info

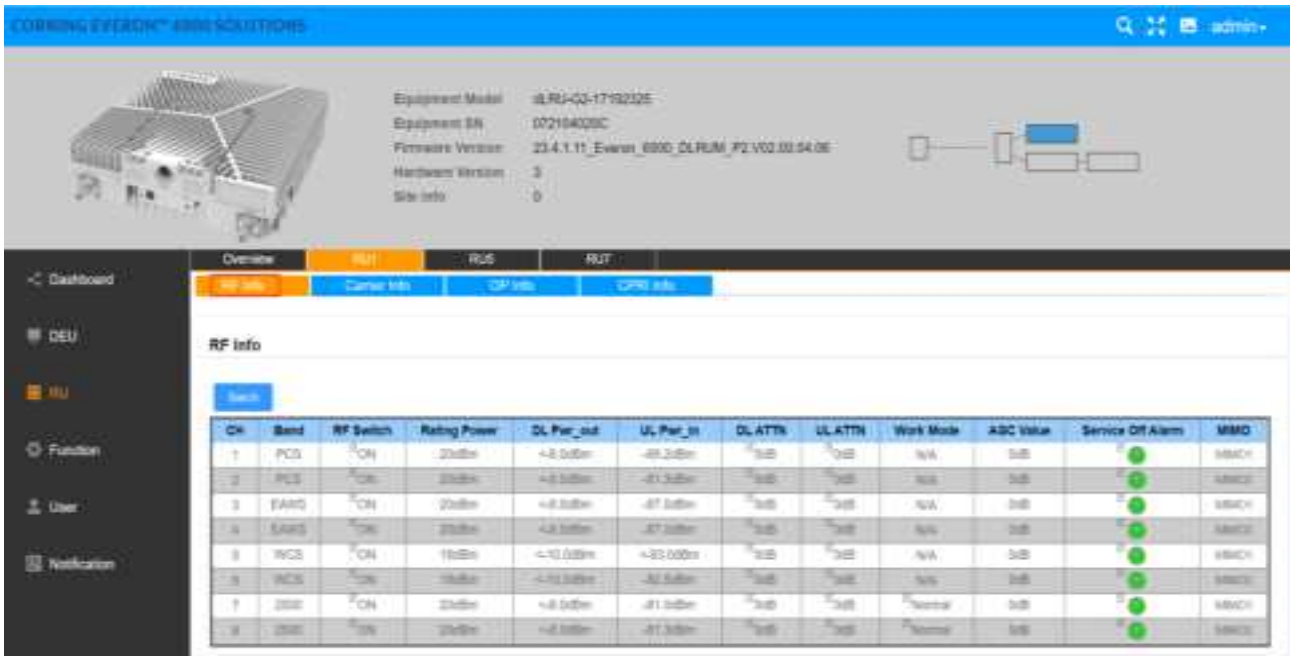


Figure 200.RF Info

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

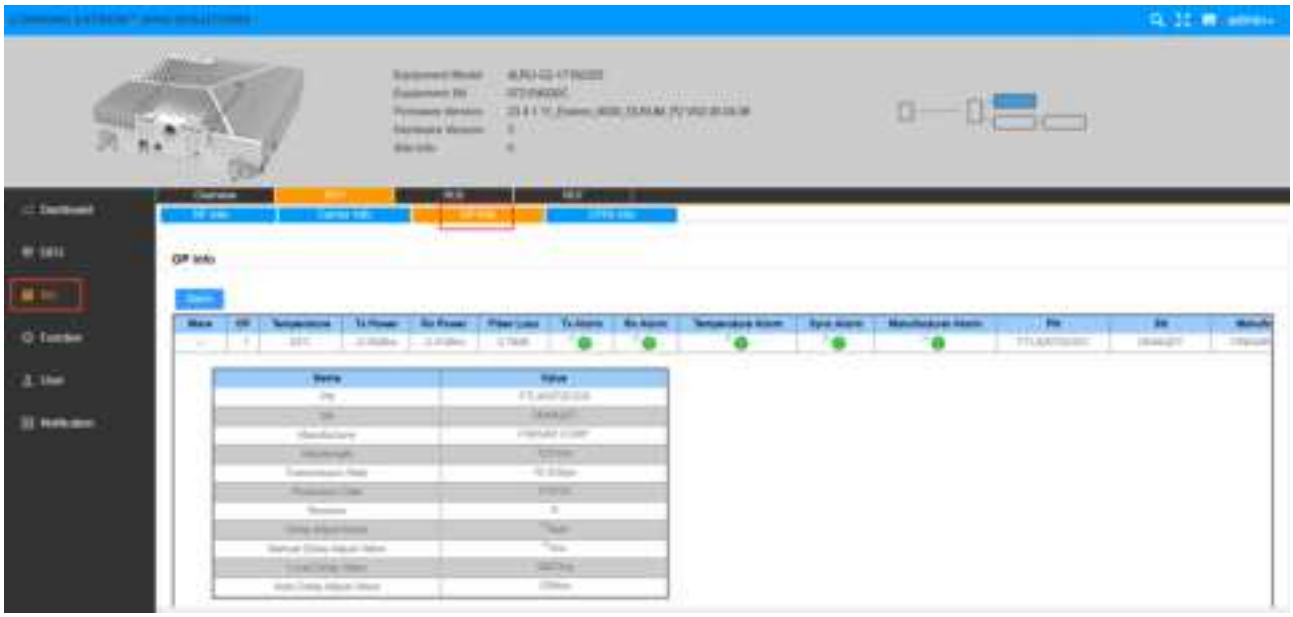


Figure 204.RU OP Info More

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).

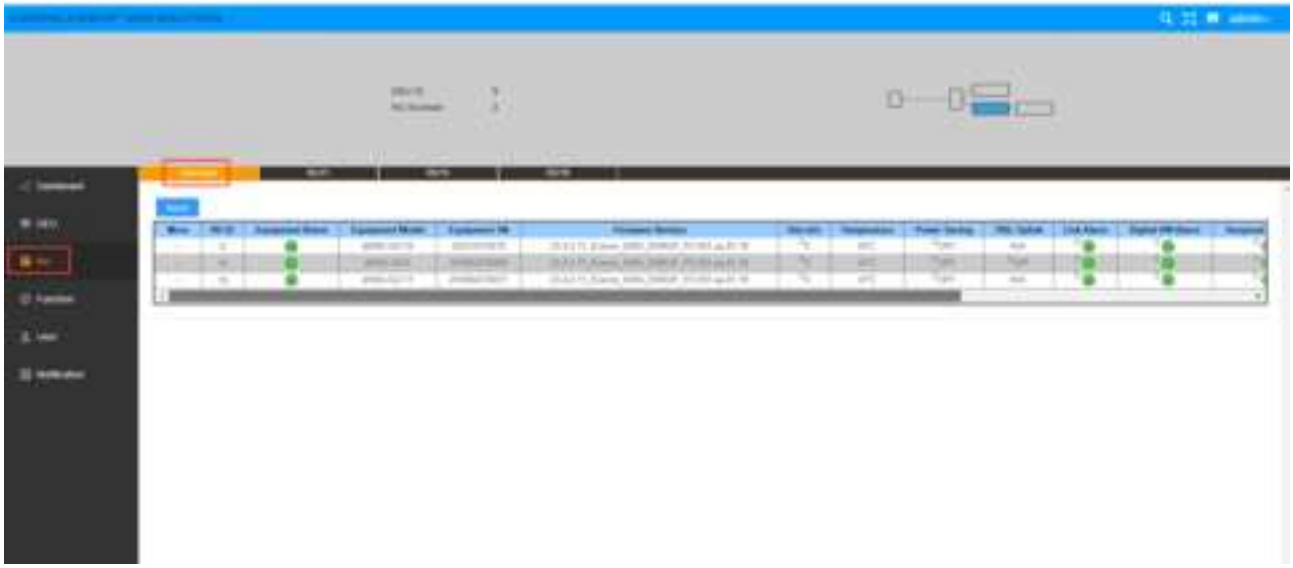


Figure 206. RU—Overview

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)..

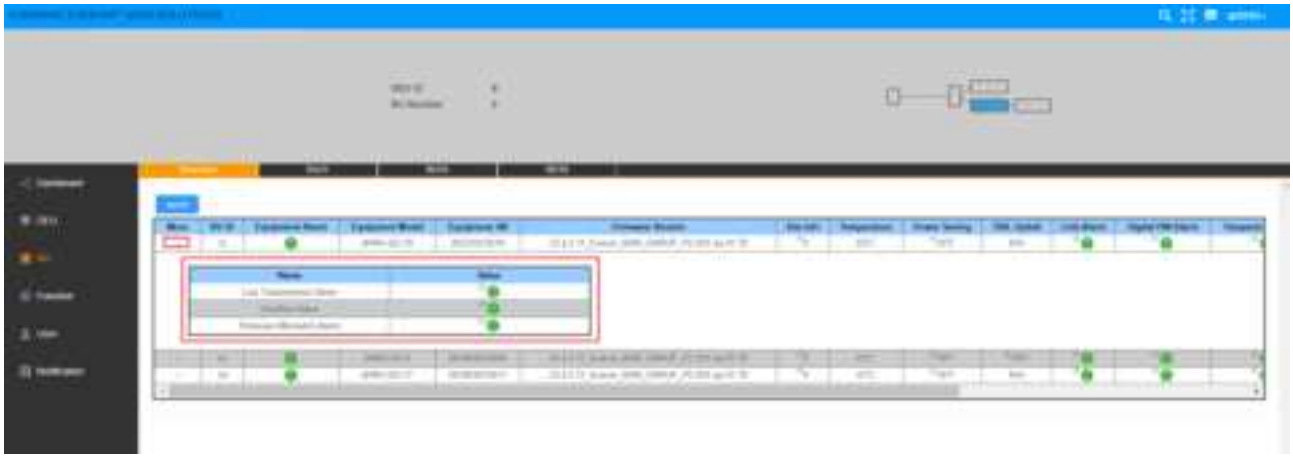


Figure 207. RU-overview—More

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.

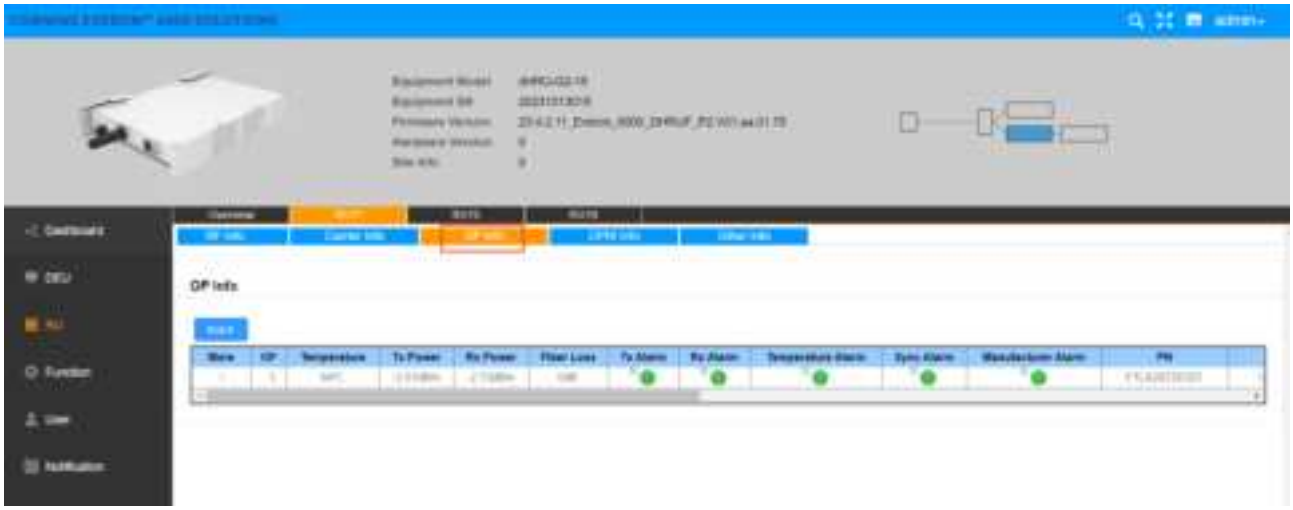


Figure 210. OP Info

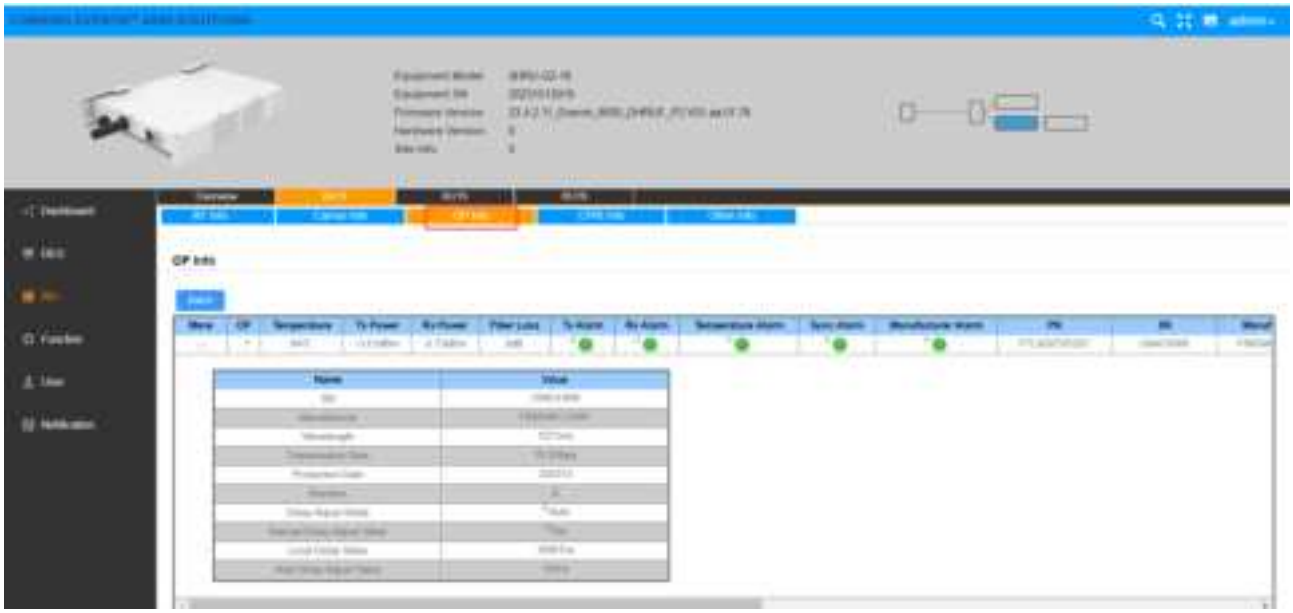


Figure 211. OP Info--More

5.6.1.4 CPRI Info

Figure 212. CPRI Info

5.6.1.5 Other Info

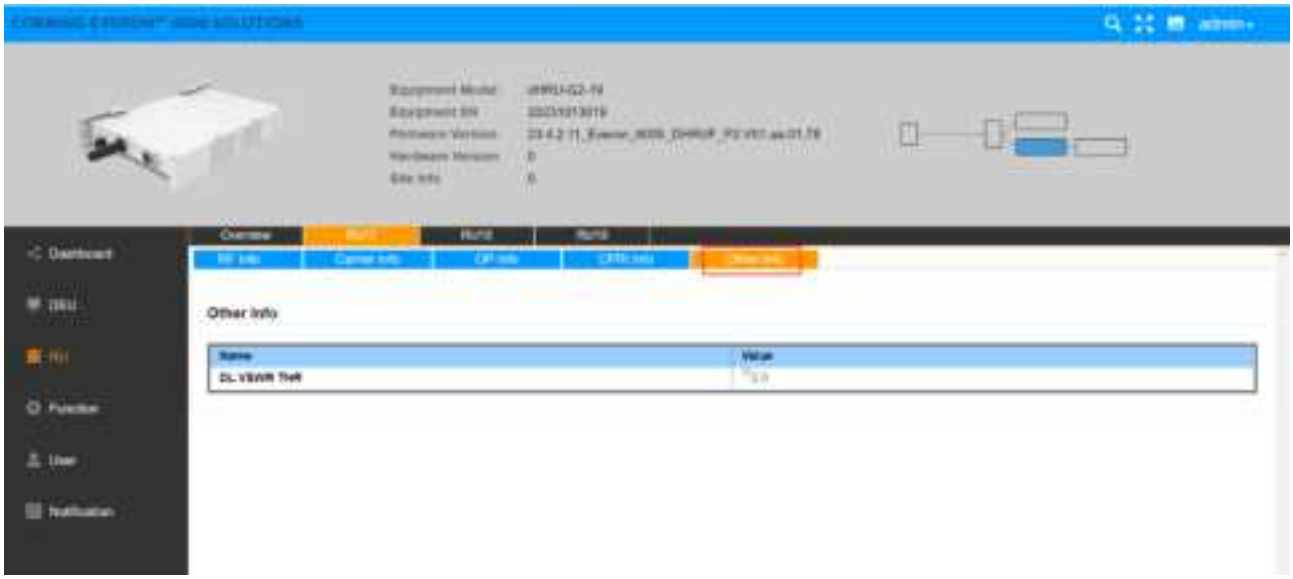
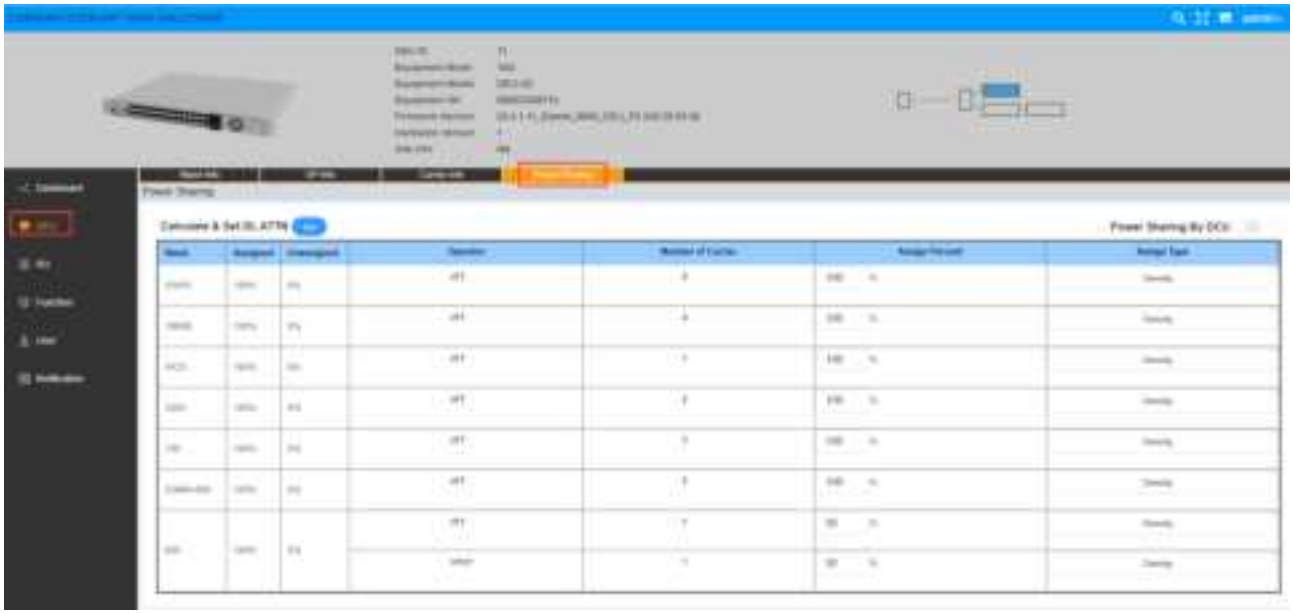


Figure 213. Other Info

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 contral)	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