

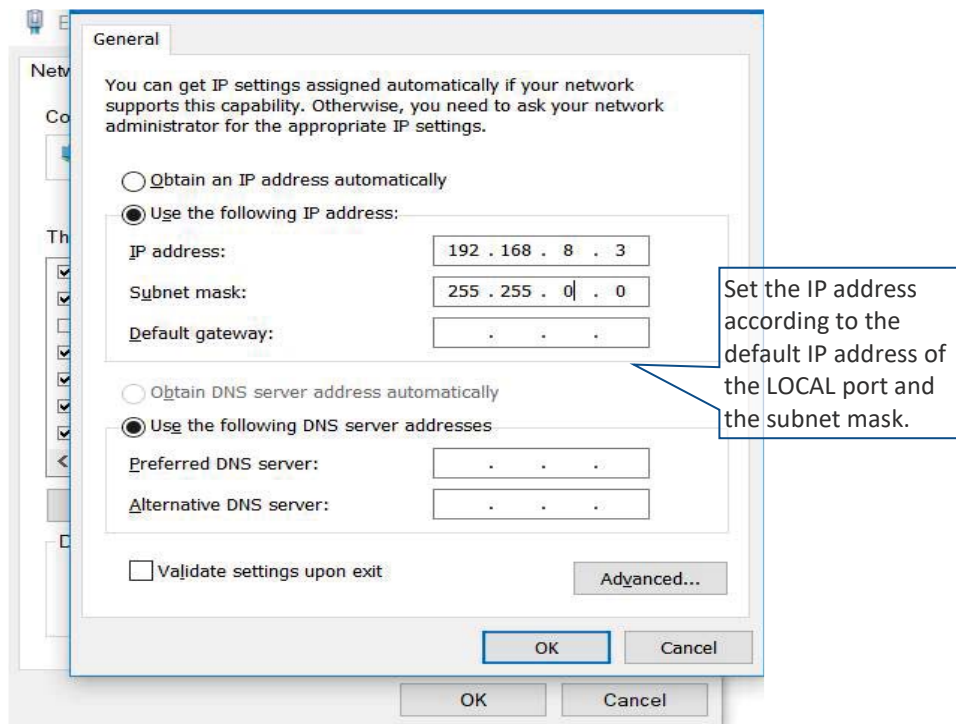


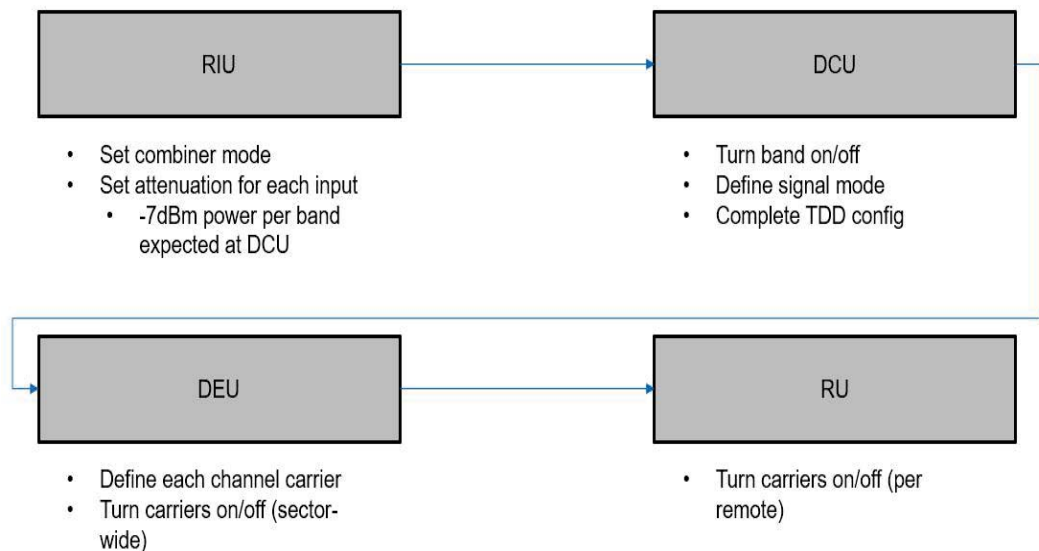
Figure 80. General setting

- 3) Once the connection is established (can be verified by accessing through command prompt: `cmd& ipconfig`), open a browser and type in the LOCAL port default IP address in the address bar: <https://192.168.8.101>.

5. Commissioning

Configuring the Corning® Everon™ 6000_G2 system for each frequency requires a basic understanding of link, budgets, and RF technology. Most system commissioning should be adjusted based on the site requirements and instructions of Corning Support.

webGUI

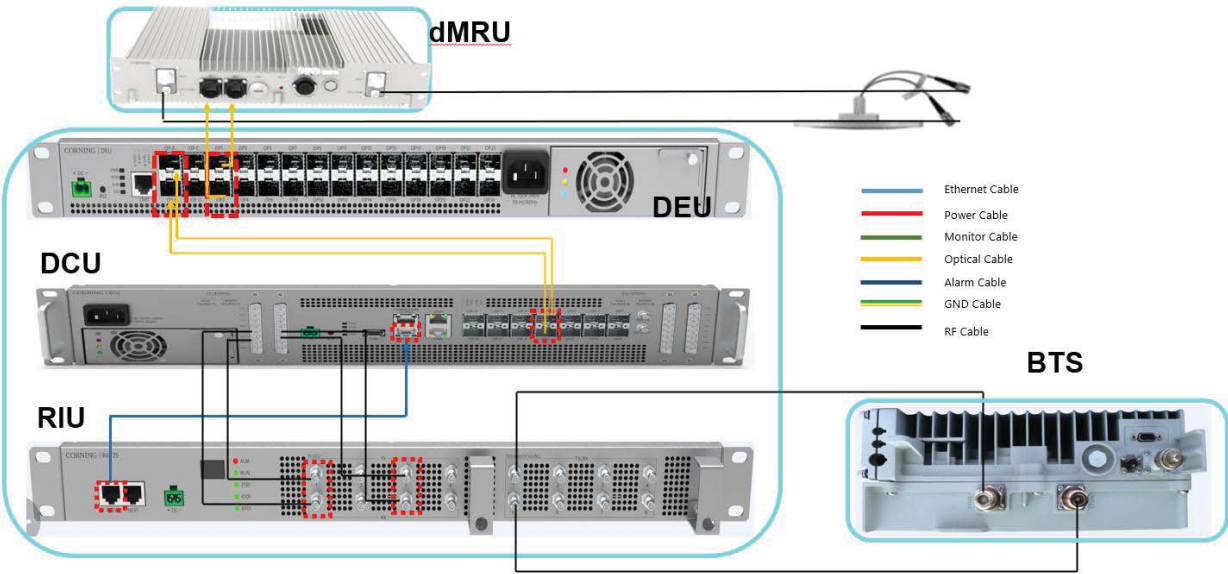


Workflow

Figure 81. webGUI Workflow

**Note: In order to protect the whole system, please keep no signal injection into eNodeB before commissioning.*

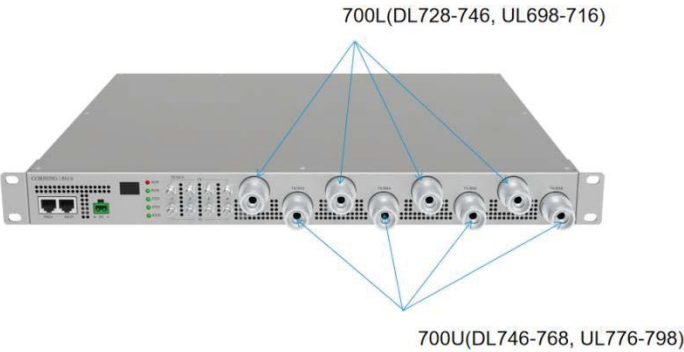
Headend Units – Architecture Example: 2x2 MIMO, 1 Operator.



Commissioning tools:

Tools	Description
Laptop	Debug tool
Network cable	Connect DCU OMT port with laptop

Note: The RIU-G2-7 input ports are different, RIU input port1,3,5,6 for 700L band and port2,4,6,7 for 700U band.



Limitation1: In the current design, all the SFP connections (between DCU and DEU, DEU and dLRU) cannot be cross connected.

The following connection is supported:

DCU Port1 <--> DEU PortA

DCU Port2 <--> DEU PortB

DEU Port1 <--> dLRU-3.5 Port1

DEU Port2 <--> dLRU-3.5 Port2

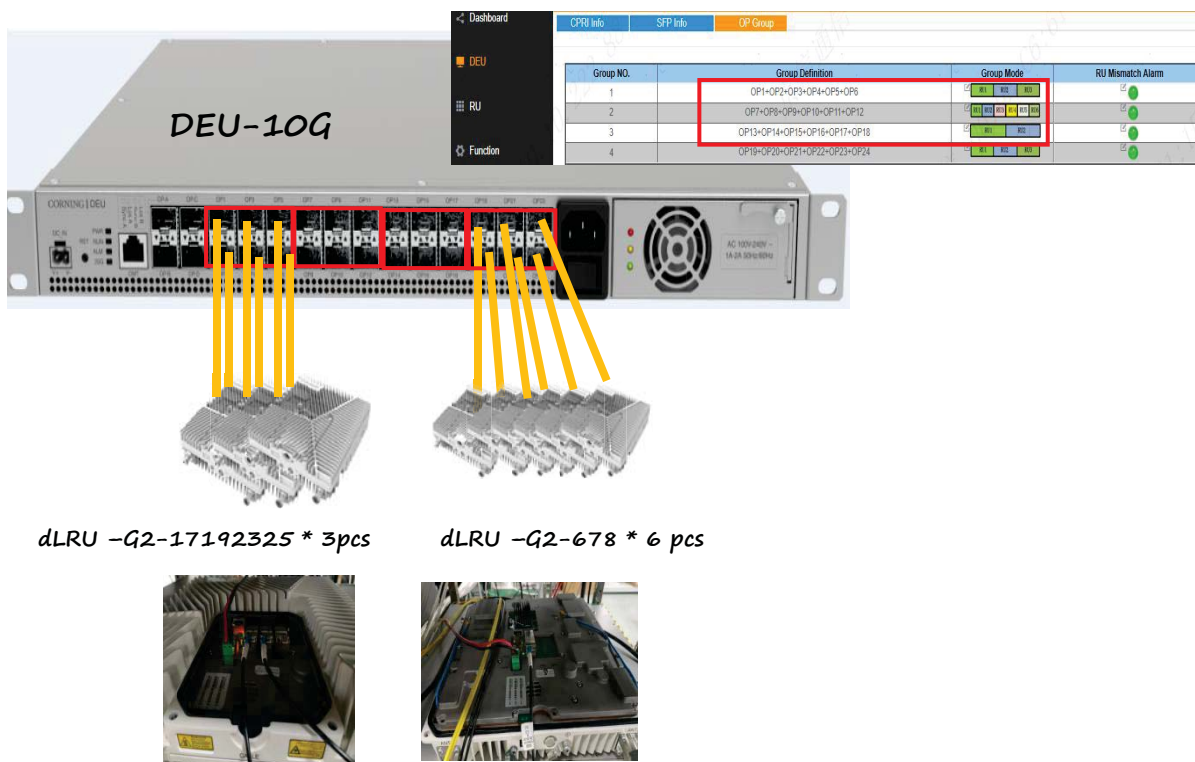
DEU Port3 <--> dMRU-3.5 Port1

DEU Port4 <--> dMRU-3.5 Port2

If the SFP is cross connected between DCU and DEU, the cross status will be shown on DEU web.

1. dLRUlu-3.5 and dMRU-3.5 support 8 carriers in one sub-band, and totally 16 carriers supported.
2. This version is based on build 8 for dLRU-G2-25 and dMRU-G2-25 upgrade.

Case: take dLRU fiber connection as an example.



Note:

- DEU-10G is defined as 4 groups, each group includes 6 ports
 - Each group can be set to
 - 1 fiber is connected to one device (dLRU-678)
 - 2 fibers are connected to one device (dLRU-17192325)
 - Connect the same devices to the same group
 - dLRU-17192325 need to be connected to the same pair SFP, such as OP1&OP2, OP3&OP4, OP5&OP6, but cannot be connected to unpaired ports such as port 1&5, 2&3
- Cross connection (OP1<-->OP2) is NOT supported in build 8

Limitation2: The EAWS channel configuration of DCU should be EAWS+ EAWS or EAWS + 1900B. If configure the channel as EAWS + N/A, it may cause a spurious signal in DL 2155Mhz.

Recommended configuration:

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DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0723067047
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

More	CH.	Band	RF BW	DL Center Freq	Signal Mode	RF Switch	UL ATT	DL ATT	Max. Pwr_In	DL Pwr_In	UL Pwr_out	AGC Value	High Gain
>	1	WCS	10MHz	2355MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	2	WCS	10MHz	2355MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	3	N3500F	250MHz	3575MHz	TDD-LTE	OFF	0dB	0dB	0dBm	N/A	N/A	N/A	Off
>	4	N3500F	250MHz	3575MHz	TDD-LTE	OFF	0dB	0dB	0dBm	N/A	N/A	N/A	Off
>	5	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	6	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	7	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	8	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	9	ESMR+850	32MHz	878MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	10	ESMR+850	32MHz	878MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	11	700L+700U	100MHz	748MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	12	700L+700U	100MHz	748MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	13	2500T	194MHz	2593MHz	TDD-LTE	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	14	2500T	194MHz	2593MHz	TDD-LTE	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	15	600	35MHz	634.5MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	16	600	35MHz	634.5MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off

Not recommended configuration (EAWS+N/A):

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DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0723067047
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

More	CH.	Band	RF BW	DL Center Freq	Signal Mode	RF Switch	UL ATT	DL ATT	Max. Pwr_In	DL Pwr_In	UL Pwr_out	AGC Value	High Gain
>	1	WCS	10MHz	2355MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	2	WCS	10MHz	2355MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	3	N3500F	250MHz	3575MHz	TDD-LTE	OFF	0dB	0dB	0dBm	N/A	N/A	N/A	Off
>	4	N3500F	250MHz	3575MHz	TDD-LTE	OFF	0dB	0dB	0dBm	N/A	N/A	N/A	Off
>	5	N/A	N/A	0MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	6	N/A	N/A	0MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	7	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	8	EAWS-A	90MHz	2155MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	9	ESMR+850	32MHz	878MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	10	ESMR+850	32MHz	878MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	11	700L+700U	100MHz	748MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	12	700L+700U	100MHz	748MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	13	2500T	194MHz	2593MHz	TDD-LTE	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	14	2500T	194MHz	2593MHz	TDD-LTE	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	15	600	35MHz	634.5MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off
>	16	600	35MHz	634.5MHz	FDD	ON	0dB	0dB	0dBm	<-40 dBm	<-45 dBm	0dB	Off

5.1 RIU Config

5.1.1 RIU WEB overview

Click RIU on the left side shown in the figure below to enter the RIU overview control interface where the information (e.g., RIU alarm) can be viewed. Drag the scroll bar under the information list box or the arrow in the column of More to view more.

Configure the following parameters:

- Band: Read Only. This shows the current frequency band supported by the RIU
- Combiner Mode: 8TO1/4TO1/2TO1

More	RIU ID	Band	Combiner Mode	Site Info.	Temperature	Firmware Version	Equipment SN	RIU Alarm	Fan Alarm
>	1	N3500A	4TO1	UNKNOWN	37°C	Everon_6000_RIU_P2.V01.00.00.10 build9	0722507043		

Figure 82. RIU overview

Note: RIU supports 3 working modes (2 to 1, 4 to 1, 8 to 1).

2 to 1, 4x4 MIMO for up to 2 groups. Duplexer (TX/RX1&2 for MIMO1, TX/RX3&4 for MIMO2, TX/RX5&6 for MIMO3, TX/RX7&8 for MIMO4), Simplexes (TX1/RX5 for MIMO1, TX2/RX6 for MIMO2, TX3/RX7 for MIMO3, TX4/RX8 for MIMO4)

4 to 1, 2x2 MIMO for up to 4 groups. Duplexer (TX/RX1&2&3&4 for MIMO1, TX/RX5&6&7&8 for MIMO2), Simplexes (TX1/RX5 for MIMO1, TX2/RX6 for MIMO2)

8 to 1, SISO for up to 4 groups. Duplexer (TX/RX1~8 all for SISO), Simplexes (TX1/RX5 for SISO)

5.1.2 RIU Parameter Config

RIU parameters:

SN	RIU Parameters		Ranges	Default Values	Remark
1	Work Mode		TxRx/Tx/Rx	TxRx	
2	High Gain Mode		ON/OFF DL gain=-30 dB/-7 dB	OFF (-30 dB gain)	ON (-7 dB Gain) Support downlink high gain mode
3	DL P_in		Read only	Read only	Downlink input power
4	RF Switch		On/Off	On	
5	UL ATT		0~25 dB	20 dB	RIU uplink ATT
6	DL ATT		0~25 dB	20 dB	RIU downlink ATT
7	ALC Switch		ON/OFF	ON	
8	High Gain Mode =ON	ALC Level	ON: -11~9 dBm	7 dBm	
		DC Input Overload THR	-13~12 dBm	12 dBm	
		DC Input Lower THR	-25~12 dBm	-15 dBm	
9	High Gain Mode =OFF	ALC Level	OFF: 12~32 dBm	30 dBm	
		DL Input Overload THR	12~37 dBm	37 dBm	
		DL Input Lower THR	0~37 dBm	10 dBm	



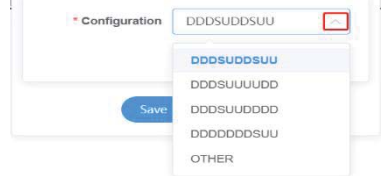
To configure RIU parameters

1. In the dashboard, click RIU NE in the topology and enter RIU info page.



2. In the main menu options, click RIU-RIU 1 and the configuration page appears.

3. In the displayed page, click  to configure each field (Work mode, High Gain Mode, RF Switch, UL ATT, DL ATT, ALC Switch, ALC Level, DC Input Overload THR, DC Input Lower THR).
4. For UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, click the arrow to show the listed optional values and select one; Then click Save .



5. For User Set CF 1~8 and SSB Auto Search Switch, scroll the bar or click the arrow under **More** to fill in relevant values within the range according to the parameters above. Next click Finish

 to complete the settings.

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Equipment Model: RIU-G2-35
 Equipment SN: 0722507043
 Firmware Version: Everon_6000_RIU_P2_V01.00.00.10 build9
 Hardware Version: 1
 Band: N3500A
 Site Info: UNKNOWN

Overview | RIU 1

More	CH	Band	Work Mode	High Gain Mode	Max. Pwr_In	DL Pwr_in	RF Switch	UL ATT	DL ATT	ALC Switch	ALC Level	DL Input Overload Alarm	DL Input Shutdown Alarm
>	1	N3500A	Tx/Rx	OFF	37dBm	<10dBm	ON	0dB	0dB	ON	30dBm	IS	IS
>	2	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	3	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	4	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	5	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	6	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	7	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS
>	8	N3500A	Tx/Rx	OFF	37dBm	<10dBm	OFF	0dB	0dB	ON	30dBm	IS	IS

Figure 83. RIU RF information

5.2 DCU Config

Note: DCU star connection is not supported, planned in Build 10. The max network topology would be 4:16:192(DCU star and DEU daisy chain connection).

5.2.1 DCU -> Dashboard

Click the Dashboard navigation button to enter the dashboard page shown in the figure below, where you can query the full topology of all the dependent NE connected to the DCU unit. Click NE ID in the topology, and switch to the info query and configuration management page of other NE to facilitate the user.

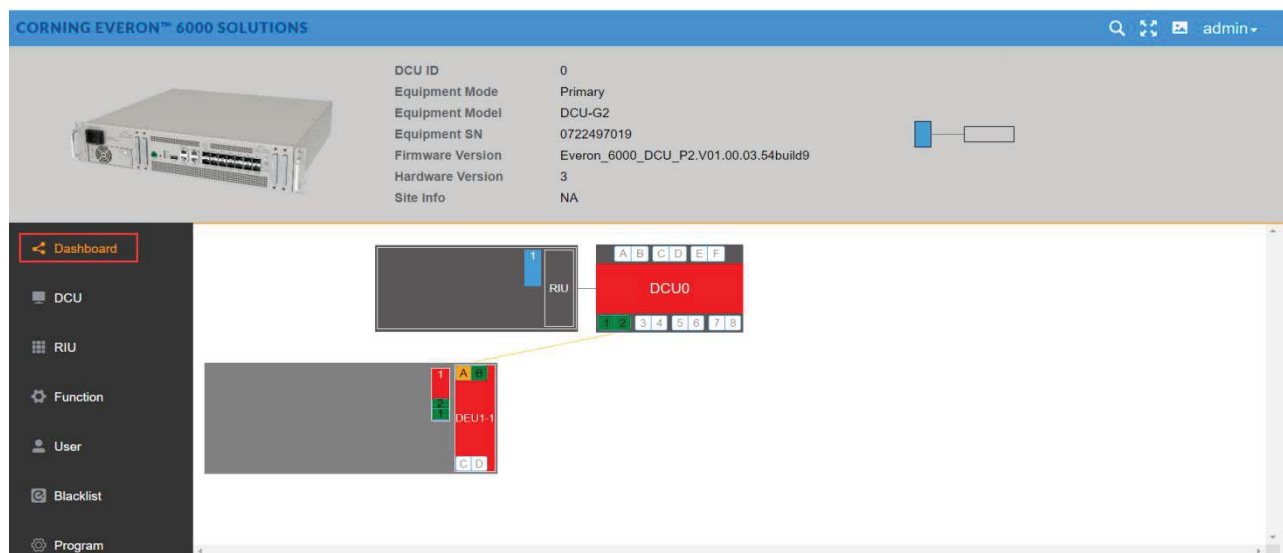


Figure 84. DCU dashboard

5.2.1.1 DCU Alarm

SN	DCU parameters	Range	Default values	Remark
1	DL Overload THR	-40~10dBm	10dBm	Downlink overload threshold
2	Temperature THR	0~125°C	80°C	Temperature threshold
3	Power Temperature THR	0~125°C	80°C	Power supply unit temperature threshold
4	Optical Module Temperature THR	0~125°C	80°C	Optical Module Temperature threshold
5	System Delay THR	-999999999ns~999999999ns	60000ns	System delay threshold

On the left navigation page of the DCU unit, click DCU → Alarm shown in the figure below. On this page, all alarm quantities of the device are displayed to facilitate the user to query and monitor the alarm info.

➤ To configure DCU alarm parameters

1. Click DCU—Alarm Info to enter the configuration page.

2. For alarms, click  and Disable and Enable button can be seen. Select Enable then the green icon will be displayed .

3. For Temperature THR, Power Temperature THR, Optical Module Temperature THR, System Delay THR, click  to enter the values within the range according to the form above.

- Click Finish  to complete the setting.

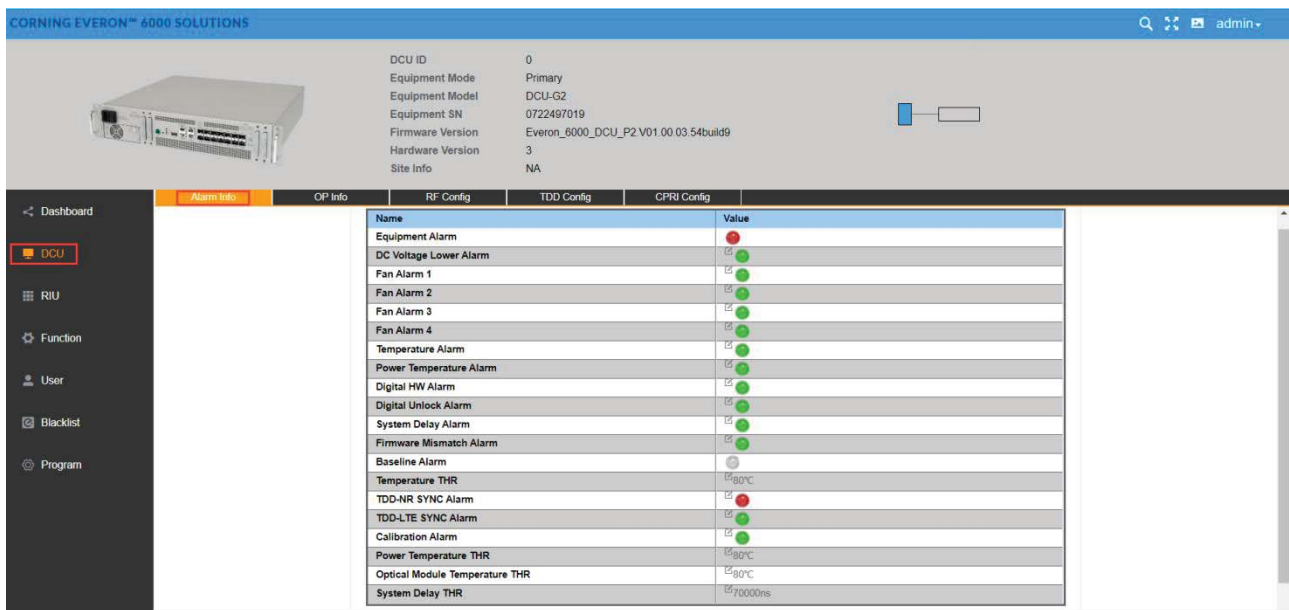


Figure 85. DCU alarm info

5.2.1.2 DCU OP Info

In this window, users can query the information of all optical ports.

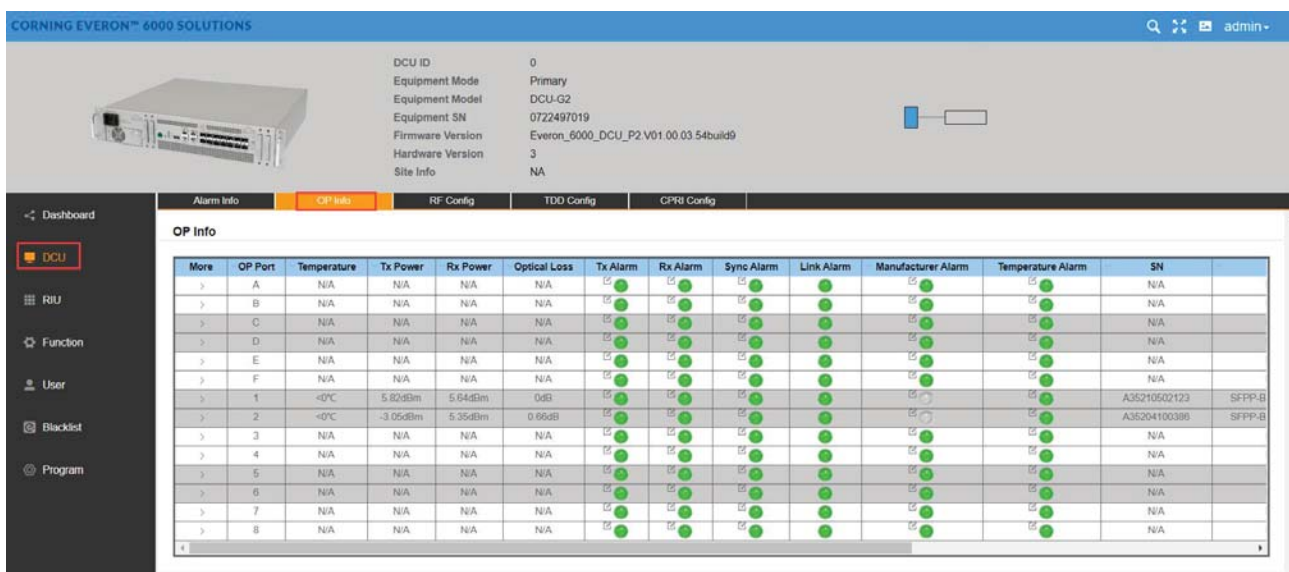


Figure 86. DCU OP info

➤ To configure the OP Info

- Click the left navigation button DCU→ OP Info.

- Click the edit icon  in front of the alarm indicator to enter the alarm Enable and Disable settings page.

- Then click Finish button  to complete the setting, as shown below.

CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Dashboard

DCU

RIU

Function

User

Blacklist

Program

Alarm Info

OP Info

RF Config

TDD Config

CPRI Config

OP Info

More	OP Port	Temperature	Tx Power	Rx Power	Optical Loss	Tx Alarm	Rx Alarm	Sync Alarm	Link Alarm	Manufacturer Alarm	Temperature Alarm
>	A	N/A	N/A	N/A	N/A						
>	B	N/A	N/A	N/A	N/A						
>	C	N/A	N/A	N/A	N/A						
>	D	N/A	N/A	N/A	N/A						
>	E	N/A	N/A	N/A	N/A						
>	F	N/A	N/A	N/A	N/A						
>	1	<0°C	5.82dBm	5.64dBm	0dB						
>	2	<0°C	-3.05dBm	5.35dBm	0.66dB						
>	3	N/A	N/A	N/A	N/A						
>	4	N/A	N/A	N/A	N/A						
>	5	N/A	N/A	N/A	N/A						
>	6	N/A	N/A	N/A	N/A						
>	7	N/A	N/A	N/A	N/A						
>	8	N/A	N/A	N/A	N/A						

Disable ☒ Enable

Finish Cancel

Figure 87. DCU→ OP Info → → Disable/Enable→ Finish/Cancel

Click OP Info →More to view the optical module info, as shown below.

CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Dashboard

DCU

RIU

Function

User

Blacklist

Program

Alarm Info

OP Info

RF Config

TDD Config

CPRI Config

OP Info

More	OP Port	Temperature	Tx Power	Rx Power	Optical Loss	Tx Alarm	Rx Alarm	Sync Alarm	Link Alarm	Manufacturer Alarm	Temperature Alarm														
	A	N/A	N/A	N/A	N/A																				
<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PN</td> <td>N/A</td> </tr> <tr> <td>Production Date</td> <td>N/A</td> </tr> <tr> <td>WaveLength</td> <td>N/A</td> </tr> <tr> <td>Transmission Rate</td> <td>N/A</td> </tr> <tr> <td>Manufacturer</td> <td>N/A</td> </tr> <tr> <td>Revision</td> <td>N/A</td> </tr> </tbody> </table>												Name	Value	PN	N/A	Production Date	N/A	WaveLength	N/A	Transmission Rate	N/A	Manufacturer	N/A	Revision	N/A
Name	Value																								
PN	N/A																								
Production Date	N/A																								
WaveLength	N/A																								
Transmission Rate	N/A																								
Manufacturer	N/A																								
Revision	N/A																								
>	B	N/A	N/A	N/A	N/A																				
>	C	N/A	N/A	N/A	N/A																				

Figure 88. DCU→ OP Info→More

5.2.1.3 DCU RF Config

SN	DCU RF Config Parameters	Ranges	Default Values	Remark
1	Band	Channel1-8 3500G/3500F/2500T/WCS/1900B/ EAWS-A Channel 9-16: 600/700L+700U/ESMR+850/2500T/WCS/ 1900B/EAWS-A	N/A	If the 16 channels are divided into 4 groups (1-4, 5-8, 9-12, 13-16, EAWS-A and 1900B must be in the same group
2	BW	Read only	Read only	
4	Signal Mode	FDD/TDD-LTE/TDD-NR/TDD-LTE+TDD-NR	TDD-NR	
5	RF Switch	ON/OFF	OFF	
6	UL ATT	0~20 dB	20dB	
7	DL ATT	0~20 dB	20dB	
8	High Gain Mode	ON/OFF	OFF(0dB)	
9	DL Overload THR	-40~10 dBm	10 dBm	

Note:

- One DCU has the limitation of radio band(channel). It supports max 8 bands of these 9 bands (N3500F/2500T/EAWS-A/1900B/WCS/600/700L+700U/ESMR+850/3500G)
- The 3500F supports (3450~3700MHz), 3500G supports(3700~3980MHz)
- If the bands are N3500F,2500T and N3500G, there are three signal modes to choose from including TDD-NR,TDD-LTE,TDD-LTE+TDD-NR. If select other bands, the signal mode can only be FDD.
- If the TDD band(N3500F/2500T/3500G) is configured, the TDD parameters need to be configured.
- The CPRI config interface is associated with all channels in RF config.

➤ To achieve RF config

- Click DCU→ RF Config to enter the page below.
- Click the icon  in each field.
- Select one from the drop-down options (e.g., In Band, N3500G is selected).
- For UL ATT, DL ATT, DL Overload THR, enter values within the range according to the parameters form above.
- For RF Switch and High Gain Mode, select ON/OFF and Enable /Disable button.
- Click Finish button  to complete the settings.

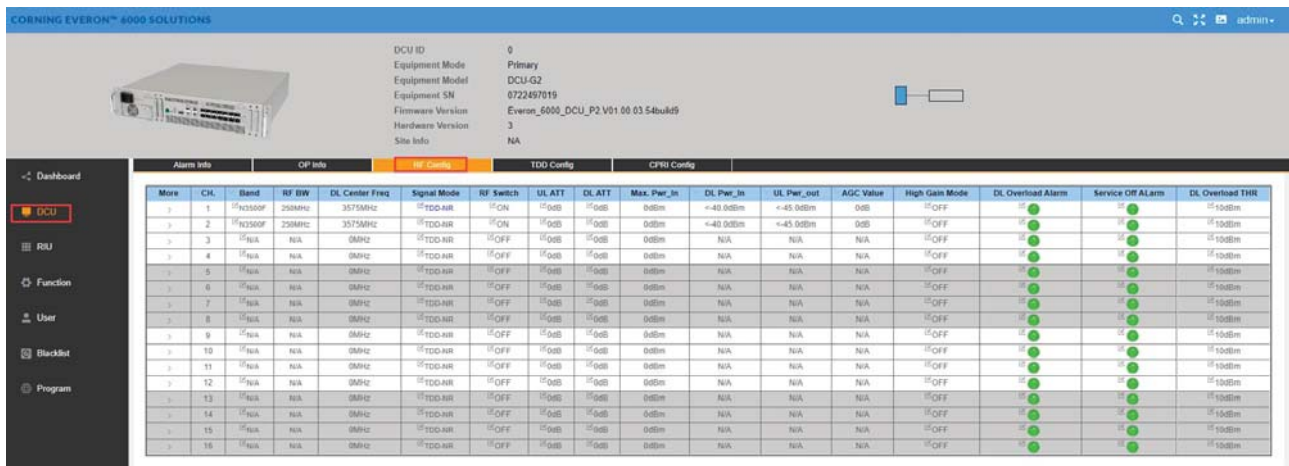


Figure 89. DCU→RF Config

5.2.1.4 DCU TDD Config

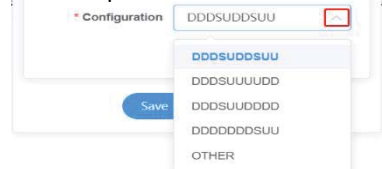
SN	DCU TDD Config Parameters	Ranges	Default Values
1	UL/DL Slot Configuration	Pattern0:DDDSUDDSUU/Pattern 1:DDDSUUUDD/Pattern 2: DDDSUUDDDD/Pattern 3: DDDDDDDSUU/Custom	DDDSUDDSUU
2	Special Sub Configuration	3:8:3/ 10:2:2/ 6:4:4/ Custom	10:2:2
3	Sub Carrier Spacing	15 kHz/30 kHz	30 kHz
4	User Set CF 1~8	(2496-2690) (3450-3700) (3700-3980) (862-894) (617-652) (2350-2360) (728-768) (1930-2020) (2110-2200) MHz	0
5	SSB Auto Search Switch	ON/OFF	OFF

UL/DL Slot Configuration: User-defined parameters are supported, but should be the same as the operator parameters.

➤ To configure the TDD parameters

- For each screen field above (UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, User Set CF 1~8, SSB Auto Search Switch), click  to configure.
- For UL/DL Slot Configuration, Special Sub Configuration, Sub Carrier Spacing, click the arrow show

the list of optional values and select one; Click Save  to complete the setting.



- For User Set CF 1~8 and SSB Auto Search Switch, scroll the bar or click the arrow under **More** to fill in relevant values within the range according to the parameters above. Click Finish

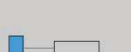
button .

CORNING EVERON™ 6000 SOLUTIONS

🔍 🔄 ⚙️ admin ▾



DCU ID	0
Equipment Mode	Primary
Equipment Model	DCU-G2
Equipment SN	0722497019
Firmware Version	Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version	3
Site Info	NA



Alarm info
OP Info
RF Config
TDD Config
CPR1 Config

TDD-NR Info

More	CH.	Band	TDD SYNC Status	TDD SYNC Switch	TDD SYNC CF	Working Module	UL/DL Slot Configuration	DL SSB P_in	Special Subframe Configuration
>	1/2	N3500F	●	☞ ON	0MHz	N/A	☞ DDDSUDSUU	-96dBm	☞ 10 2 2

Dashboard
DCU

- RIU
- Function
- User
- Blacklist
- Program

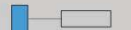
Figure 90. DCU→TDD Info

CORNING EVERON™ 6000 SOLUTIONS

 admin



DCU ID	0
Equipment Mode	Primary
Equipment Model	DCU-G2
Equipment SN	0722497019
Firmware Version	Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version	3
Site Info	NA



Dashboard
Alarm Info
OP Info
RF Config
TDD Config
CPRI Config

More	CH	Band	TDD SYNC Status	TDD SYNC Switch	TDD SYNC CF	Working Module	UL/DL Slot Configuration	DL SSB P_in	Special S
▼	1/2	N3500F	●	ON	0MHz	N/A	DDSDUDDSUU	-96dBm	

Name	Value
Sub Carrier Spacing	30kHz
User Set CF1	0MHz/0
User Set CF2	0MHz/0
User Set CF3	0MHz/0
User Set CF4	0MHz/0
User Set CF5	0MHz/0
User Set CF6	0MHz/0
User Set CF7	0MHz/0
User Set CF8	0MHz/0
SSB Auto Search Switch	OFF

Figure 91. TDD Config→More

5.2.1.5 CPRI Config

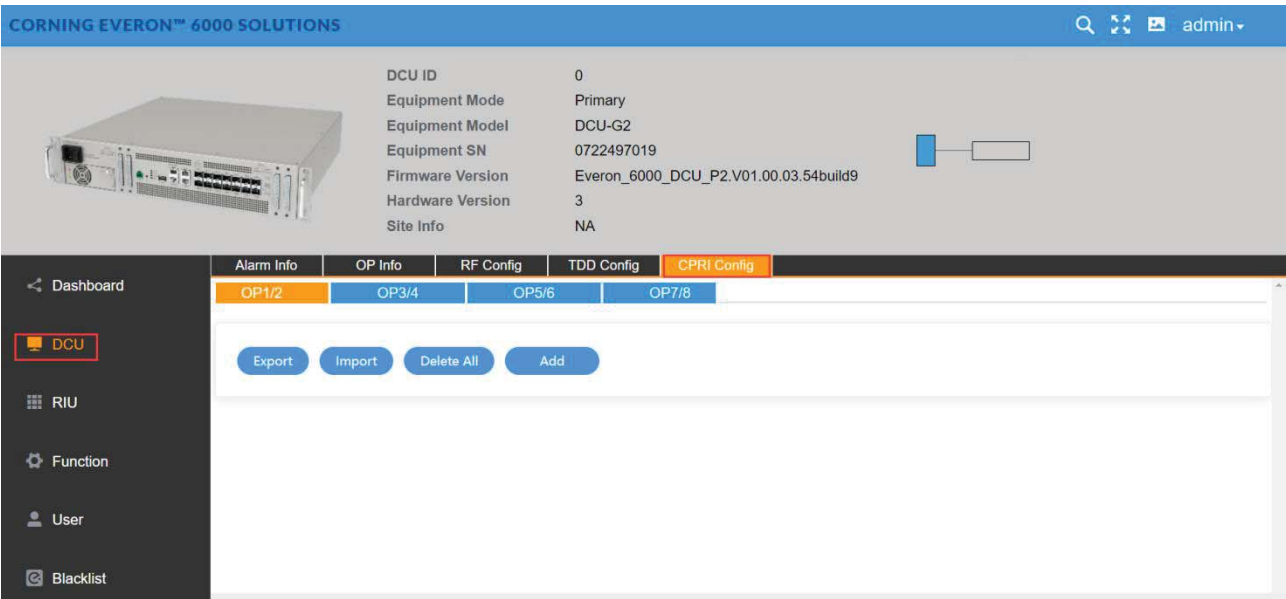


Figure 91. DCU→CPRI Config

You can select OP1-8 to complement these configurations including export, import, delete all and add.

Click Add to add carrier. For the band, N/A and N 3500F can be selected. For DCU, you can select N/A, CH 1/2, CH3/4, CH5/6, CH7/8, CH9/10, CH 11/12, CH 13/14, CH 15/16. For MIMO, MIMO 1/2 and MIMO 3/4 can be selected. Then click Save to complete the carrier adding configuration as shown below.

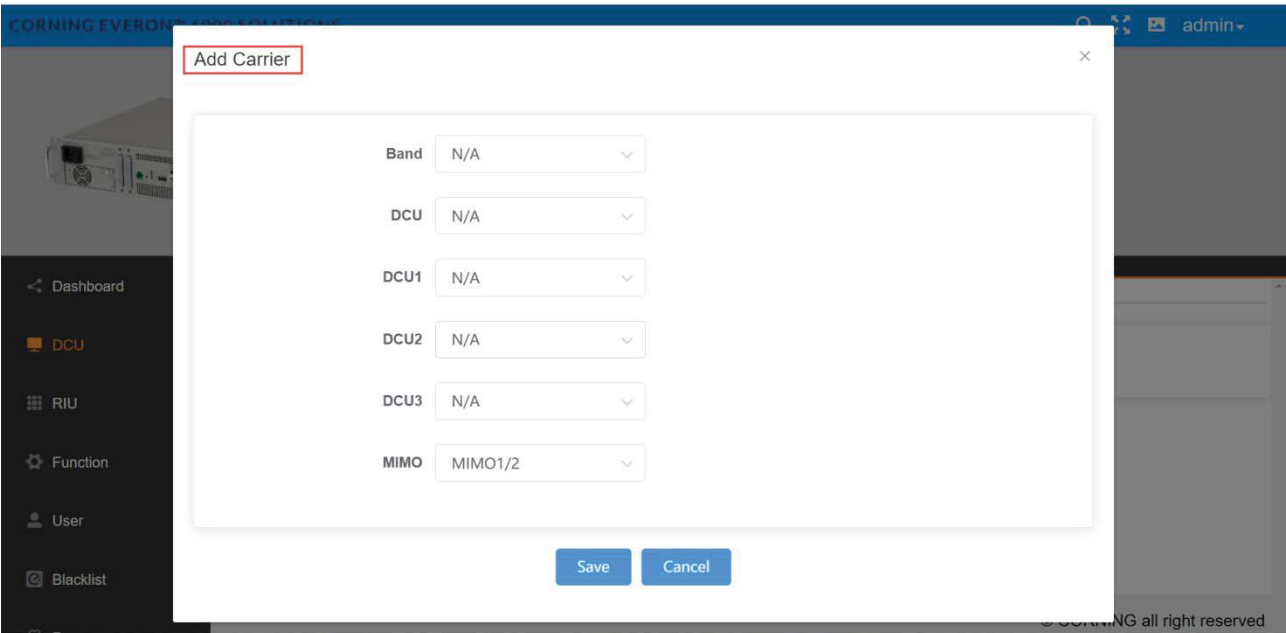


Figure 92.DCU→CPRI Config→Add Carrier

5.2.2 DCU -> RIU

As shown in the figure, click DCU → RIU to query and set the information of the RIU connected to the DCU unit.

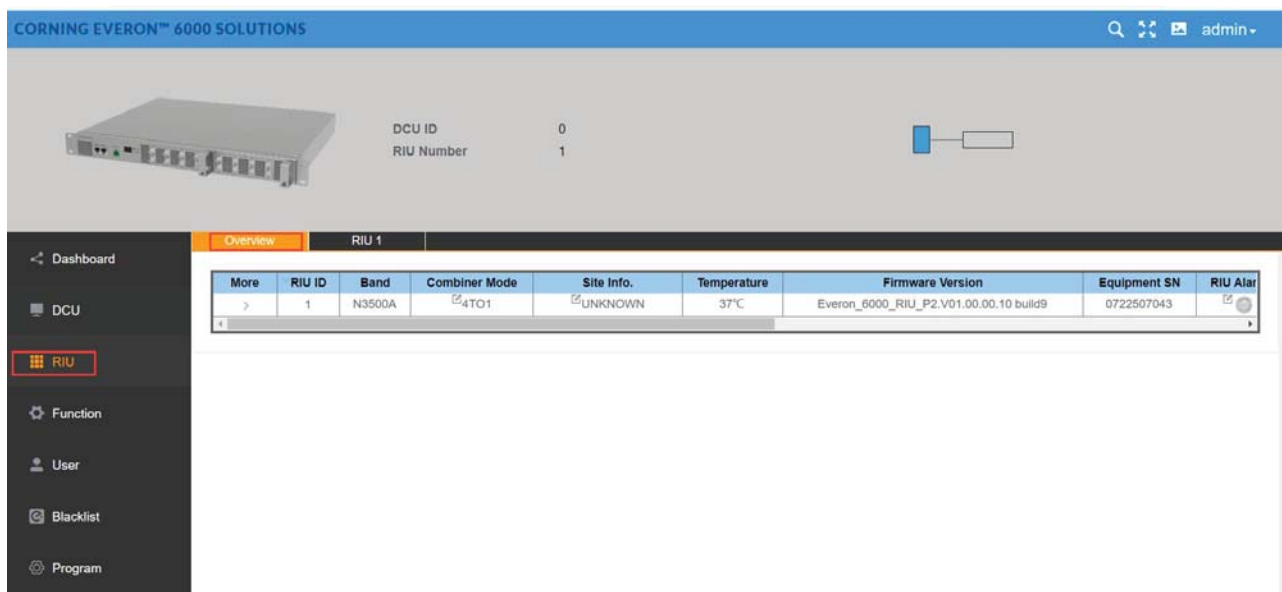


Figure 93. RIU overview

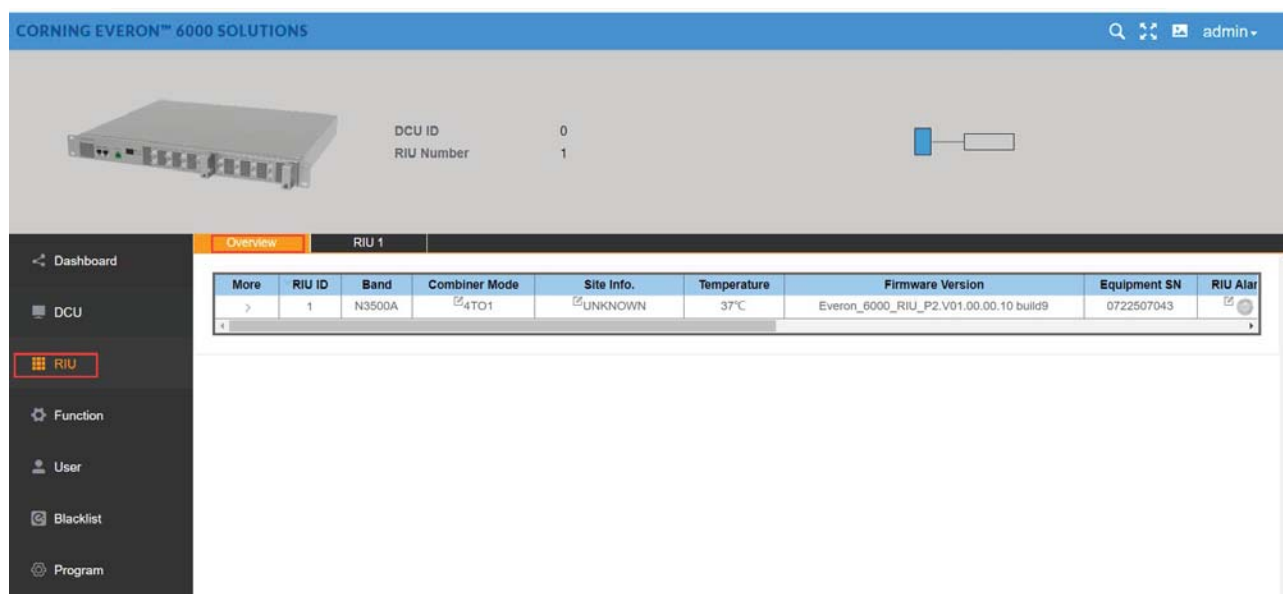


Figure 94. RIU overview→More

5.2.3 DCU -> Function

Configure the max input according to specific needs.

5.2.3.1 Device Info

Click Function → Device Info to query the names and values of the device, as shown below.

CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Device Info

Name	Value
Equipment Temperature	54°C
Power Temperature	27°C
DC Voltage	52.8V
AC Input Voltage	218.2V
DC Power Consumption	117W
AC Power Consumption	132W
Fan Speed	2700r/min
Uptime	07:00:59:53:00
Date/Time	2023-05-19 15:50:06
72H Reboot Time	02:00
Equipment Mode	Primary
System MAX Delay	6717ms
Site ID	00000000
DCU ID	0
Site Info	NA
Longitude	NA
Latitude	NA

Figure 95. DCU → Function → Device Info

72H reboot time, site info, site ID, user model and device mode can be customized by users.

72H Reboot Time is set by the user which can be reset within 24 hours; Device Mode is used to set the work mode of DCU. (Note: when DCU is in master mode, it can be connected to DEU; when DCU is in slave mode, it cannot be connected to DEU and cannot work independently. It can only be connected to master DCU for normal use.)

5.2.3.2 Reset

Click Function → Reset to reset the software and hardware of DCU and clear the historical alarms.

CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Reset

Item	Action
Restore Factory Settings	Reset
Clear History Alarm	Clear
DCU Hardware Reset	Reset
DCU Software Reset	Reset
RIU1 Reset	Reset

Figure 96. DCU → Function → Reset

5.2.3.3 Trigger Switch

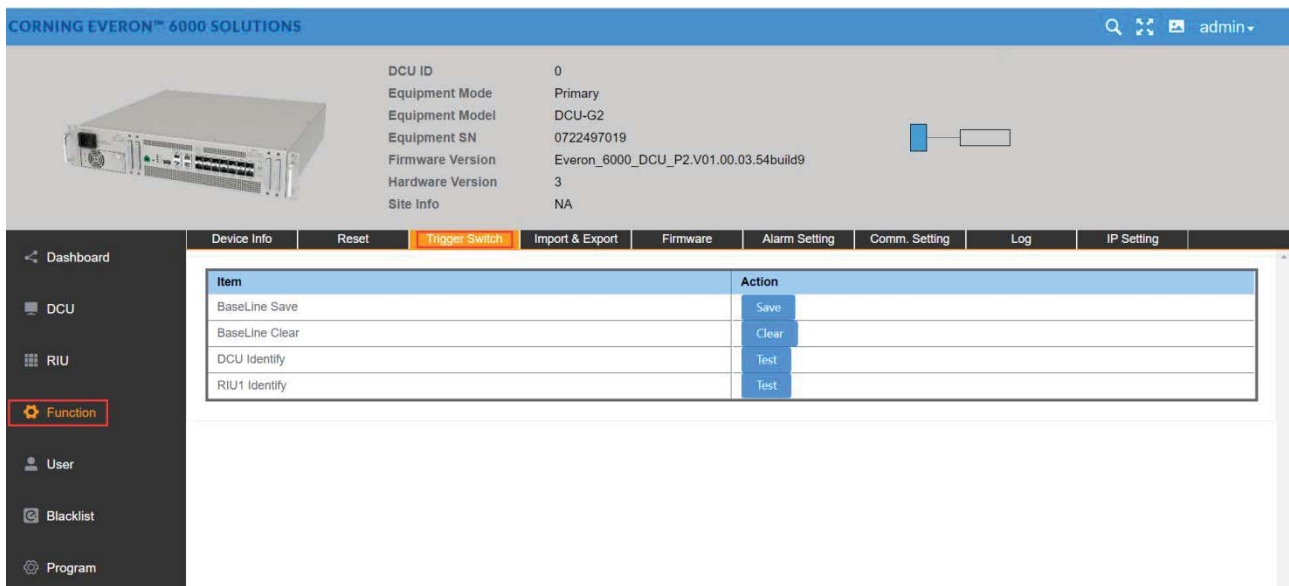
Trigger Switch includes Baseline Save, Baseline Clear and DCU Identify.

Baseline Save: It is to save the current topology based on customer requirements. If an NE is removed, a baseline Save alarm will be generated.

Baseline Clear: It is to clear the previous topology and update it to the current topology.

DCU Identity: If it is clicked, the red alarm indicator will blink for 10 seconds.

Click DCU->Function->Trigger Switch as shown in the figure below.



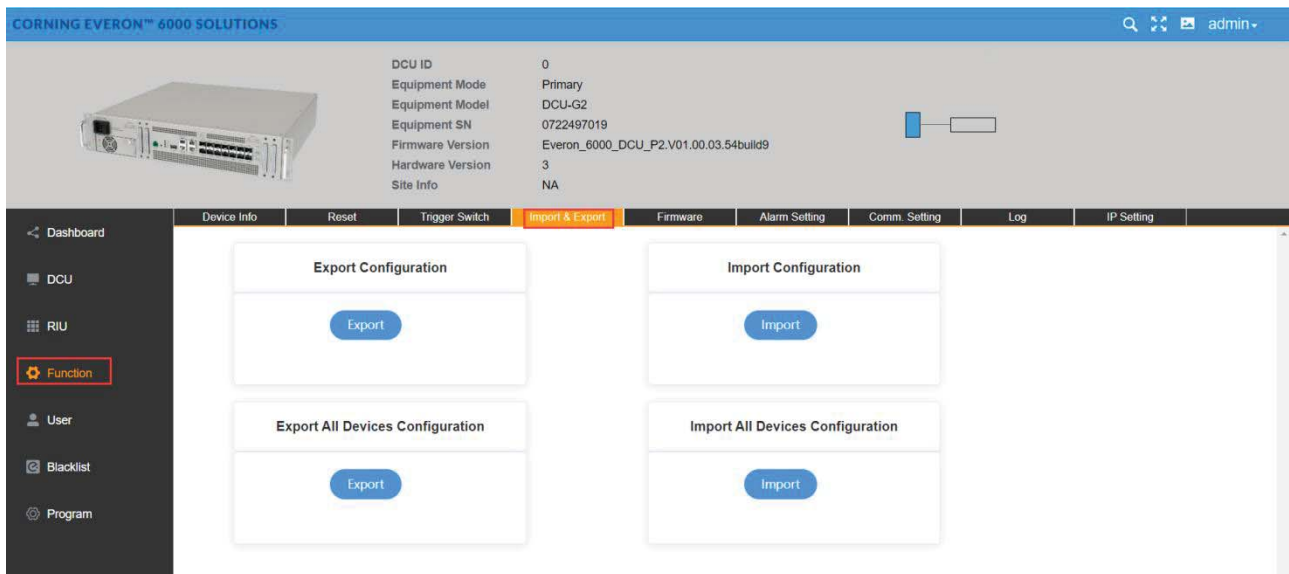
DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Item	Action
BaseLine Save	Save
BaseLine Clear	Clear
DCU Identify	Test
RIU1 Identify	Test

Figure 97. DCU->Function->Trigger Switch

5.2.3.4 Import&Export

The user can import and export DCU configuration by clicking Function → Import & Export, as shown in figure:



DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Export Configuration
Export

Import Configuration
Import

Export All Devices Configuration
Export

Import All Devices Configuration
Import

Figure 98. DCU →Function → Import & Export

5.2.3.5 Firmware

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

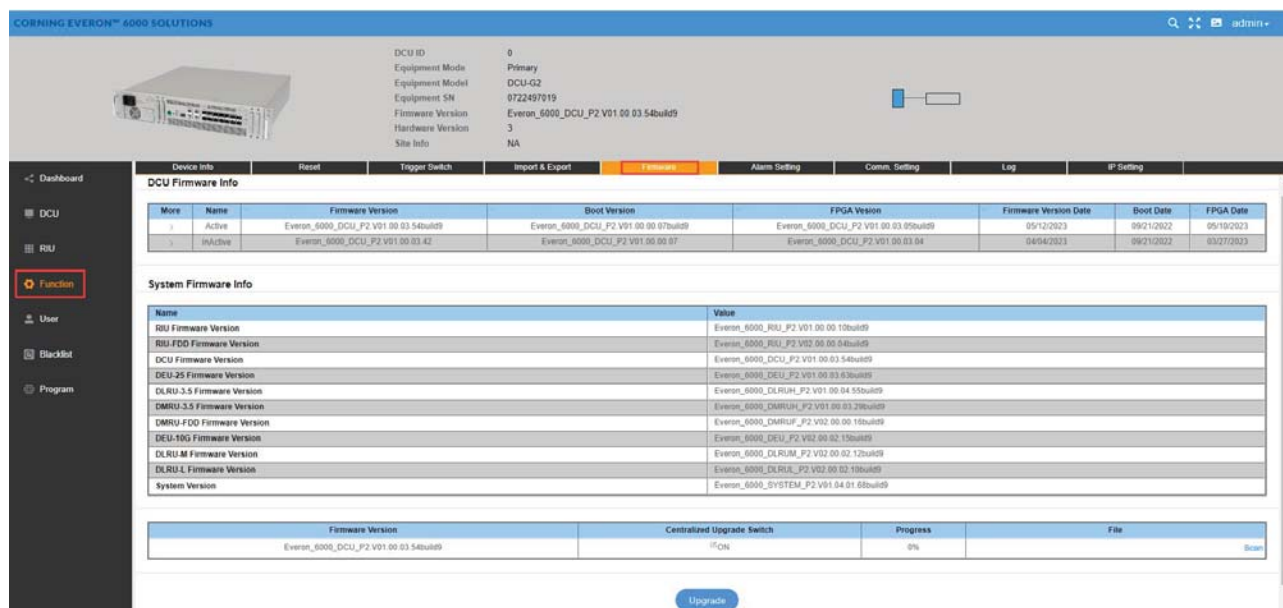


Figure 99. DCU →Function→ Firmware

Two upgrade modes are supported by 5G digital DAS products of D430 series of the system software of all NE: centralized upgrade and decentralized upgrade. The settings of the two modes can be configured in Control Switch.

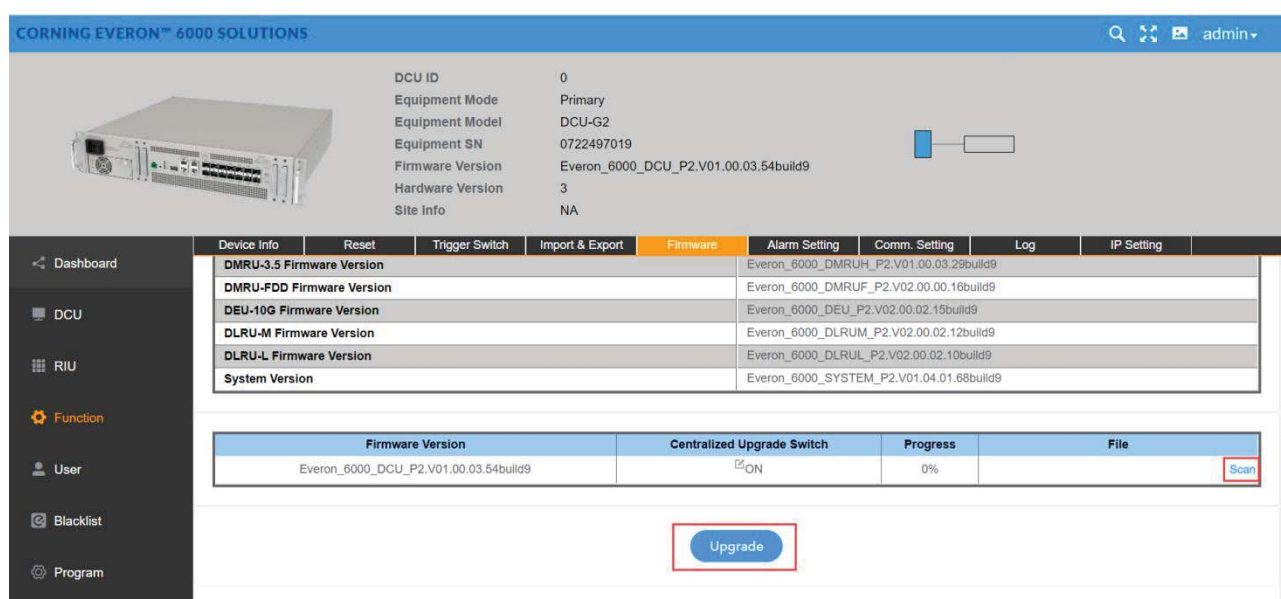


Figure 100. Firmware Upgrade Configuration

1. Decentralized upgrade: the Control Switch is OFF and only the software of the current DCU unit can be upgraded in this mode. The steps to upgrade the software are the followings:

Step 1: Click SCAN to import the software version to be upgraded.

Step 2: Click Upgrade. When the progress of downloading the software to the device is 100% and FINISH is prompted, the software is successfully downloaded.

Step 3: After the device is reset, the software will be upgraded automatically.

2. Centralize upgrade: the Control Switch is ON. The system software of seven NE (RIU, DCU, DEU, dLRU-2.5, dLRU-3.5, DMRU-2.5, DMRU-3.5) in the 5G digital DAS products will be stored after they are imported into the internal storage by the users. All the slave NE (slave DCU, DEU, dLRU) connected to this seven NE will automatically take the system software to be upgraded independently.

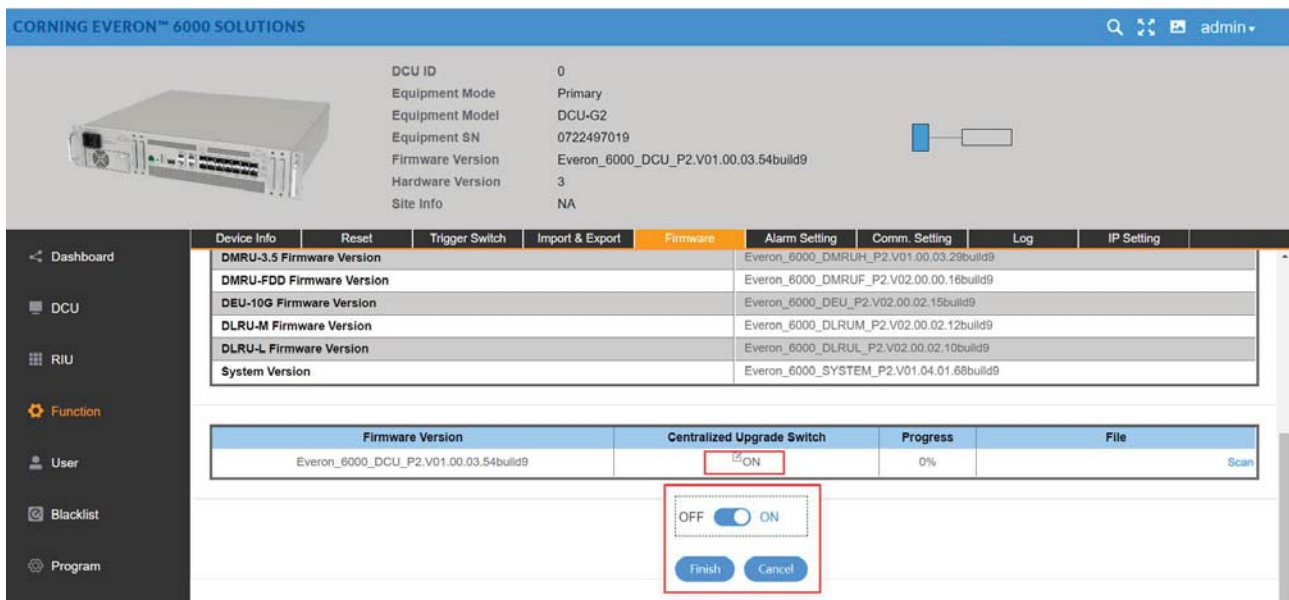


Figure 101. System Upgrade ON/OFF

5.2.3.6 Alarm Setting

Through Function → Alarm Setting, setting the alarm duration can be achieved. When it is set to 1~253, it shows alarm duration, with the unit of 10s. Setting to 254 indicates an immediate level alarm; Set to 0 and the alarm will not occur until 3 minutes later.

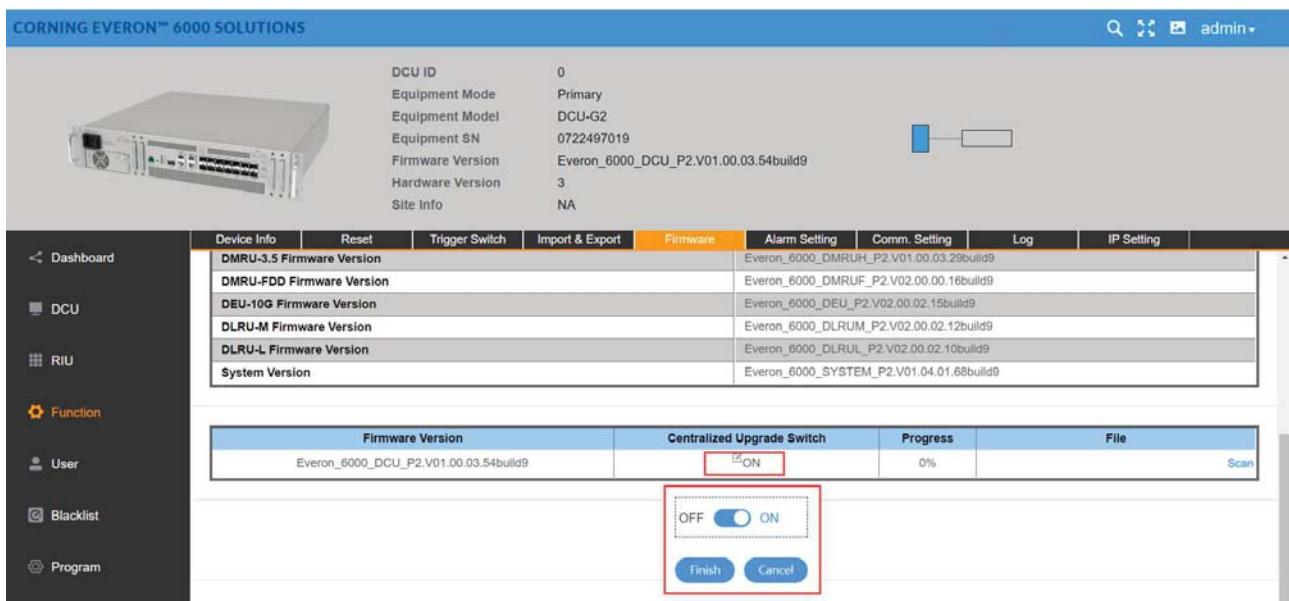


Figure 102. DCU → Function → Alarm Setting → Alarm Detect Duration

5.2.3.7 Comm.Setting

Click Function → Comm. Setting to set the network management communication types, as shown in the figure:

The screenshot shows the CORNING EVERON™ 6000 SOLUTIONS web interface. The top navigation bar includes links for Dashboard, DCU, RIU, Function (highlighted), User, Blacklist, and Program. The main content area displays device information and a table for SNMP settings.

Name	Value
SNMP IP Type	☒ IPv6
Trap IP	☒
Trap Port	☒ 162
Port Num	☒ 161
Read Community	☒ NA
Write Community	☒ NA

Figure 103. DCU → Function → Comm. Setting

5.2.3.8 Log

Click Function → Log to export the log of DCU for problem analysis, as shown in the figure:

The screenshot shows the CORNING EVERON™ 6000 SOLUTIONS web interface. The top navigation bar includes links for Dashboard, DCU, RIU, Function (highlighted), User, Blacklist, and Program. The main content area displays three export buttons: Export Log, Export Alarm Log, and Export Setting Log.

Figure 104. DCU → Function → Log

5.2.3.9 IP Setting

Click Function → IP Setting to set DCU IP for OMC communication, as shown in the figure:

The screenshot shows the CORNING EVERON™ 6000 SOLUTIONS web interface. The top navigation bar includes a search icon, a refresh icon, and a user profile icon labeled 'admin'. Below the navigation bar, there is a section for 'Device Info' with the following details:

- DCU ID: 0
- Equipment Mode: Primary
- Equipment Model: DCU-G2
- Equipment SN: 0722497019
- Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
- Hardware Version: 3
- Site Info: NA

The main content area has a sidebar on the left with the following menu items: Dashboard, DCU, RIU, Function (highlighted with a red box), User, Blacklist, and Program. The main content area has a top navigation bar with the following tabs: Device Info, Reset, Trigger Switch, Import & Export, Firmware, Alarm Setting, Comm. Setting, Log, and IP Setting (highlighted with a red box). The 'IP Setting' page is divided into two sections: IPv4 Setting and IPv6 Setting.

IPv4 Setting

Name	Value
IP Address	192.168.0.101
Default Gateway	192.168.0.1
Subnet Mask	255.255.255.0

IPv6 Setting

Name	Value
IPv6 Address	
IPv6 Subnet Prefix Length	0
IPv6 Default Gateway	

Figure 105. DCU→Function → IP Setting

5.3 DEU Config

SN	DEU Parameters		Ranges	Default Values
1	Temperature THR		0~125°C	80°C
2	Power Temperature THR		0~125°C	80°C
3	Optical Module Temperature THR		0~125°C	80°C
4	RU Temperature THR		0~125°C	80°C
5	Equipment mode		25G/10G	
6	Alarm Detect Duration		0-255S	0-10S
7	Switch		ON/OFF	ON
8	Technology		3G/4G/5G	3G
9	UL Center Freq. (MHz)		(2496-2690), (3450-3700), (3700-3980), (817-849), (663-698), (2305-2315), (698-798), (1850-1915), (1695-1780)	
10	DL Center Freq. (MHz)		(2496-2690), (3450-3700), (3700-3980), (862-894), (617-652), (2350-2360), (728-768), (1930-2020), (2110-2200)	
11	BW		N/A/5MHz/10MHz/15MHz/20MHz/30MHz/40MHz/50MHz/60MHz/70MHz/80MHz/90MHz/100MHz/150MHz/200MHz	
12	Operator		ATT/VZW/TMB/OTHER	
13	Power Sharing =OFF	UL ATT	-9~20 dB	0 dB
		DL ATT	0~20 dB	0 dB

	Power Sharing =ON	DL ATT	calculated by Power sharing	0 dB
14	UL Delay		0~4000000 us	0.0 us
15	DL Delay		0~4000000 us	0.0 us

5.3.1 DCU -> User Info

5.2.5.1 Password

Click User->Password to reset the DCU password which should include capital and lower-case letters and 12 digits in length.

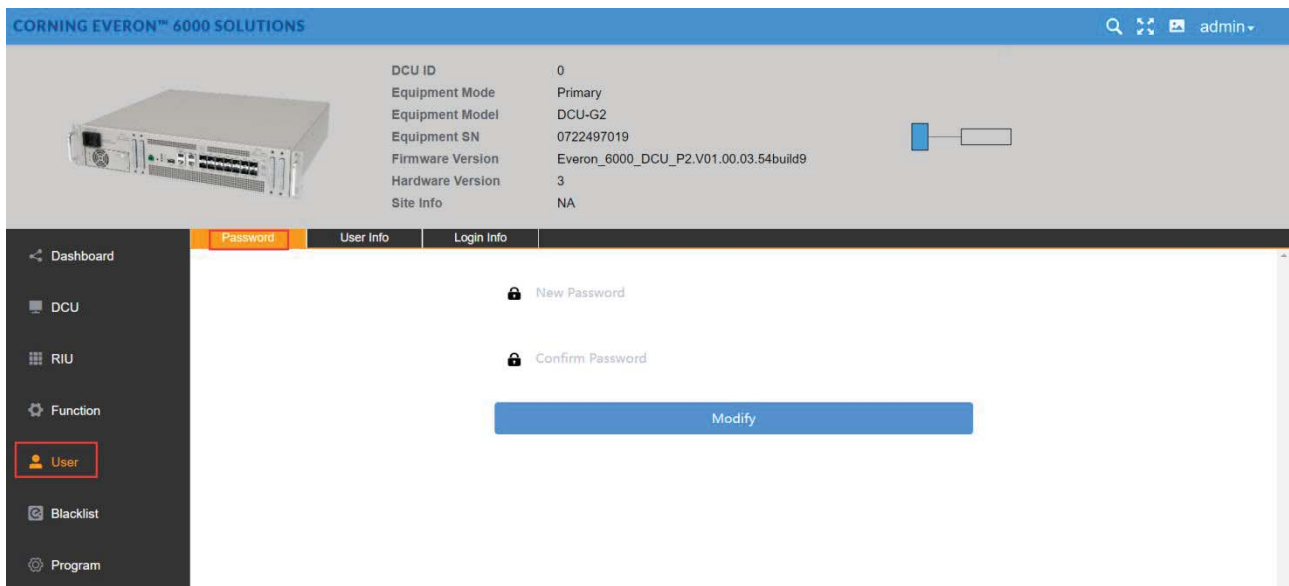


Figure 106. DCU→User→Password

The rules for setting passwords are as follows:

1. Default account and password at the first access: account/password= admin/admin
2. Need to change the password after the first access
3. Password restriction:
 - The minimum user password length is 12 characters.
 - At least three combinations of numbers, uppercase, lowercase and special symbols

It has been shown in the Web GUI if we enter into the password setup/modify page as follow



The minimum user password length is 12 characters.





At least three combinations of numbers, uppercase, lowercase and special symbols



Modify

5.2.5.2 User Info

Click User->User Info to add a user and set the role and password, as shown in the following figure.

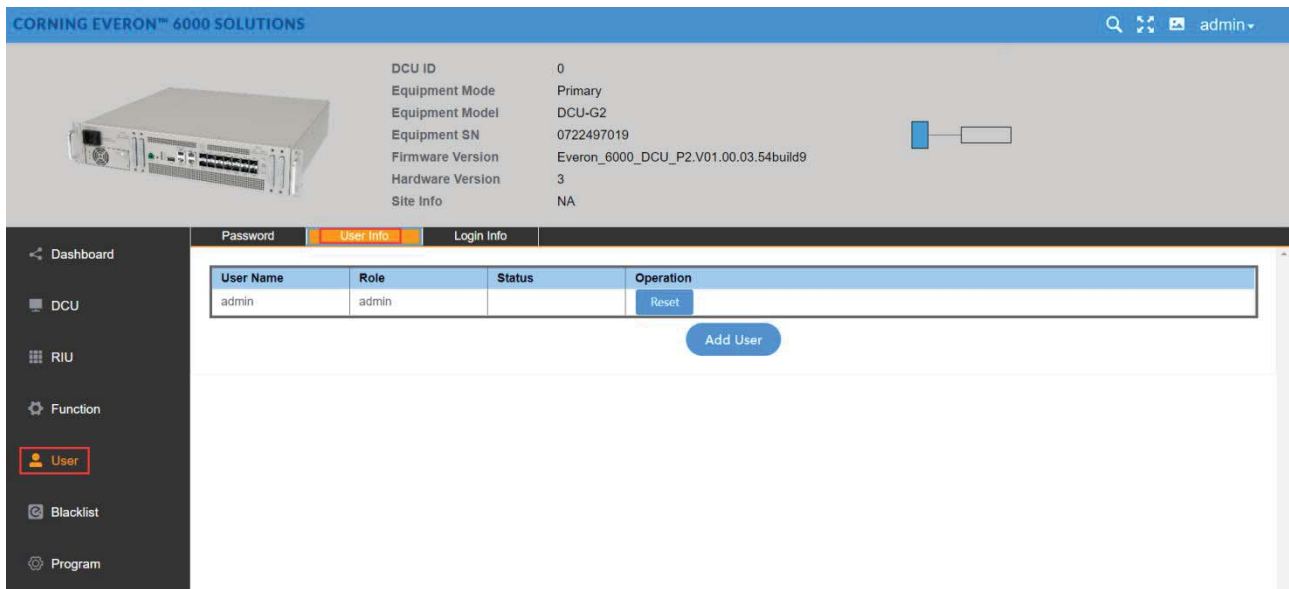


Figure 107. DCU→User→User Info

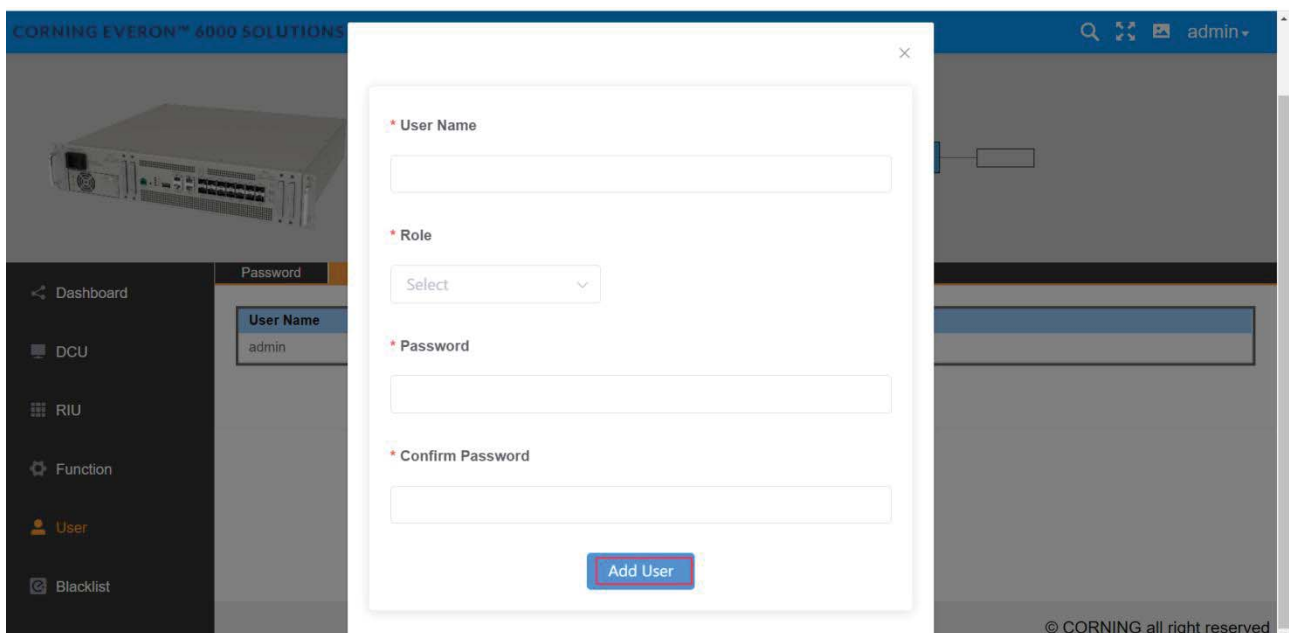


Figure 108. DCU→User→User Info→Add User

5.2.5.3 Login Info

As shown in the figure below, click User->Login Info to set the max value of password input attempts. This function indicates that when a user logs in, the system will be locked if the times of password input exceeds the maximum.

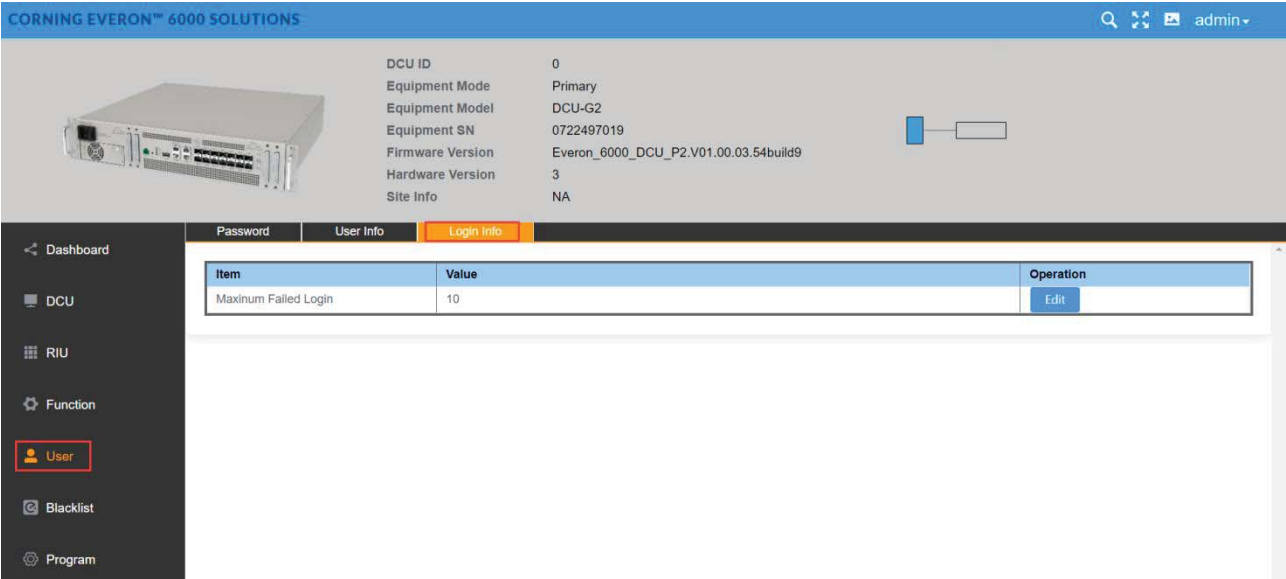
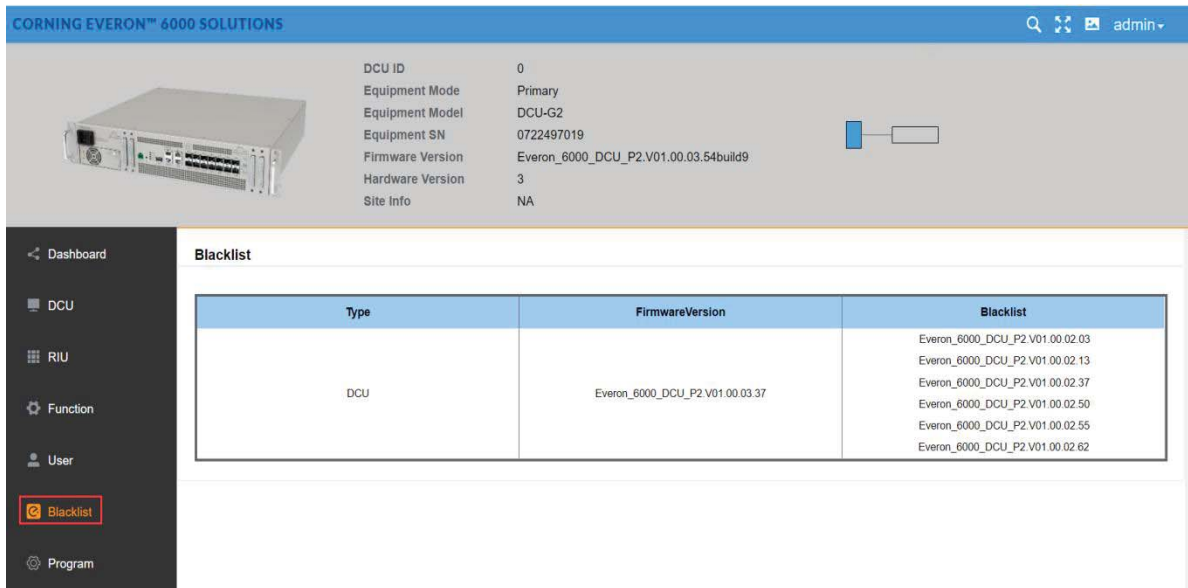


Figure 109. DCU→User→Login Info

5.2.5.4 Blacklist



CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Blacklist

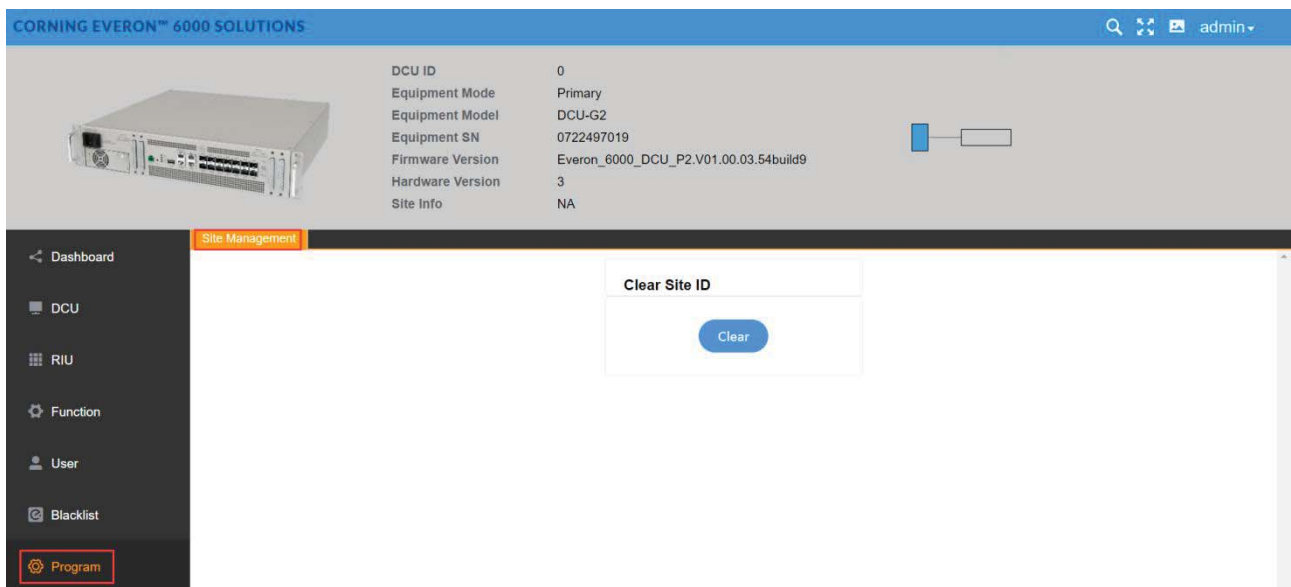
Type	FirmwareVersion	Blacklist
DCU	Everon_6000_DCU_P2.V01.00.03.37	Everon_6000_DCU_P2.V01.00.02.03 Everon_6000_DCU_P2.V01.00.02.13 Everon_6000_DCU_P2.V01.00.02.37 Everon_6000_DCU_P2.V01.00.02.50 Everon_6000_DCU_P2.V01.00.02.55 Everon_6000_DCU_P2.V01.00.02.62

Figure 110. Blacklist.

5.2.5.5 Program

The DCU ID is automatically obtained and cannot be set. The default value is 0. It is updated only when the internal DCU network is connected.

Click Program → Site Management to clear the site ID of the DCU.



CORNING EVERON™ 6000 SOLUTIONS

admin

DCU ID: 0
Equipment Mode: Primary
Equipment Model: DCU-G2
Equipment SN: 0722497019
Firmware Version: Everon_6000_DCU_P2.V01.00.03.54build9
Hardware Version: 3
Site Info: NA

Site Management

Clear Site ID

Clear

Figure 111. DCU → Program → Site Management

5.3.2 DEU -> Dashboard

Click the Dashboard navigation button to enter the dashboard page shown in the figure below, where you can query the full topology of all the dependent NE connected to the DEU unit. And the info query and configuration management page of other NE can be switched to after clicking NE ID in the topology.

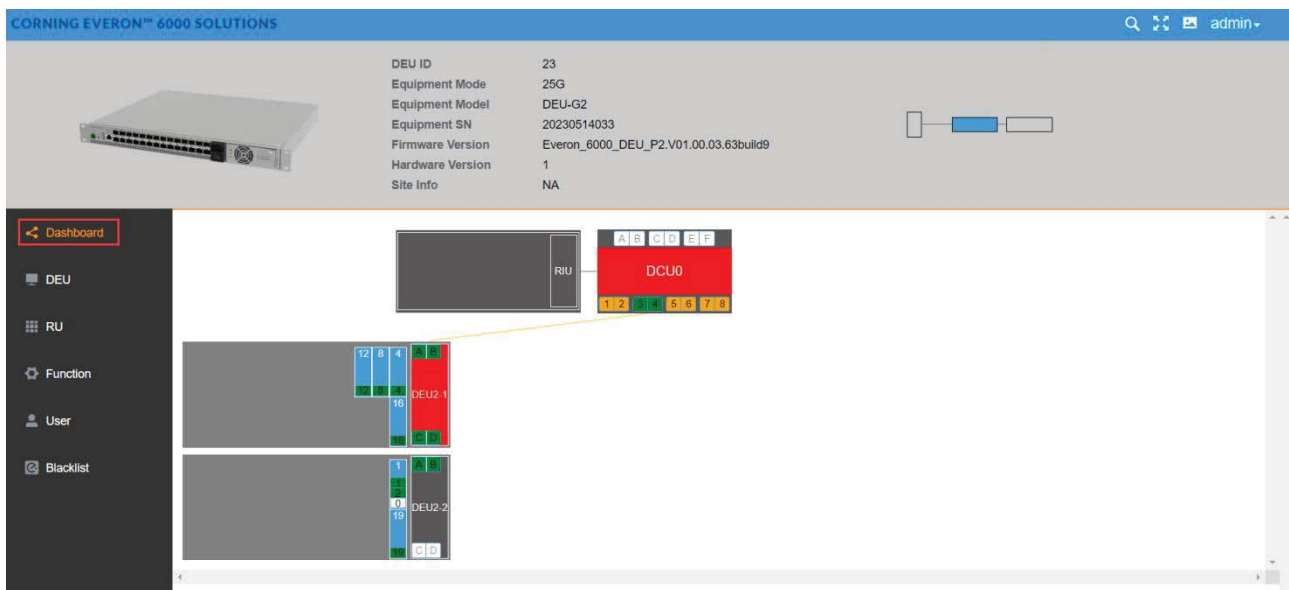


Figure 112. DEU25G → Dashboard

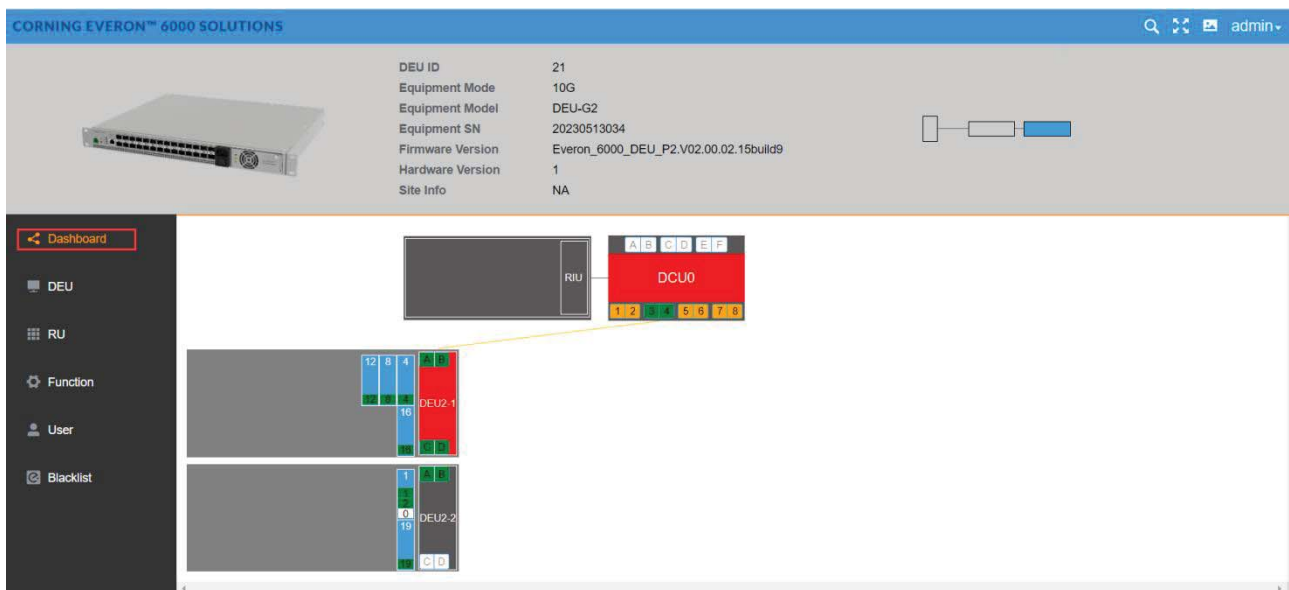
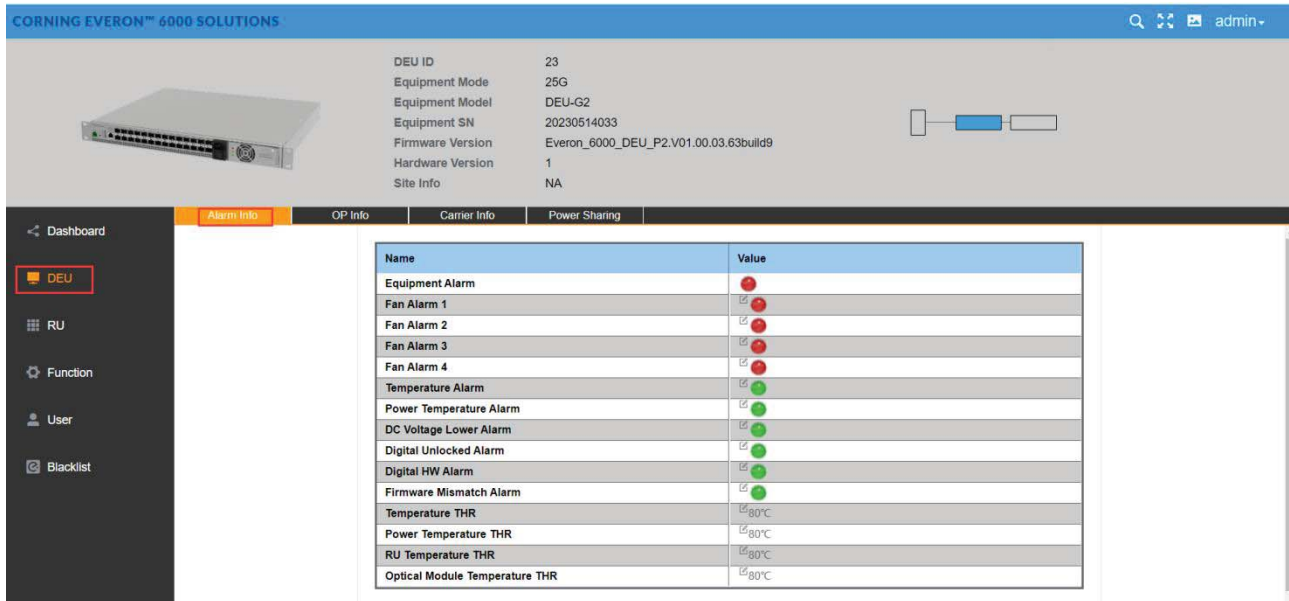


Figure 113. DEU10G→Dashboard

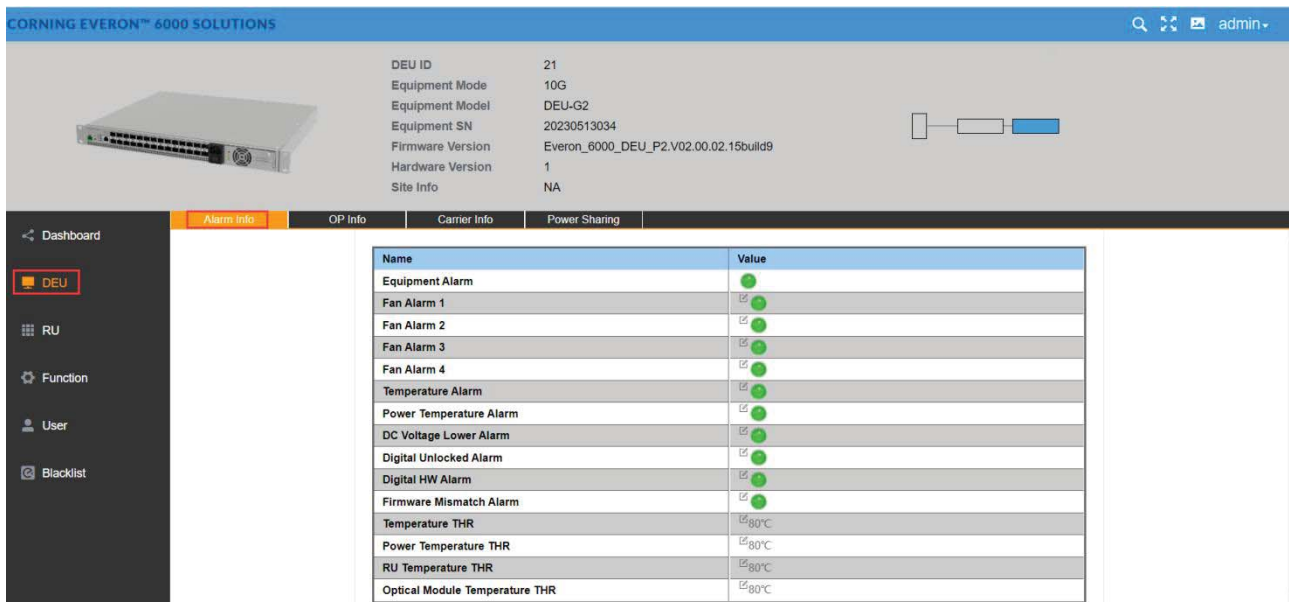
5.3.1.1 Alarm Info



DEU ID: 23
Equipment Mode: 25G
Equipment Model: DEU-G2
Equipment SN: 20230514033
Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
Hardware Version: 1
Site Info: NA

Name	Value
Equipment Alarm	Red circle icon
Fan Alarm 1	Red circle icon
Fan Alarm 2	Red circle icon
Fan Alarm 3	Red circle icon
Fan Alarm 4	Red circle icon
Temperature Alarm	Green circle icon
Power Temperature Alarm	Green circle icon
DC Voltage Lower Alarm	Green circle icon
Digital Unlocked Alarm	Green circle icon
Digital HW Alarm	Green circle icon
Firmware Mismatch Alarm	Green circle icon
Temperature THR	80°C
Power Temperature THR	80°C
RU Temperature THR	80°C
Optical Module Temperature THR	80°C

Figure 114. DEU25G → Alarm Info



DEU ID: 21
Equipment Mode: 10G
Equipment Model: DEU-G2
Equipment SN: 20230513034
Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
Hardware Version: 1
Site Info: NA

Name	Value
Equipment Alarm	Green circle icon
Fan Alarm 1	Green circle icon
Fan Alarm 2	Green circle icon
Fan Alarm 3	Green circle icon
Fan Alarm 4	Green circle icon
Temperature Alarm	Green circle icon
Power Temperature Alarm	Green circle icon
DC Voltage Lower Alarm	Green circle icon
Digital Unlocked Alarm	Green circle icon
Digital HW Alarm	Green circle icon
Firmware Mismatch Alarm	Green circle icon
Temperature THR	80°C
Power Temperature THR	80°C
RU Temperature THR	80°C
Optical Module Temperature THR	80°C

Figure 115. DEU 10 G → Alarm Info

Alarms can be set and viewed in this function which are defined as follows:

- 1) Equipment Alarm: Take effect if any alarm is valid.
- 2) Fan Alarm 1~4: Take effect if any fan (4 in total) in the module is abnormal.
- 3) Temperature Alarm: Take effect if the device temperature is higher than the device over temperature THR (80°C by default).
- 4) Power Temperature Alarm 1~2: Take effect if the temperature of any PSE is higher than the device over temperature THR (80°C by default).
- 5) DC Voltage Alarm: The alarm will occur if the input power < 37V
- 6) Digital Unlocked Alarm: Take effect if the device is unlocked.
- 7) Firmware Mismatch Alarm: The module version does not match the system version.

- 8) Temperature THR: Alarm will be generated if the device temperature exceeds this value.
- 9) Power Temperature THR: Alarm will be generated if the power module temperature exceeds this value.
- 10) RU Temperature THR: Alarm will be generated if RU temperature exceeds it.
- 11) Optical Module Temperature THR: Generate alarm if the optical module temperature this value.

➤ **To set alarm info parameters**

1. Click DCU—Alarm Info to enter the configuration page.
2. For alarms, click the edit button  and Disable and Enable button can be seen. Select Enable and the green icon will be displayed .
3. For Temperature THR, Power Temperature THR, Optical Module Temperature THR, System Delay THR, click  to enter the values within the range according to the form above.
4. Click Finish  to complete the configuration.

5.3.1.2 OP Info

5.3.1.2.1 CPRI Info

The range of optical module transmitting power (Tx PWR) is -3dBm~5dBm; The range of Rx PWR shall be greater than -10dBm. The maximum operating temperature must be lower than 80 ° C and the optical module must be correctly matched. Otherwise, an exception may occur. Alarms can be queried on this interface.

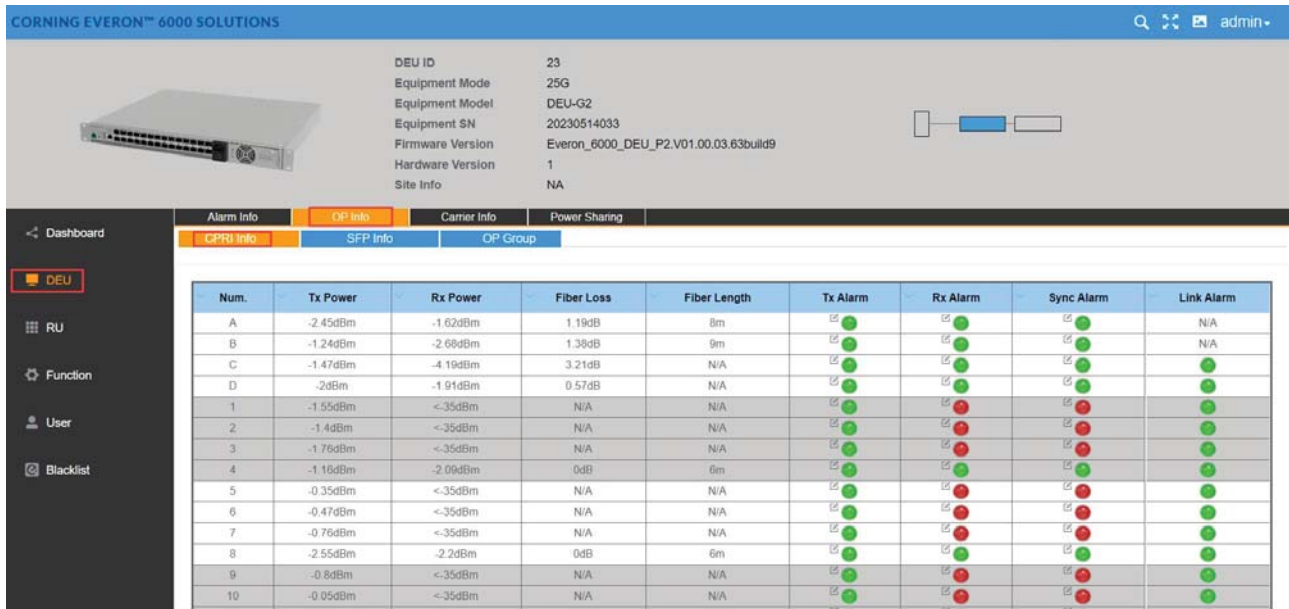


Figure 116.DEU 25 G→OP Info→CPRI Info

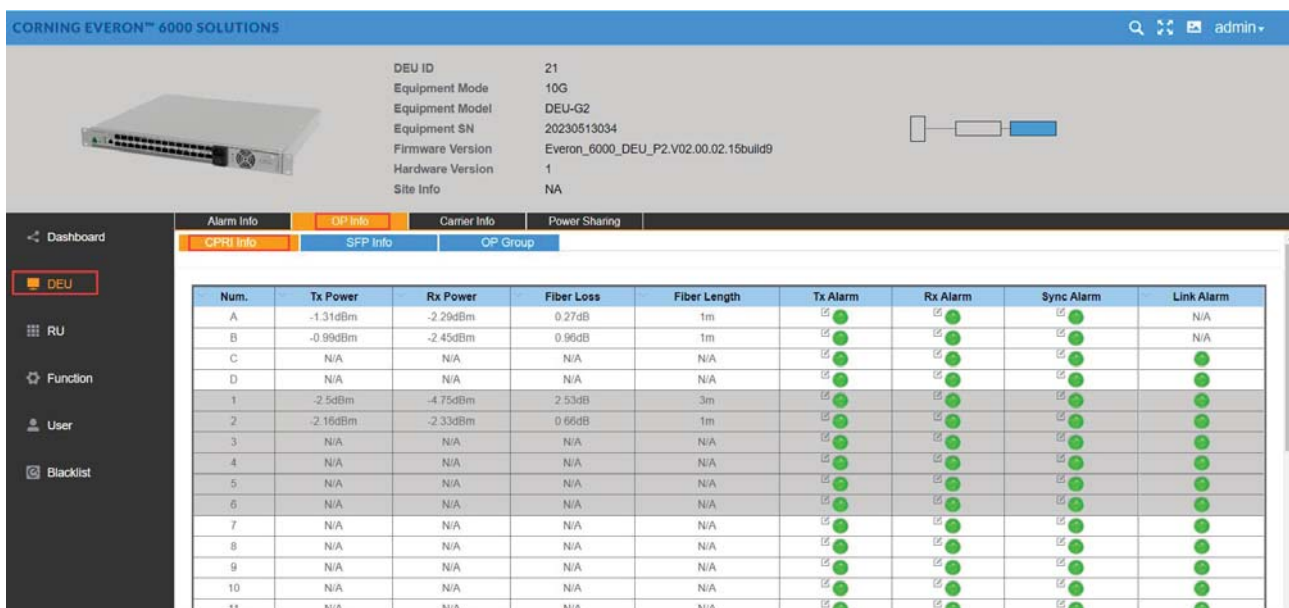


Figure 117.DEU 10 G→OP Info→CPRI Info

5.3.1.2.2 SFP Info

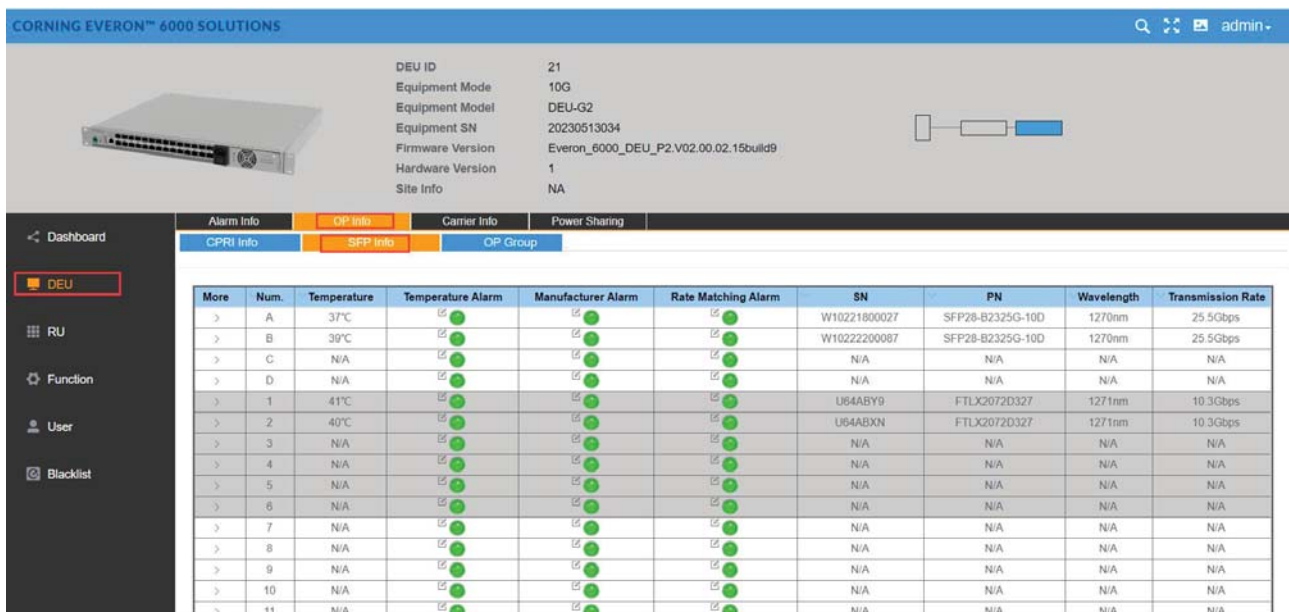


Figure 118. DEU 25 G→OP Info→SFP Info

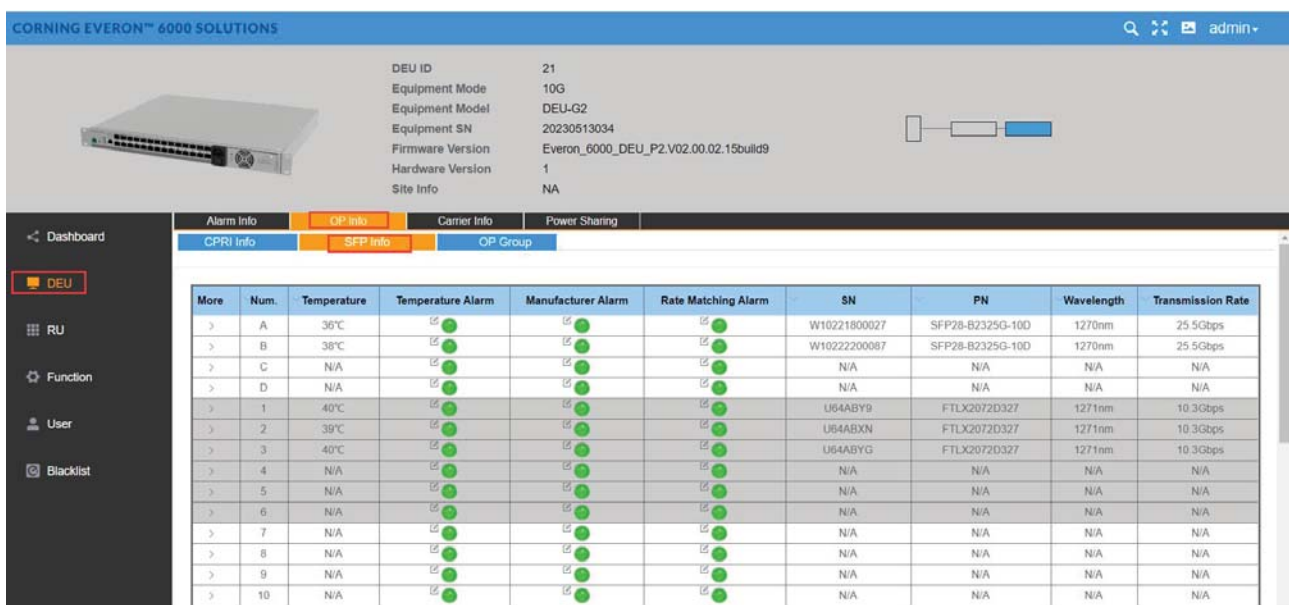


Figure 119. DEU 10 G→OP Info→SFP Info

Click ">" under the SFP Info→More to view the optical module info, as shown in the figure below:

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 23
Equipment Mode: 25G
Equipment Model: DEU-G2
Equipment SN: 20230514033
Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
Hardware Version: 1
Site Info: NA

Dashboard | DEU | RU | Function | User | Blacklist

Alarm Info | CPRI Info | **OP Info** | Camer Info | Power Sharing

CPRI Info | **SFP Info** | OP Group

More	Num.	Temperature	Temperature Alarm	Manufacturer Alarm	Rate Matching Alarm	SN	PN	Wavelength	Transmission Rate								
More	A	47°C	OK	OK	OK	W10222800077	SFP-25G-214-10K	1270nm	25.5Gbps								
<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Production Date</td> <td>220708</td> </tr> <tr> <td>Manufacturer</td> <td>FFF</td> </tr> <tr> <td>Revision</td> <td>2.1</td> </tr> </tbody> </table>										Name	Value	Production Date	220708	Manufacturer	FFF	Revision	2.1
Name	Value																
Production Date	220708																
Manufacturer	FFF																
Revision	2.1																
>	B	48°C	OK	OK	OK	W10222800065	SFP-25G-214-10K	1270nm	25.5Gbps								
>	C	50°C	OK	OK	OK	W11222800004	SFP-25G-215-10K	1330nm	25.5Gbps								
>	D	50°C	OK	OK	OK	W11222800033	SFP-25G-215-10K	1330nm	25.5Gbps								
>	1	51°C	OK	OK	OK	W11222100001	SFP28-B3225G-10D	1330nm	25.5Gbps								
>	2	51°C	OK	OK	OK	W11222800150	SFP-25G-215-10K	1330nm	25.5Gbps								
>	3	51°C	OK	OK	OK	W11222800132	SFP-25G-215-10K	1330nm	25.5Gbps								
>	4	52°C	OK	OK	OK	W11222200052	SFP28-B3225G-10D	1330nm	25.5Gbps								

Figure 120.DEU 25 G→OP Info→SFP Info→More

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 21
Equipment Mode: 10G
Equipment Model: DEU-G2
Equipment SN: 20230513034
Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
Hardware Version: 1
Site Info: NA

Dashboard | DEU | RU | Function | User | Blacklist

Alarm Info | CPRI Info | **OP Info** | Camer Info | Power Sharing

CPRI Info | **SFP Info** | OP Group

More	Num.	Temperature	Temperature Alarm	Manufacturer Alarm	Rate Matching Alarm	SN	PN	Wavelength	Transmission Rate								
More	A	37°C	OK	OK	OK	W10221800027	SFP28-B2325G-10D	1270nm	25.5Gbps								
<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Production Date</td> <td>220428</td> </tr> <tr> <td>Manufacturer</td> <td>FFF</td> </tr> <tr> <td>Revision</td> <td>4.0</td> </tr> </tbody> </table>										Name	Value	Production Date	220428	Manufacturer	FFF	Revision	4.0
Name	Value																
Production Date	220428																
Manufacturer	FFF																
Revision	4.0																
>	B	39°C	OK	OK	OK	W10222200087	SFP28-B2325G-10D	1270nm	25.5Gbps								
>	C	N/A	OK	OK	OK	N/A	N/A	N/A	N/A								
>	D	N/A	OK	OK	OK	N/A	N/A	N/A	N/A								
>	1	41°C	OK	OK	OK	U64ABY9	FTLX2072D327	1271nm	10.3Gbps								
>	2	40°C	OK	OK	OK	U64ABXN	FTLX2072D327	1271nm	10.3Gbps								
>	3	N/A	OK	OK	OK	N/A	N/A	N/A	N/A								
>	4	N/A	OK	OK	OK	N/A	N/A	N/A	N/A								
>	5	N/A	OK	OK	OK	N/A	N/A	N/A	N/A								

Figure 121.DEU 10 G→OP Info→SFP Info→More

5.3.1.2.3 OP Group

- For the port configuration of 10G DEU, we design the new GUI for the various SFP port config. It supports 3 configuration mode on each 6 SFP ports (Group). Click DEU→ OP Info →OP Group to configure SFP port as shown in the figure below.

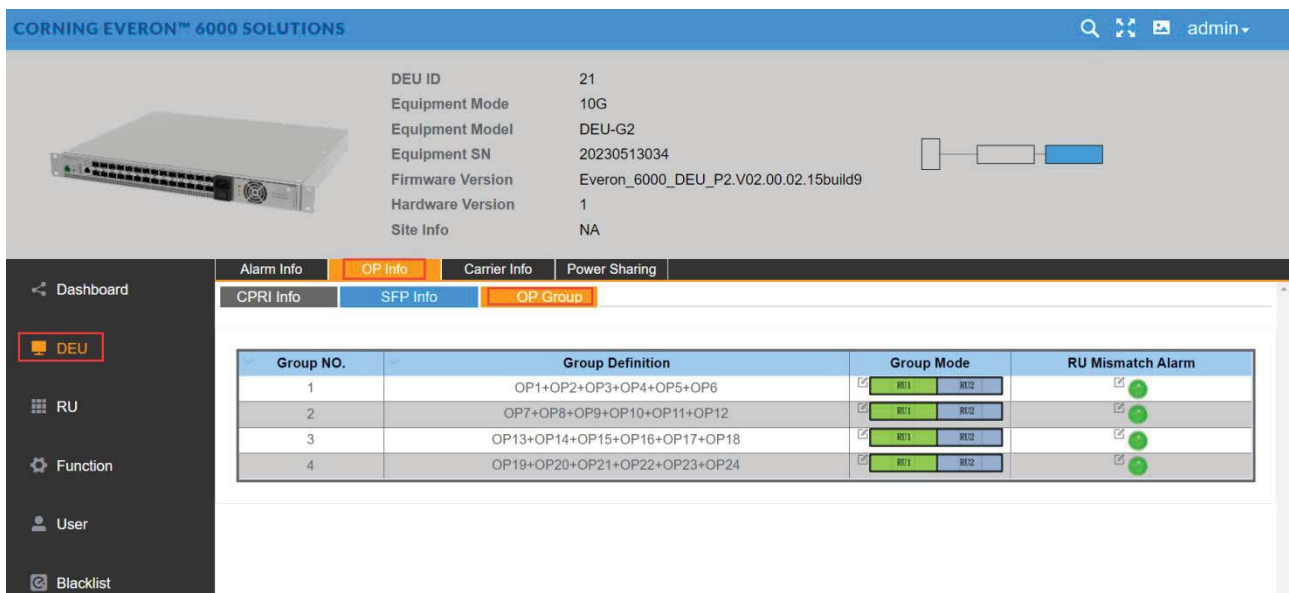


Figure 122.DEU 10G→ OP Info →OP Group

Click button in Group Mode. In the drop-down box, there are three models to choose from. Then click Save to complete the configuration. Default configuration is model 1

Model 1: Two SFP ports are mapped to one RU, and it is recommended to align the DEU and RU SFPs in the same order, otherwise an SFP alarm will occur.

Model 2: 1 SFP port is mapped to 1 RU.

Model 3: 3 SFP ports are mapped to 1 RU. It is recommended to align the DEU and RU SFP in the same order, otherwise an SFP alarm will occur.

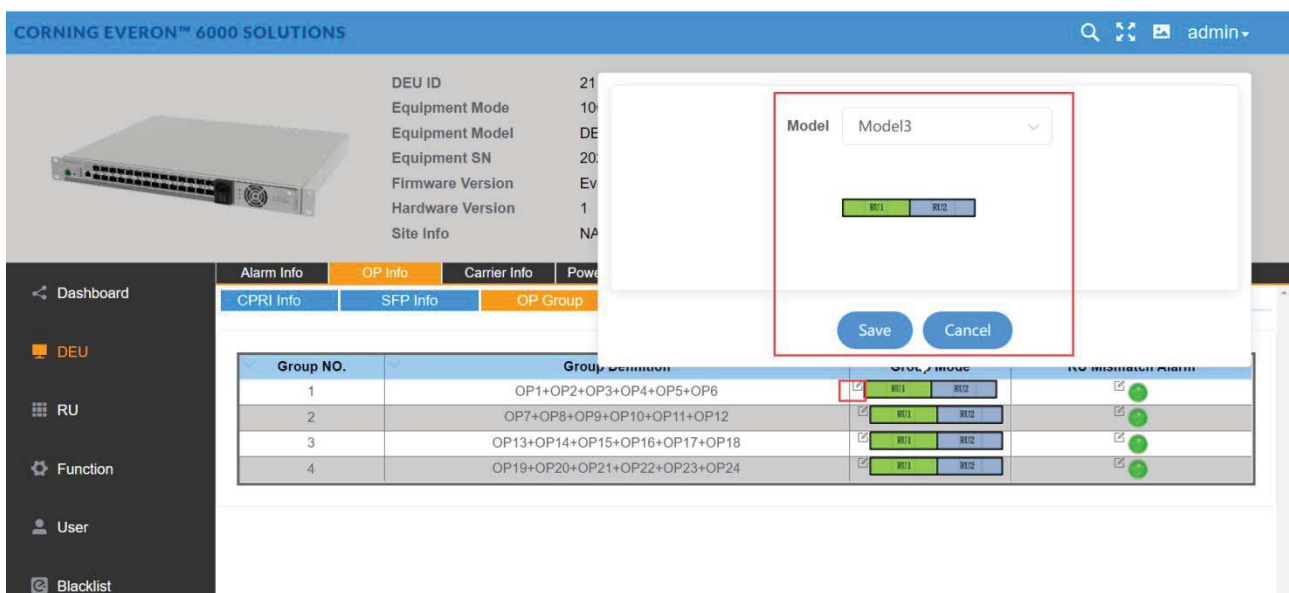


Figure 123.DEU 10 G →Group Mode

Click button in RU Mismatch Alarm. Select Enable/ Disable, then click Finish to complete the configuration.

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 21
Equipment Mode: 10G
Equipment Model: DEU-G2
Equipment SN: 20230513034
Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
Hardware Version: 1
Site Info: NA

Dashboard | DEU | RU | Function | User | Blacklist

Alarm Info | CPRI Info | SFP Info | OP Info | Power Sharing

OP Group

Group NO.	Group Definition	Group Mode	RU Mismatch Alarm
1	OP1+OP2+OP3+OP4+OP5+OP6	RU1 RU2	Enable
2	OP7+OP8+OP9+OP10+OP11+OP12	RU1 RU2	Enable
3	OP13+OP14+OP15+OP16+OP17+OP18	RU1 RU2	Enable
4	OP19+OP20+OP21+OP22+OP23+OP24	RU1 RU2	Enable

Disable ☒ Enable ☐
Finish Cancel

Figure 124.DEU 10 G →RU Mismatch Alarm

b. For the port configuration of 25G DEU, there are two models to choose from. The configuration steps are the same as that of 10G DEU OP group configuration.

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 23
Equipment Mode: 25G
Equipment Model: DEU-G2
Equipment SN: 20230514033
Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
Hardware Version: 1
Site Info: NA

Dashboard | DEU | RU | Function | User | Blacklist

Alarm Info | CPRI Info | SFP Info | OP Info | Power Sharing

OP Group

Group NO.	Group Definition	Group Mode	RU Mismatch Alarm
1	OP1+OP2+OP3+OP4	RU1 RU2 RU3 RU4	Enable
2	OP5+OP6+OP7+OP8	RU1 RU2 RU3 RU4	Enable
3	OP9+OP10+OP11+OP12	RU1 RU2 RU3 RU4	Enable
4	OP13+OP14+OP15+OP16	RU1 RU2 RU3 RU4	Enable
5	OP17+OP18+OP19+OP20	RU1 RU2 RU3 RU4	Enable
6	OP21+OP22+OP23+OP24	RU1 RU2 RU3 RU4	Enable

Figure 125.DEU 25G→ OP Info→OP Group

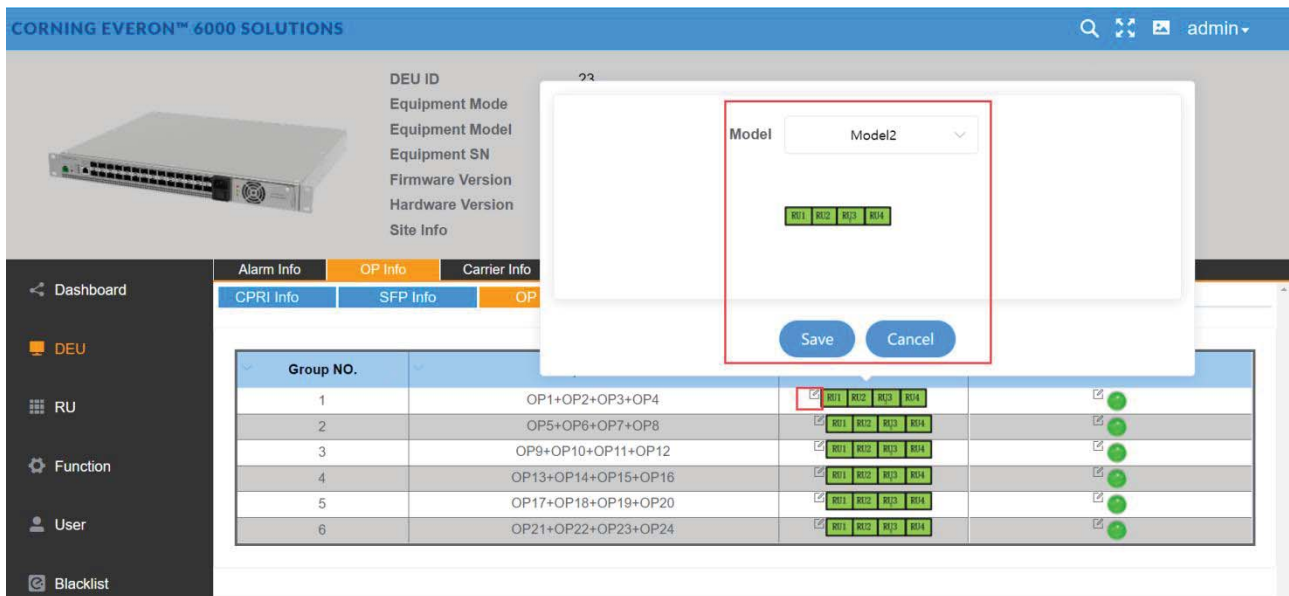


Figure 126.DEU 25G→ OP Group→Group Mode

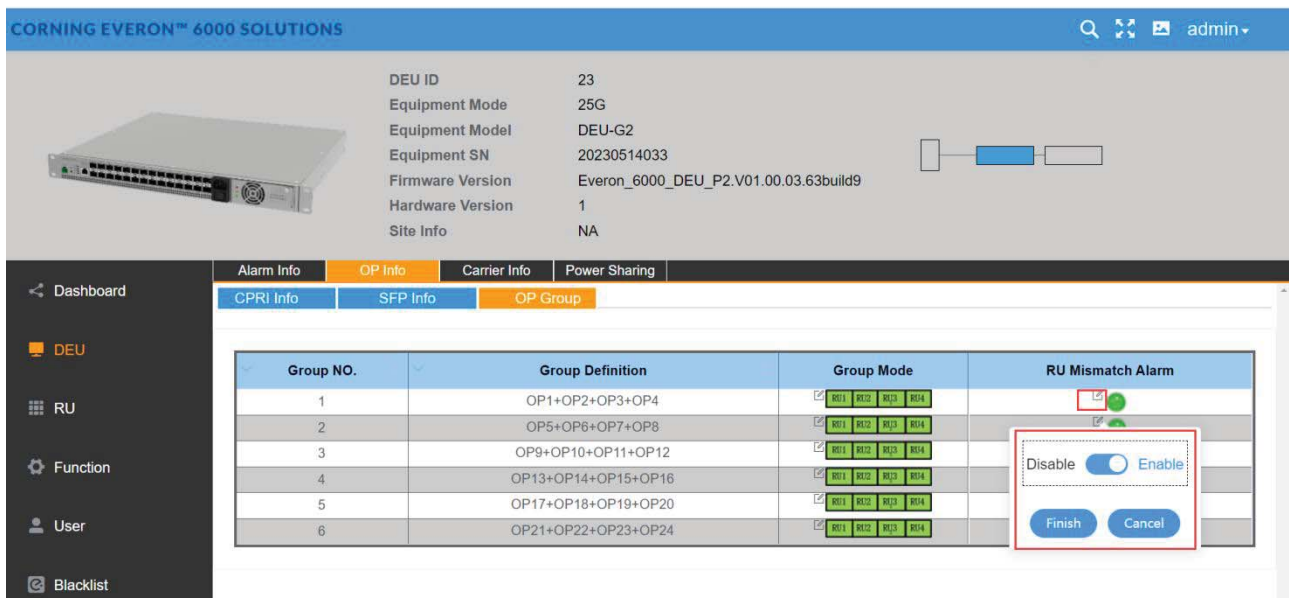


Figure 127.DEU 25G→OP Group→RU Mismatch Alarm

5.3.1.3

5.3.1.4 Carrier Info

- To configure carrier info
 1. Click DEU→Carrier Info→Add to set UL Center Freq. and DL Center Freq. to enter the following page.
 2. Click the icon  in each field and select one from the drop-down options, enter values within the range and select ON/OFF and Enable/Disable button.
 3. Click Finish to set.

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 23
Equipment Mode: 25G
Equipment Model: DEU-G2
Equipment SN: 20230514033
Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
Site Info: NA

Carrier Info

Export Import Delete All Add

More	NO.	Switch	Technology	UL Center Freq.	DL Center Freq.	BW	Operator	UL ATT	DL ATT	UL Delay	DL Delay	MIMO	UL PWR	DL PWR	Actions
>	1	ON	4G	2310MHz/36750	2355MHz/39200	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-69.53dBFS	-78.35dBFS	Delete
>	2	ON	4G	2310MHz/36750	2355MHz/39200	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-68.86dBFS	-78.77dBFS	Delete
>	3	ON	5G	2640MHz/528000	2640MHz/528000	80MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-60.92dBFS	-70.65dBFS	Delete
>	4	ON	5G	2640MHz/528000	2640MHz/528000	80MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-58.04dBFS	-65.51dBFS	Delete
>	5	ON	4G	832MHz/20480	877MHz/2480	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-76.73dBFS	Delete
>	6	ON	4G	832MHz/20480	877MHz/2480	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-77.01dBFS	Delete
>	7	ON	4G	733MHz/23050	733MHz/23050	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-77.01dBFS	Delete
>	8	ON	4G	733MHz/23050	733MHz/23050	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-76.22dBFS	Delete

Figure 128. DEU 25G→ Carrier Info

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 21
Equipment Mode: 10G
Equipment Model: DEU-G2
Equipment SN: 20230513034
Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
Site Info: NA

Carrier Info

Export Import Delete All Add

More	NO.	Switch	Technology	UL Center Freq.	DL Center Freq.	BW	Operator	UL ATT	DL ATT	UL Delay	DL Delay	MIMO	UL PWR	DL PWR	Actions
>	1	ON	4G	1707.5MHz/133097	2125MHz/150	20MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-72.98dBFS	Delete
>	2	ON	4G	1707.5MHz/133097	2125MHz/150	20MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-72.98dBFS	Delete
>	3	ON	4G	1707.5MHz/133097	2125MHz/150	20MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-77.98dBFS	Delete
>	4	ON	4G	1707.5MHz/133097	2125MHz/150	20MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-77.98dBFS	Delete
>	5	ON	4G	1875MHz/18550	1967.5MHz/575	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-75.35dBFS	Delete
>	6	ON	4G	1875MHz/18550	1967.5MHz/575	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-76.22dBFS	Delete
>	7	ON	4G	1907.5MHz/19175	2000MHz/68386	15MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-73.46dBFS	Delete
>	8	ON	4G	1907.5MHz/19175	2000MHz/68386	15MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-74.98dBFS	Delete
>	9	ON	5G	2640MHz/528000	2640MHz/528000	80MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-88.77dBFS	-69.91dBFS	Delete
>	10	ON	5G	2640MHz/528000	2640MHz/528000	80MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-88.77dBFS	-69.85dBFS	Delete
>	11	ON	4G	832MHz/20480	877MHz/2480	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-74.15dBFS	-76.22dBFS	Delete
>	12	ON	4G	832MHz/20480	877MHz/2480	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-74.15dBFS	-76.47dBFS	Delete
>	13	ON	4G	733MHz/23050	733MHz/23050	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO1	-74.79dBFS	-76.47dBFS	Delete
>	14	ON	4G	733MHz/23050	733MHz/23050	10MHz	ATT	0dB	0dB	0.0us	0.0us	MIMO2	-74.40dBFS	-75.99dBFS	Delete

Figure 129. DEU 10G→ Carrier Info

➤ To add carrier

1. Click Add button  and the following setting page appear.

2. Click the arrow  and select one from the listed options.

3. Enter the values of the field marked *.

4. Click Save  to finish the settings.

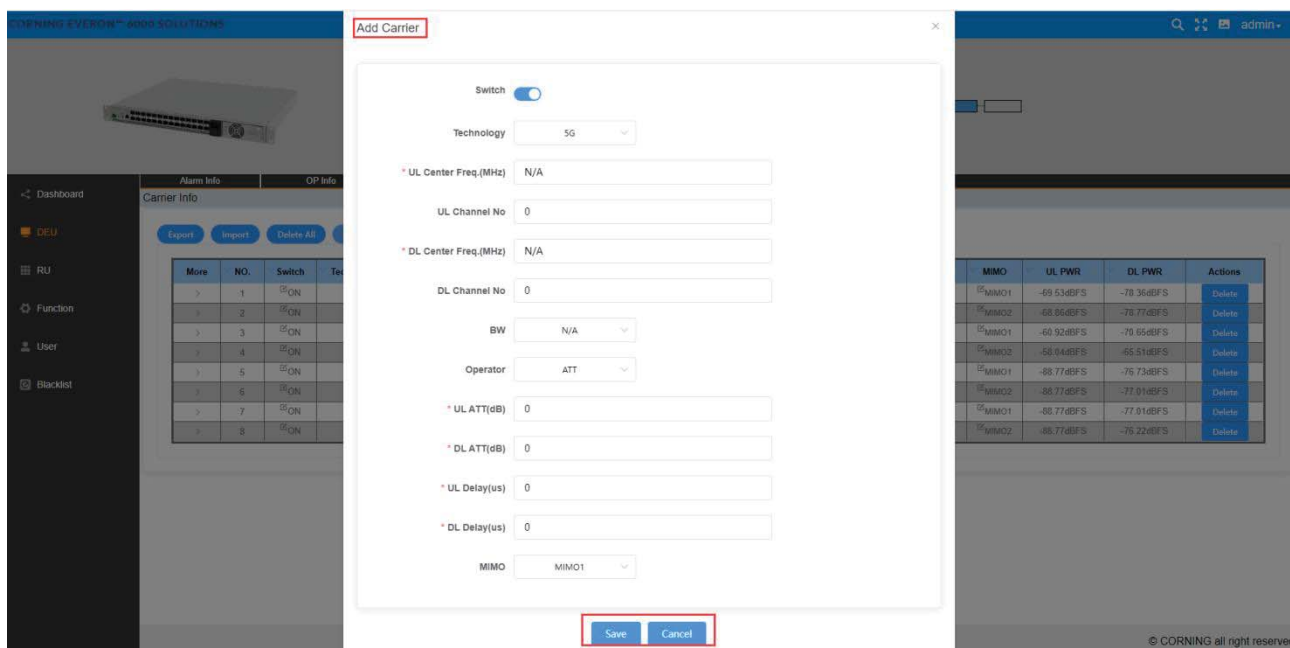


Figure 130.DEU 25G → Carrier Info→Add

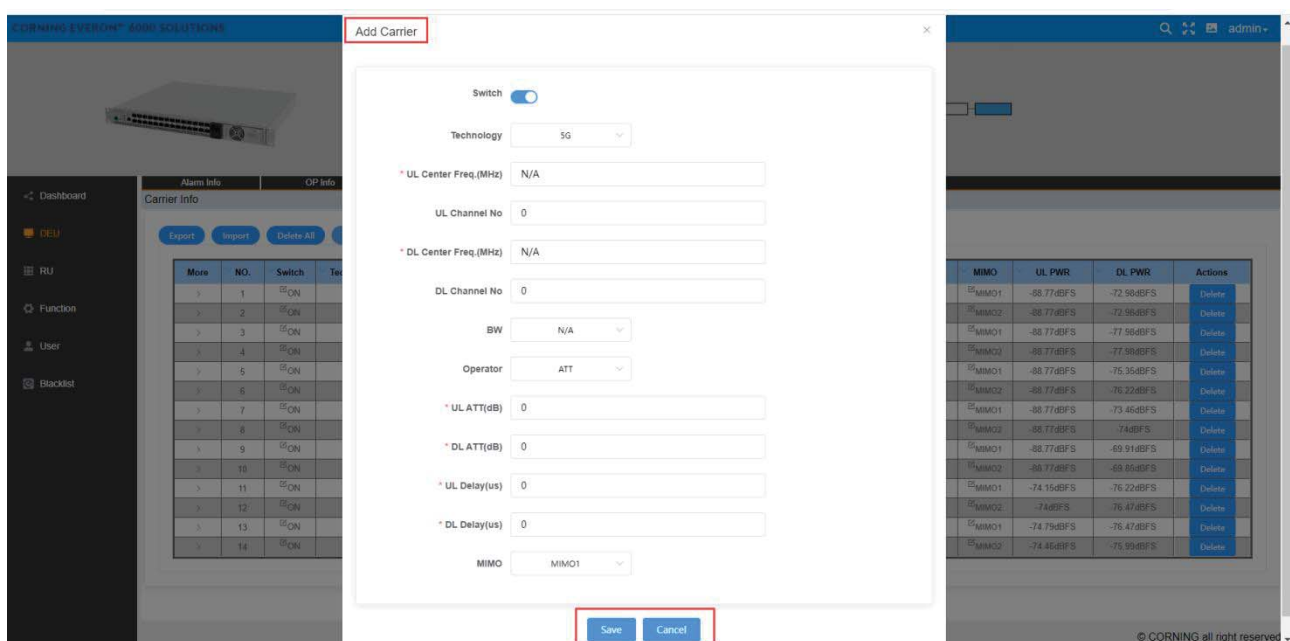


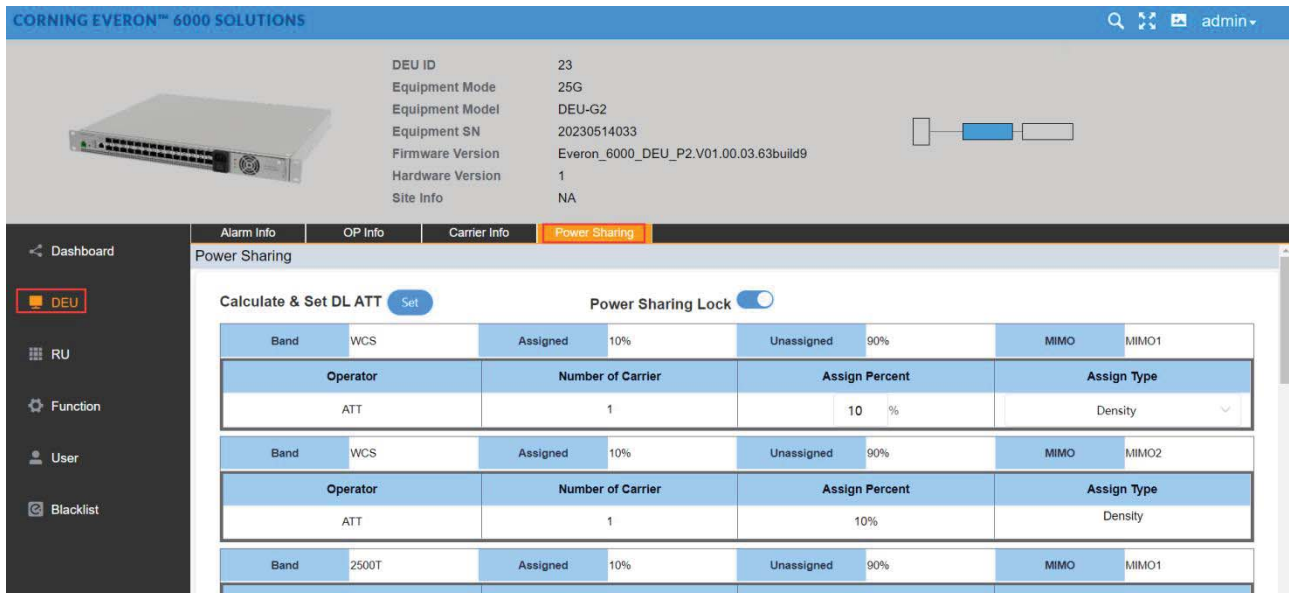
Figure 131.DEU 10 G → Carrier Info→Add

5.3.1.5 Power Sharing

SN	DEU Sharing Power Parameters	Ranges	Default Values
1	Power Sharing Lock	ON/OFF (Lock the DL ATT config on the carrier info)	OFF
2	Band	2500T/3500F/3500G	3500G
3	Assigned	10% ~ 100%	66%
4	Unassigned	0% ~ 90%	34%
5	Number of Carrier for each band/sub-band	0 ~ 4	N/A
7	Assign Percent	0%-100%	33%
8	Assign Type	Density/Even	Density

➤ To configure power sharing

1. Click and set the Setting button then the DL ATT can be configured. Calculate & Set DL ATT Setting
2. Select Powering Sharing Lock Power Sharing Lock ☒ and operation success will pop up. ✓ operation success
3. Enter the value of Assign Percent Assign Percent
4. Click the arrow in Assign type Assign Type Density 



The screenshot displays the 'Power Sharing' configuration page in the CORNING EVERON™ 6000 SOLUTIONS web interface. The top navigation bar includes 'Dashboard', 'DEU', 'RU', 'Function', 'User', and 'Blacklist'. The main content area shows the 'Power Sharing' tab selected, with a 'Calculate & Set DL ATT' button and a 'Power Sharing Lock' toggle set to 'ON'. Below this, there is a table for configuring power sharing parameters for different bands and operators.

Band	WCS	Assigned	10%	Unassigned	90%	MIMO	MIMO1
Operator							
ATT		1		10	%		Density
Band	WCS	Assigned	10%	Unassigned	90%	MIMO	MIMO2
Operator							
ATT		1		10%			Density
Band	2500T	Assigned	10%	Unassigned	90%	MIMO	MIMO1

Figure 132. DEU25G → Power Sharing

CORNING EVERON™ 6000 SOLUTIONS



DEU ID21

Equipment Mode10G

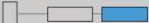
Equipment ModelDEU-G2

Equipment SN20230513034

Firmware VersionEveron_6000_DEU_P2.V02.00.02.15build9

Hardware Version1

Site InfoNA



Dashboard

DEU

RU

Function

User

Blacklist

Alarm Info

OP Info

Carrier Info

Power Sharing

Power Sharing

Calculate & Set DL ATTSet

Power Sharing Lock

Band	EAWS-A	Assigned	10%	Unassigned	90%	MIMO	MIMO1
Operator		Number of Carrier		Assign Percent		Assign Type	
ATT		2		10 %		Density	

Band	EAWS-A	Assigned	10%	Unassigned	90%	MIMO	MIMO2
Operator		Number of Carrier		Assign Percent		Assign Type	
ATT		2		10%		Density	

Band	1900B	Assigned	10%	Unassigned	90%	MIMO	MIMO1
Operator		Number of Carrier		Assign Percent		Assign Type	
ATT		2		10 %		Density	

Figure 133.DEU 10 G→ Power Sharing

5.3.3 DEU -> Function

5.3.2.1 Device Info

Click Function → Device Info to view the time, latitude, longitude, and other information of 10G/25G device. The site info is defined by the user, as shown in the figure below:

Name	Value
Temperature	67°C
Power Temperature	0°C
DC Voltage	54.3V
AC Input Voltage	0.0V
DC Power Consumption	111W
AC Power Consumption	0W
Equipment Mode	25G
Fan Speed	17600r/min
Date/Time	2023-05-24 10:35:49
Uptime	62:12:47:00:00
Site Info	NA
Longitude	E113.411788091131
Latitude	N23.1439927554101
Optical Cross Status	Green

Figure 134. DEU25G → Function → Device Info

Name	Value
Temperature	50°C
Power Temperature	0°C
DC Voltage	52.8V
AC Input Voltage	0.0V
DC Power Consumption	80W
AC Power Consumption	0W
Equipment Mode	10G
Fan Speed	8760r/min
Date/Time	2023-05-23 16:07:08
Uptime	109:12:48:07:00
Site Info	NA
Longitude	E113.411788091131
Latitude	N23.1439927554101
Optical Cross Status	Red

Figure 135. DEU 10 G → Function → Device Info

5.3.2.2 Reset

Click Function → Reset to clear the historical alarm, reset the software and hardware of the DEU, and reset the software and hardware of the RU connected to the DEU, as shown in the figure below:

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 23
 Equipment Mode: 25G
 Equipment Model: DEU-G2
 Equipment SN: 20230514033
 Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
 Hardware Version: 1
 Site Info: NA

Dashboard | DEU | RU | **Function** | User | Blacklist

Device Info | **Reset** | Trigger Switch | Firmware | Alarm Setting | Import & Export | Log

Item	Action
Restore Factory Settings	Reset
Clear History Alarm	Clear
DEU Software Reset	Reset
DEU Hardware Reset	Reset
RU4 Software Reset	Reset
RU4 Hardware Reset	Reset
RU8 Software Reset	Reset
RU8 Hardware Reset	Reset
RU12 Software Reset	Reset
RU12 Hardware Reset	Reset
RU16 Software Reset	Reset
RU16 Hardware Reset	Reset

Figure 136. DEU25G→FunctionàReset

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 21
 Equipment Mode: 10G
 Equipment Model: DEU-G2
 Equipment SN: 20230513034
 Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
 Hardware Version: 1
 Site Info: NA

Dashboard | DEU | RU | **Function** | User | Blacklist

Device Info | **Reset** | Trigger Switch | Firmware | Alarm Setting | Import & Export | Log

Item	Action
Restore Factory Settings	Reset
Clear History Alarm	Clear
DEU Software Reset	Reset
DEU Hardware Reset	Reset
RU1 Software Reset	Reset
RU1 Hardware Reset	Reset
RU19 Software Reset	Reset
RU19 Hardware Reset	Reset

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Figure 137. DEU 10 G→Function→Reset

5.3.2.3 Trigger Switch

Click DEU->Function->Trigger Switch as shown in the figure below.

The screenshot displays the web interface for the CORNING EVERON™ 6000 SOLUTIONS. The top navigation bar includes a search icon, a refresh icon, a user icon labeled 'admin', and a dropdown arrow. The main content area shows a device image on the left and a table of device information on the right. The 'Trigger Switch' tab is selected in the top navigation bar. Below the device information, a table lists items and their corresponding actions.

Item	Action
DEU Identify	Test
RU4 Identify	Test
RU8 Identify	Test
RU12 Identify	Test
RU16 Identify	Test

Figure 138. DEU 25G → Function → Trigger Switch

The screenshot displays the web interface for the CORNING EVERON™ 6000 SOLUTIONS. The top navigation bar includes a search icon, a refresh icon, a user icon labeled 'admin', and a dropdown arrow. The main content area shows a device image on the left and a table of device information on the right. The 'Trigger Switch' tab is selected in the top navigation bar. Below the device information, a table lists items and their corresponding actions.

Item	Action
DEU Identify	Test
RU1 Identify	Test
RU19 Identify	Test

Figure 139. DEU 10 G → Function → Trigger Switch

5.3.2.4 Firmware

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

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 23
Equipment Mode: 25G
Equipment Model: DEU-G2
Equipment SN: 20230514033
Firmware Version: Everon_6000_DEU_P2.V01.00.03.63build9
Hardware Version: 1
Site Info: NA

Device Info | Reset | Trigger Switch | **Firmware** | Alarm Setting | Import & Export | Log

DEU Firmware Info

More	Name	Firmware Version	Boot Version	FPGA Version	Firmware Version Date	Boot Date	FPGA Date
>	Active	Everon_6000_DEU_P2.V01.00.03.63build9	Everon_6000_DEU_P2.V01.00.00.06build9	Everon_6000_DEU_P2.V01.00.03.06build9	05/10/2023	08/24/2022	04/06/2023
>	InActive	Everon_6000_DEU_P2.V01.aa.03.63	Everon_6000_DEU_P2.V01.00.00.06	Everon_6000_DEU_P2.V01.00.03.06	05/10/2023	08/24/2022	04/06/2023

RU Firmware Info

Name	Value
RU 4 Version	Everon_6000_DLRLH_P2.V01.00.04.55build9
RU 8 Version	Everon_6000_DMRLH_P2.V01.00.03.79build9
RU 12 Version	Everon_6000_DMRLH_P2.V02.00.00.10build9
RU 16 Version	Everon_6000_DMRLH_P2.V02.00.00.10build9

Centralized Upgrade Switch: ON

Blacklist Switch: ON

Figure 140. DEU25G → Function → Firmware

CORNING EVERON™ 6000 SOLUTIONS

DEU ID: 21
Equipment Mode: 10G
Equipment Model: DEU-G2
Equipment SN: 20230513034
Firmware Version: Everon_6000_DEU_P2.V02.00.02.15build9
Hardware Version: 1
Site Info: NA

Device Info | Reset | Trigger Switch | **Firmware** | Alarm Setting | Import & Export | Log

DEU Firmware Info

More	Name	Firmware Version	Boot Version	FPGA Version	Firmware Version Date	Boot Date	FPGA Date
>	Active	Everon_6000_DEU_P2.V02.00.02.15build9	Everon_6000_DEU_P2.V01.00.00.06build9	Everon_6000_DEU_P2.V02.00.01.68build9	05/09/2023	08/24/2022	05/08/2023
>	InActive	Everon_6000_DEU_P2.V02.aa.02.15	Everon_6000_DEU_P2.V01.00.00.06	Everon_6000_DEU_P2.V02.00.01.68	05/09/2023	08/24/2022	05/08/2023

RU Firmware Info

Name	Value
RU 1 Version	Everon_6000_DLRLH_P2.V02.00.02.12build9
RU 15 Version	Everon_6000_DLRLH_P2.V02.00.02.10build9

Centralized Upgrade Switch: ON

Blacklist Switch: ON

Figure 141. DEU 10G → Function → Firmware

5.3.2.5 Alarm Setting

Click Function à Alarm Setting to set the DEU alarm detect duration, as shown in the figure below:

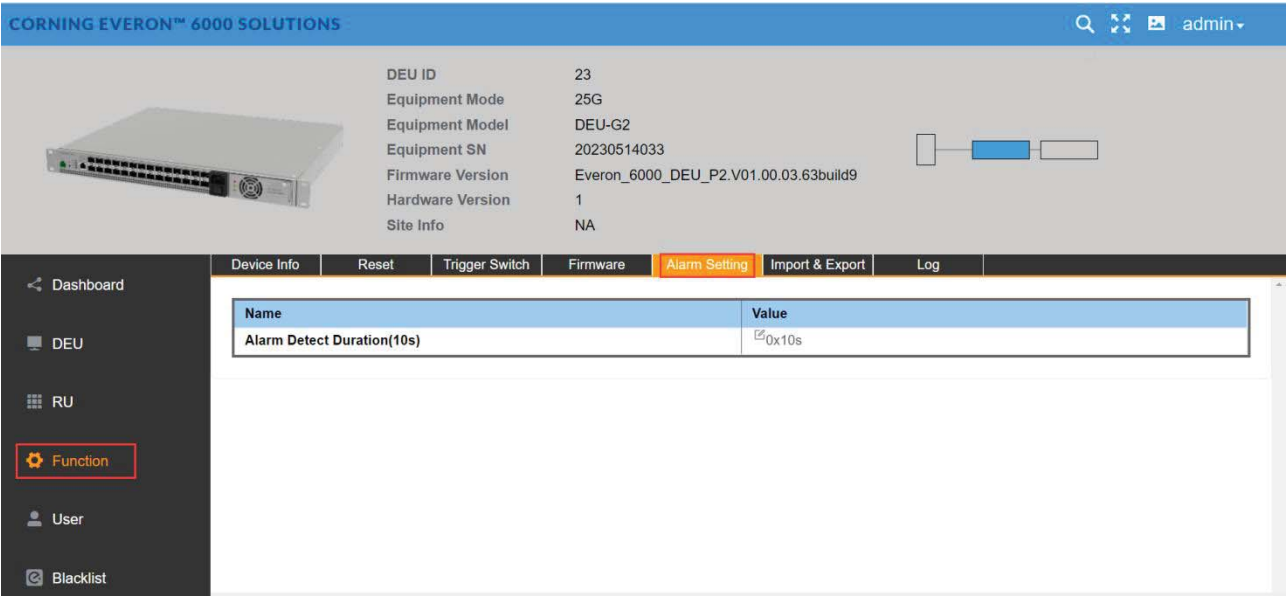


Figure 142. DEU25G →Function→Alarm Setting

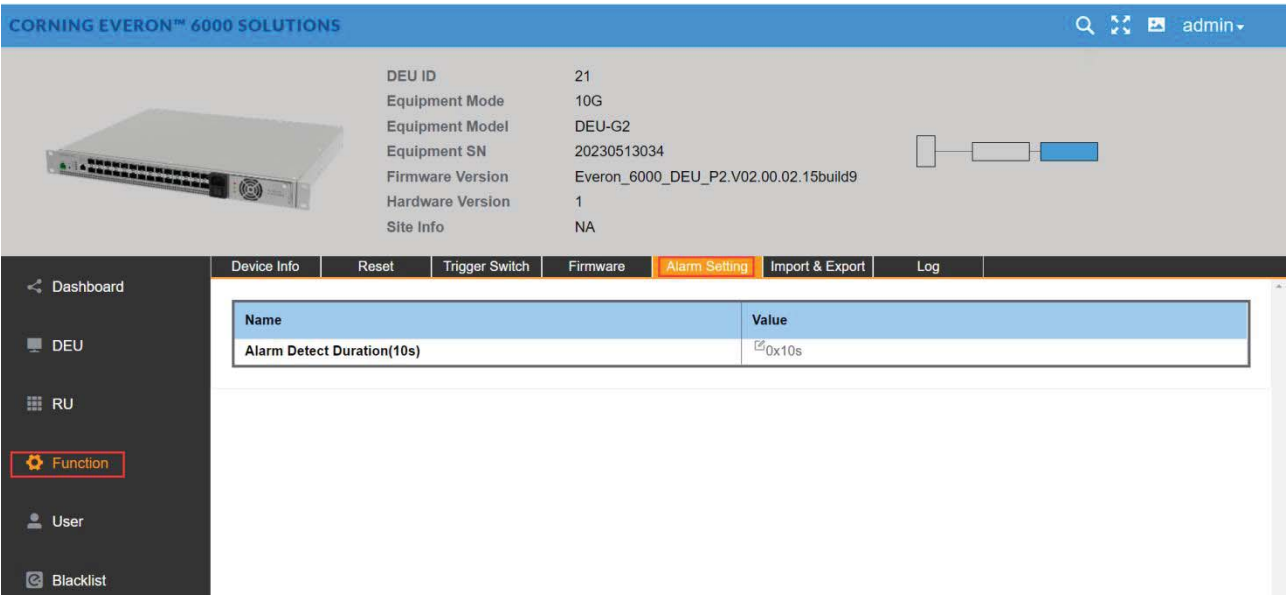


Figure 143. DEU10G→Function→Alarm Setting

5.3.2.6 Import & Export

Import and export the DEU configuration by clicking Function à Import & Export, as shown in the figure below:

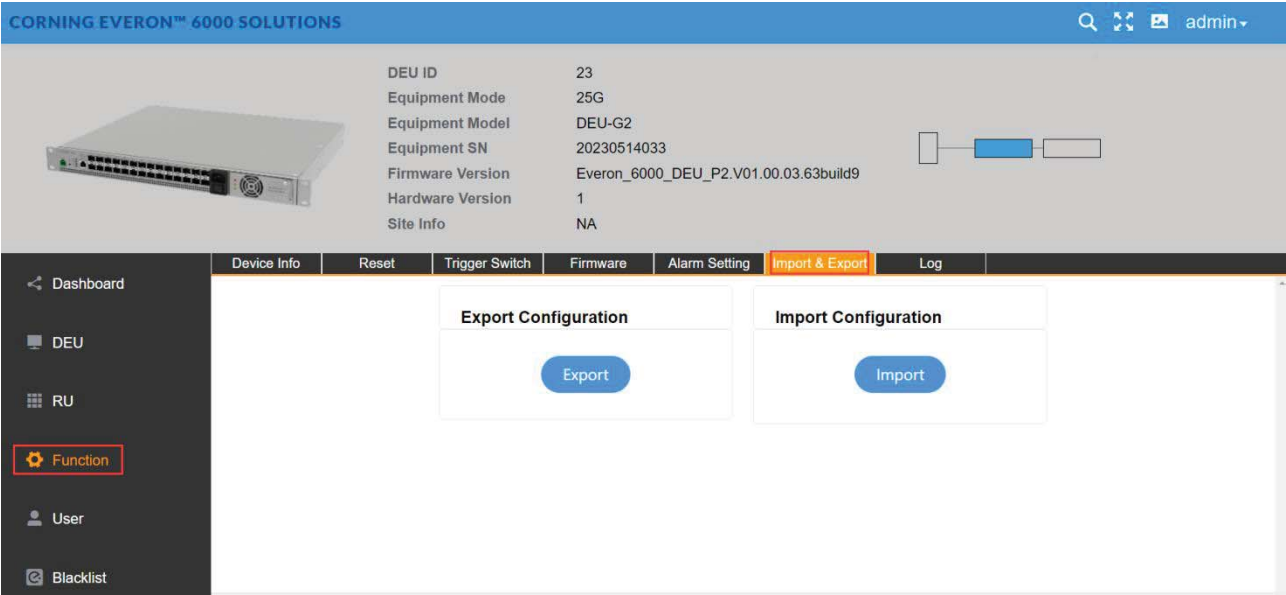


Figure 144. DEU25G →Function→Import & Export

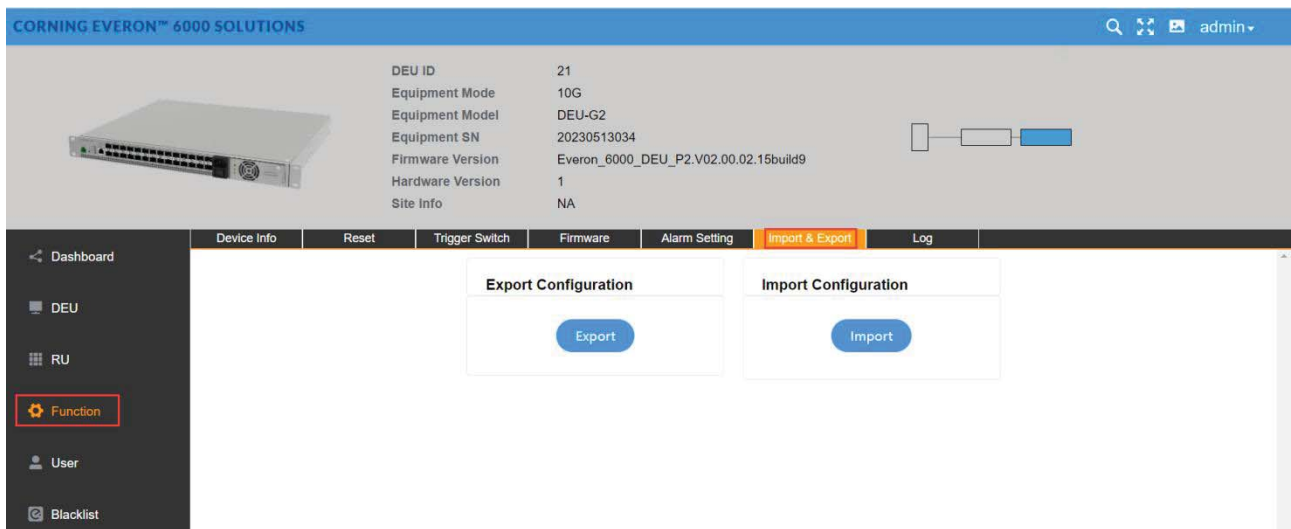


Figure 145.DEU 10 G→Function→Import & Export

5.3.2.7 Log

Click Function →Log to export the log of DEU for problem analysis, as shown in the figure

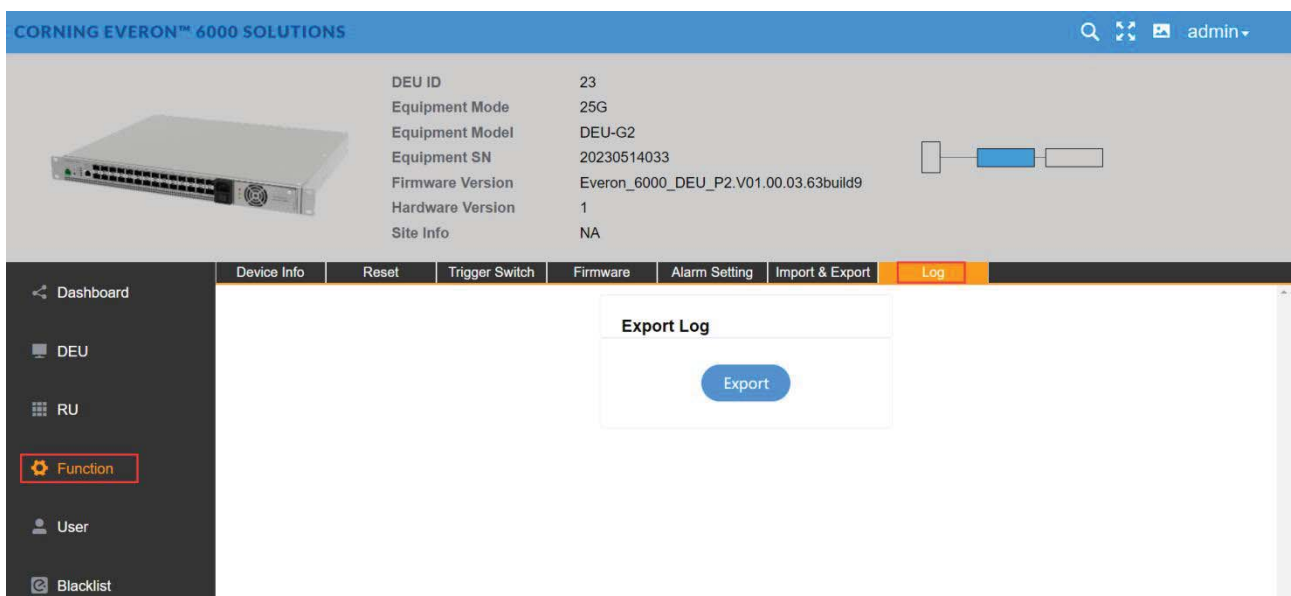


Figure 146. DEU 25G →Function→Log

CORNING EVERON™ 6000 SOLUTIONS

admin



DEU ID21
Equipment Mode10G
Equipment ModelDEU-G2
Equipment SN20230513034
Firmware VersionEveron_6000_DEU_P2.V02.00.02.15build9
Hardware Version1
Site InfoNA



Dashboard
DEU
RU
Function
User
Blacklist

Device Info
Reset
Trigger Switch
Firmware
Alarm Setting
Import & Export
Log

Name	Value
Temperature	49°C
Power Temperature	0°C
DC Voltage	52.8V
AC Input Voltage	0.0V
DC Power Consumption	80W
AC Power Consumption	0W
Equipment Mode	10G
Fan Speed	5200r/min
Date/Time	2023-05-23 16:02:18
Uptime	109:12:43:07:00
Site Info	NA
Longitude	E113.411788091131
Latitude	N23.1439927554101
Optical Cross Status	

Figure 147.DEU 10G→Function→Log

5.3.4 DEU -> User Info

5.3.4.1 Password

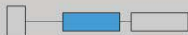
Click User->Password to reset DEU password, as shown in the figure below.

CORNING EVERON™ 6000 SOLUTIONS

admin



DEU ID23
Equipment Mode25G
Equipment ModelDEU-G2
Equipment SN20230514033
Firmware VersionEveron_6000_DEU_P2.V01.00.03.63build9
Hardware Version1
Site InfoNA



Dashboard
DEU
RU
Function
User
Blacklist

Password
User Info
Login Info

New Password
Confirm Password

Modify

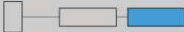
Figure 148. DEU25G→User→Password

CORNING EVERON™ 6000 SOLUTIONS

admin



DEU ID	21
Equipment Mode	10G
Equipment Model	DEU-G2
Equipment SN	20230513034
Firmware Version	Everon_6000_DEU_P2.V02.00.02.15build9
Hardware Version	1
Site Info	NA



Dashboard

DEU

RU

Function

User

Blacklist

Password

User Info

Login Info

New Password

Confirm Password

Modify

Figure 149. DEU 10 G→User→Password

5.3.4.2 User Info

Click User->User Info to add a user to set the role and password, as shown in the figure below.

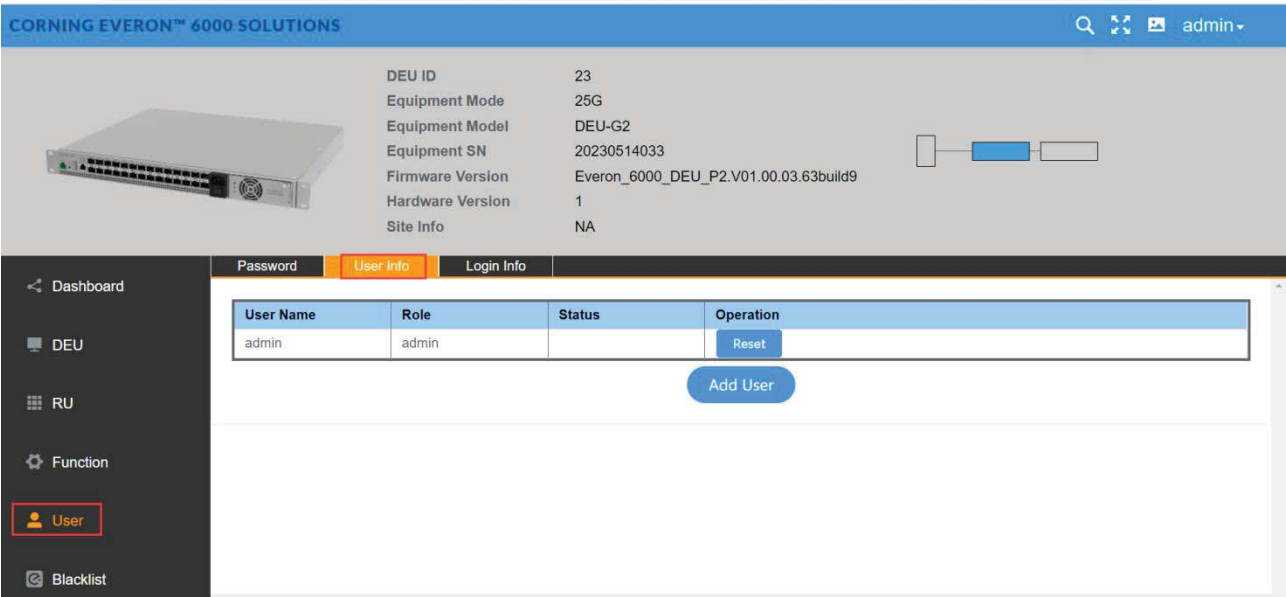


Figure 150. DEU25G →User→User Info

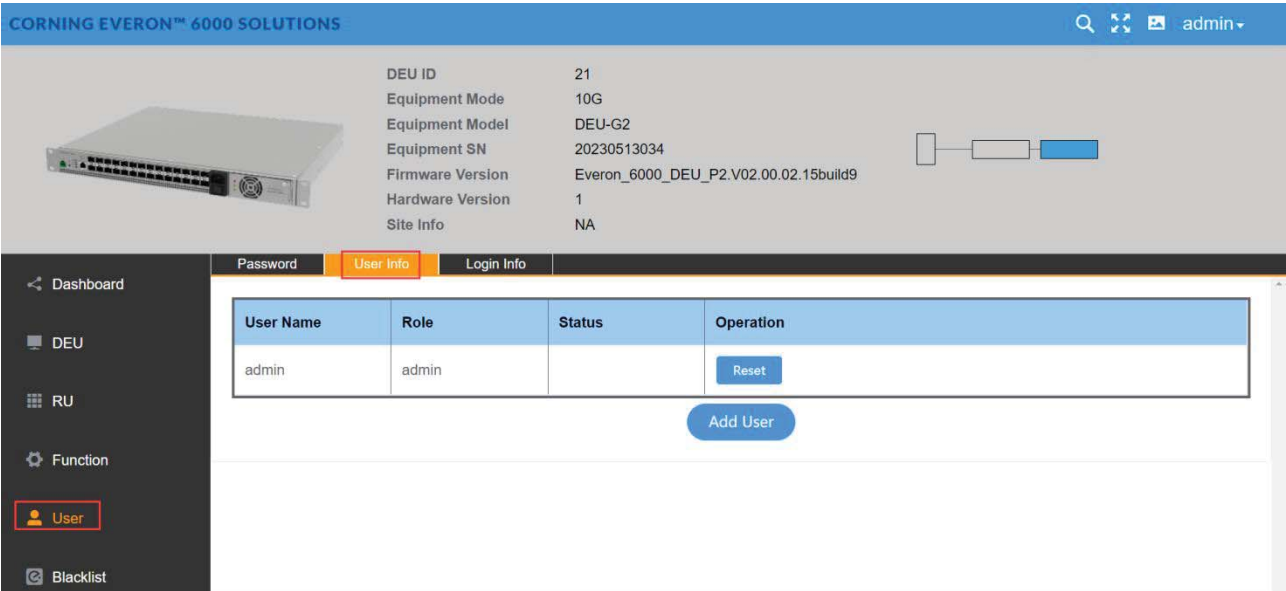


Figure 151. DEU 10G→User→User Info

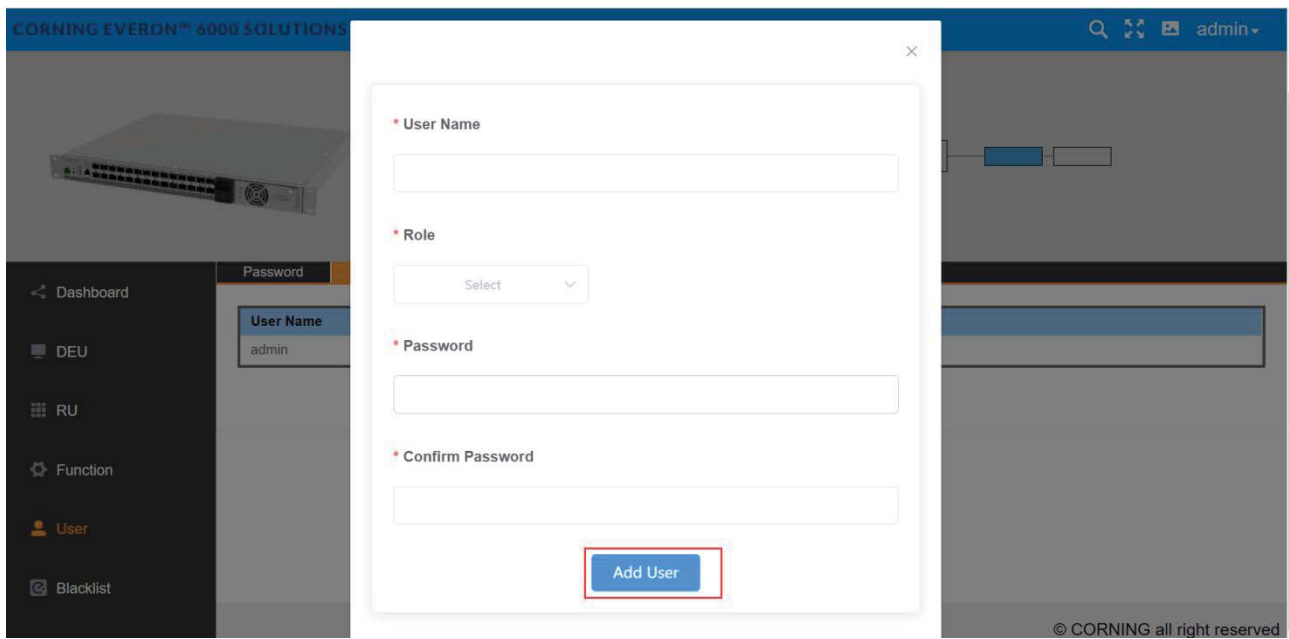


Figure 152.DEU10G/25G→User→User Info→Add User

5.3.4.3 Login Info

Click User->Login Info to set the max value of entering the password, as shown in the figure below.

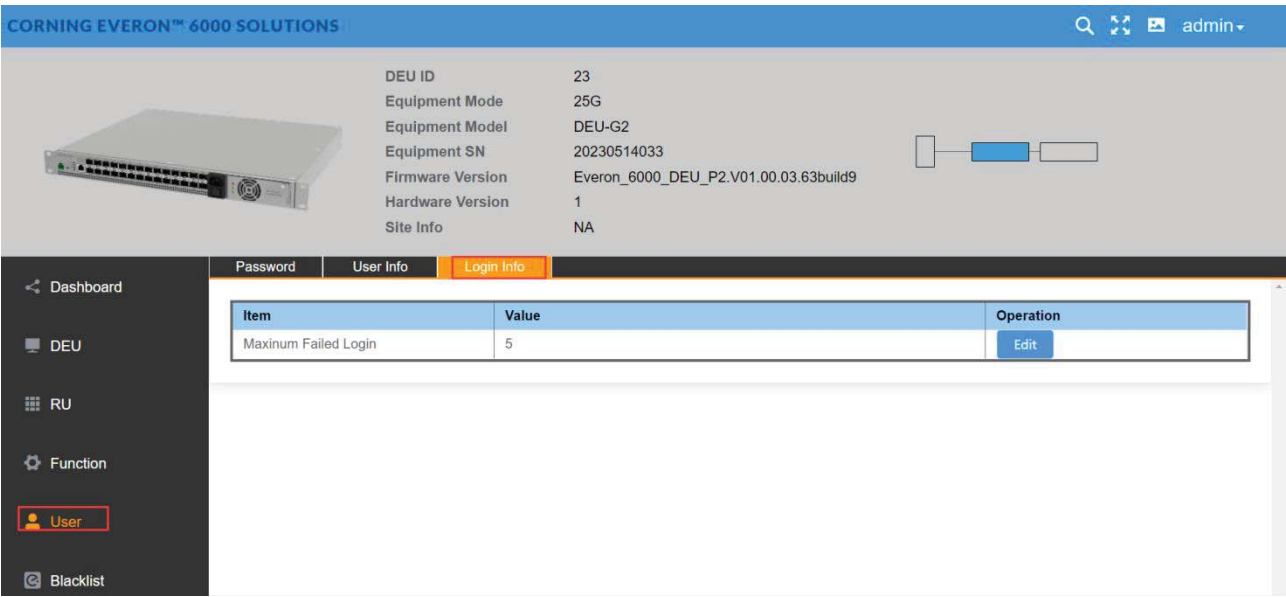


Figure 153. DEU25G→User→Login Info

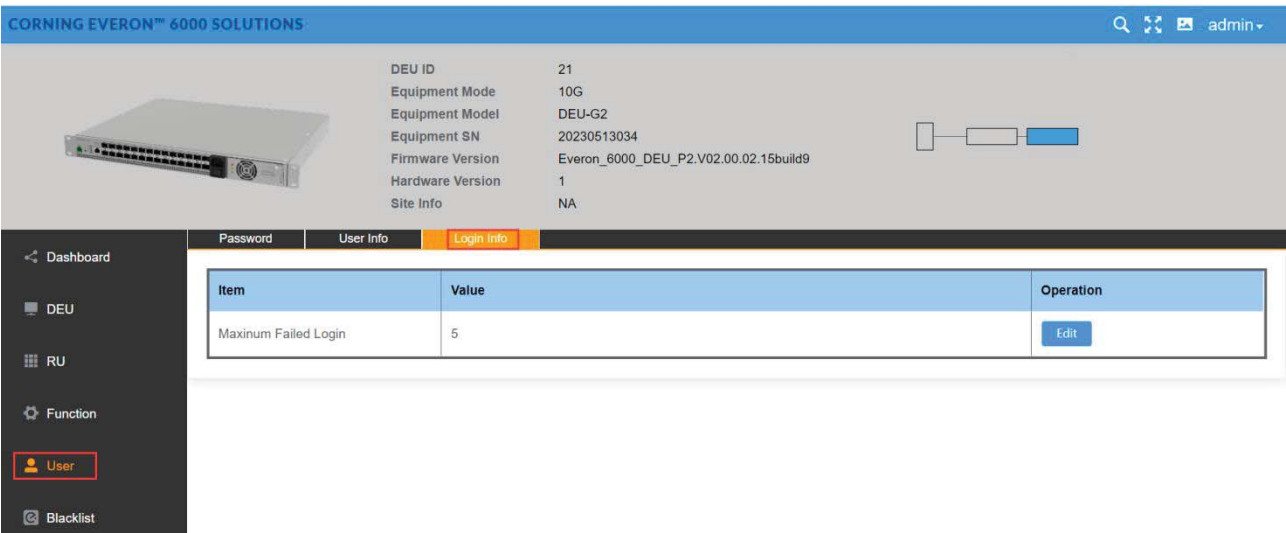


Figure 154. DEU 10 G→User→Login Info

5.3.4.4 Blacklist

CORNING EVERON™ 6000 SOLUTIONS



DEU ID

Equipment Mode

Equipment Model

Equipment SN

Firmware Version

Hardware Version

Site Info

23

25G

DEU-G2

20230514033

Everon_6000_DEU_P2.V01.00.03.63build9

1

NA

admin

Dashboard

DEU

RU

Function

User

Blacklist

Blacklist

Type	FirmwareVersion	Blacklist
DEU	Everon_6000_DEU_P2_V01.00.03.56	Everon_6000_DEU_P2_V01.00.02.01 Everon_6000_DEU_P2_V01.00.02.05 Everon_6000_DEU_P2_V01.00.02.40 Everon_6000_DEU_P2_V01.00.02.53 Everon_6000_DEU_P2_V01.00.02.59
DLRU-3.5	Everon_6000_DLRUH_P2_V01.00.03.01	Everon_6000_DLRUH_P2_V01.00.02.07 Everon_6000_DLRUH_P2_V01.00.02.10 Everon_6000_DLRUH_P2_V01.00.03.17 Everon_6000_DLRUH_P2_V01.00.03.29 Everon_6000_DLRUH_P2_V01.00.03.41
DLRU-3.5	Everon_6000_DLRUM_P2_G2_V01.00.03.01	Everon_6000_DLRUM_P2_G2_V01.00.01.18 Everon_6000_DLRUM_P2_G2_V01.00.02.05 Everon_6000_DLRUM_P2_G2_V01.00.02.09 Everon_6000_DLRUM_P2_G2_V01.00.02.11
DLRU-FDD	DLRUF2_V01.00.03.01	DLRUF2_V01.00.01.01 DLRUF2_V01.00.02.01

Figure 155.DEU 25G→Blacklist

CORNING EVERON™ 6000 SOLUTIONS



DEU ID

Equipment Mode

Equipment Model

Equipment SN

Firmware Version

Hardware Version

Site Info

21

10G

DEU-G2

20230513034

Everon_6000_DEU_P2.V02.00.02.15build9

1

NA

admin

Dashboard

DEU

RU

Function

User

Blacklist

Blacklist

Type	FirmwareVersion	Blacklist
DLRU-L	Everon_6000_DLRUL_P2_V02.00.02.02	DRAUL_AV01_*
DLRU-M	Everon_6000_DLRUM_P2_V02.00.02.04	DRAUM_AV01_*

Figure 156. DEU 10 G→Blacklist

5.4 dMRU Config

This introduction is using for dMRU-G2-678/dMRU-G2-1719/dMRU-G2-2325/dMRU-G2-25/dMRU-G2-35 configuration.

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).

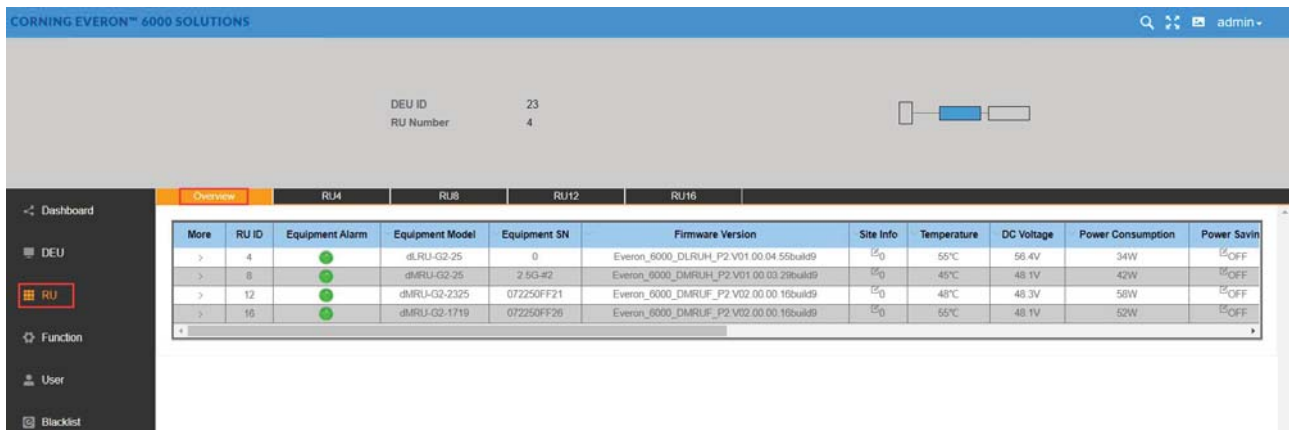


Figure 157. DEU→RU→Overview

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 the figure below.

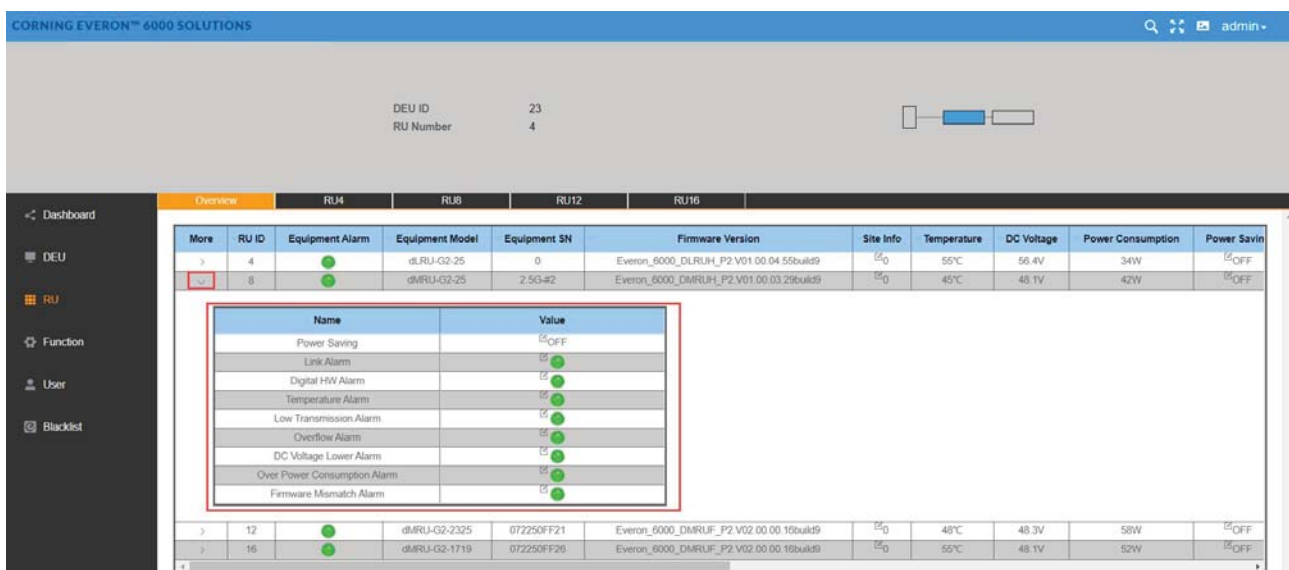


Figure 158. RU→Overview→More

5.4.2 RU Parameter config

5.4.2.1 RF Info

Click RU → RU8 to read various RF information of RU, as shown in the figure below:

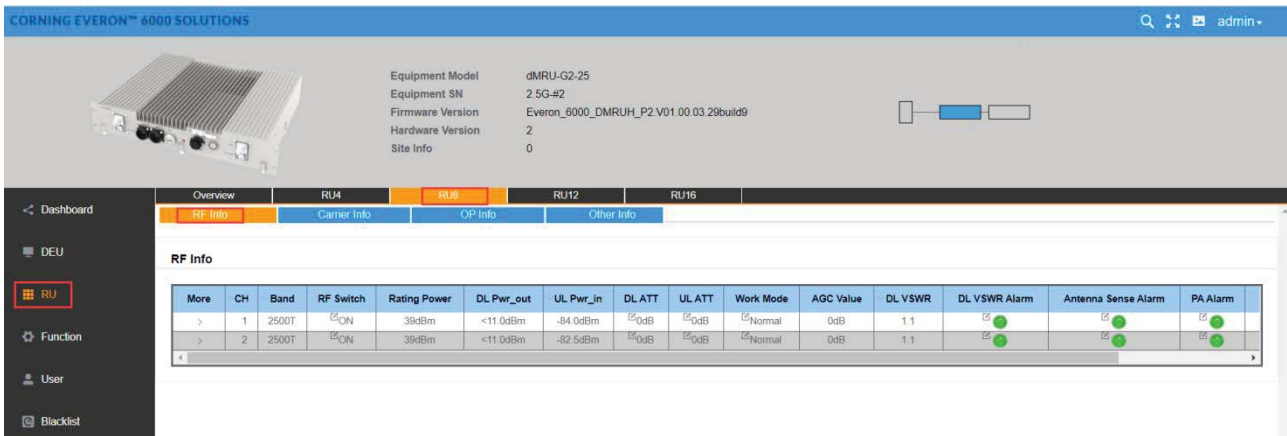


Figure 159. RU8→RF Info

SN	RU parameter	Range	Default values	Remark
1	RF Switch	ON/OFF	ON	
2	DL ATT	(0~20) dB	10 dB	0dB (max power)
3	UL ATT	(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

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

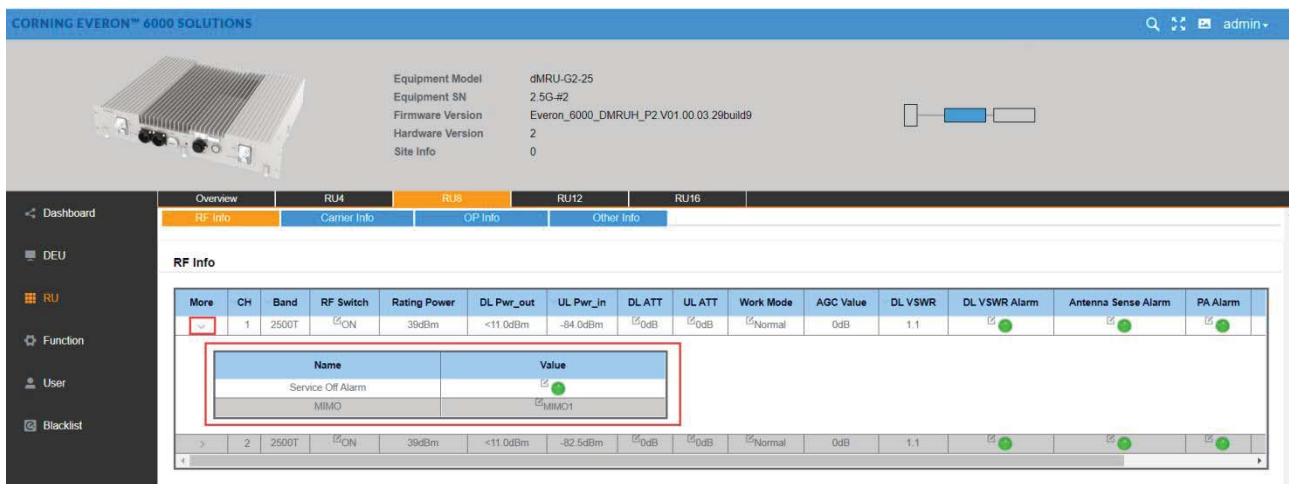


Figure 160.RF info →More

5.4.2.2 Carrier Info

The OP Info list box displays the current optical port connection status and information reading volume of the device, as shown in the figure below:

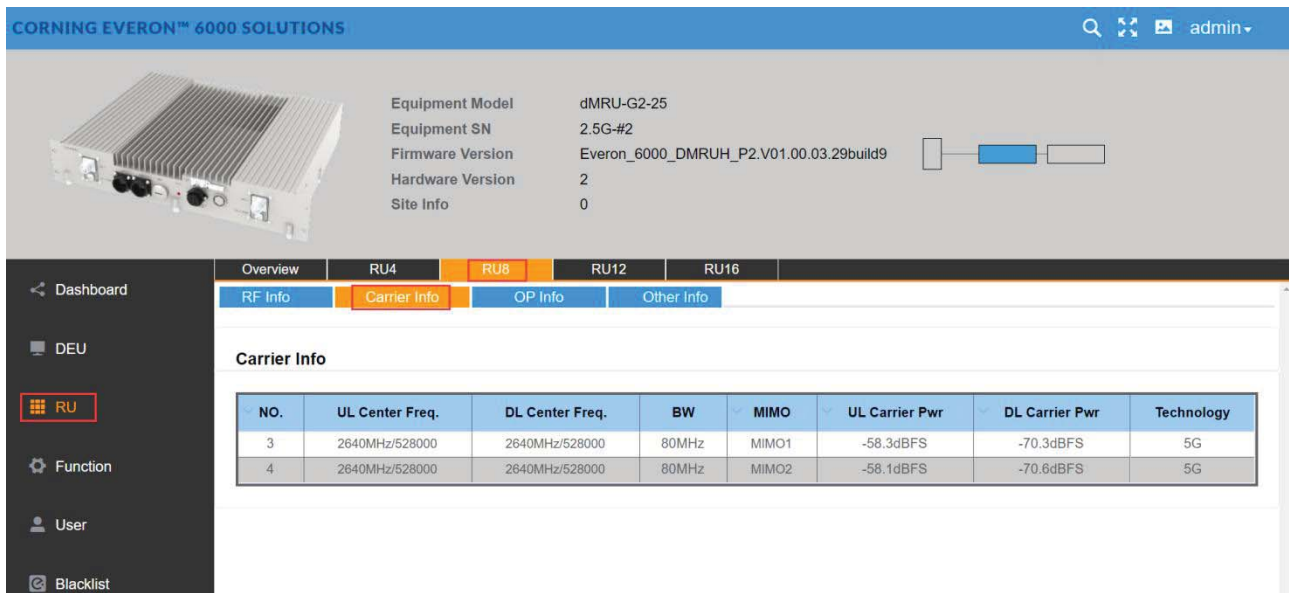


Figure 161.RU →Carrier Info

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, as shown in the figure below: