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Revision History

Revision	Date	Author	Remarks
P1A	11Feb11	WHGZ	Prepared by SXGZ
R1A	11Feb11	WHGZ	Checked by DLGZ

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1 EQUIPEMENT CONNECTION

1.1 GOUNDING CONNECTION

Ground connection

To ensure safe operation of the product, a ground (earth) connection is required. For single phase AC power source, the product must be grounded by connecting the “earth wire” of the power cord to the ground terminal of the AC supply. For operating this product with DC power system (such as rectifiers), the product should not be connected to power systems that switch open the return lead because the return lead could function as the ground (earth) connection for the equipment.

Protective Ground Connection

The enclosure must be grounded securely by connecting a copper wire (CSA 16mm²) to the grounding terminal on the equipment/rack, and the other end to a protective ground (i.e. building earth point). An internationally acceptable colour code of the ground connection wire is green/yellow.

Such a ground connection implements the “Protective Ground Connection”, and must be connected to the equipment at the designated ground point. In general, do not connect the supply before establishing an adequate ground (earth) connection.

MU Grounding Connection

Connect the grounding terminal located on the back panel of MU to a protective ground (i.e. building earth point).

RU Grounding Connection

The equipment must be grounded securely. Connect a copper wire to the grounding terminal on the mounting tab/enclosure, and connect the other end to a protective ground (i.e. building earth point). An internationally acceptable coloring code of the ground connection wire is green/yellow.

1.2 LI-ION BATTERY CONNECTION

Li-ion battery is provided with this system to ensure power is supplied to the system monitoring unit and MCU and to ensure the alarm message could be sent to OMC effectively in case of mains power failure.

Caution: Be careful of the risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

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1.3 OPTICAL CONNECTION

MU is connected to RU via optical fiber (length<13km). Connect MU front panel's OP1-OP4 with RU's OP OUT/IN (via an optical jumper) respectively.

Refer to the following connection:

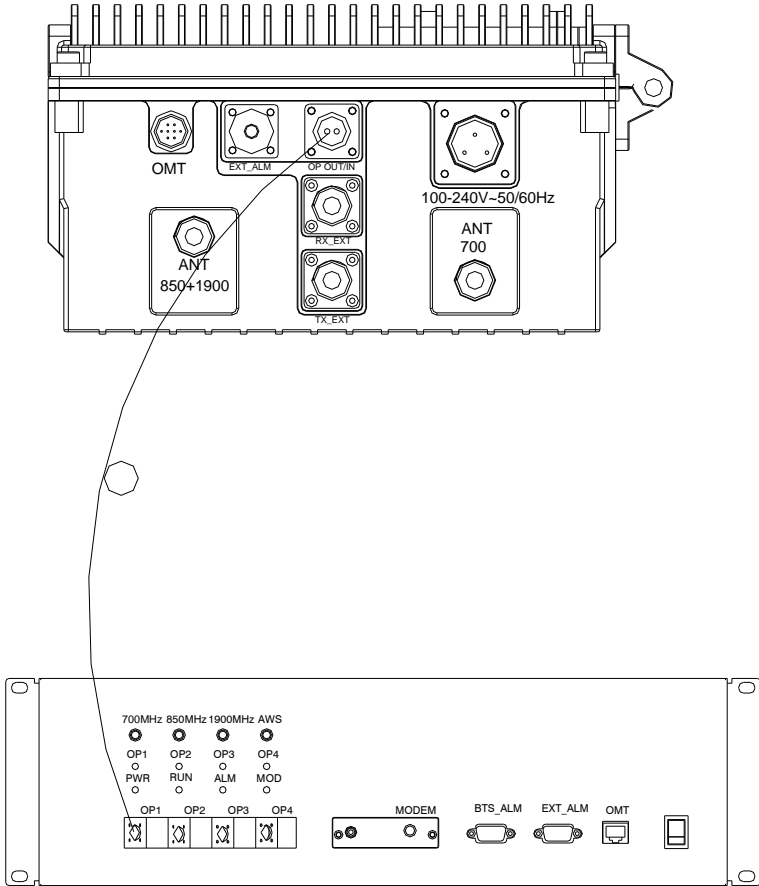


Figure 1: Optical Connection

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1.4 EXTERNAL ALARM CONNECTION

For MU, this is a DB9 connector. The following figure and table show the pin allocation and definition. Pin numbering are shown looking-into the connector on the enclosure.

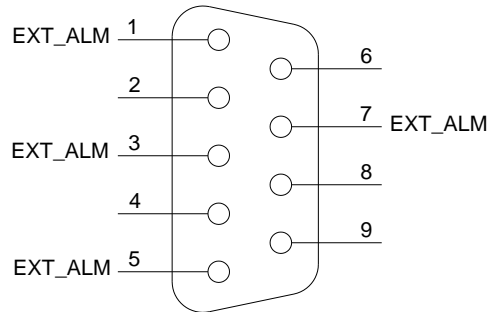


Figure 2: Pins Allocation for “EXT_ALM” Port for MU

Pin number	1	2	3	4	5	6	7	8~9
Alarm definition	EXT. Alarm 1	Reserved	EXT. Alarm 2	Reserved	EXT. Alarm 3	Reserved	EXT. Alarm 4	Reserved

Table 1: Pin Definition of “EXT_ALM” Port for MU

For RU, this is a 7-pin CPC connector. The following figure and table show the pin allocation and definition. Pin numbering are shown looking-into the connector on the enclosure.

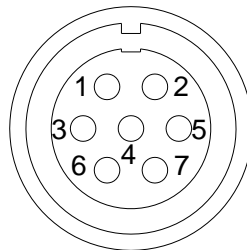


Figure 3: Pins Allocation for “EXT_ALM” Port for RU

Pin number	1	2	3	4	5	6	7
Alarm definition	EXT. Alarm 1	EXT. Alarm 2	EXT. Alarm 3	GND	Reserved	Reserved	Reserved

Table 2: Pin Definition of “EXT_ALM” Port for RU

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1.5 BTS ALARM CONNECTION

The equipment alarms can be signalled to the BTS via voltage-free relay contacts. The voltage-free relay connections are connected to the DB-9 port “BTS_ALAM” located on the MCU of MU. The following figure and table shows the pin allocation and definition.

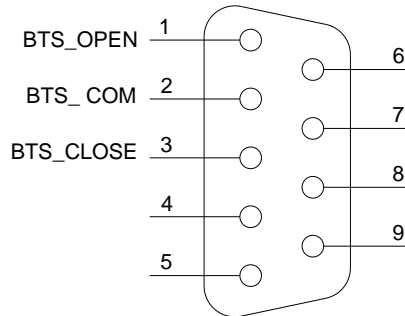


Figure 4: Pins Allocation for “BTS_ALM” Port

Pin Number	Definition	Description
1	BTS_OPEN	Connects to the normally open terminal of the voltage free relay.
2	BTS_COM	Connects to the common terminal of the voltage free relay.
3	BTS_CLOSE	Connects to the normally close terminal of the voltage free relay.
4 ~ 9	NC	Reserved.

Depending on OMT/OMC configuration, alarm to BTS can be signalled equipment by either: a) pin1 and pin2 ‘open’ or b) Pin2 and Pin3 ‘close’.

1.6 CONNECT TO PC

The local commissioning and management for MU and RU is achieved through connecting to the OMT PC locally.

Connect MU to PC


Connect “OMT” port (RJ45) to the serial port of PC with ethernet cable supplied to achieve local monitoring and management. A build-in wireless modem is available for OMC connection to realize remote commissioning.

Connect RU to PC

Local commissioning and management of RU is achieved through “OMT” port and the OMT PC via field commissioning cable supplied.

With the equipment enclosure opened, the OMT PC can be connected internally.

End of section

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2 LED INDICATORS

2.1 MU LED INDICATORS

Diagnostic LEDs are located on the MU; each indicates the status of a particular function:

Identifier	Color	Indication
POWER	Green	It stands in green when power on.
RUN	Green	Operation indicator – power is supplied to the MU. Flashes once every second to indicate normal system operation.
ALM	Red	Alarm indicator. ON = alarm; OFF = no alarm
MOD	Red	Diagnostic LED for FSK communication and MODEM operation. Flashes once every two seconds to indicate normal communication between MU and RU.
OP1-OP4	Green	When the green indicators are on, the relative optical channel is in normal reception.

Table 3: MU LED Indicators

2.2 RU LED INDICATORS


LED Diagnostic indicators are located on the MCU integrated in the RU; each indicates the status of a particular function.

Identifier	Colour	Indication
ALM (on bottom panel)	Red	Synchronized LED indicator of LED4 on MCU. Alarm indicator. ON = alarm; OFF = no alarm
LED 5	Green	Operation indicator – power is supplied to the RU. Flashes twice every 2 seconds to indicate normal system operation.
LED 4	Red	Alarm indicator. ON = alarm; OFF = no alarm
LED 3	Red	Diagnostic LED for FSK communication. Flashes once every two seconds to indicate normal communication between MU and RU.

Table 4: RU LED Indicators

The LEDs LED5, LED4, LED3 will flash simultaneously five times during system self-checking after equipment power-up. Then LED5 flashes every second to indicate system commissioning can be proceeded with.

End of section

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3 WEB OMT

3.1 CONNECTION FROM PC TO EQUIPMENT

Before accessing to the OMT, physical connection between the OMT software and the equipment must be made. A straight-through RJ45 cable shall be applied for the connection.

Comba recommends an IE8 browser to connect with Web OMT.

The default IP address of RA-5700 MU is 192.168.8.101 and RU is 192.168.8.102. Subnet mask is 255.255.255.0.

Execute the IE browser and enter 192.168.8.101/102 in the address bar. A pop-up window will be shown, requiring user name and password. The default user is *admin* and password is *123456*.

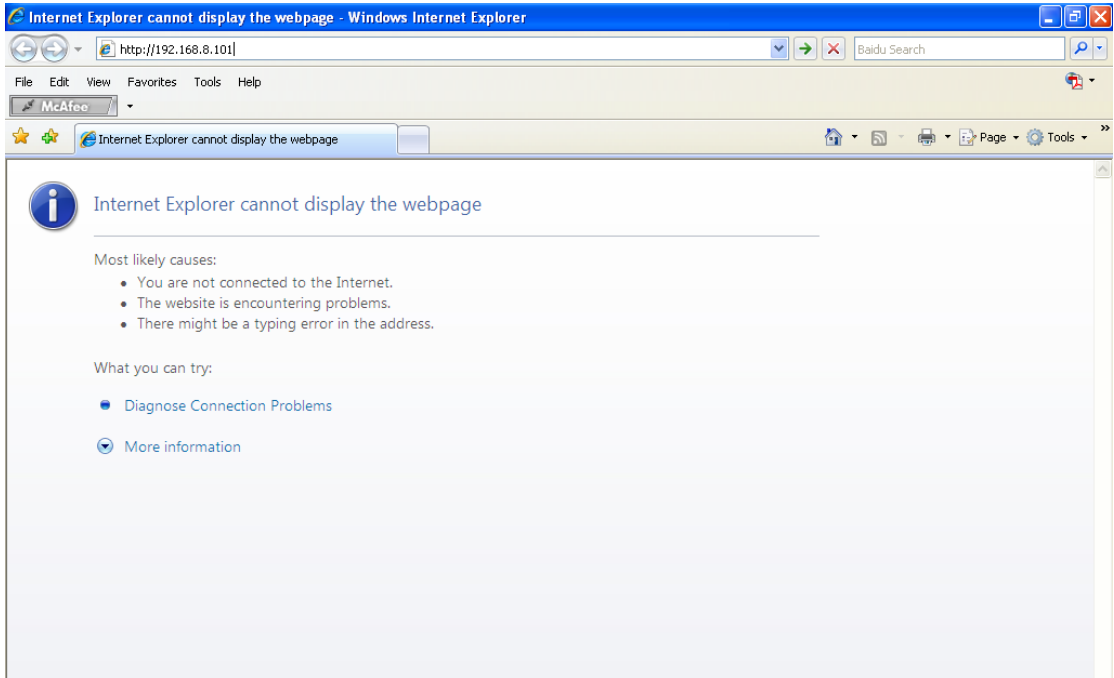


Figure 5: Web OMT Access

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Figure 6: Log in

Items	Default Value
PC IP Address	Automatically distributed by system
PC Subnet Mask	255.255.255.0
PC Gateway	Automatically distributed by system
System IP Address	192.168.8.101 (for MU) / 192.168.8.102 (for RU)
System Subnet Mask	255.255.255.0
User name	admin
Password	123456

Table 5: IP Setting Quick Look-up Table

3.2 OMT CONFIGURATION

OMT parameters include: Common Information, RF Information, Alarm Information, Properties Information, User Manager and Help.

3.2.1 SYSTEM INFORMATION

3.2.1.1 System Information

Click on [System Information], system information will be displayed in the right interface of the OMT screen. In the interface the site ID of MU is described and the currently accessed unit is indicated.

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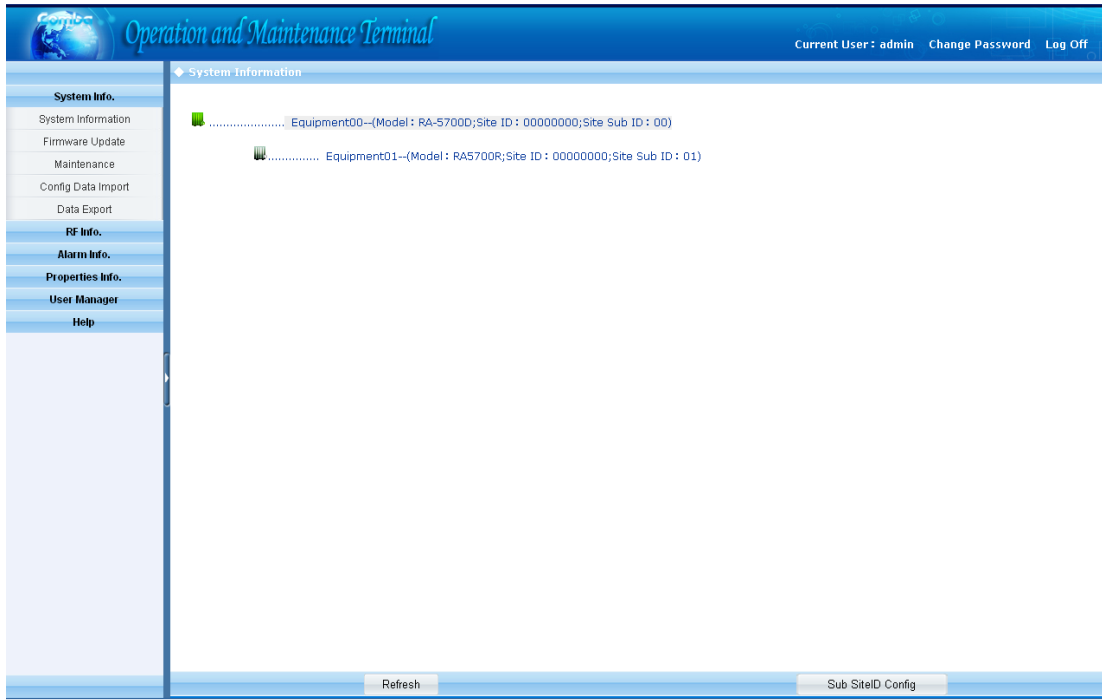


Figure 7: System Information

As illustrated, MU in green is under monitoring,

- To switch to the RU or other sites, customer can choose RU (in grey) or other site by clicking to switch to RU or other sites.

3.2.1.2 Firmware Update

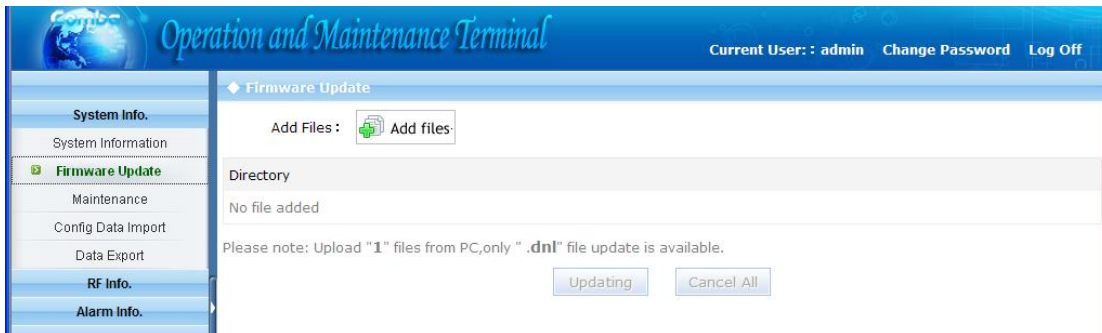


Figure 8: Firmware Update

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3.2.1.3 Maintenance

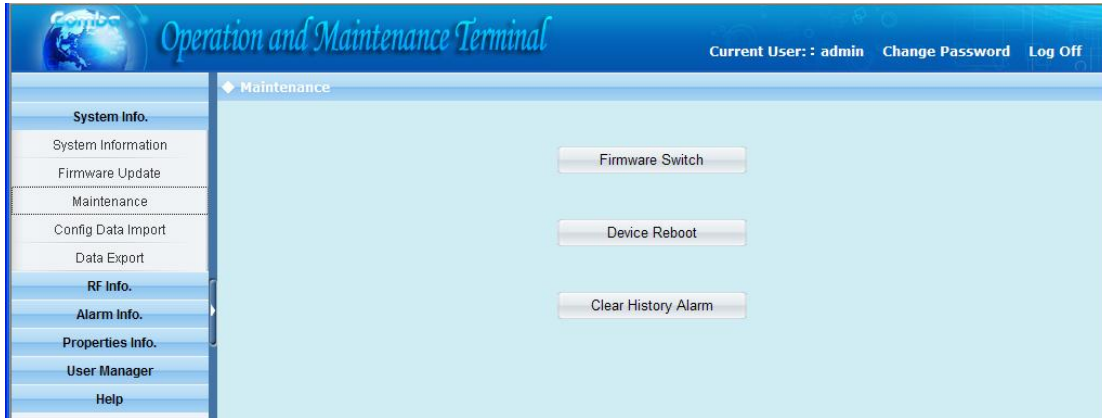


Figure 9: Maintenance

- 1> Firmware Switch: can switch to the previous firmware version which was saved in the system when update to current firmware. It is to say there are 2 firmware versions available in same system. This function is not available in current phase.
- 2> Device Reboot: restart the device
- 3> Clear History Alarm: delete all history alarm records

3.2.1.4 Config Data Import

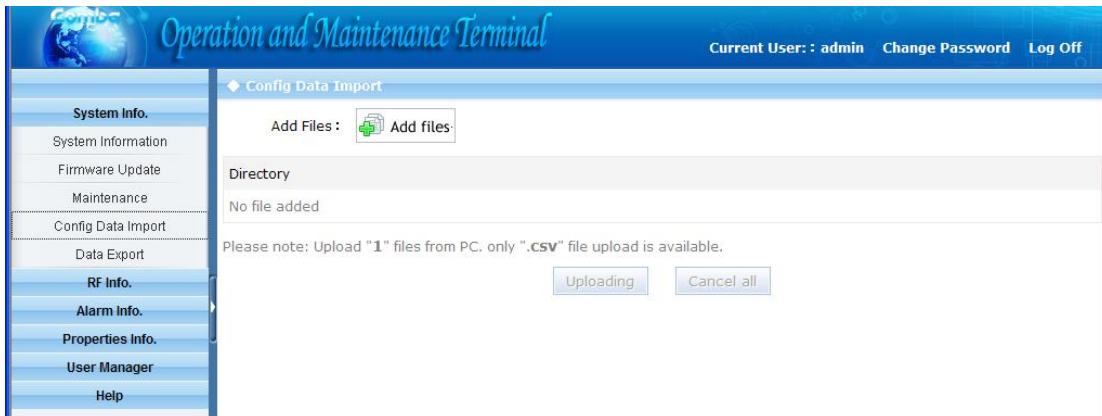


Figure 10: Data Import

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3.2.1.5 Data Export



Figure 11: Data Export

[Export]: Export all site records. The records can be exported to a CSV file.

- 1> Config Data Export: can export the config. data and save in PC. The exported data can be input to the same kind of equipment if necessary.
- 2> Status Data Export: can export status data and save in PC. The data is save-only, can not import.

3.2.2 RF INFORMATION

It is recommended to configure the following RF parameters for the first installation.

3.2.2.1 Switch

Switch is to enable/disable power for internal modules. When user checks and sets non-RF parameters, such as checking physical antenna connection, switching off will disable equipment power temporarily to protect PA in operation.

All	Parameter Name	Status	Setting	MinValue	MaxValue	Unit
<input type="checkbox"/>	700MHz RF Switch	ON				
<input type="checkbox"/>	850MHz RF Switch	ON				
<input type="checkbox"/>	1900MHz RF Switch	ON	OFF ON			
<input type="checkbox"/>	AGC Switch 01	ON				
<input type="checkbox"/>	700MHz Optimized IIP3	OFF				
<input type="checkbox"/>	850MHz Optimized IIP3	OFF				
<input type="checkbox"/>	1900MHz Optimized IIP3	OFF				
<input type="checkbox"/>	Modem Control Mode	OFF				

Figure 12: Switch

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Config:

Select the required state in setting columns of RF information window for RF switch, then press [ON] or [OFF] button to finish the configuration operation.

3.2.2.2 Alarm Threshold

Users can set alarm threshold according to the specific situation. If the measured value is lower than the threshold lower limit or more than the threshold upper limit, the appropriate alarm will be generated.

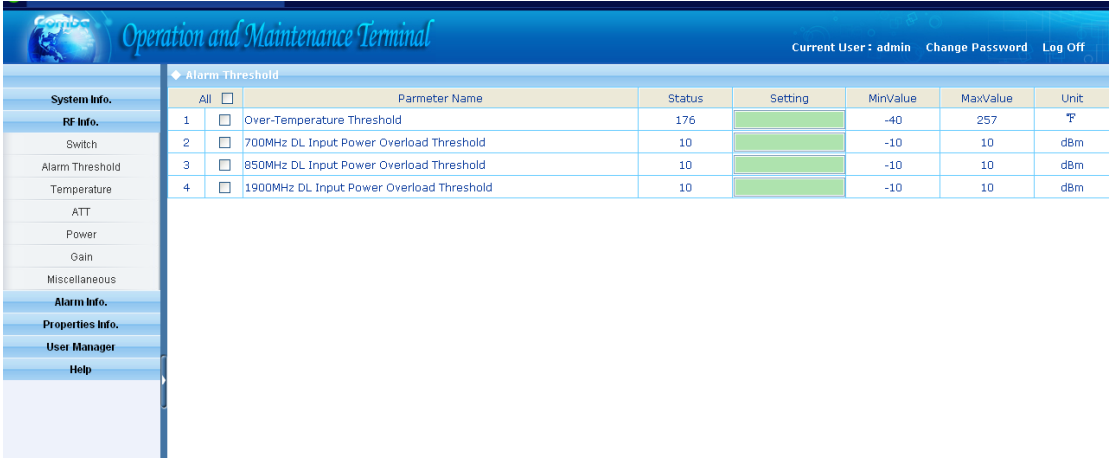


Figure 13: Alarm Threshold

3.2.2.3 Temperature

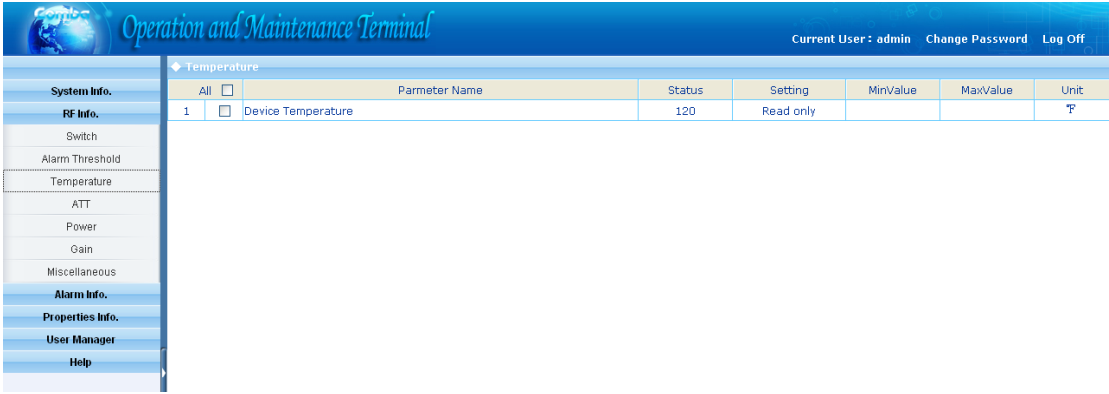


Figure 14: Temperature

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3.2.2.4 ATT

ATT							
All	<input type="checkbox"/>	Parameter Name	Status	Setting	MinValue	MaxValue	Unit
1	<input type="checkbox"/>	700MHz UL ATT	0	Read only			dB
2	<input type="checkbox"/>	850MHz UL ATT	0	Read only			dB
3	<input type="checkbox"/>	1900MHz UL ATT	0	Read only			dB
4	<input type="checkbox"/>	700MHz DL ATT	0	Read only			dB
5	<input type="checkbox"/>	850MHz DL ATT	0	Read only			dB
6	<input type="checkbox"/>	1900MHz DL ATT	0	Read only			dB

Figure 15: ATT

[ATT]: read-only parameters. ATT = Rating Gain - Gain

3.2.2.5 Power

Power							
All	<input type="checkbox"/>	Parameter Name	Status	Setting	MinValue	MaxValue	Unit
1	<input type="checkbox"/>	Optical RX Power 01	0	Read only			dBm
2	<input type="checkbox"/>	Optical TX Power 01	5	Read only			dBm
3	<input type="checkbox"/>	700MHz DL Input Power	--	Read only			dBm
4	<input type="checkbox"/>	850MHz DL Input Power	--	Read only			dBm
5	<input type="checkbox"/>	1900MHz DL Input Power	--	Read only			dBm

Figure 16: Power

3.2.2.6 Gain

Gain							
All	<input type="checkbox"/>	Parameter Name	Status	Setting	MinValue	MaxValue	Unit
1	<input type="checkbox"/>	700MHz UL Gain	0		-50	-10	dB
2	<input type="checkbox"/>	850MHz UL Gain	0		-50	-10	dB
3	<input type="checkbox"/>	1900MHz UL Gain	0		-50	-10	dB
4	<input type="checkbox"/>	700MHz DL Gain	0		-50	-7	dB
5	<input type="checkbox"/>	850MHz DL Gain	0		-50	-7	dB
6	<input type="checkbox"/>	1900MHz DL Gain	0		-50	-7	dB
7	<input type="checkbox"/>	700MHz UL Rating Gain	-10		-20	20	dB
8	<input type="checkbox"/>	850MHz UL Rating Gain	-10		-20	20	dB
9	<input type="checkbox"/>	1900MHz UL Rating Gain	-10		-20	20	dB
10	<input type="checkbox"/>	700MHz DL Rating Gain	-7		-20	20	dB
11	<input type="checkbox"/>	850MHz DL Rating Gain	-7		-20	20	dB
12	<input type="checkbox"/>	1900MHz DL Rating Gain	-7		-20	20	dB

Figure 17: Gain

Rating Gain: be set before delivery. Comba recommends no change of rating gain value.
Gain: User can set according to the real application.

3.2.2.7 Miscellaneous

Miscellaneous							
All	<input type="checkbox"/>	Parameter Name	Status	Setting	MinValue	MaxValue	Unit
1	<input type="checkbox"/>	Equipment Response Overtime	8	Read only			S
2	<input type="checkbox"/>	Transmit Interval	100	Read only			mS
3	<input type="checkbox"/>	Transmit Pause Waiting Time	2	Read only			S
4	<input type="checkbox"/>	Firmware Update Waiting Time	2	Read only			S
5	<input type="checkbox"/>	700MHz BS Coupling Loss	0		0	60	dB
6	<input type="checkbox"/>	850MHz BS Coupling Loss	0		0	60	dB
7	<input type="checkbox"/>	1900MHz BS Coupling Loss	0		0	60	dB
8	<input type="checkbox"/>	Modem Operating Frequency Band	MONO1900	<input type="text" value="MONO1900"/>			

Figure 18: Miscellaneous

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3.2.3 ALARM INFORMATION

Click any tree node in [Alarm Info] group, [Alarm Information] window will appear in the right side. The figures below show the alarm information.

3.2.3.1 Master Alarm

Master Alarm				
All	<input type="checkbox"/>	Parameter Name	Status	Enable <input type="checkbox"/>
1	<input type="checkbox"/>	AC Power Failure Alarm	Normal	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>	DC Power Fault Alarm	Normal	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	Li-ion Battery Fault Alarm	Normal	<input checked="" type="checkbox"/>
4	<input type="checkbox"/>	Over-Temperature Alarm	Alarm	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	Door Open Alarm	Normal	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	700MHz ALC Alarm	Normal	<input checked="" type="checkbox"/>
7	<input type="checkbox"/>	850MHz ALC Alarm	Normal	<input checked="" type="checkbox"/>
8	<input type="checkbox"/>	1900MHz ALC Alarm	Normal	<input checked="" type="checkbox"/>
9	<input type="checkbox"/>	700MHz Shutdown Alarm	Normal	<input checked="" type="checkbox"/>
10	<input type="checkbox"/>	850MHz Shutdown Alarm	Normal	<input checked="" type="checkbox"/>
11	<input type="checkbox"/>	1900MHz Shutdown Alarm	Normal	<input checked="" type="checkbox"/>
12	<input type="checkbox"/>	Module Software Alarm	Normal	<input checked="" type="checkbox"/>

Figure 19: Master Alarm

3.2.3.2 Channel Alarm

Channel Alarm				
All	<input type="checkbox"/>	Parameter Name	Status	Enable <input type="checkbox"/>
1	<input type="checkbox"/>	Optical RX Alarm	Normal	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>	Optical TX Alarm	Normal	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	700MHz UL LNA Alarm	Normal	<input checked="" type="checkbox"/>
4	<input type="checkbox"/>	850MHz UL LNA Alarm	Normal	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	1900MHz UL LNA Alarm	Normal	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	700MHz DL PA Alarm	Normal	<input checked="" type="checkbox"/>
7	<input type="checkbox"/>	850MHz DL PA Alarm	Normal	<input checked="" type="checkbox"/>
8	<input type="checkbox"/>	1900MHz DL PA Alarm	Normal	<input checked="" type="checkbox"/>
9	<input type="checkbox"/>	700MHz DL Output Power Overload Alarm	Normal	<input checked="" type="checkbox"/>
10	<input type="checkbox"/>	850MHz DL Output Power Overload Alarm	Normal	<input checked="" type="checkbox"/>
11	<input type="checkbox"/>	1900MHz DL Output Power Overload Alarm	Normal	<input checked="" type="checkbox"/>
12	<input type="checkbox"/>	700MHz DL Output Power Low Alarm	Normal	<input checked="" type="checkbox"/>
13	<input type="checkbox"/>	850MHz DL Output Power Low Alarm	Normal	<input checked="" type="checkbox"/>
14	<input type="checkbox"/>	1900MHz DL Output Power Low Alarm	Normal	<input checked="" type="checkbox"/>

Figure 20: Channel Alarm

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3.2.3.3 External Alarm

External Alarm				
	All <input type="checkbox"/>	Parameter Name	Status	Enable <input type="checkbox"/>
1	<input type="checkbox"/>	External Alarm 01	Normal	<input type="checkbox"/>
2	<input type="checkbox"/>	External Alarm 02	Normal	<input type="checkbox"/>
3	<input type="checkbox"/>	External Alarm 03	Normal	<input type="checkbox"/>
4	<input type="checkbox"/>	External Alarm 04	Normal	<input type="checkbox"/>

Figure 21: External Alarm

3.2.4 PROPERTIES INFORMATION

3.2.4.1 Equipment ID

Equipment ID is to be configured after local commission has been completed, which includes Site ID and Site Sub ID.

Item	Description
Site ID	Site ID is the unique equipment identification. It is a hexadecimal string of eight characters in the range of [0x00000000-0xFFFFFFFF]. e.g. 12345678
Site Sub ID	Site Sub ID is used for Master-Slave System. It is the unique identification of each Master/ Slave Unit and is a hexadecimal string of two characters in the range of [0x00-0xFF] For the system located with single equipment, the Site Sub ID should be 0xFF. e.g. 00 For Master-Slave system, the Site Sub ID for Master Unit is 0x00, and the Site Sub ID for each Slave Unit is represented in the range of [0x00-0xFE] in ascending order. e.g. Master Site ID: 00 Slave Site ID: 01

Table 6: Equipment ID

Equipment ID					
	All <input type="checkbox"/>	Parameter Name	Status	Setting	Remark
1	<input type="checkbox"/>	Site ID	00000000		
2	<input type="checkbox"/>	Site Sub ID	00	Read only	00---site ID
3	<input type="checkbox"/>	Slave Site Sub ID 01	01		
4	<input type="checkbox"/>	Slave Site Sub ID 02	FF		FF is invalid site
5	<input type="checkbox"/>	Slave Site Sub ID 03	FF		FF is invalid site
6	<input type="checkbox"/>	Slave Site Sub ID 04	FF		FF is invalid site

Figure 22: Equipment ID

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3.2.4.2 Equipment Info.

Operation and Maintenance Terminal

Current User : comba Change Password Log Off

Equipment Info.

All	Parameter Name	Status	Setting	Remark
1 <input type="checkbox"/>	Vendor ID	Comba	Read only	
2 <input type="checkbox"/>	Equipment Type	Fiber Optic Master Unit	Read only	
3 <input type="checkbox"/>	Equipment Model	RAS700D		
4 <input type="checkbox"/>	Serial No.	09091158		
5 <input type="checkbox"/>	Firmware Run Mode	Normal	Read only	

Read Config

Figure 23: Equipment Info.

3.2.4.3 Site Location

Operation and Maintenance Terminal

Current User : admin Change Password Log Off

Site Location

All	Parameter Name	Status	Setting	Remark
1 <input type="checkbox"/>	Longitude	--		
2 <input type="checkbox"/>	Latitude	--		

Figure 24: Site Location

[Site Location]: input the current longitude and latitude in the blank.

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3.2.4.4 System Clock



Figure 25: System Clock

[System Clock]: it shows the current time/date information. It is settable.

3.2.4.5 Comm. Config

The Comm. Config information requires to be manually entered by users after successful connection to the equipment.

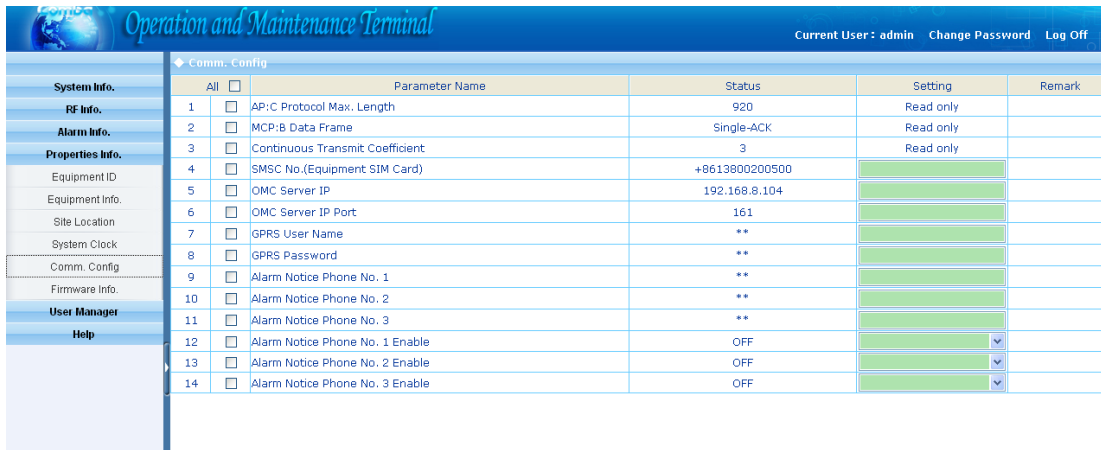


Figure 26: Comm. Config.

SMSC NO. (Equipment SIM Card)	The SMS centre number of SIM card in equipment.
OMC Server IP	OMC IP Address. For equipment which support TCP/IP.
OMC IP Port No.	OMC IP Port No. For equipment which support TCP/IP.
GPRS User Name	Login GPRS network user name.
GPRS Password	Login GPRS network password.
Alarm Notice Phone NO.	The telephone number of alarm receiver.
Alarm Notice Phone NO. Enable	Enable the telephone number of alarm receiver.

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3.2.4.6 Firmware Information

Firmware Info.					
All	<input type="checkbox"/>	Parameter Name	Status	Setting	Remark
1	<input type="checkbox"/>	Firmware Version	M63RA5700D3GH10V7001	Read only	

Figure 27: Firmware Information

3.2.5 USER MANAGEMENT

3.2.5.1 User Info.

User Information				
All	<input type="checkbox"/>	User Name	User Group	Connect Status
1	<input type="checkbox"/>	admin	admin	online

Figure 28: User Information

3.2.5.2 Set Session Time

Set SessionTime [X]

Set SessionTime: minute

Figure 29: Set Session Time

[Set Session Time] is to set the automatic log-off time.

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3.2.6 HELP

3.2.6.1 Help



Figure 30: Help

3.2.6.2 About

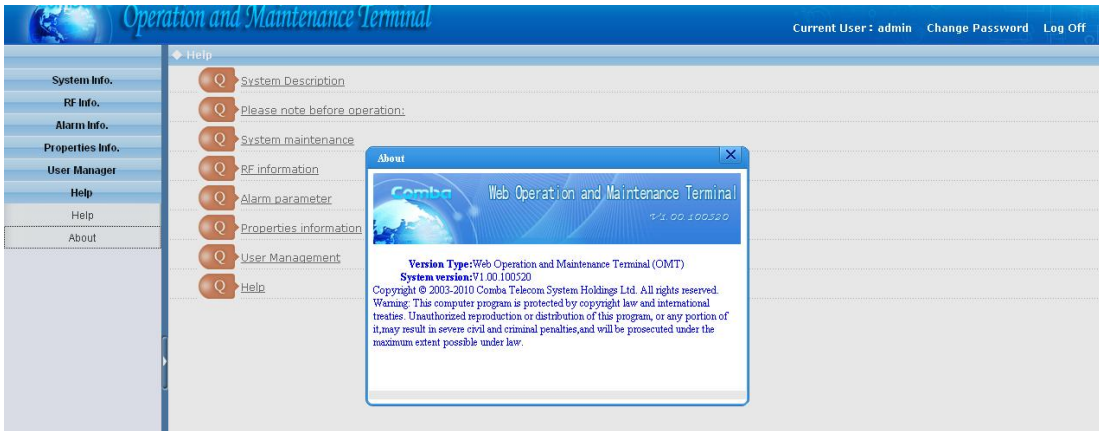


Figure 31: About

3.3 CHANGE PASSWORD

Click [User Info.] -> select the wanted user as illustrated.



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Sumit the request of <Edit User> button in the bottom, a pop-up window might shown out to indicate an on-going step.

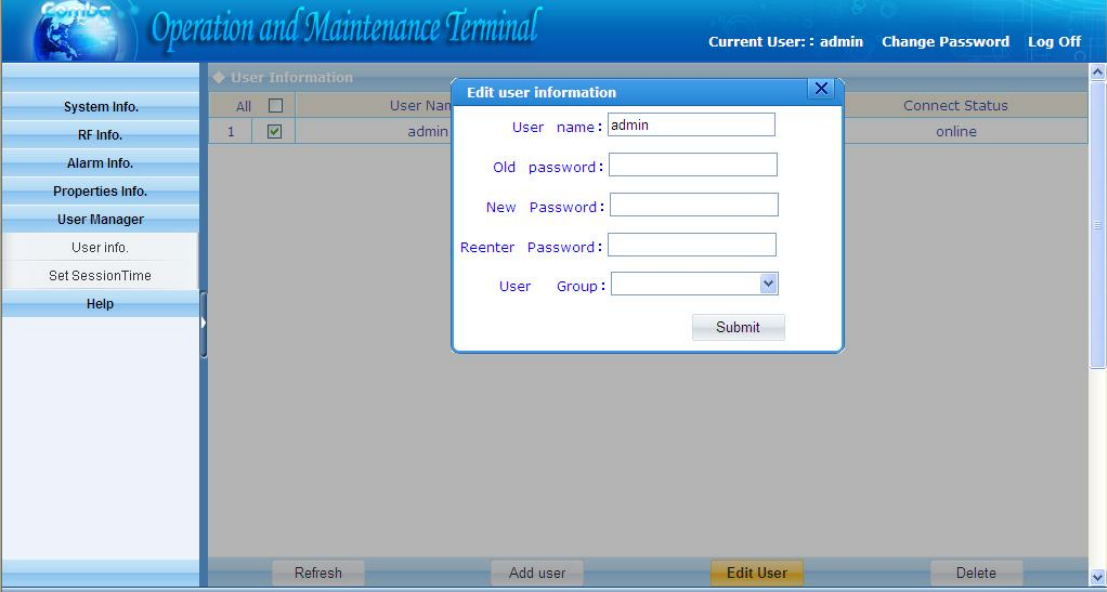



Figure 32: Change Password


End of Section

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4 TROUBLE SHOOTING

Following installation and commissioning, occasional operation tasks to handle alarms may be required:

Alarm condition	Diagnosis
AC Power Failure Alarm/ DC Power Fault Alarm	Check AC power cable and verify AC mains supply is normal. During Power Fault alarm, DC power supply has no output. Check if DC output power is overloaded or short-circuited. The PSU could be faulty.
Li-ion Battery Fault Alarm	Check the connection between battery and power supply cable. Or replace the faulty modules and return it to the factory for repair.
External Alarm	Check to make sure if the external device connected is working normally
Over- Temperature alarm	Eliminate alarm by correct setting of temperature threshold, if alarm can not be cleared, apply climatic protection to the system under severe environment.
Door Open Alarm	Check whether the enclosure door is closed.
ALC Alarm	Check to see if PA alarm or DL input power overload alarm occur via OMT/OMC. If so, adjust DL input power or replace a new PA.
Shutdown Alarm	Alarm occurs when automatically shut off the system. Turn on the system and check if the DL output power overload alarm persists, adjust the DL output power overload threshold to a proper value.
Manual Shutdown Alarm	Alarm occurs when manually shut off the system. Turn on the system to eliminate the alarm.
Module Software Alarm	Alarm occurs when the module software failed. Reboot the system or update the software.
Optical TX Alarm	The optical power at the TX port of the Optical TX/RX Module is lower than the minimum requirement, which is resulted by the faulty of the optical TX part of Optical TX/RX Module or damaged optical fiber link. If so, replace the optical TX/RX module. If not, check the working status of the optical fiber to eliminate the alarm.
Optical RX Alarm	The optical RX part of Optical TX/RX Module is faulty. Check and replace the faulty module and return it to the factory for repair.
UL LNA, DL PA alarms	Check power and signal connections of respective modules. If the power and signal wire connections are OK, then the respective modules may be faulty. Replace the faulty modules and return it to the factory for repair.
Master/Slave Unit Link Alarm	The communication between the MU and RU is abnormal. Check the working status of Optical TX/RX Module and FSK.
DL Input Power Overload Alarm	Eliminate alarm by correct setting of DL Input Power Overload threshold. If the setting is OK but alarm persists, the DL input power might be higher than the threshold. Decrease the gain to reduce the input power or replace the coupler with a new one

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	of high coupling effect.
DL Output Power Overload Alarm	Eliminate alarm by correct setting of DL Output Power Overload threshold. If the setting is OK but alarm persists, the DL output power might be higher than the threshold. Decrease the gain to reduce the output power.
DL Output Power Low Alarm	Eliminate alarm by correct setting of DL Output Power Low threshold. If the setting is OK but alarm persists, the DL output power might be lower than the threshold. Increase the gain to high up the output power.
External Alarm	Check to make sure if the external device connected is working normally

Table 7: Alarms Diagnosis

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