

# **EMR3.0** Platform operation

# **User Guide**



## **1. Product Introduction**

This is the Operation Guide for EMR3.0 Platform. It is used for basic configuration.

Enhanced Multimedia Router (EMR) is a standard platform on which users can realize all Digital TV head end functions. It is one rack-unit (1-RU) signal processing platform with flexible card-insertion structure (6 slots). EMR can support "Any input" (DVB-S/S2/ASI/IP/DS3/E3 and etc.), "Any processing" (encoding/decoding/multiplexing/scrambling, and etc.) and "Any output "(DVB-S/S2/ASI/IP/DS3/E3 etc)".

Interface on front panel:

- "CTRL": network management control interface.
- "CA": CA scrambling interface.
- "GbE1-GbE4": GbE SFP module interface for data.





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	<b>(2)</b> http://192.168.1.253 请	求用户名和密码。信息为: "Goahead"		
	用户名: Admin 家母·			
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## 2. Web Manager System parameter configure

Step ①: Open the web browser (IE, Chrome, Firefox...) and enter

IP address of EMR (check it from front panel by long pressing the button near LCD) in the address bar, then username and password will be needed, the default username is **Admin**, default password is **sumavisionrd**;

Step (2): Choose a language, for example **English**;





Step ③: Click **General**, all general setting options are shown on

the left side of the web page;

Step ④: Click **Network**, the network parameters are shown on the

right of the web page; first we need to configure the IP address of EMR3.0.

Step (5): enter values in "IP address", "Subnet Mask", "Gateway",

and "DHCP" select as "Disable"; ensure that there is no IP conflict in

the network.



Cards	Multiplexing	Output	General			Logged in as: A
General List	< 🔬	General > PSI/SI				
Network			P SI/SI			
Clock					Apply	Refresh
			PSI/SI Refresh Mo	ode	Auto	G
			PAT/PMT/CAT Refresh In	nterval (s)	4	
License			NITa/SDTa Refresh Inte	erval (s)	4	
			NITo/SDTo/BAT Refresh	interval (s)	6	
Permission						

Step (6): Go to "General"->"PSI/SI" we can get the information of

PSI/SI configuration on the right of web page

Step ⑦: Select "PSI/SI Refresh Mode" as Auto or Manual and you

can change the tables Refresh Interval time, default setting is ok.



	Multiplexing	Output	Backup	General			Logged in as: Admin
ieneral List	< 1	🎦 > General > Misc					
			Misc				
TDT/TOT						Apply Refresh	
			Device Na	ame	Enhanced Multimedia	Router	
Alarm			Service ID F	ormat	Decimal	×	
Log License			PID Form	nat	Decimal	~	
Version		-	Input PSI/SI I	Display	Off	*	
Misc 🖣		-(8)	Output P SI/SI Vers	sion Number	Auto Char	nge 💌	
Permission			Bitrate Statisti	cs Cycle	1s	<ul> <li>Image: A second s</li></ul>	
conliguration			Device M	ode	DVB	*	
			Power Config	urations	Dual Pow	er v	
			CA Serv	er	0.0.1	0.0	

Step (8): Go to "General" ->"Misc"

Step (9):select format of service ID and PID as Decimal or

Hexadecimal that you required, which it can control the ID and PID display format in EMR

Step ①: Input PSI/SI Display option that you can select it as off or

on. Other options leave it as default setting.

Step (1) :CA Server option showing the Scrambler card IP, you can

use this IP to login scrambler card



The EMR3.0 platform basic operation is multiplexing; there are many types of cards. So, we take the 5-input-ASI-card and Main GbE card for example

Step 1: go to "Cards"->"Card1-5 Input ASI Card" -> "port1"

## -> "Monitor"

Step O: we can check the current input status if normal or not.



## Step (1): Click Service Multiplexing;



Step 16: select the input card; (Card1-5 Input ASI Card for example)

Step 17: select the output card; (Main GbE Card for example);

Step 18: The program after inputting is shown under **ASI 1**, first choose the program on input side (CCTV-1 as an example), and then choose the UdP Port which is for output port (UdP Port1 as an

example), click program will be multiplexed from Card1-5 Input ASI Card port 1 to Main GbE Card Port 1 IP output; Step 19: if you want to remove the program from output side, you can first choose this program and then click, which the program will be removed from right side; Apply to save your configuration





Step 20: choose the output port (UdP Port) then press right key,

Output	Network	
🖃 👰 Card7-Port1	Network ID	1
SID:41	Network Name	network1
L 3ID.45	Stream	
	Stream ID	1
	Original Network ID	4660
		22

click **Detail**, you will see the following page

## Step 21: click Card7-Port1

Step 22: you can modify the network ID、network Name、Stream

ID、Original Network ID as your requirement;

utput	PID List						
Card7-Port1	Source Card	Source Port	Source PID	Current PID	PID Type		
SID:41		11 <u>11</u>		688	PMT		
	6	1	689	689	PCR		
	6	1	690	690	H264 Video		
	6	1	691	691	Mpeg1 Audio		
	Service Detail	Service Detail					
	1	Service ID		41			
	Se	Service Name		ENC41			
	Sen	vice Provider		DVT			
	Chara	acter Encoding		Default	× -		
	Se	ervice Type		Digital Television	× .		
	Rui	nning Status		Run	-		
	Encr	yption Status		Not Scrambled	× .		
	EIT	Schedule Flag		0	<ul> <li>Image: A second s</li></ul>		
	EIT Pres	ent Following Fla	a	0	-		



Step 23: click **SID 41**, 41 is the service id, here is only as an example;

Step 24: then you can modify the PMT PID、PCR PID、Video PID、

audio PID and so on; the format of PID value depends on the PID

display setting at step 10

Step 25: you can modify the Service ID、Service Name of program;

Step 26: select it as "Default"

Step 27: select the Service Type according to the actual situation

Step 28: select it as default setting

After finished the configuration, click "Apply" to save the setting.

Click Service Multiplexing option on the left of webpage to return;





Step 29: choose the output port (Udp Port) then press right key,

Garus	Multiplexing	Output	Backup	General				Logged in as: Ad
ultiplexing List	< 🏠	> Multiplexing > Servic	e Multiplexing > PSI/SI In	terval(Card7-GbE1P	Port1)			
Service Multiplexin	g	P	SI/SI Interval					
PID Map					Apply	Refresh	Default Interval	
			PAT Interval(m	is)	300			
			PMT Interval(n	ns)	300			
			CAT Interval(m	15)	300			
			NITa Interval(m	is)	1000			
			NITo Interval(n	is)	1000			
			SDTa Interval(r	ns)	1000		✓	
			SDTo Interval(r	ns)	1000		· · ·	
			BAT Interval(m	is)	1000			
			TDT/TOT Table S	iend	On			

click **PSI/SI Interval**, you will see the following page:

Step 30: here you can configure PSI/SI sending interval, which the PSI/SI is generated by EMR, in case of conflict, if you have EPG system already or you don't want to send PSI/SI, you can select parts/all of tables sending interval time as 0;

Step 31: you can select "TDT/TOT tables send" as on or off.





Step 32: go to "Multiplexing"-> "PID Map" option;

Step 33: click "Add" button;

Step 34: now we can do PID mapping, first we need to select the input card:

input card;

Step 35: then select the input port of this card

Step 36: then enter the original PID value, which the format of PID

depends on the PID display setting at step (0)

Step 37: select the output card;

Step 38: then select the output port of this card;

Step 39: enter the destination PID value, which the format of PID

depends on the PID display setting at step igcup



Step 40: press "Apply" to save the configuration, and then if you want to edit the PID Map list that you have added, you can choose

or × to modify or to delete

### **Contact Us**

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