

# Smart SIM Server Manager



**Smart SIM Server Manager**

Welcome to AddPac SIM Server

Quick Menu: Home, SIM Card, SIM Card, SIM Card

Unread Alarm Message: sim card detached from server - 2013-04-24 20:02:23

**SIM Server**

AP-GSS2000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Insert	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Registered	14	11	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Unregistered	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Blocked	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**SIM Client**

Gateway: [Progress Bar]

Port: [Progress Bar]

Legend: [Green] Registered, [Red] Unregistered

Name	Total	Registered	Unregistered
GSM1000 RxD	10	10	0
GSM2000 HG	10	10	0
GSM3000 RxD	1	1	0

**AddPac**

**AddPac Technology**

2013, Sales and Marketing

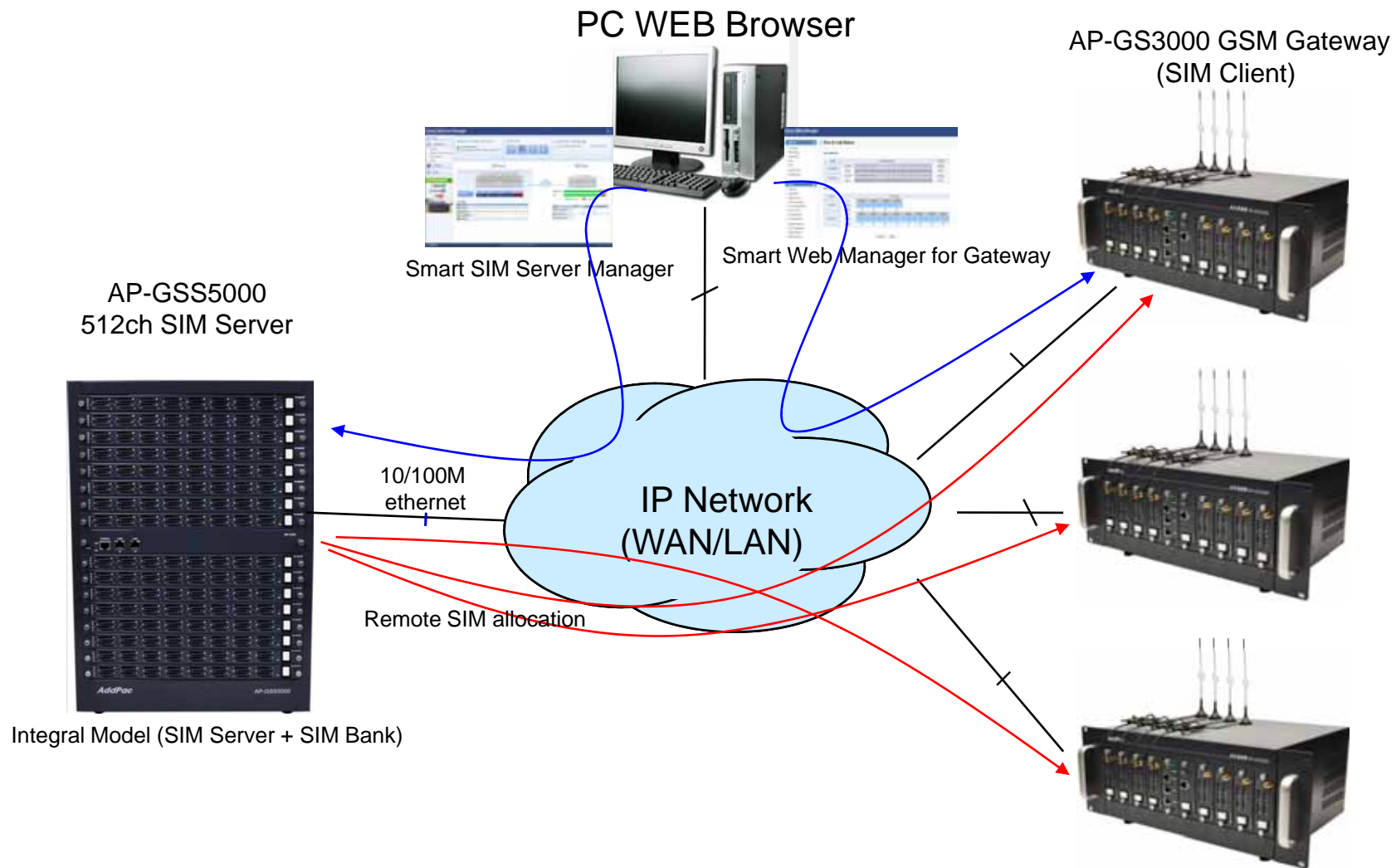
# Contents

- Main Features
- Service Network Diagram
- System Requirement
- Manager Login
- Configuration Management
- Monitoring Management
- System Management

# Main Features

- Support integral service - SIM server and SIM bank.  
(Not need to purchase a separate SIM manager)
- Support user-friendly menu and easy configuration.
- Support auto provisioning via registration (GSM Gateway & SIM Client).
- Minimize packets between server and clients for communication cost effective
- Support multi carriers for cost effective service.
- Support powerful scheduling policy.
- Support auto detection of SIM block.
- Support powerful rotation policy for avoiding SIM block.
- Support manual and auto IMEI change.
- Support remote real-time USSD query.
- Support remote real-time modem status query.
- Support various call statistics .

# Service Network Diagram

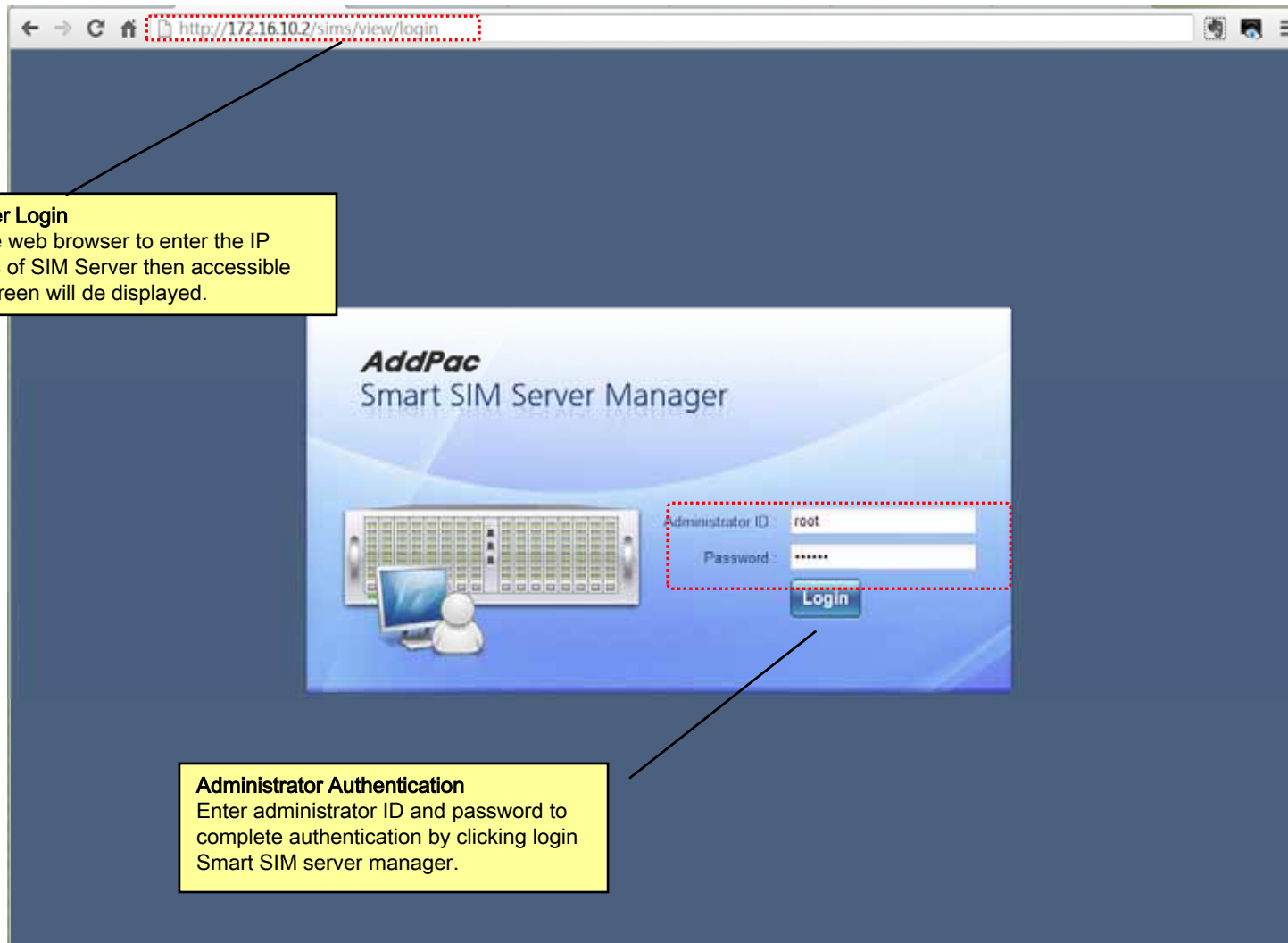


# System Requirement

## Smart SIM Server Manager

- Windows XP, Vista, Windows 7, Windows Server 2000/2003
- Linux / Unix Platform
- Microsoft Internet Explorer 7.0 / 8.0 / 9.0
- Google Chrome / Mozilla Firefox / Safari / Opera
- Javascript + HTML supported browser ( Android, iPhone, iPad,... )

# Login



# Main - Help

The screenshot shows the Smart SIM Server Manager web interface. The main content area is titled "Modify Gateway Port & Rule" and contains a form for editing a "Port Group". The "Name" field is set to "Verizon Carrier Port Group" and the "Description" is "Verizon Carrier Port Group(working d". A red dashed box highlights the "SIM Assign Rules" link in the left sidebar, with a blue arrow pointing to a help window. The help window, titled "SIM Assign Rules", provides detailed instructions on how to assign SIM card groups to a port group, including sections for "Select SIM Card Group", "Use Schedule", and "Rotation Type".

**HELP**  
SIM server manager provides HELP for each functions. Click HELP to display new screen and detail description of setup is clearly explained in homepage.

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# Main - Related Links

**Smart SIM Server Manager**  
www.addpac.com

Home  
Configuration  
Gateway  
Gateway Port Group & Rule  
SIM Card Group  
Carrier  
Monitoring  
System

Getting Started GO  
Linked in  
facebook f  
YouTube

**Modify Gateway Port & Rule**  
Apply Cancel

**Port Group**  
Name \* Verizon Carrier Port Group  
Description Verizon Carrier Port Group(working d

+ Add Rule

	Modify	Delete	SIM Card Group	Timezone	Rotat

**SIM Assign Rules**

**Port List**  
Select Gateway: gateway device #1

Name	Port		
1	device #1		0/1
2	gateway device #1		0/2
3	gateway device #1		0/3

**Description**  
This is mobile gateway port group for assigning SIM cards. The gateway port group can be logically grouped by spanning multiple gateways. One or more SIM card group can be allocated to this port group by assigning allocation rules.

**Related Links**  
• SIM Card Group  
• Gateway Port

**Related Links**  
• SIM Card Group  
• Gateway Port

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**Related Links**  
SIM Server manager page provides related link functions. Related links helps easy operation of SIM server by providing link.



# Main

**Smart SIM Server Manager**  
www.addpac.com

Home  
Configuration  
Gateway  
Gateway Port Group & Rule  
SIM Card Group  
Carrier  
Monitoring

Welcome to AddPac SIM Server  
root (Administrator)  
Last Login at April 19 11:27 AM by root(127.0.0.1)

**Quick Menu**  
Gateway | GW Port | SIM Card | USSD

**Unread Alarm Message**  
sim card detached from server... 2013-04-24 20:52:23

**SIM Server**

AP-G3000

Total	Inserted	Registered	Unregistered	Blocked
512	500	480	18	2

AP-G3000

Status \ Slot	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Inserted	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Registered	14	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Unregistered	2	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Blocked	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gateway : 18  
Port : 470

Registered (Green) | Unregistered (Red)

Name	Total	Registered	Unregistered
GSM1000 RnD	32	30	2
GSM2000 HQ	32	30	2
GSM3000 Asia	-	-	-

**Alarm Message**  
It displays SIM server system errors

**Main Menu**  
Through left "Main Menu", setup SIM allocation policy.

**Short Cut**  
A short cut link.

**Status**  
It displays current SIM server system major status

# Main - Alarm History

Smart SIM Server Manager  
www.addpac.com

Home  
Configuration  
Gateway  
Gateway Port Group & Rule  
SIM Card Group  
Carrier  
Monitoring  
System

Getting Started **GO**

Linked in  
facebook  
YouTube

Welcome to AddPac SIM Server  
root (Administrator)  
Last Login at April 19 11:27 AM by root(127.0.0.1)

Quick Menu  
Gateway  
GW Port  
SIM Card  
USSD

Unread Alarm Message 2  
sim card detached from server... 2013-04-24 20:52:23

SIM Server  
SIM Client

**Alarm History**

Search Conditions: Level All Search Ack Alarm Refresh

Event Time	Level	Category	Description
1 2013-04-24 20:52:23	Warning	Gateway	sim card detached from server
2 2013-04-24 20:51:40	Warning	SIM Server	sim card (0/0) blocked by operator ( admin )
3 2013-04-24 20:50:55	Information	SIM Server	sim allocation rule newly added. schedule adjusted !
4 2013-04-24 20:50:52	Information	SIM Server	sim card (0/0) ussd service ( balance query ) completed !

Unregistered  
2  
2  
-

Displaying 1 - 4 of 4  
Version: 1.0.130423

## Alarm History

Main page displays alarm message. Click Unread Alarm Message to display alarm history page at the bottom. It also displays SIM server system errors.

# Main – Quick Menu

The screenshot displays the Smart SIM Server Manager web interface. The top navigation bar includes 'Home', 'Configuration', 'Monitoring', and 'System'. The 'Configuration' menu is expanded, showing 'Gateway', 'Gateway Port Group & Rule', 'SIM Card Group', and 'Carrier'. A 'Quick Menu' is highlighted with a red dashed box, containing icons for 'Gateway', 'GW Port', 'SIM Card', and 'USSD'. A mouse cursor is hovering over the 'Gateway' icon. Below the Quick Menu, a blue arrow points to the 'Gateway' section of the main content area, which is also enclosed in a red dashed box. This section contains a table with the following data:

Port	Name	Gateway Group	IP Address	Status	Active Calls	SIM Card			Statistics	
						Total(Equip)	Assigned	Registered	ASR(success/total)	ACD(sec)
	GS3000(gsm-gat...	default_group	172.16.10.1	Connected	4 (1)	1	1	96.0% (48/50)	10	
	gsm-gateway #1	default_group	172.16.30.99	Disconnected	8 (2)	2	1	84.3% (59/70)	8	
	gateway #2	default_group		Disconnected	0 (0)	0	0	0% (0/0)	0	

The interface also shows an 'Unread Alarm Message' for 'sim card detached from server...' dated 2013-04-24 20:52:23. A yellow callout box at the bottom left provides a definition for the Quick Menu.

## Quick Menu

A short cut link for favorite. It provides Extension / Gateway List / Gateway Port / SIM Card / USSD Service cut link to improve the convenience of user.

# Main – Follow Us

The screenshot shows the 'Smart SIM Server Manager' web interface. On the left is a navigation menu with 'Home', 'Configuration', 'Monitoring', and 'System'. The main content area includes a 'Welcome' message, a 'Getting Started' button, and social media links for LinkedIn, Facebook, and YouTube. A table displays SIM card status for AP-G3000. A 'SIM Client' section shows a server rack. A yellow box at the bottom left contains the text 'Follow Us' and a paragraph. Red dashed boxes highlight the social media links, the Facebook page, and the YouTube video. Blue arrows point from the social media links to their respective content.

**Getting Started** **GO**

LinkedIn **in**

facebook **f**

YouTube

AP-G3000	Total	Inserted	Re...				
Status   Slot	0	1	2	3	4	5	6
Inserted	18	18	18	18	18	18	18
Registered	14	17	17	17	17	17	17
Unregistered	2	1	3	1	1	1	1
Blocked	2	0	0	0	0	0	0

**Follow Us**  
You may check AddPac product information, solution and etc. through Linked, Facebook, YouTube.

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# Configuration - Gateway

The screenshot displays the 'Smart SIM Server Manager' web interface. The main content area is titled 'Gateway' and features a table with the following data:

Name	Description	Status	IP Address	Port Count
default_group	desc	Registered	172.16.10.1	32
GS3000(gsm gateway)	HQ gateway	Registered	172.16.10.1	32
gateway #2		Unregistered	172.17.50.22	32
gsm gateway #1	gateway description	Unregistered	172.16.30.99	96

## Gateway

Shows gateways and its group configuration. Each gateway have one or more slot & port and is configured to register SIM server

# Configuration - Gateway Port Group & Rule

**Smart SIM Server Manager**  
www.addpac.com

Home  
Configuration  
Gateway  
Gateway Port Group & Rule  
SIM Card Group  
Carrier  
Monitoring  
System

Getting Started **GO**

Linked in  
facebook  
YouTube

AP-G3000  
Status | Slot  
Inserted  
Register  
Unregister  
Blocked

Welcome to Smart SIM Server Manager  
www.addpac.com

Home  
Configuration  
Gateway  
Gateway Port Group & Rule  
SIM Card Group  
Carrier  
Monitoring  
System

Getting Started **GO**

Linked in  
facebook  
YouTube

AP-G3000  
Status | Slot  
Inserted  
Register  
Unregister  
Blocked

### Add Gateway Port Group & Rule

Apply Cancel

Port Group  
Name \* working day rule  
Description mon-Fri 08:00 - 17:00

Add Rule

	Modify	Delete	SIM Card Group	Timezone	Rotation Type
1			kt sim group	MON/TUE/WED/THU/FRI/ (08:00-17:00)	Period-Interval based rotation [...]

SIM Assign Rules

Port List

Name	Port
1 gsm gateway #1	0/5
2 gsm gateway #1	1/0
3 gsm gateway #1	1/2

Allowed Ports List

Name	Port
1 gsm gateway #1	0/4
2 gsm gateway #1	0/5
3 GS3000(gsm gateway)	0/7
4 gsm gateway #1	1/1

Port Group Members

Description  
This is mobile gateway port group for assigning SIM cards. The gateway port group can be logically grouped by spanning multiple gateways. One or more SIM card group can be allocated to this port group by assigning allocation rules.

Related Links  
• SIM Card Group  
• Gateway Port

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## Gateway Port Group & Rule

Define sim card allocation rule for gateway port. Each sim group may have different time zone and rotation policy ( period-interval, call-count and call-duration )

# Configuration - Gateway Port Group & Rule

The screenshot displays the Smart SIM Server Manager web interface. The navigation menu on the left includes Home, Configuration, Gateway, Gateway Port Group & Rule, SIM Card Group, Carrier, Monitoring, and System. The main content area shows the 'Add Gateway Port Group & Rule' configuration page. A 'SIM Assign Rule' dialog box is open, showing the following settings:

- Name: working day rule
- Select SIM card group: SKT sim group
- Day of Week: Sun, Mon, Tue, Wed, Thu, Fri, Sat (all checked)
- Use Schedule:  (checked)
- Time: 08:00 ~ 17:00
- Rotation Type:
  - None Rotation
  - Period interval based rotation: Always rotate SIM by every 10 minutes
  - Call-Count based rotation: If call count in a SIM exceeds 10 then I will take over the next one
  - Call-Duration rotation: If call duration in a SIM exceeds 10 minutes, then rotate next one
- Rotation Option:
  - Auto balance check before switching
  - IMEI auto change with SIM rotation

The dialog box has 'Apply' and 'Cancel' buttons at the bottom right. The main content area also has 'Apply' and 'Cancel' buttons. The footer of the interface includes the AddPac logo, copyright information (Copyright © AddPac 1999-2013 All Rights Reserved), and the version number (Version: 1.0.130423).

## Gateway Port Group & Rule

Define sim card allocation rule for gateway port. Each sim group may have different time zone and rotation policy ( period-interval, call-count and call-duration )

# Configuration - SIM Card Group

The screenshot displays the 'Smart SIM Server Manager' web interface. The left sidebar contains a navigation menu with the following items: Home, Configuration, Gateway, Gateway Port Group & Rule, SIM Card Group, and Carrier. The 'SIM Card Group' item is highlighted with a red dashed box and a mouse cursor. The main content area shows the 'SIM Card Group' configuration page, which includes a table with the following data:

	Cards	Modify	Delete	Name	Description	SIM Count	Date Created
1				kt sim group	kt sim group ( 08:00 ~ 18:00 )	5	2013-04-20 06:00:02
2				SKT sim group	SKT sim group	0	2013-04-22 18:30:11
3				Verizon	verizon sim card group desc	0	2013-04-19 11:28:08

Below the table, there are social media links for LinkedIn, Facebook, and YouTube, and a 'Getting Started' button. The footer of the interface contains the AddPac logo, copyright information (Copyright © AddPac 1999-2013 All Rights Reserved), and the version number (Version: 1.0.130423).

## SIM Card Group

One or more sim card can be grouped by SIM Card Group and also be used in the Port Group & Rule.



# Configuration - Carrier

The screenshot displays the Smart SIM Server Manager web interface. The left sidebar contains navigation options: Home, Configuration, Gateway, Gateway Port Group & Rule, SIM Card Group, Carrier, Monitoring, and System. The main content area shows the 'Carrier' configuration page with a table of carriers and a 'Modify Carrier' form.

Cards	Modify	Delete	Name	Description	SIM Count	Date Created
1			kt carrier	kt carrier desc	1	2013-04-19 14:35:25
2			SKT carrier	SKT carrier desc	4	2013-04-19 14:35:30

**Modify Carrier**

Apply Cancel

**General**

Name \* kt carrier

Description kt carrier desc

**USSD Setting**

Balance String \*88

Balance Get Request String \*990

**Tariff Policy**

First Charge 60 sec Rate 0.5

Second Charge 50 sec Rate 0.4

**Block Policy**

Block SIM if CCF( consecutive call fail ) count exceeds 3

Define SCD ( short call duration ) as 50 seconds and block if SCD count exceeds 3

**Description:**

This is a carrier related settings and policies. This carrier policy can be applied to each SIM card by assigning carrier at SIM card setting menu.

**Carrier**  
Each SIM Card can be assigned to one carrier. The carrier have various setup policy such as USSD string, tariff and block policy.

# Monitoring - Gateway

Smart SIM Server Manager  
www.addpac.com

Home Configuration Monitoring Gateway Gateway Port SIM Card USSD Service System

Getting Started GO

Linked in facebook YouTube

AP-G3000

Status \ Slot

Inserted Register

Welcome Smart SIM Server Manager  
www.addpac.com

root (Admin) Home Configuration Monitoring Gateway Gateway Port SIM Card USSD Service System

Gateway

Clear Statistics

Gateway Group: All Refresh

Port	Name	Gateway Group	IP Address	Status	Active Calls	SIM Card			Statistics	
						Total(Equip)	Assigned	Registered	ASR(success/total)	ACD(sec)
<input type="checkbox"/>	G33000(gsm gatew	default_group	172.16.10.1	Connected	4 (1)	1	1	93.3% (56/60)	11	
<input type="checkbox"/>	gsm gateway #1	default_group	172.16.30.99	Disconnected	8 (2)	2	1	82.3% (107/130)	13	
<input type="checkbox"/>	gateway #2	default_group	172.17.50.22	Disconnected	4 (0)	0	0	0% (0/0)	0	

Page 1 of 1

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**Gateway**  
Show gateway general information and current status such as network connection, sim card allocation count and port stats ( ASR, ACD )

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# Monitoring - Gateway Port

**Gateway Port**  
Show general gateway port information and monitors which the port has registered and signal strength and port statistics ( ASR, ACD ) Also gateway port control such as restart and changing IMEI number.

Port	Port Group	Description	IMEI	SIM Card Group	SIM Card	Carrier	Operator Name	Status	Signal Stren	ASR(success/total)	ACD(sec)
0/1	KT port group1	KT port group des...	490154203237518	kt sim group	0/5	kt carrier	is a KT99	Registered	📶	96.0% (48/50)	0
0/2	KT port group1	KT port group des...	123434343434	kt sim group	0/1		is a SKT999	Registered	📶	83.3% (50/60)	0
0/3	KT port group1	KT port group des...	133434	kt sim group	0/5	kt carrier	is a KT99	Unregistered	📶	90.0% (9/10)	0
0/4			343432343432032	/			is a KT99	Unregistered	📶	80.0% (8/10)	0
0/5			343432343432032	/			is a KT99	Unregistered	📶	80.0% (8/10)	0
0/6			343432343432032	/			is a KT99	Unregistered	📶	80.0% (8/10)	0
0/7			343432343432032	/			is a SKT123	Unregistered	📶	80.0% (8/10)	0
1/0			343432343432032	/			is a SKT123	Unregistered	📶	80.0% (8/10)	0
1/1			343432343432032	/			is a SKT123	Unregistered	📶	80.0% (8/10)	0
1/2			343432343432032	/			is a KT99	Unregistered	📶	80.0% (8/10)	0

# Monitoring - SIM Card

**Smart SIM Server Manager**  
www.addpac.com

Home  
Configuration  
Monitoring  
Gateway  
Gateway Port  
SIM Card  
USSD Service  
System

Welcome root (Admin)  
Last Log

**SIM Cards**

SIM Card Group: Carrier: Clear SIM Control: USSD Service

Search: Status: All Refresh

Card	Description	SIM Card Group	Carrier	Assigned GW	Assigned Port	Status	Duration(min)	Prepaid Balance	Latest Reply Date	Quota	Remain	AI/R/success/total	ACC(sec)	CCF	SCD
01	kt simcard	kt sim group	kt carrier	GS3000(g...	0/1	Registered	260	is a KT0000	2013-04-26 1...	0	0	96.2% (50/52)	5	2	5
02	SKT si...	kt sim group	SKT car...	gam gate...	0/2	Registered	250	is a SKT9999	2013-04-26 1...	0	0	98.0% (49/50)	5	2	3
02	KT simc...	kt sim group	SKT car...	gam gate...	0/3	Registered	300	is a SKT9999		0	0	100.0% (26/26)	11	0	0
11		kt sim group	SKT car...	gam gate...	0/2	Registered	270	is a SKT9999		0	0	95.6% (65/68)	3	0	0
004		kt sim group	SKT car...	gam gate...	0/2	Registered	310	is a SKT9999		0	0	98.0% (95/98)	3	0	0
210	KT simc...			gam gate...	0/5	Blocked(by Operator)						0% (0/0)	0		
210	KT2 sim...			gam gate...	0/2	Blocked(by CCF)						0% (0/0)	0		

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**Getting Started** GO

Linked in  
facebook f  
YouTube

AP-G3000  
Status \ Slot  
Inserted  
Registered

**SIM cards**  
Show status of SIM card allocation to the gateway port and various mobile information(call duration, balance reply), statistics and block count.  
You can use many sim card related control operations( assign/unassign, USSD service )

# Monitoring - USSD Service

The screenshot displays the 'Smart SIM Server Manager' web interface. The main content area is titled 'USSD Service' and contains a table with the following data:

No.	Card	SIM Card Group	Carrier	Assigned GW	Assigned Port	Status	Prepaid Balance	USSD Code	USSD Reply	Request Status
1	0/5	lt sim group	lt carrier	GS3000(g...		Registered		*511#	MSIDN:8801948785317	Success
2	0/1	lt sim group	SKT car...	gsm gate...		Registered		*511#		Success
3	0/2	lt sim group	SKT car...			Registered		*187#88...		Failed

A yellow callout box at the bottom left of the screenshot contains the following text:

**USSD service**  
Request USSD service for each SIM card and show the response data such as balance check and recharging service.

# System - Alarm History

Smart SIM Server Manager  
www.addpac.com

Home  
Configuration  
Monitoring  
System  
Alarm History  
Administrator

Getting Started GO  
Linked in  
facebook f  
You Tube

**Alarm History**  
Shows system history related to the SIM server, gateway and SIM manager. Administrator can acknowledge one or more events.

Search Conditions: Date 2013-04-19 2013-04-26 Search Ack Alarm Refresh

	Event Time	Level	Category	Description
<input type="checkbox"/>	1 2013-04-24 20:52:23	Warning	Gateway	sim card detached from server
<input type="checkbox"/>	2 2013-04-24 20:51:40	Warning	SIM Server	sim card (0/0) blocked by operator ( admin )
<input type="checkbox"/>	3 2013-04-24 20:50:55	Information	SIM Server	sim allocation rule newly added. schedule adjusted !
<input type="checkbox"/>	4 2013-04-24 20:50:52	Information	SIM Server	sim card (0/5) ussd service ( balance query ) completed !

Displaying 1 - 4 of 4

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# System - Administrator

Smart SIM Server Manager  
www.addpac.com

Home  
Configuration  
Monitoring  
System  
  Alarm History  
  Administrator

Getting Started GO  
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facebook f  
You Tube

**Administrator**  
An administrator creation/change is necessary for SIM server operation. System access control is possible depend on permission level (Administrator / Operator / Monitor)

**Administrator**

Add Administrator Refresh

	Modify	Delete	ID	Name	Level	Description	Date Created
1			admin	administrator	Administrator	administrator desc	2013-04-26 11:33:54
2			root	assistant administr...	Administrator		2013-04-17 20:40:49

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# Thank you!

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