

Smart Web Manager for Multi-SIM GSM Gateway Human Cellular Phone Call Pattern Modeling



AddPac

AddPac Technology

2015, Sales and Marketing

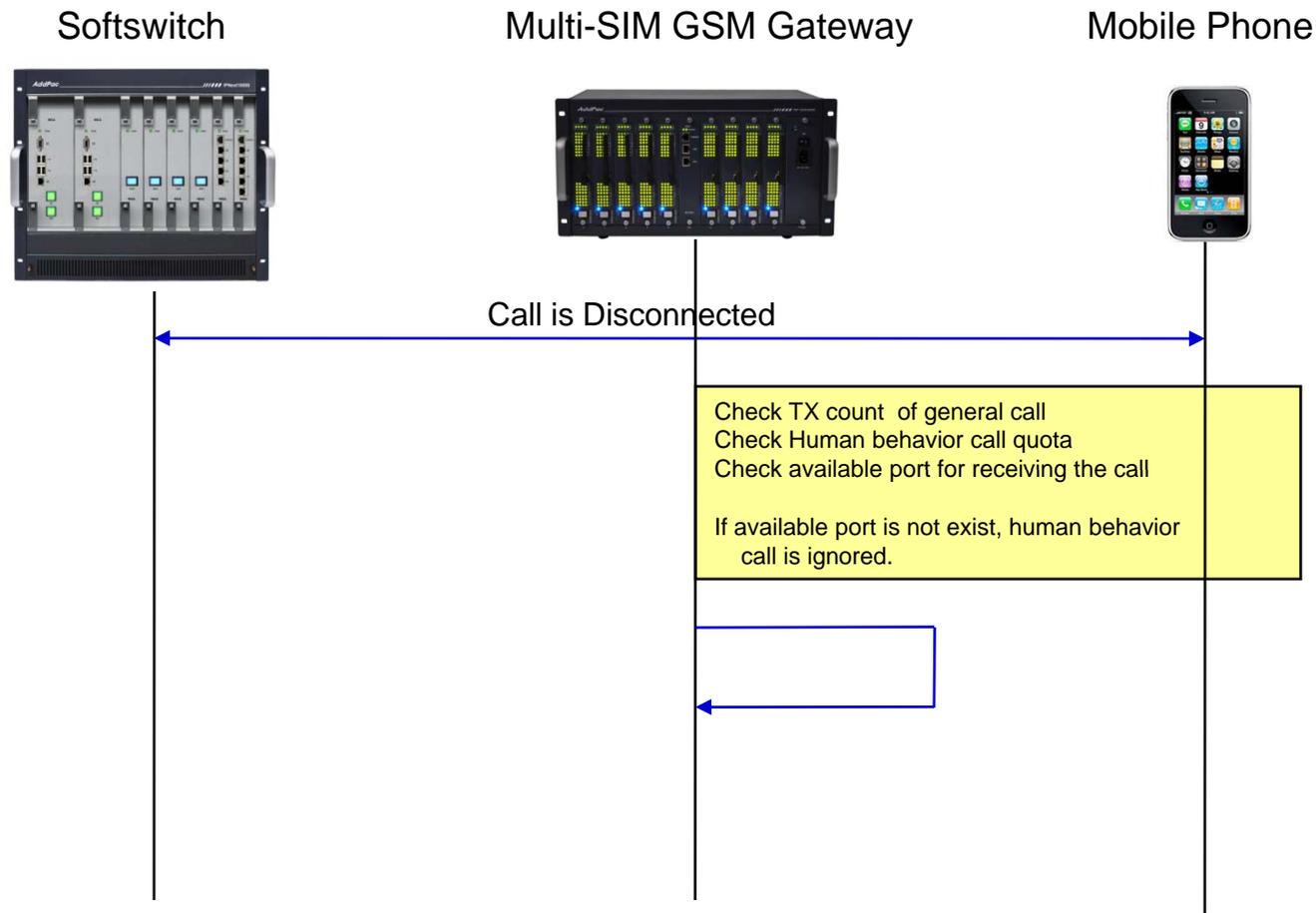
www.addpac.com

Human Behavior Call Pattern Modeling Features

- **Auto Mobile Management Call Generation**
 - Support inter call idle interval timer.
 - Support management quota for intentional inbound call generation
 - After disconnection of a general call, a intentional inbound call is created (the least hunted port is selected).
 - If a management quota is exhausted, no more intentional call is created.
- **Intentional Call Inbound Option**
 - Support automatic random ring timer.
 - Support random call connection time.

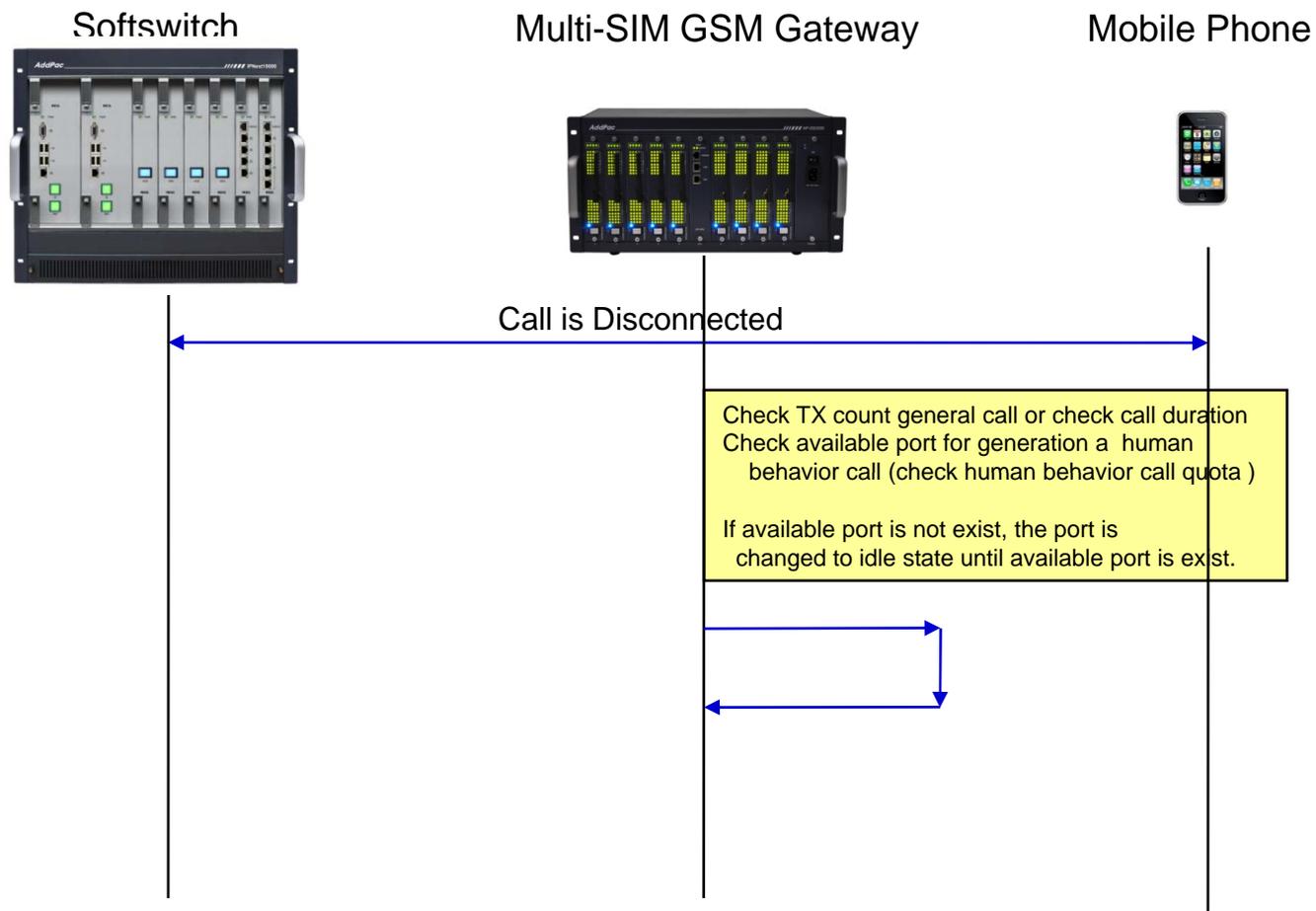
Port Policy for Human Behavior Call (1/3)

- [1] Call TX after calls



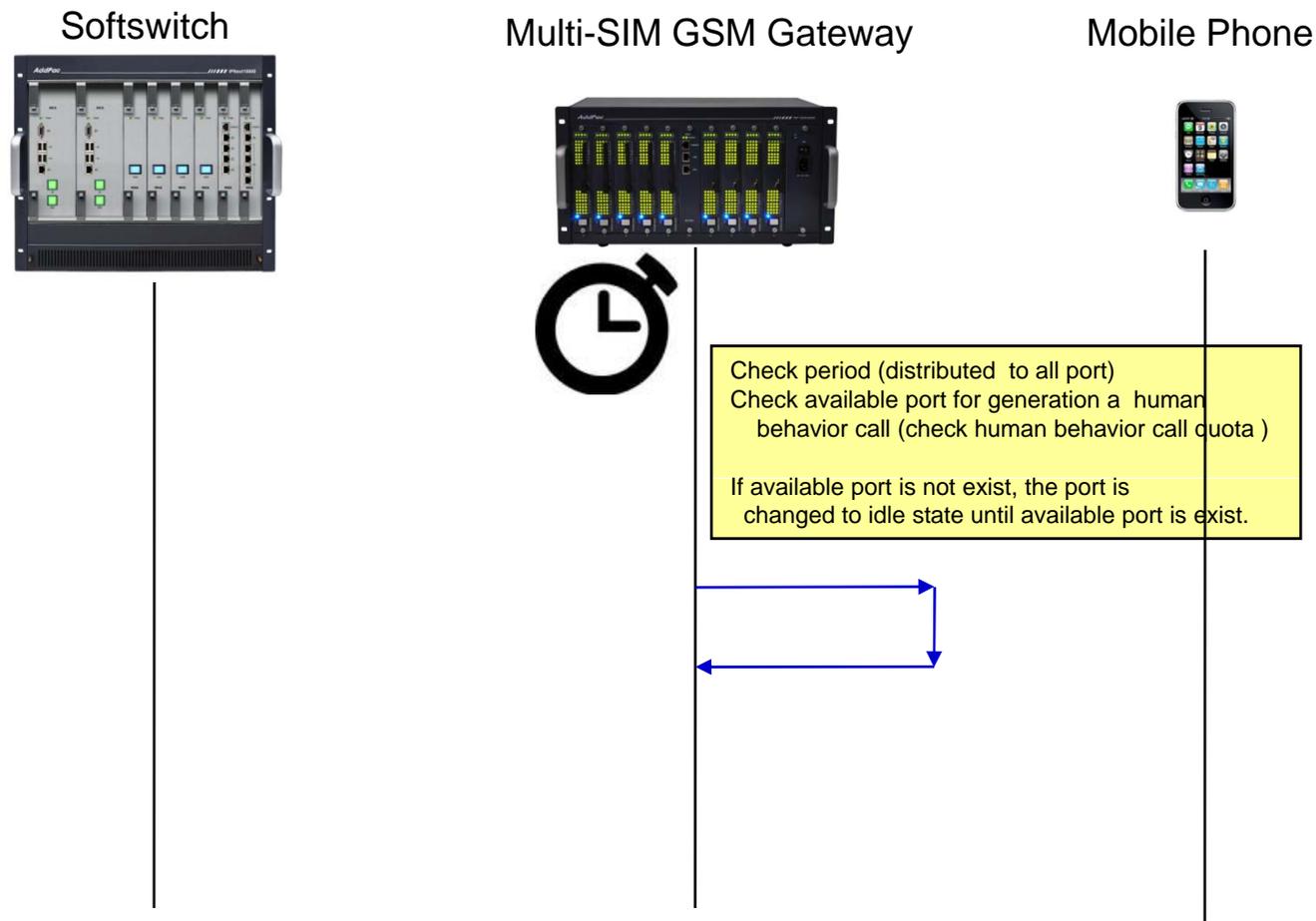
Port Policy for Human Behavior Call (2/3)

- [2] Call RX after calls, Call RX after call duration



Port Policy for Human Behavior Call (3/3)

- [3] Call RX after period



Inter Call Idle Interval

Smart Web Manager
www.addpac.com

System +

Basic +

Advanced -

- Port Control
- Mobile PINs
- Mobile USSD
- multi-SIM Manager
- multi-SIM Balance
- multi-SIM USSD
- Fax
- Service**
- Filtering
- Security
- Radius
- SNMP
- WEB Callback
- Mobile Callback

Miscellaneous -

- Mobile Summary
- System Status
- Mobile Status
- Mobile Port Statistics
- Call Log

Service

Application Services

- Enable Telnet Server Port (default 23, 1-65535)
- Enable HTTP Server Port (default 80, 1-65535)
- Enable FTP Control Port (default 21, 1-65535)
Data Port (default 20, 1-65535)
- Enable Syslog Primary Server Port (default 514)
Secondary Server Port (default 514)
Log Level
Log Command

Timer

- Inter Digit Time sec (default 3, 1-600)
- Mobile Error Delay Disconnect sec(disable 0, 0-600)
- Mobile Inter Call Idle Interval** sec(disable 0, 0-600)

Call Service

- Transfer Hook-Flash Not-assigned
- Hold Hook-Flash Not-assigned

SIP Transfer

- Mode blind Attended

Skype Server

- Use Enable Disable

Hunt

- Algorithm

Mobile Inter Call Idle Interval
- Inter Call Idle Interval timer(sec)

Mobile Call Generator

Smart Web Manager
www.addpac.com

Mobile Call Generator

Inbound Call Receive Option

- Max Connection time(sec)
- random number generation(10 ~ MAX)

Human Behavior Call : Mobile Port Policy

- Call TX after calls
- Call RX after calls
- Call RX after call duration
- Call RX after period

Inbound Call Max Connection Time (sec, default=10, 10~60) random number (10 ~ max-connection-time)

Human Behavior Call Port Policy

- Call TX After Calls (calls, default:1)
- Call RX After Calls (calls, default:1)
- Call RX After Call Duration (mins, default:10)
- Call RX After Period (mins, default:10)

Management SMS Content

Apply

USSD Code

- for getting my phone number
- my phone number is used for automatic inbound call generation

USSD Code for getting my phone number (max carrier = 5)

Carrier ID	USSD String	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

Management Quota(2/3)

Smart Web Manager
www.addpac.com

Mutli SIM Port Management

Rotation Policy

- Rotation policy should be configured to tariff-based.
- Tariff policy should be configured to quota-based (previous page).

multi-SIM Rotation Policy

ID	Policy	Tariff Policy	Time Interval	Period (10~3600 mins)	Auto Switch Threshold		Control
					CCF (count)	CSCD (count / sec)	
0	tariff-based	0	n.a.	n.a.	15	10 / 10	<input type="checkbox"/>

* CCF(Consecutive Call Fails) * CSCD(Consecutive Short Call Duration)
 * operational status : idle(Idle) active(Act) Blocked (BLK) over period(OP) SIM detached(SD) over quota(OQ/OQ) over CCF (OCF) over CSCD (OSD) SIM operation fail (SOF)
 * Oper.: operational status

- Apply rotation policy and tariff policy to the port.
- Confirm the configured rotation policy and remains.

multi-SIM status

Port	Oper.	SIM Bank(0-7)								Rotation ID	Rotation Policy	Remains.	CCF	CSCD
		Act	Idle											
P0:0	Act													
	Ctrl.	<input type="checkbox"/>												
	Group1	<input checked="" type="checkbox"/>	0	quota-based (60 mins)	(3600 secs)	0	0							
	Group2	<input type="checkbox"/>	none	no policy	--									

Management Quota(3/3)

System +

Basic +

Advanced +

Miscellaneous -

• Mobile Summary

• System Status

• Mobile Status

• Mobile Port Statistics

• Call Log

• System Log

• Ping

• Mobile Band

• BTS Selection

• GSM BTS Info

• [CDMA]Mobile BS Info

• multi-SIM Switch Log

• SIM Traffic Monitor

• Mobile Call Generator

LCR -

• Black & White List

• Time Interval

• Tariff Policy

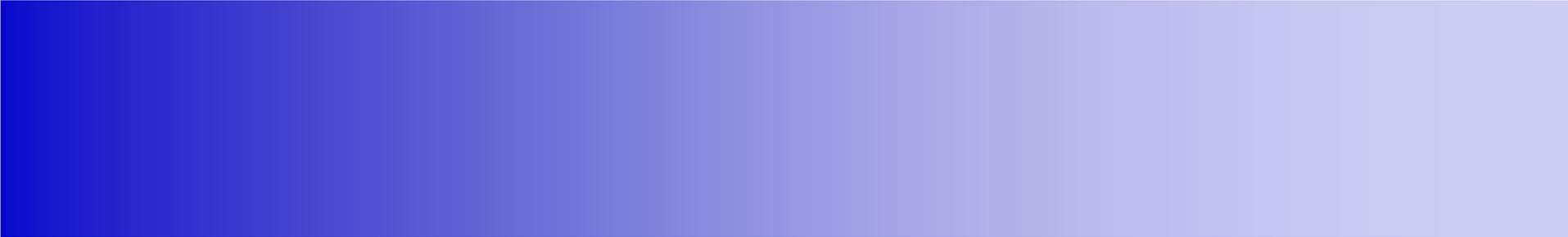
• LCR Test

Mobile Summary

Usage of Management Quota

Mobile Summary

Port	Mobile Status				Voice Quota		Statistics		Call Info				SMS Info			Management Quota				
	Carrier ID	Register	Signal Strength	SIM no Carrier	Quota (sec)	Remains (sec)	ASR(%)	ACD(sec)	Status	Totals	Success	Con. Fails	Con. Short Dur	Status	TxSuccess	TxTotal	RxTotal	Quota(sec)	Remains(sec)	In(sec/cou)
P0:0/0				0	3600	3600												1200	1200	0/0
P0:0/1				0	3600	3600												1200	1200	-/-
P0:0/2				0	3600	3600												1200	1200	-/-
P0:0/3		UNREG(Searching)	0dB	0	3600	3600	0%	0	Idle	0	0	0	0	idle	0	0	0	1200	1200	-/-
P0:0/4				0	3600	3600												1200	1200	-/-
P0:0/5				0	3600	3600												1200	1200	-/-
P0:0/6				0	3600	3600												1200	1200	-/-
P0:0/7				0	3600	3600												1200	1200	-/-
P0:1/0				0	-1	-1												-1	-1	0/0
P0:1/1				0	-1	-1												-1	-1	-/-
P0:1/2				0	-1	-1												-1	-1	-/-
P0:1/3		UNREG(Searching)	0dB	0	-1	-1	0%	0	Idle	0	0	0	0	idle	0	0	0	-1	-1	-/-
P0:1/4				0	-1	-1												-1	-1	-/-
P0:1/5				0	-1	-1												-1	-1	-/-
P0:1/6				0	-1	-1												-1	-1	-/-
P0:1/7				0	-1	-1												-1	-1	-/-



Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail sales@addpac.com