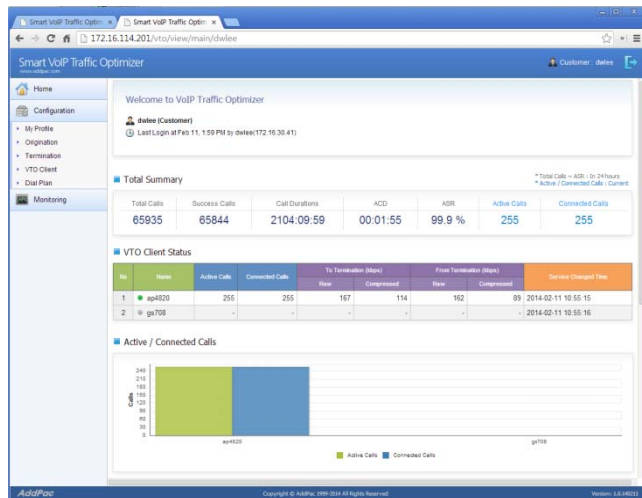


SIM Server Human Behavior Service for Anti-SIM Block



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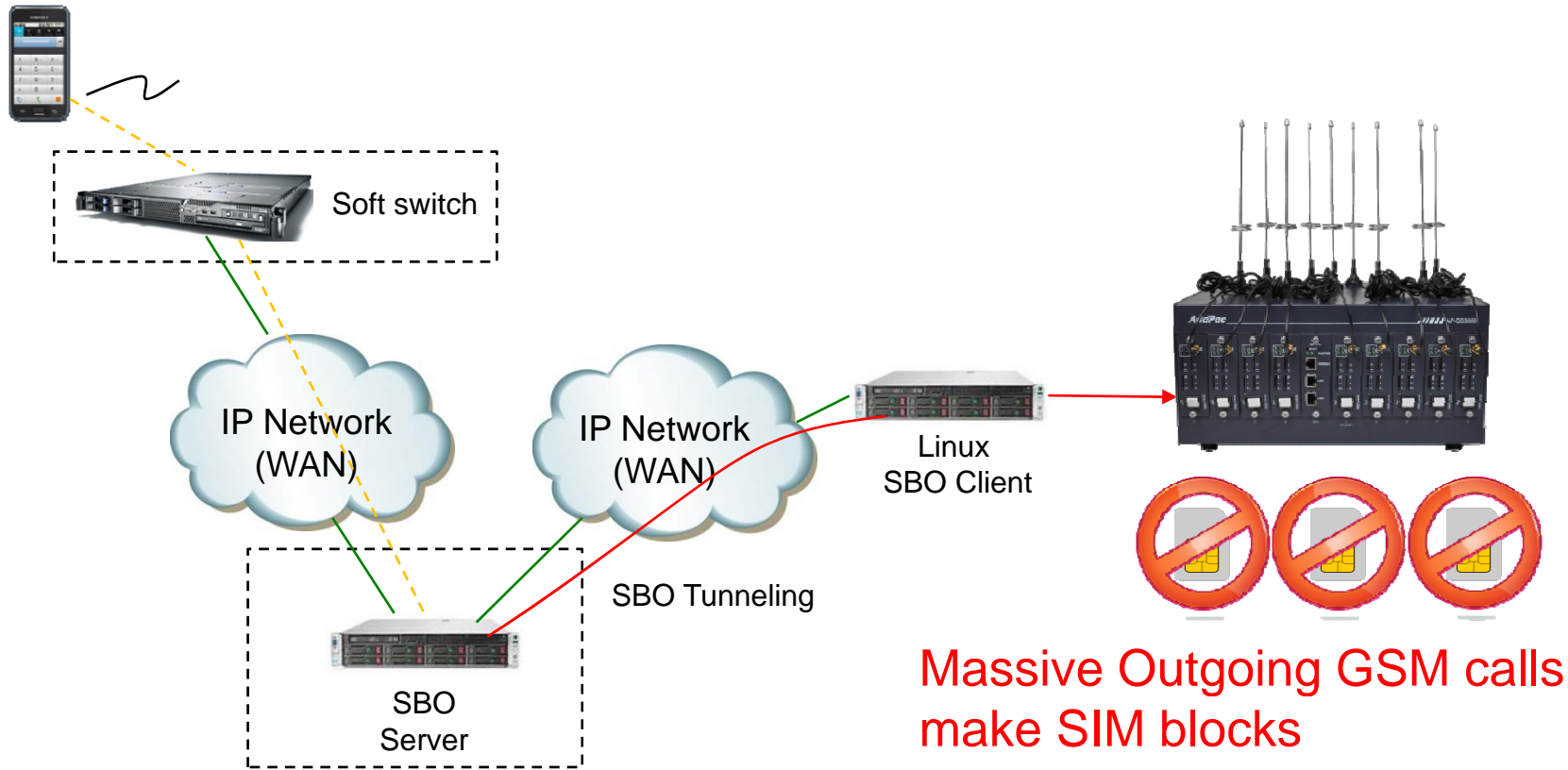
Contents

- Current SIM Block Problems
- Do you want Anti-SIM block?
 - Human Cellular Phone Call Pattern Modeling
- Human Cellular Phone Call Pattern Modeling Solution needs Large SIM Pool
- GSM Gateway + SIM Server with Human Behavior Features
- Network Diagram
- Smart Web Manager for Human Cellular Phone Call Pattern Modeling

Current SIM Block Problems

Other Vendor SBO + normal GSM gateway

Site A (Call Origination)



Do you want Anti-SIM Block?

→ Human Cellular Phone Call Pattern Modeling

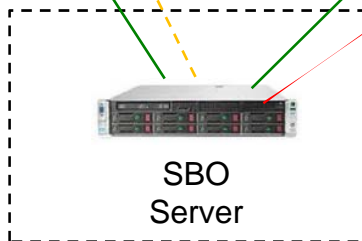
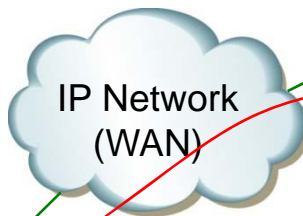
- Human Cellular Phone Call Pattern at GSM Gateway
 - Make Outgoing and incoming call
 - Real Call Connect for Incoming Call
 - Real Call Answer and Different Call Connected Time
 - Set Max Call Connection Time in day (Ex : 1 or 2 hour per SIM during 1 day)
 - Select the Most Idle(least usage) SIM Card for Termination Call
 - IMEI Auto Change (Using Registered IMEI not Fake)
 - Random Outbound Call Idle Interval
 - etc

Human Cellular Phone Call Pattern Modeling Solution needs Large SIM Pool

- By limited GSM call quota on gateway, we need lots of GSM ports and SIMs for handling massive calls.
 - (Solution) Choose Multi-SIM GSM gateway which has human behavior function.
 - (Solution) Choose GSM Gateway + SIM Server which has human behavior function.

GSM Gateway + SIM Server with Human Behavior Feature

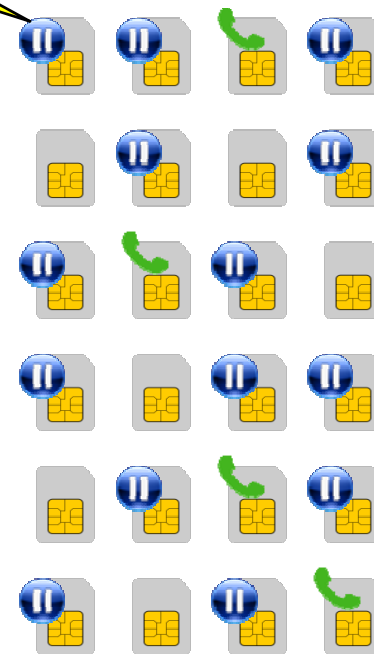
Site A (Call Origination)



SBO Tunneling

Paused SIM by Smart Scheduler

GSM gateway + GSM SIM Server



Smart Human Cellular Phone Call Pattern Feature in SIM Server provides Anti-SIM Block.

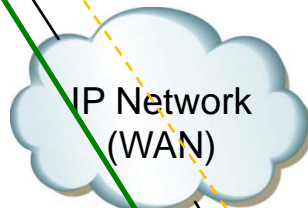
Network Diagram

VTO (VoIP Traffic Optimizer)

Site A (Call Origination)



Soft switch



Call Traffic Control

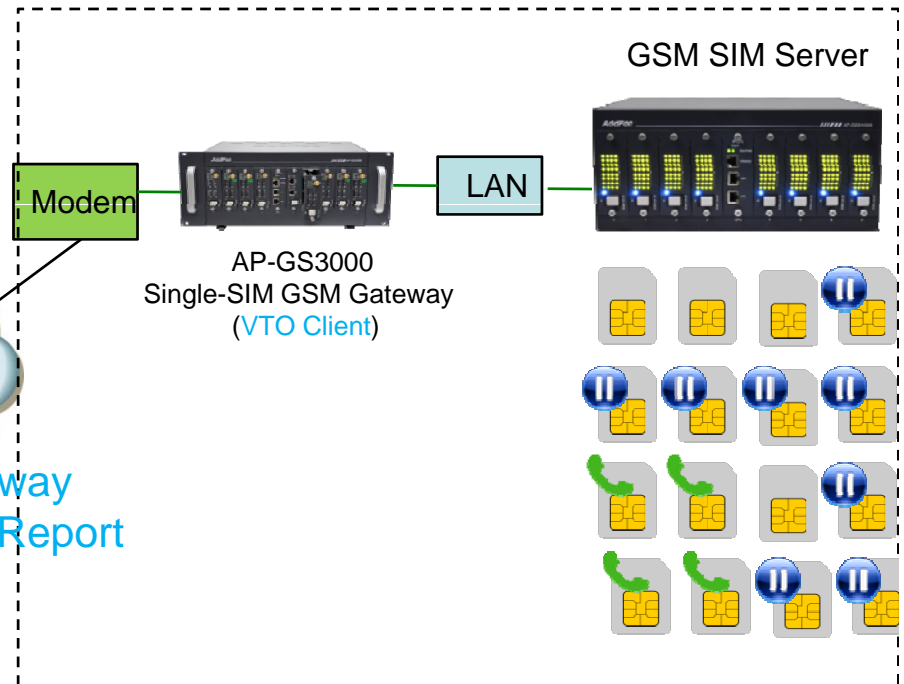


VTO Server




Gateway Status Report

AddPac GSM Gateway VTO Service + SIM Server



Site B (Call Termination)



Smart Web Manager for Human Cellular Phone Call Pattern Modeling (Voice Call + SMS Call)

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 (in max connection time)
- **Auto Mobile Management SMS Generation**
 - Support SMS management quota for intentional inbound SMS.
 - Support SMS transmission period.
 - *For using this features, my phone number should be gathered*

Configuration (1/2)

Smart SIM Server Manager
www.addpac.com

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

Getting Started GO
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Modify Carrier
Apply Cancel

General
Name * SKT
Description SKT

USSD Setting
Balance String
My Phone Number Query String 123456

Use Voice Quota
Voice Quota 100
First Charge 10
Second Charge 10
 Management Quota 1000
 Use SMS Quota
SMS Quota 10
 Use Management SMS Quota

Tariff Policy

USSD Code
- for gathering my phone number
- my phone number is used for automatic inbound call generation

Management voice Quota
- quota for Intentional inbound call generation

Mobile Call Generator

Smart SIM Server Manager
www.addpac.com

Modify Carrier

Apply Cancel

Second Charge 10

Management Quota 1000

Use SMS Quota

SMS Quota 100

Use Management SMS Quota

SMS Quota 100

Transmit Period 100 (min)

Content Hello, world!!

Restore Policy N/A

Inter Call Idle Interval 5 (sec)

Management Call Max Connection Time 100 (sec)

SMS Configuration for Human Behavior
- Quota
- Period
- Content

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

Inbound Call Receive Option
- Max Connection time(sec)
- random number generation(10 ~ MAX)

Active Human Behavior Call Status

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Gateway
Gateway Port
SIM Card
USSD Service
SIM Data Traffic
Human Behavior Statistics
System

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Human Behavior Statistics

Search: Gateway N/A Refresh Clear Statistics

Port	Carrier	Assigned GW	Active Call		Call		Outbound Call			
			Direction	Duration	Quota	Remains	Try	Success	AVG Duration	Total Duration
<input type="checkbox"/> 0/0	SKT				1000	1000	0	0		
<input type="checkbox"/> 0/1	SKT	GS3000		00:00:11	1000	1000	0	0		
<input type="checkbox"/> 0/2	SKT				1000	1000	0	0		
<input type="checkbox"/> 0/3	SKT	GS3000		00:00:11	1000	860	2	2	00:00:15	00:00:30
<input type="checkbox"/> 0/4	SKT	GS3000			1000	1000	0	0		
<input type="checkbox"/> 0/5	SKT				1000	1000	0	0		
<input type="checkbox"/> 0/6	SKT				1000	1000	0	0		
<input type="checkbox"/> 0/7	SKT				1000	1000	0	0		
<input type="checkbox"/> 0/8							0	0		
<input type="checkbox"/> 0/9							0	0		
<input type="checkbox"/> 0/10							0	0		
<input type="checkbox"/> 0/11					0	0	0	0		
<input type="checkbox"/> 0/12					0	0	0	0		
<input type="checkbox"/> 0/13					0	0	0	0		
<input type="checkbox"/> 0/14					0	0	0	0		
<input type="checkbox"/> 0/15					0	0	0	0		
<input type="checkbox"/> 0/16					0	0	0	0		
<input type="checkbox"/> 0/17					0	0	0	0		
<input type="checkbox"/> 0/18					0	0	0	0		

Active Call Status
- Direction (inbound/outbound)
- call duration (sec)

Human Behavior SMS Statistics

Smart SIM Server Manager
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Home
Configuration
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SIM Card
USSD Service
SIM Data Traffic
Human Behavior Statistics
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Human Behavior Statistics

Search: Gateway N/A Ref

Port	Carrier	Assigned GW	Active Call		SMS				
			Direction	Duration	Quota	Remains	Try(out)	Success(out)	Total(in)
<input type="checkbox"/> 0/0	SKT				100	100	0	0	0
<input type="checkbox"/> 0/1	SKT	GS3000	📞	00:00:11	100	100	0	0	0
<input type="checkbox"/> 0/2	SKT				100	100	0	0	0
<input type="checkbox"/> 0/3	SKT	GS3000	📞	00:00:11	100	100	0	0	0
<input type="checkbox"/> 0/4	SKT	GS3000			100	100	0	0	0
<input type="checkbox"/> 0/5	SKT				100	100	0	0	0
<input type="checkbox"/> 0/6	SKT				100	100	0	0	0
<input type="checkbox"/> 0/7	SKT				100	100	0	0	0
<input type="checkbox"/> 0/8		GS3000			0	0	0	0	0
<input type="checkbox"/> 0/9					0	0	0	0	0
<input type="checkbox"/> 0/10					0	0	0	0	0
<input type="checkbox"/> 0/11					0	0	0	0	0
<input type="checkbox"/> 0/12					0	0	0	0	0
<input type="checkbox"/> 0/13					0	0	0	0	0
<input type="checkbox"/> 0/14					0	0	0	0	0
<input type="checkbox"/> 0/15					0	0	0	0	0
<input type="checkbox"/> 0/16					0	0	0	0	0
<input type="checkbox"/> 0/17					0	0	0	0	0
<input type="checkbox"/> 0/18					0	0	0	0	0

SMS Statistics

- Quota
- Remains (count)
- Try Count (outbound)
- Outbound success count
- inbound total count

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Thank you!

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