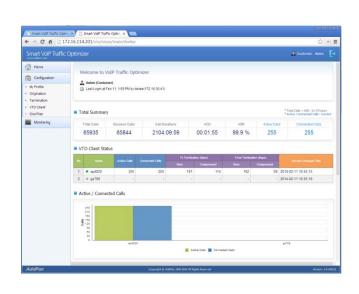
Call Routing Service Features in AddPac VTO + GSM Gateway Service







AddPac Technology

2014, Sales and Marketing

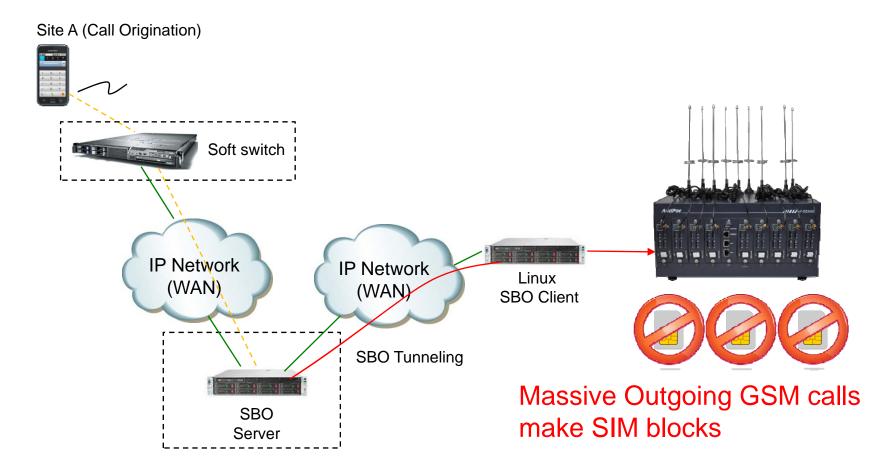
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Current SIM Block Problems

Other Vendor SBO + normal GSM gateway





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

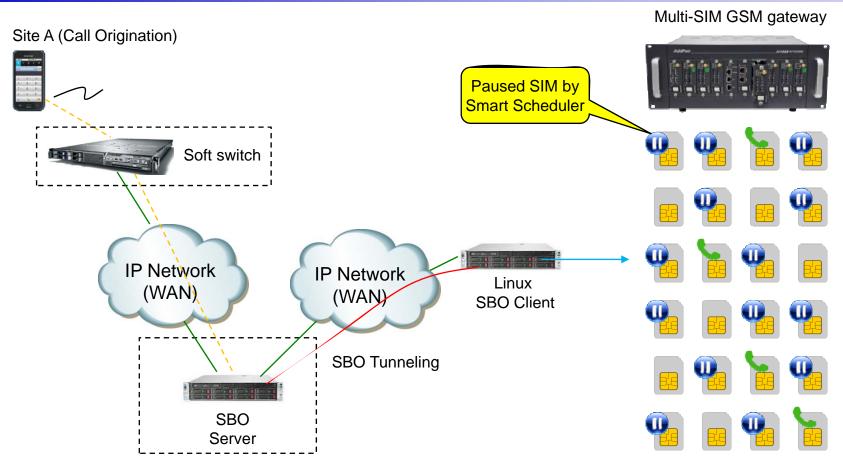


Human Cellular Phone Call Pattern Modeling Solution needs Large SIM Pool

- By limited GSM call quota on gateway, we need lots of GSM ports and SIMs for handling massive calls.
- If you start new GSM call termination business,
 - (Solution) Choose Multi-SIM GSM gateway which has human behavior function.
- If you already have single SIM GSM gateways,
 - (Solution) Upgrade it to support human behavior function and operate more GSM gateways for massive calls.
 - (Problem) It is necessary to support smart call routing from softswitch to gateways.



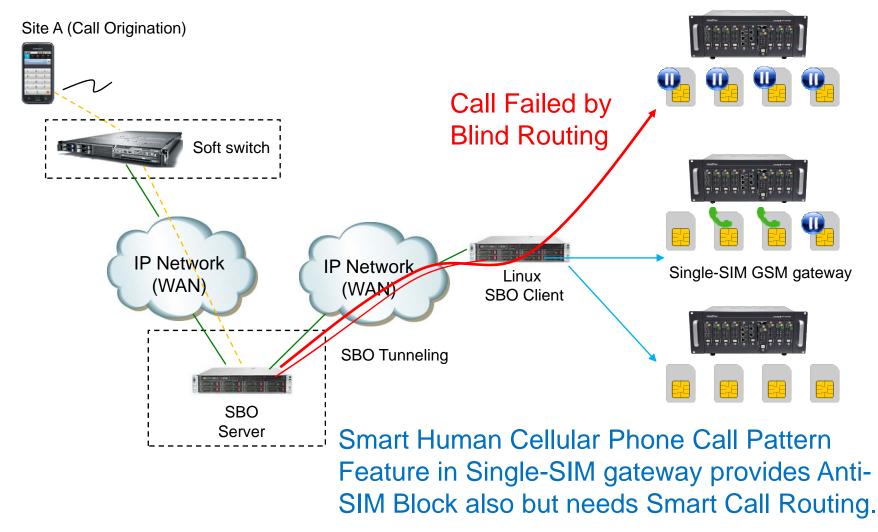
Multi-SIM GSM Gateway with Human Behavior Feature





Smart Human Cellular Phone Call Pattern Feature in Multi-SIM gateway provides Anti-SIM Block. www.addpac.com

Single-SIM GSM Gateway with Human Cellular Phone Call Pattern Feature





Other Vendor SBO

Who provides Smart Call Routing for GSM Gateways?

- AddPac VTO Service provides the Smart Call Routing from Softswitch to GSM gateways.
- Without VTO service, terminating call to unavailable gateway by exhausted call quota will be failed and decrease ASR (Answer Seizure Ratio).
- VTO Server gathering port status from gateways for load balancing and routing to available gateways.
- Also, the VTO server controls incoming call traffic from Softswitch to increase ASR.



Anti-SIM Block Function Roles

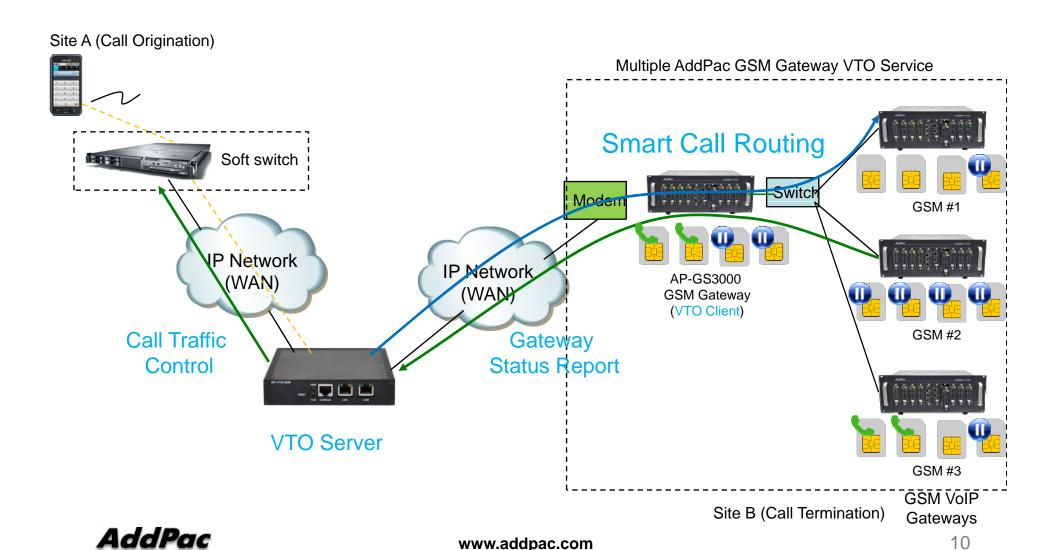
VTO (VoIP Traffic Optimizer) Service

- GSM Gateway
 - Use Human Cellular Phone Call Pattern Model
 - Report Service State to VTO Client
- VTO Client
 - Relay GSM Gateway Service State Information to VTO Server
- VTO Server
 - Act as SIP Proxy Role + VTO Server Role
 - Maintain GSM gateway Service State
 - Call Routing using dial-plan and GSM Service State



Anti-SIM Block Operation Network Diagram

VTO (VoIP Traffic Optimizer) Service



Thank you!

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