

AP-GS3000™

Multi-Port GSM Gateway

High Performance GSM Gateway Solution

New Features Overview



AddPac

AddPac Technology

2010, Sales and Marketing

www.addpac.com

Contents

- Multi-Port Setting for GSM Dial Plan
- Prepaid USSD
- ASR(Answer Seizure Ratio) / ACD(Average Call Duration)
- Radius Protocol for CDR





Multi-Port Setting for GSM Dial Plan

Multi Port Setting for GSM Dial Plan

Prefix Table
It supports to Multi port setting for GSM Port

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GSM Dial Plan / Prefix

Port Information

Port	P0	P1	P2	P3	P4	P5	P6	P7
SLOT 0	GSM	GSM	GSM	GSM				
SLOT 1								
SLOT 2								
SLOT 3								
SLOT 4								
SLOT 5	FXS	FXS	FXS	FXS	FXO	FXO	FXO	FXO
SLOT 6								
SLOT 7								
SLOT 8								

Plan Table

Rule Num	Digits to Insert	Digits to delete	Digit Pattern	Control
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/> <input type="button" value="Add"/>

PREFIX Table

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
<input type="text"/>	<input type="text"/>	<input type="text"/>	N.A.	From: P0:0 To: P0:0	<input type="button" value="Delete"/> <input type="button" value="Apply"/>

* GSM Dial Plan - Assigned Translation-Rule Tag Number : 300 - 399
 * GSM Dial Plan - Assigned VoIP Tag Number : 4584 - 4683

Information

AddPac Technology
 Model : GS3000_G2
 HW Version : 2.0
 SW Version : 8.51.001
 Smart Web Version : 0.4
 Smart Web Build : Sep 29 2010

Voice Interface

G(4) : None : None : None :
 None : S(4)O(4) : None :
 None : None

Protocol : SIP
 Status : Unregistered
 Current Calls : 0
 CallNetwork : Static
 172.17.110.211
 Mac Address : 0002.a4ff.fe30
 Unread Message:
 P0:0(0)
 P0:1(0)
 P0:2(0)
 P0:3(0)

Description

Hot Line Setup

Multi Port Setting for GSM Dial Plan

Before

Index	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
0	T		N.A.	0/0	<input type="checkbox"/>
1	9	T	N.A.	0/0	<input type="checkbox"/>
Delete					
0			N.A.	P0:0	Apply

Before
It supported single port setting only.

After

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
			N.A.	From : P0:0 To : P0:0	<input type="checkbox"/>
Delete					
			N.A.	From : P0:0 To : P0:0	Apply

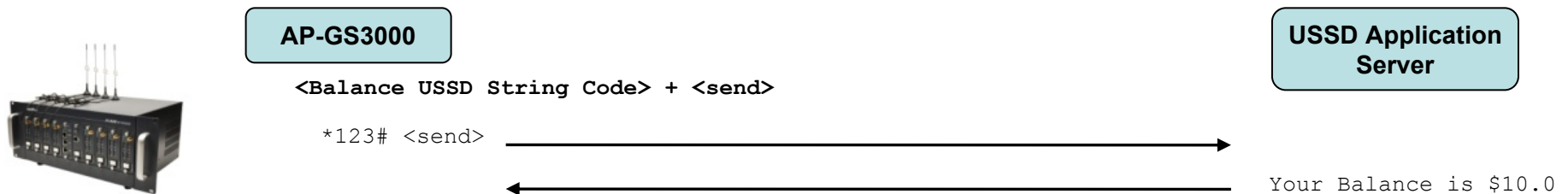
After
It supports multi port setting now.



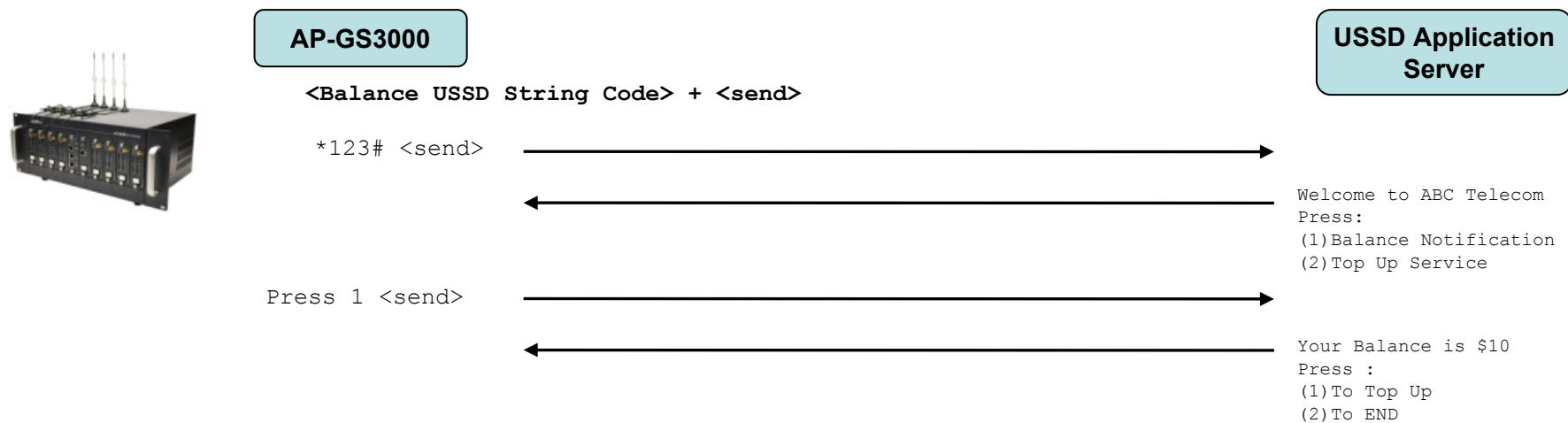
Prepaid USSD

Prepaid Balance USSD

Balance Checking Service Type – 1



Balance Checking Service Type - 2



Prepaid Balance USSD

Global Balance USSD String
It input Balance USSD String Code

- NAT
- NTP
- System Time
- File Browser

Set Port Group / Time
It sets send times of USSD String about each port.

- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension

Checking Port
It selects your wanted ports or all ports

- FXO DialPlan
- GSM Dial Plan
- Static Route
- Hot Line

Mode
It selects USSD Mode between Balance and Recharging.

- Service
- Filtering

USSD Reply
Balance checking message

- Port & Call Status
- System Status
- GSM Status
- GSM Call Statistics
- Call Log
- System Log
- Pin

GSM USSD

Balance checking USSD String : *222# Send Send Time : -1 (sec) Save

Recharging USSD string : *111*

Set Port Group / Time : 4 (Port Group) 1100 (ms)

Port	Mode	Data Code	USSD Reply	Reply Date
<input type="checkbox"/> P0:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:53
<input type="checkbox"/> P0:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:56
<input type="checkbox"/> P0:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:56
<input type="checkbox"/> P0:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:02:15
<input type="checkbox"/> P1:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:58
<input type="checkbox"/> P1:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:01:13
<input type="checkbox"/> P1:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:58
<input type="checkbox"/> P1:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		✔ Send	2010/09/29 22:00:59

Information

AddPac Technology
Model : GS3000_G2
HW Version : 2.0
SW Version : 8.51.001
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010

Voice Interface
G(4) : G(4) : G(4) : G(4) :
None : G(4) : G(4) : G(4) : G(4)

Protocol : H.323
Status : Unregistered
Current Calls : 4
CallNetwork : Static
203.88.70.76
Mac Address: 0002.a407.66cc

Unread Message:
P0:0(0)
P0:1(2)
P0:2(2)
P0:3(2)
P1:0(2)
P1:1(2)
P1:2(2)
P1:3(1)
P2:0(2)
P2:1(1)
P2:2(2)
P2:3(1)
P3:0(2)
P3:1(1)
P3:2(1)
P3:3(2)
P5:0(1)
P5:1(3)
P5:2(1)
P5:3(2)
P6:0(2)
P6:1(2)
P6:2(1)
P6:3(1)
P7:0(1)
P7:1(1)
P7:2(1)
P7:3(1)
P8:0(0)
P8:1(1)
P8:2(0)
P8:3(0)

Reply Date
It shows replied date for USSD.

Prepaid Recharging USSD

Recharging Checking Service



AP-GS3000

<Recharging String> + <Private Code> + <send>
456 + 017179094# <send>

USSD Application Server

\$50.0 refilled

Balance Checking Service Type -2



AP-GS3000

<Recharging String> + <Private Code> + <send>
456 + 017179094# <send>

USSD Application Server

Welcome to ABC Telecom
Press:
(1)Balance Notification
(2)Top Up Service

Press 2 <send>

\$50.0 refilled.
Press :
(1)To END

Prepaid Recharging USSD

Global Recharging USSD String
 It input Recharging USSD String Code

Date Code
 It inputs private code for recharging USSD.

Mode
 It selects Recharging mode.

GSM USSD

Balance checking USSD String : *222# Send Time : -1 (sec)

Recharging USSD string : *111*

Set Port Group / Time 4 (Port Group) 1100 (ms)


Port	Mode	Data Code	USSD Reply	Reply Date
P0:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	Please Check GSM Status	2010/09/29 22:00:53
P0:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 776.18. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:56
P0:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 0.42. Validity 15/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:56
P0:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	There is no response. Please try again	2010/09/29 22:02:15
P1:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 4500.48. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:58
P1:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 1308.32. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:01:13
P1:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 2983.13. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:58
P1:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 581.19. Validity 24/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:59
P2:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <input type="button" value="Send"/>	"Balance Tk. 1209.40. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:59

Information

AddPac Technology
 Model : GS3000_G2
 HW Version : 2.0
 SW Version : 8.51.001
 Smart Web Version : 0.4
 Smart Web Build : Sep 15 2010

Voice Interface
 G(4) : G(4) : G(4) : G(4) :
 None : G(4) : G(4) : G(4) : G(4)

Protocol : H.323
 Status : Unregistered
 Current Calls : 4
 CallNetwork : Static
 203.88.70.76
 Mac Address: 0002.a407.66cc
 Unread Message:
 P0:0(0)
 P0:1(2)
 P0:2(2)
 P0:3(2)
 P1:0(2)
 P1:1(2)
 P1:2(2)
 P1:3(1)
 P2:0(2)
 P2:1(1)
 P2:2(2)
 P2:3(1)
 P3:0(2)
 P3:1(1)
 P3:2(1)
 P3:3(2)
 P5:0(1)
 P5:1(3)
 P5:2(1)
 P5:3(2)
 P6:0(2)
 P6:1(2)
 P6:2(1)
 P6:3(1)
 P7:0(1)
 P7:1(1)
 P7:2(1)
 P7:3(1)
 P8:0(0)
 P8:1(1)
 P8:2(0)
 P8:3(0)

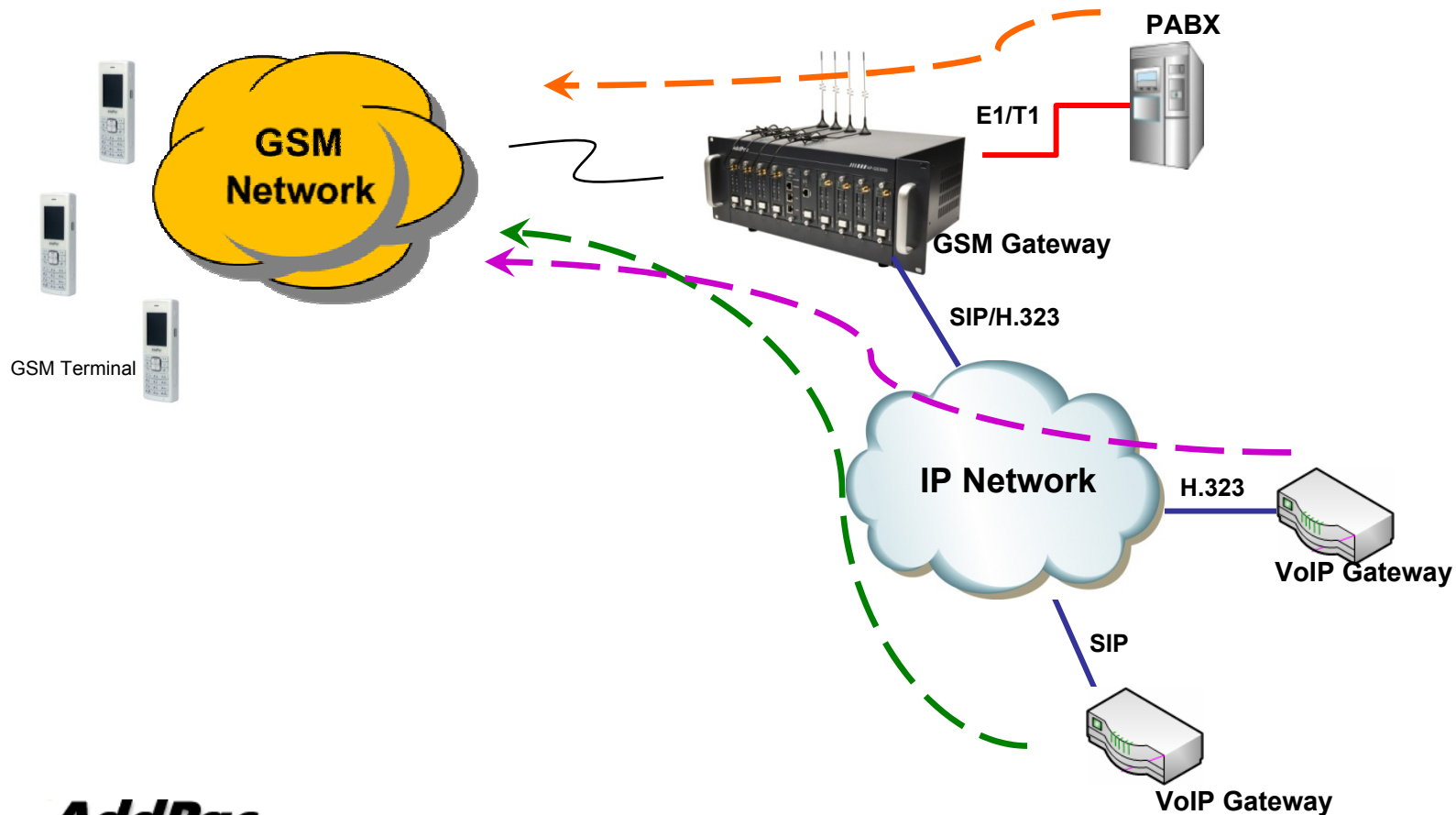


ASR(Answer Seizure Ratio) / **ACD**(Average Call Duration)

ASR

ASR (Answer Seizure Ratio)

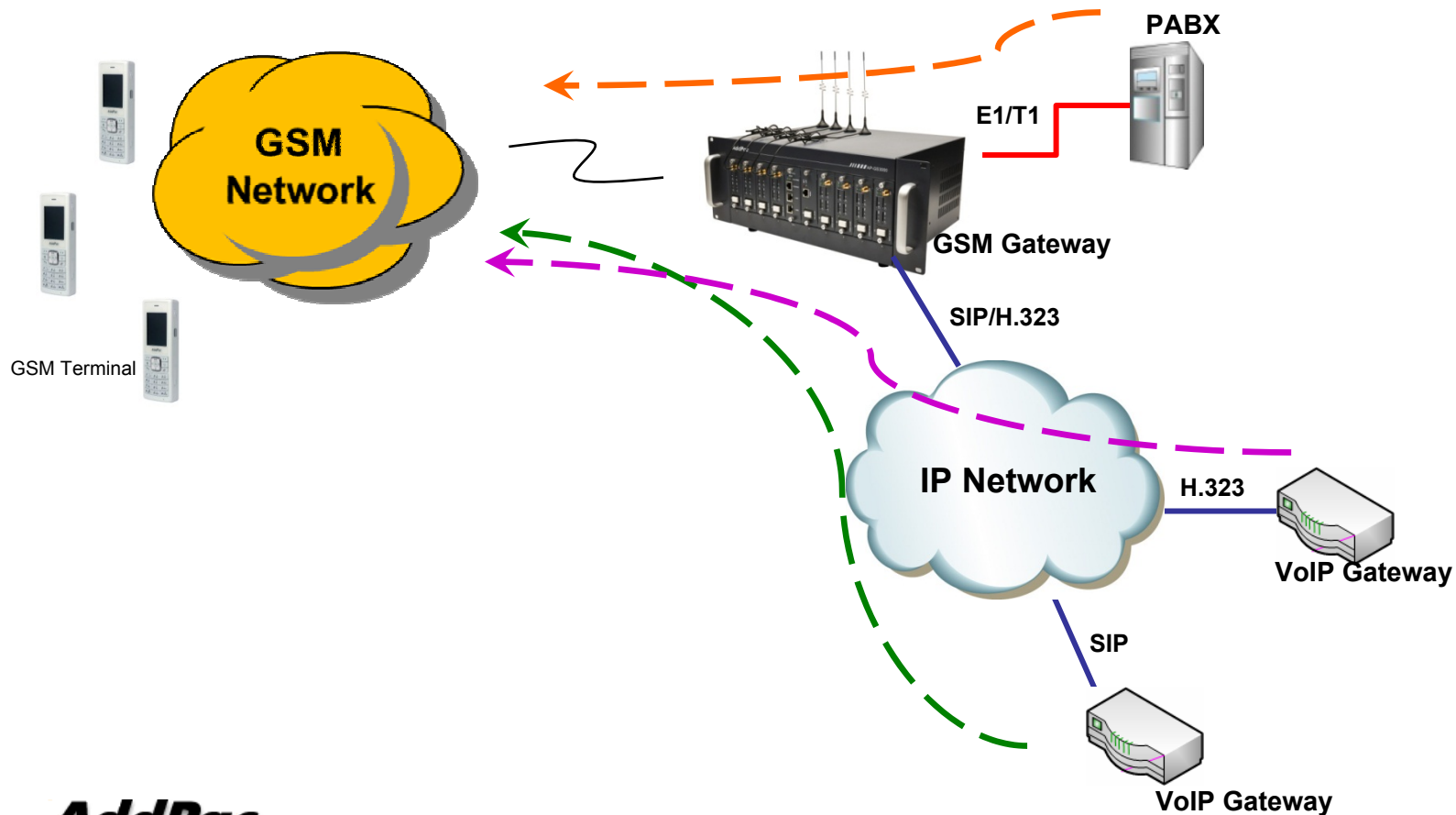
It's calculated by taking the number of successfully answered calls and dividing by the total number of calls about GSM outgoing calls.



ACD

ACD (Average Call Duration)

It's a measure based on CDR to determine traffic demand and forecast call volumes about GSM outgoing calls.



ASR/ACD - WEB

Total GSM Call Statistics
It shows Total ASR and ACD.

GSM Call Statistics
It shows GSM Number, Call count of VoIP or FXS or FXO or E1(T1), ASR and ACD.

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GSM Call Statistics

Total GSM Call Statistics

Total	Total Call Count				Total ASR	Total ACD	ALL Clear
	VOIP	FXS	FXO	E1			
GSM	3020	0	0	0	22%	490	Clear

GSM Call Statistics

Port	GSM Sim Number	Call Count				ASR	ACD	ALL Clear
		VOIP	FXS	FXO	E1			
P0:0		38	0	0	0	28%	596	Clear
P0:1		111	0	0	0	21%	424	Clear
P0:2		116	0	0	0	8%	654	Clear
P0:3		107	0	0	0	24%	394	Clear
P1:0		107	0	0	0	26%	390	Clear
P1:1		116	0	0	0	29%	295	Clear
P1:2		100	0	0	0	26%	467	Clear
P1:3		102	0	0	0	23%	567	Clear
P2:0		108	0	0	0	20%	533	Clear
P2:1		106	0	0	0	27%	421	Clear
P2:2		116	0	0	0	22%	410	Clear
P2:3		119	0	0	0	21%	400	Clear
P3:0		132	0	0	0	7%	654	Clear
P3:1		105	0	0	0	32%	336	Clear

Information

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Model : GS3000_G2
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SmartWeb Version : 0.4
Smart Web Build : Sep 15 2010

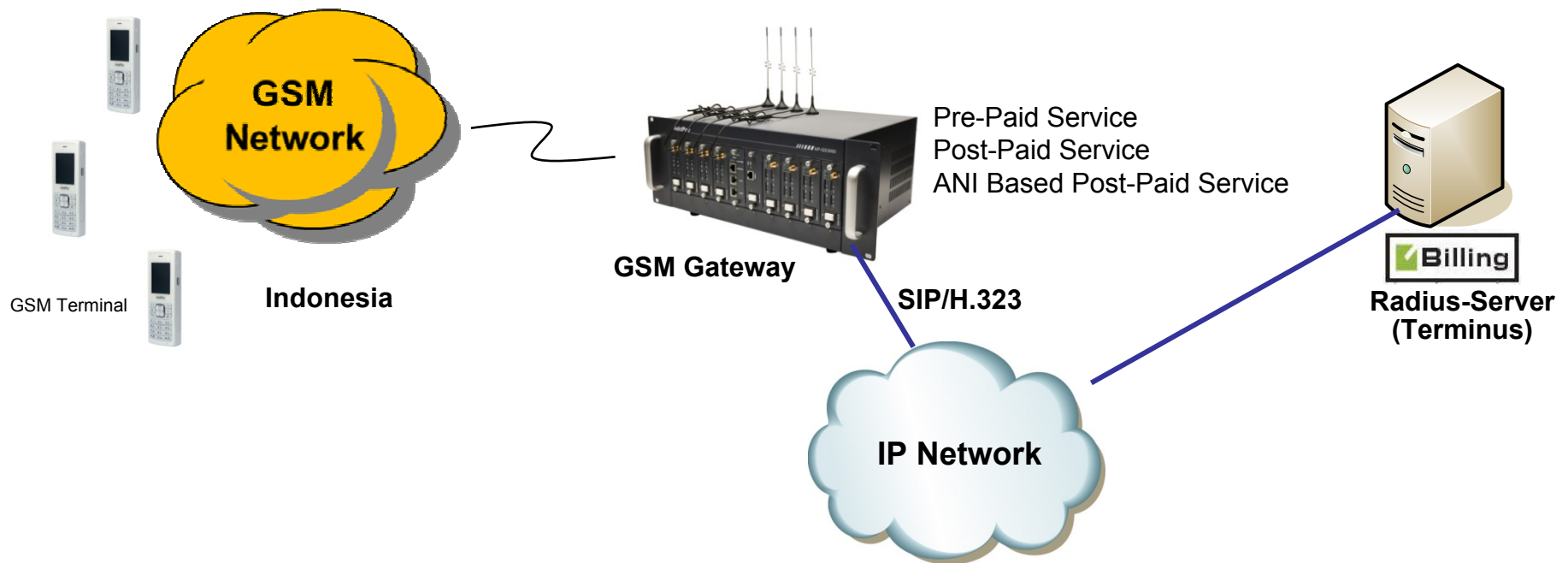
Voice Interface
G(4) : G(4) : G(4) : G(4) :
None : G(4) : G(4) : G(4) : G
(4)

Protocol : H.323
Status : Unregistered
Current Calls : 8
CallNetwork : Static
203.88.70.76
Mac Address: 0002.a407.66cc
Unread Message:
P0:0(0)
P0:1(2)
P0:2(2)
P0:3(2)
P1:0(2)
P1:1(2)
P1:2(2)
P1:3(1)
P2:0(2)
P2:1(1)
P2:2(2)
P2:3(1)
P3:0(2)
P3:1(1)
P3:2(1)
P3:3(2)
P5:0(1)
P5:1(3)
P5:2(1)
P5:3(2)
P6:0(2)
P6:1(2)
P6:2(1)
P6:3(1)
P7:0(1)
P7:1(1)
P7:2(1)
P7:3(1)
P8:0(0)
P8:1(1)

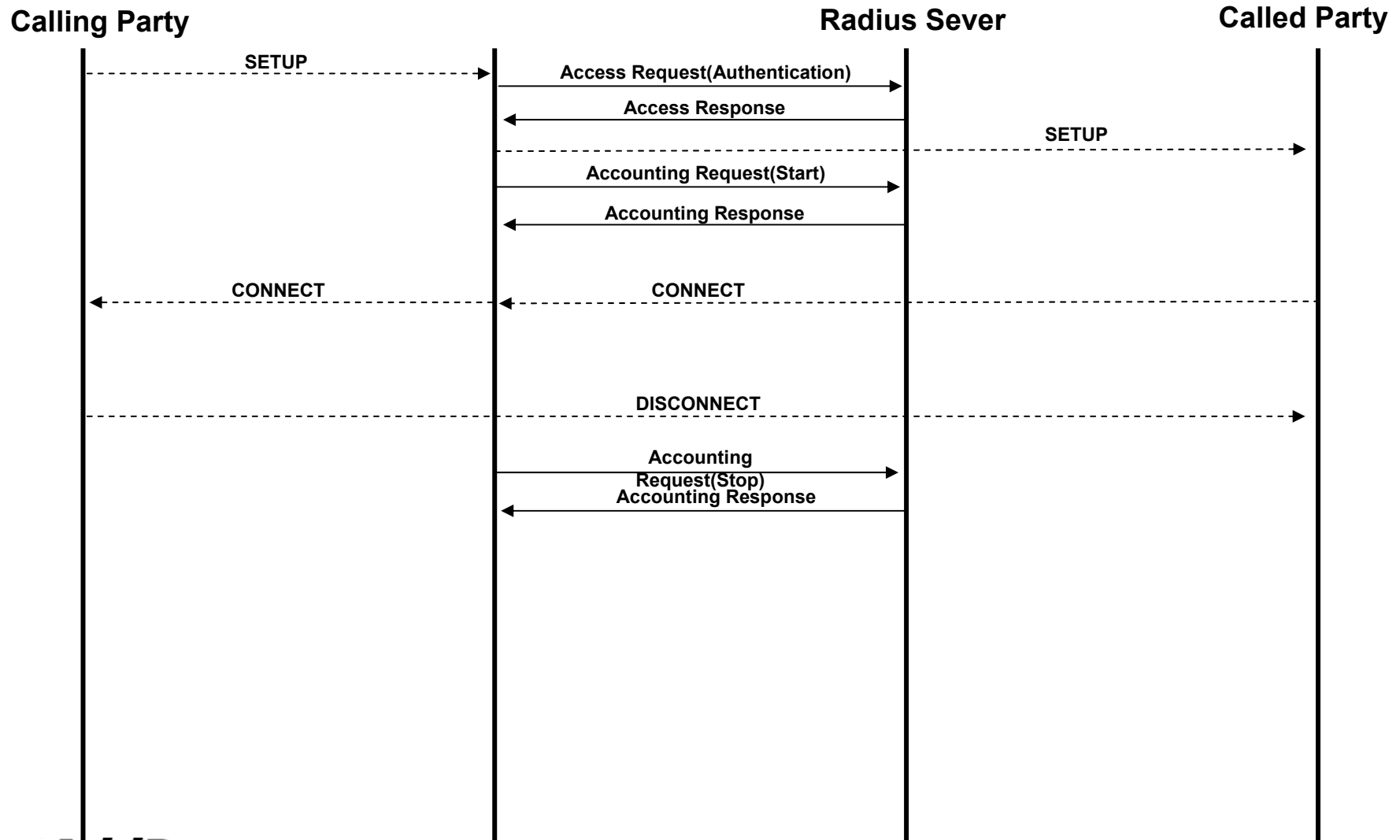


Radius Protocol for CDR

CDR Service Network Diagram



CDR Service Flow Chart



Radius Setup - WEB

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System

- Language
- Server SIP
- Server H.323
- FXO Extension
- GSM Extension
- E1/T1 Extension
- Static Route
- Hot Line
- GSM USSD

Radius Setup

Use Radius Server Yes No

Server Setting

Server IP

Authentication Port (1-65535)

Accounting Port (1-65535)

Authentication

User Name

Password

Radius Secret Key

Direction

Accounting

Telephony Type None Start-Stop Stop-Only

VOIP Type None Start-Stop Stop-Only

Time Out

Retransmit (default 3, 0-100)

Time Out Sec (default 5, 1-60)

Information

AddPac Technology
Model : GS3000_G2
H/W Version : 2.0
S/W Version : 8.51.001
Smart Web Version : 0.4
Smart Web Build : Oct 12 2010

Voice Interface
G(4) : None : None : None :
None : S(4)O(4) : None :
None : G(4)

Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static
60.196.6.39
Mac Address : 0002.a4ff.fe30
Unread Message:
P0:0(0)
P0:1(0)
P0:2(0)
P0:3(0)
P8:0(0)
P8:1(0)
P8:2(0)
P8:3(0)

Description

GSM Gateway Series

Thank you!

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