

# Multi-Port GSM Gateway Series

## New Features Overview



**AddPac**

**AddPac Technology**

2010, Sales and Marketing

[www.addpac.com](http://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

**Smart Web Manager**  
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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
				Delete
				Add

**PREFIX Table**

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
			N.A.	From: P0:0 To: P0:0	Delete
					Apply

**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 : 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

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

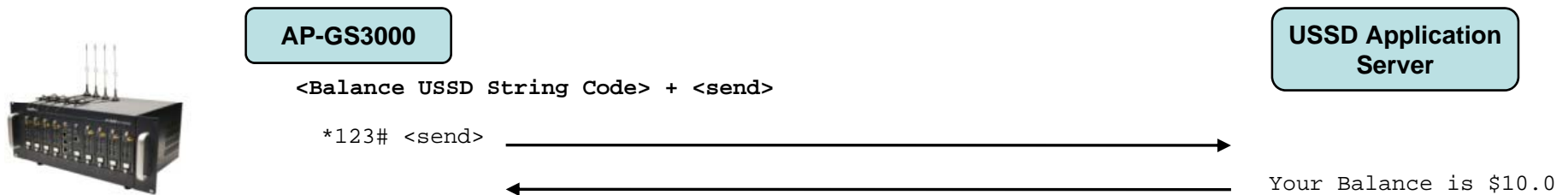




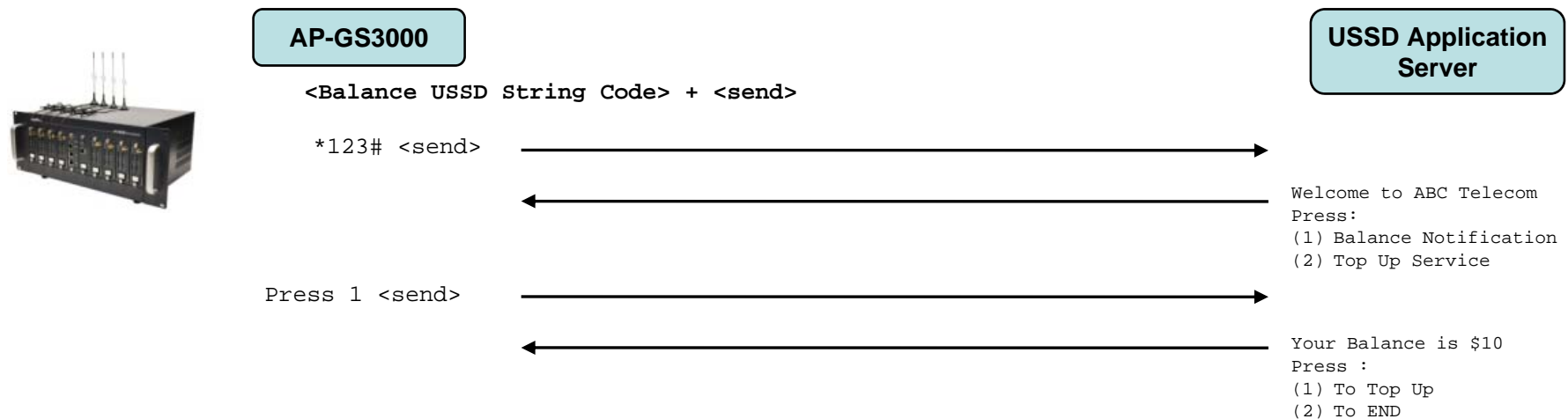
# Prepaid USSD

# 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 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="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="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="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="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="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="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="button" value="Send"/>	*Balance Tk. 2984.13. 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="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
			*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

**Reply Date**  
It shows replied date for USSD.

**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)



# 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
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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:  
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 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)

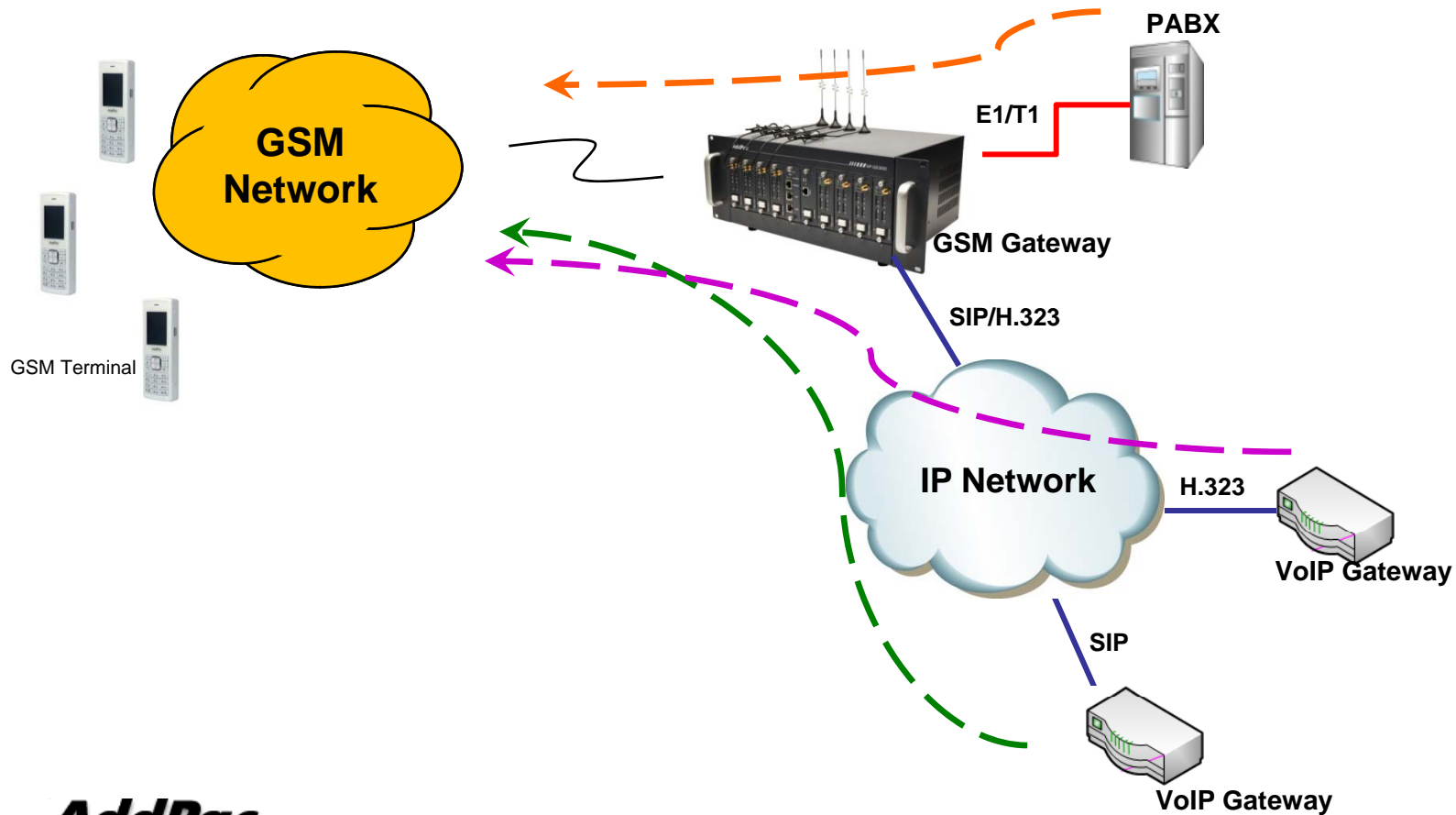


**ASR**(Answer Seizure Ratio) / **ACD**(Average Call Duration)

# ASR

## ASR (Answer Seizure Ratio)

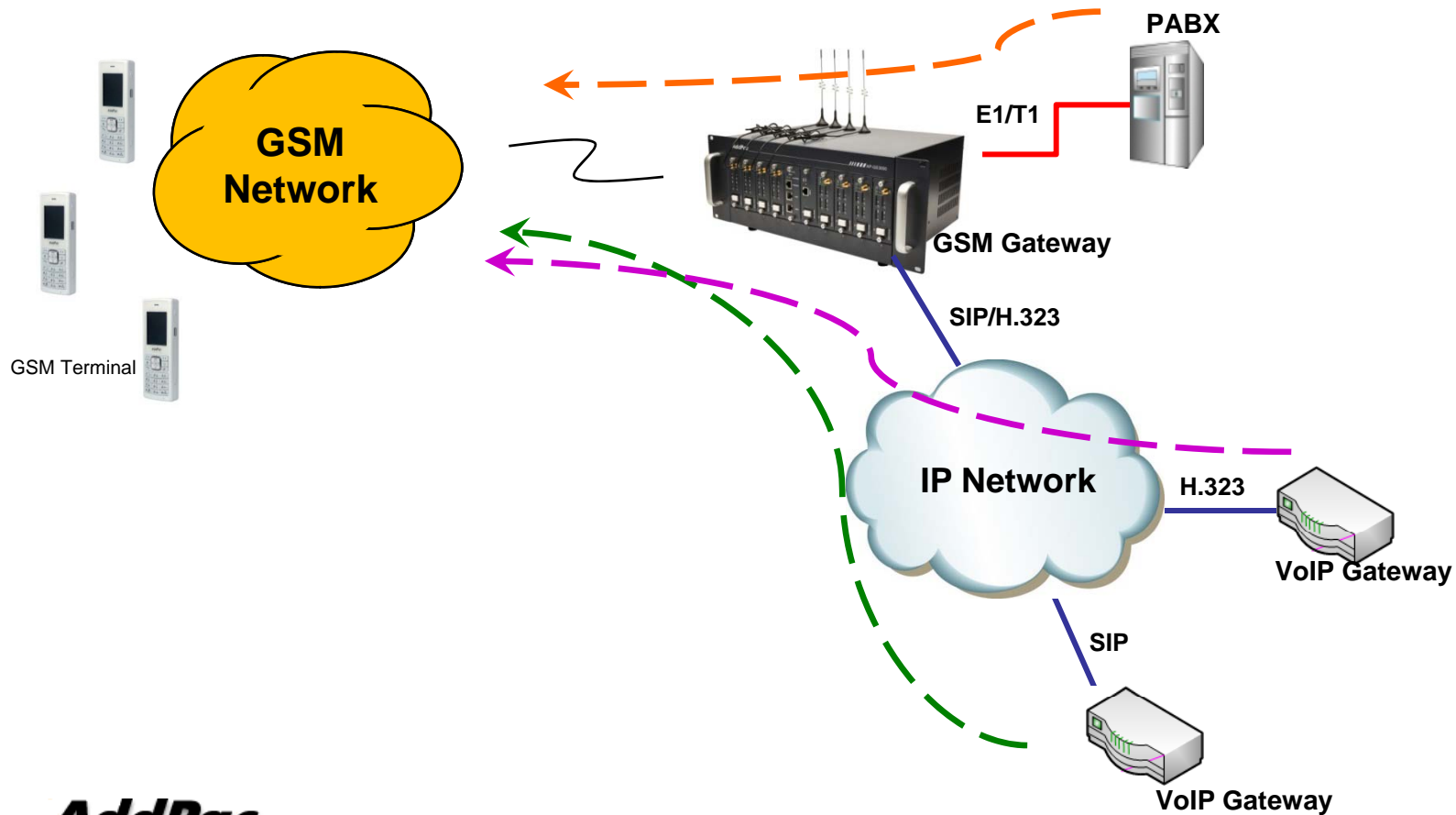
It's calculated by taking the number of successfully answered calls and dividing by the total number of calls about GSM outgoing calls.



# 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.

**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

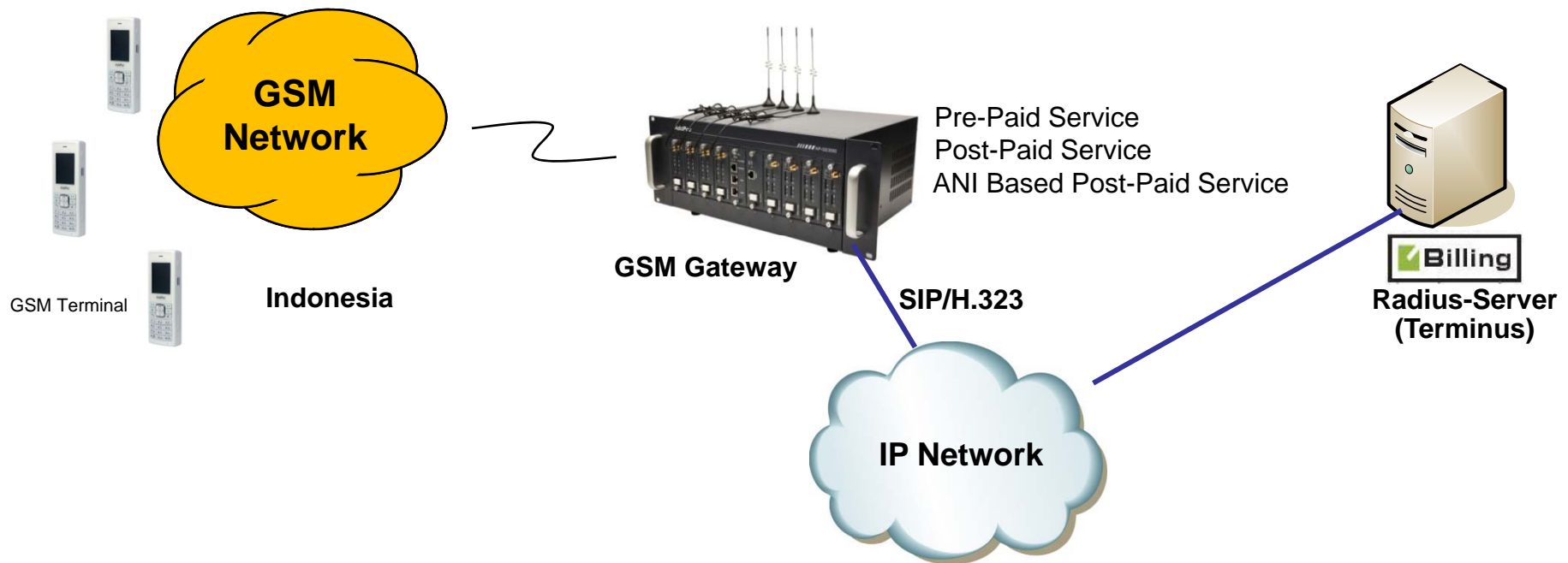
**GSM Call Statistics**

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



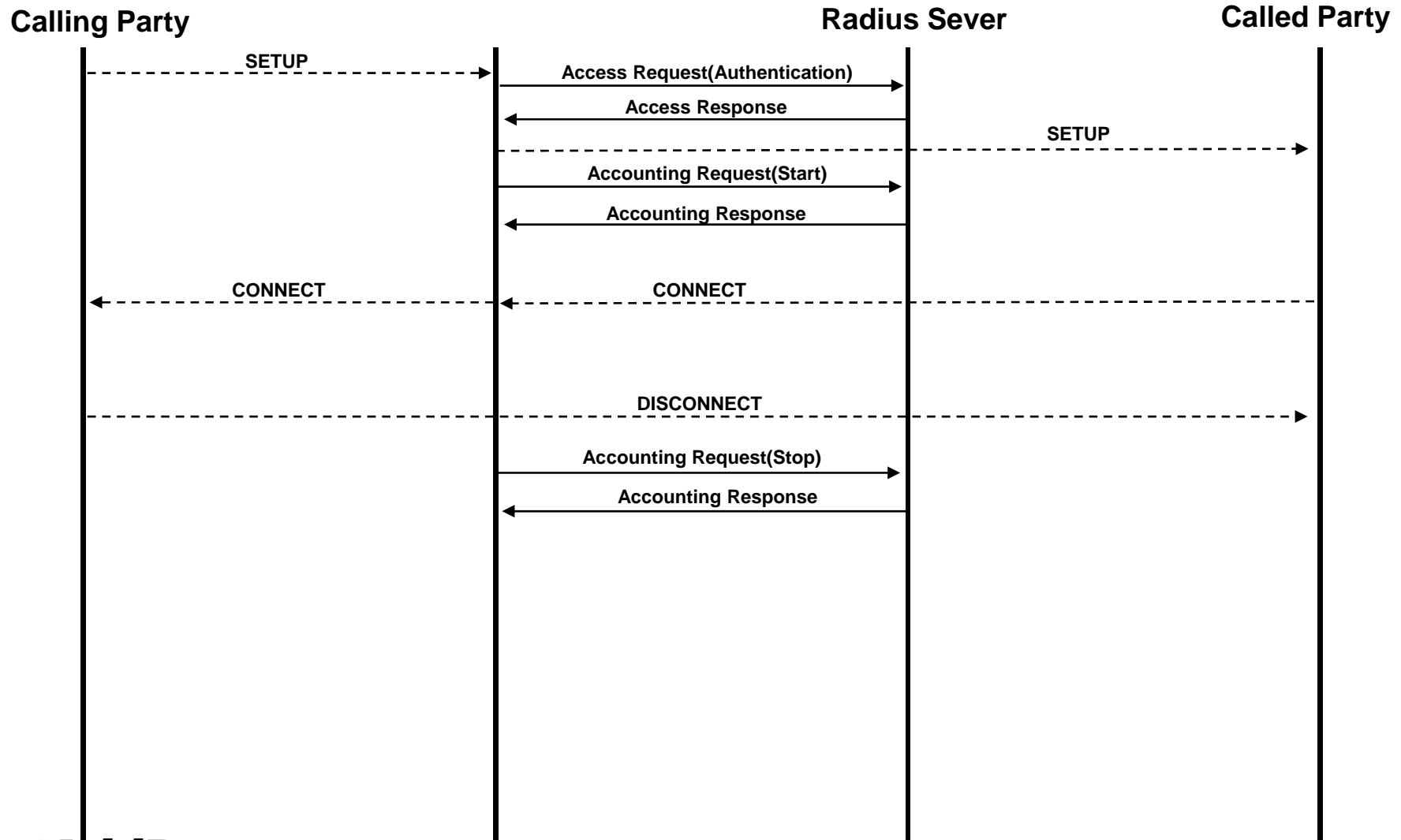
# Radius Protocol for CDR

# CDR Service Network Diagram





# CDR Service Flow Chart



# Radius Setup - WEB

**Smart Web Manager**  
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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:  None

**Accounting**

Telephony Type:  None  Start-Stop  Stop-Only

VOIP Type:  None  Start-Stop  Stop-Only

**Time Out**

Retransmit:  3 (default 3, 0-100)

Time Out:  5 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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