GSM Gateway Series

Smart Web Mana	ger				۰, 🖸 📮
System					Information
Dansic (0		MEI Auto Change Period : 20 (min, 0: disable, 20 - 360)	I) 🗣 Atab	AddPac Technology model : 063000_02 HMV Version : 2.0
Advanced (C Select	Port	IMEI	Changeable Courit	S/W Version : 8.41.03T Smart Web Version : 0.4
* Part Control	0	P:1/0	351244534360002	no limit	Smart Web Build : Jan 25 2013
Mobile PINs	0	P:1/1	446862424708435	no limit	None : O(4) : O(4) : O(4) :
MODIE USSD	0	P:1/2	352731086325076	no limit	None : None
* mult-SIM Balance	0	P10	449553738307846	no limit	Protocol SIP
• Fax	0	P 20	442401762353827	no limit	Current Calls : 0
* Senice	0	P.21	350864473039569	no limit	CallNetwork : Date
Fillering	0	P-2/2	447747810326105	no limit	Mac Address: 0002.a402.b972
Radus	ő	P.2/3	356703628563881	no limit	Unvead Message:
* SNMP	0	P 30	351802053451443		P1:1(0)
WEB Caliback	0	P-34	251801052451450		P1:2(0)
Mobile Callback	0	8.30	351102053407105		P1:3(0) P2:0(0)
Miscellaneous (0	P.30	301802053487157	1	P2:1(0) P2:2(0) P3:200
LCR	D INEI:		Response Time -1 (sec)		P3.0(0) P3.1(0)
Black & White List Time Interval	Password :		ModRy		P3 2(0) P3 3(0)
			" If will take about 3D seconds.		

BTS Auto Change Service

(This software feature is only applicable in model which can change BTS)





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GSM BTS Structure



GSM Auto BTS Structure (call count, time)



Smart Web Manager for BTS Auto Change

Smart Web Manager



AddPac

GSM BTS Auto Change Algorithm

If GSM Gateway has 16 GSM ports as below.



A timer(Tⁱ) is called for BTS change every 60 seconds. If a auto BTS change period is configured to 20 minutes, Each Port's Interval is calculated as follows. (Period * 60) / (number of port) = (20 * 60) / 16 = 75 seconds.

When $T^{i=1}$ event is occurred, BTS change is not executed. When $T^{i=2}$ event is occurred, BTS change is executed for Port 0. When $T^{i=3}$ event is occurred, BTS change is executed for Port 1. When $T^{i=16}$ event is occurred, BTS change is executed for Port 15. Each port's BTS change will be uniformly dispersed.



GSM BTS Auto Change Algorithm

• BTS random selection

Port	Information	SVC	N(1)	N(2)	N(3)	N(4)	N(5)	N(6)
0:0	BCCH	77	71	63	68	595	586	0
	RSSI(dbm)	-62	-78	-78	-89	-79	-82	-111

Random Selection Sequence

- 1. Read RSSI threshold parameter from manager
- 2. Discard neighbor cell that RSSI is lower than threshold
- 3. Random selection BCCH number
- 4. Registration to selected BTS

BCCH : Broadcast Control Channel

RSSI : Received Signal Strength Indication



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Thank you!

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