# MIXMODE RRU INSTALLATION DIAGRAM



### IF UR MUSLIM , PLS START YOUR WORK WITH AL-FATIHAH

#### SURAH AL-FATIHAH

بِسْمِ اللهِ الرَّحْمنِ الرَّحِيمِ ﴾ الْحَمْدُ للَهِ رَبِّ الْعَالَمِينَ ﴾ الرَّحْمنِ الرَّحِيمِ مَالِكِ يَوْمِ الدِّينِ ﴾ إِيَّاكَ نَعْبُدُ وإِيَّاكَ نَسْتَعِينُ اهدِنَا الصِّرَاطَ المُستَقِيمَ ﴾ صِرَاطَ الَّذِينَ أَنعَمتَ عَلَيهِمْ غَيرِ المَغضُوبِ عَلَيهِمْ وَلاَ الضَّالِينَ ﴾

 $Bismillahirrahmanirrahim \langle 1 \rangle$ 

Alhamdulillahi rabbil alamin{2}Arrahmaanirrahiim{3} Maaliki yaumiddiin{4}Iyyaka na'budu waiyyaaka nastaiin{5} Ihdinasirratal mustaqim{6}Siratalladzina an'amta alaihim ghairil maghduubi alaihim waladhaalin{7}

Dengan nama Allah, Yang Maha Pemurah, lagi Maha Mengasihani[1] Pujian bagi Allah, Tuhan yang memelihara dan mentadbirkan sekalian alam[2] Yang Maha Pemurah, lagi Maha Mengasihani[3] Yang Menguasai pemerintahan hari Pembalasan (hari Akhirat)[4] Engkaulah sahaja (Ya Allah) Yang Kami sembah, dan kepada Engkaulah sahaja kami memohon pertolongan[5] Tunjukilah kami jalan yang lurus[6] Iaitu jalan orang-orang yang Engkau telah kurniakan nikmat kepada mereka, bukan (jalan) orang-orang yang dimurkai ke atas mereka, dan bukan pula (jalan) orang-orang yang sesat[7]

# CHAPTER 1 DUW PART

- 1. Login moshell on DUW
- 2. Take pre log (GSC)
- 3. Take prelog ( check alarm & etc )
- 4. Check cv ( type " cvls " )
- 5. Create new cv (type "cvms before\_mixmode\_L21U21\_14052019 User Before\_mixmode "
- Take kget (type "dcgk") wait until complete , kget will save on C:\Cygwin\home\User\moshell\_logfiles\logs\_moshell\dcg

		- 10			_				
	Computer 🕨 L	.ocal Disk (C:)  ► Cygwin  ► home  ► U	Jser 🕨 moshell_logfiles	logs_moshell	i dcg i i				
Organize 🔻	🍃 Open 🛛 I	nclude in library 🔻 Share with 💌	Burn New folder						
쑦 Favorites		Name	1			Date modified	Туре	Size	
🧮 Desktop		🐌 RW10086_SHINGYIN				14-May-19 1:30 PM	File folder		

# 7. Open kget file , & copy to moshell

🕞 🕞 🛛 📕 🕨 Computer 🕨 Loca	I Disk (C:) ▶ Cygwin ▶ home ▶ User ▶ mo	shell_logfiles ▶ logs_moshell ▶ dcg ▶ RW10086_SHINGYIN ▶ 190514_133012 ▶	← ■ ■ ◆ ♦ Search :
Organize 👻 🗎 Open 👻 E	urn New folder		8≡ ▼ 🗔
★ Favorites ■ Desktop ↓ Downloads	Name RW10086_SHINGYIN_modump	Date modified Type Size           14-May-19 1:32 PM         WinRAR ZIP archive         1,197 KB	
归 Recent Places 🖬 OneDrive	RW10086_SHINGYIN_modump.zip - WinR File Commands Tools Favorites Opti Reference Strength S	AR (evaluation copy)	3
<ul> <li>☐ Libraries</li> <li>☐ Documents</li> <li>→ Music</li> </ul>	Add Extract To Test View	Delete Find Wizard Info VirusScan Comment SFX	-
<ul> <li>Pictures</li> <li>Videos</li> </ul>	Name	Size Packed Type Modified File folder	
📢 Homegroup 19 Computer	RBS_NODE_MODEL_U_4_741.xml.jar RBS_NODE_MODEL_U_4_741_COMPLETE. RW10086_SHINGYIN_dcg_k.log.gz	451,629         449,407         Executable Jar File         11-Mar-191:00           498,496         498,496         WinRAR archive         05-Apr-18 4:59           136,412         136,412         WinRAR archive         14-May-191:30	) ,
🕌 Local Disk (C:) 👝 New Volume (D:)	alarmlist.txt cppbdlog.txt invllog.txt	1 1 Text Document 14-Mav-191:3	
<pre>   Network   I</pre>	pmscanners.bt	Add Extract To Test View Delete Find Wizard Info	
🖳 FARIDAH-PC	Selected 136,412 bytes in 1 file	RW10086_SHINGYIN_dcg_k.log.gz - GZIP archive, unpacked size 2,723,284 bytes       Name	▼ Packed Type Modified
		RW20086_SHINGVIN_dcg_Klog	File folder 136,402 Text Document 14-May-191:3

### 8. Copy file to C:\Cygwin\home\User

		And a constraint strength of the	An against frances of
Computer > Loca	al Disk (C:) ► Cygwin ► home ► User ►		
Organize 👻 🧊 Open 👻 🛛	Print Burn New folder		
🛯 🔆 Favorites	Name		Date mo
🧮 Desktop	Ext_alarm_SAU_Tahir.mos		21-May
🐌 Downloads	bash_history		20-May
🔚 Recent Places	SAU.mos		17-May
🖬 OneDrive	SAU SAU		17-May
	RW10086_SHINGYIN_dcg_k		14-May
4 🥽 Libraries	RW10040_INANAMBUSINE_dcg_k		13-May
N 🖹 Decumente		C	10 Mar.

### 9. Open moshell, to open kget off line



10. Login moshell on line , on DUW

- 11. lock Rus , Type
  - st ruw
  - bl ruw
  - y
  - st ruw ( check back if locked )

190528	-11:30:45 OFF	LINE_RW10086_S	HINGYIN_dcg_k 18.0c RBS_NODE_MODEL_U_4_741_COMPLETE stopfile=/tmp/618
Proxy	Adm State	Op. State	МО
420	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=11,AuxPlugInUnit=RUW-1
421		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=11,AuxPlugInUnit=RUW-1,DeviceGroup=RUW
465	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=13,AuxPlugInUnit=RUW-2
466		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=13,AuxPlugInUnit=RUW-2,DeviceGroup=RUW
512	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=3,AuxPlugInUnit=RUW-1
513		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=3,AuxPlugInUnit=RUW-1,DeviceGroup=RUW
557	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=5,AuxPlugInUnit=RUW-2
558		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=5,AuxPlugInUnit=RUW-2,DeviceGroup=RUW
602	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=7,AuxPlugInUnit=RUW-1
603		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=7,AuxPlugInUnit=RUW-1,DeviceGroup=RUW
647	0 (LOCKED)	1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=9,AuxPlugInUnit=RUW-2
648		1 (ENABLED)	Equipment=1,RbsSubrack=1,RbsSlot=9,AuxPlugInUnit=RUW-2,DeviceGroup=RUW

# 12. Login duw via emas , element manager

# 13. Go to tools , export & delete

Connect to Netwo	rk Element	Cold Channel Bar		File View MO Ala m Tool	Help	VI.VI	wiDai	nuicai						
Connect to Network Elem Select an address from th All NEs Favorites	ent: ne list or type it in the text field	bel <mark>ow.</mark>			Integrate RBS ns Migrate RBS to DUW Cabinet Equipment Configuration	Table	MO Properties unitType a	Description Vie <u>w</u> s operationalState	s Cable Overview availabilityStatus	Cabinet Overview administrativeSt	productNumber	productRevision	productData.pro	productData.pro
Address	Name	Comment		ManagedElement=1	Site Equipment Configuration						BGM 1361006/2		i i	
169.254.1.1	duw		Remove	Godinet     Godinet     Godinet     Godinet=1     Godine=1     Godinet=1     Godinet=1     Godinet=1     God	Modify RBS Equipment Configuration Export and Delete Test Board Performance Data Storage Performance Monitorings Run Command File								113/BFM 901 290	R5A
Address *	Name	Comment												
169.254.1.1	duw		Add	Refresh Tree Stop									Refresh Va	alues Stop
		Connect	Exit											

### 14. Save file cabinet & site , must <name> .xml







# 15. Check if file already save on your folder

Documents   XML Document		<u> </u>
Documents library XML Document		
Name	Date modi	<del>fied Type 🔽 🖌 S</del> iz
SHINYINGCAB	14-May-19 14-May-19	1:35 PM XML Document 1:35 PM XML Document
	Documents   XML Document  Documents library  XML Document  Name  shinyingSite  SHINYINGCAB	Documents   XML Document  Documents library XML Document  Name  ShinyingSite  SHINYINGCAB

16. Got to element manager , & start export n delete , press OK

Export	
V Export configuration data for Cabinet and Site wizards	
File path for cabinet: * C:\Users\User\Documents\SHINYINGCAB.xml	Browse
File path for site:	Browse
Export MIB Exporting configuration data	
Compress MIE	
File path for MIB	Browse
Delete	
Delete cabinet equipment and site equipment configuration	
Remove Secondary DUW	

## 16. Wait until finish

		1		
mort and delete opera	ation successfully	completed	owse	
port und delete open		compicted		
UK				
Iser\Desktop\INANAM B	UISNESSCENTRE\ba	Br	owse	
	User\Desktop\INANAM B	User\Desktop\INANAM BUISNESSCENTRE\ba	User\Desktop\INANAM BUISNESSCENTRE\backup Br	User\Desktop\INANAM BUISNESSCENTRE\backup Browse

17. Duw will restart , aft 5 min , login again duw via element manager

Address	blama	Comment	
69.254.1.1	duw	Comment	
			Remove

# 18. Upload new cabinet , go to tools - cabinet

e View MO Alarm To	ools Help
4	Integrate RBS Migrate RBS to DUW
	Cabinet Equipment Configuration
Cabinet Cabinet=1 Cabinet=1 EquipmentSupport ExternalNode=1 Equipment=1 Cables RetProfiles Sector Antenn	O&M Access Configuration Site Equipment Configuration Modify RBS Equipment Configuration Export and Delete Test Board Performance Data Storage Performance Monitorings

Cabinet Equipment Configuration
Preconditions
Welcome to Ericsson Cabinet Equipment Configuration Wizard
INFORMATION:
* System upgrade must be performed on the node
(RBS_BASIC_CV installed on the node).
* Pressing <next> will start the wizard and</next>
the current configuration will be loaded from the node.
* Sofruere nachage
Product number: CVD9023291/10
Product revision: R2CA26
DTD version: J   K   K1   K2   M   N   S   S1   S2   S4   S5
S6   S7   T   U   V   X   Z   AB   AC   AD   AE   AF   AG
AH   AH1   AF1   AF2   AJ   AJ1   AJ2   AJ3   AJ4   AK   AK1
AK2   AK3   AL   AM   AN   AN1   AN2   AN3   AN4   AT   AT1
JAT2 J AU

Cabinet Equi	Look in:	SHIN YING	; ;CAB	•	<b>ð 🔛 🖽 -</b>	
Use configuration file File path: C:\User\User\Documents Configuration: Automatic (No Wizard) Wizard	Desktop My Documents Computer					
	Network	File name: Files of type:	XML files(*.xml)		•	Open Cancel

			Cabinet Equi	pment Configuration page File Input	e 1(7)	
	Configuration file					
3	Use configuration:	on file C:\Users\User\Doc O Automatic (No V O Wizard	uments Wizard)			Browse

# Cabinet Equipment Configuration page 1(7) File Input Configuration file ✓ Use configuration file Browse... File path: \* Jsers\User\Desktop\SHIN YING\SHINYINGCAB.xml Configuration: Automatic (No Wizard) () Wizard Capcel Next Help

Status: Connection Lost	All all all and
Down time: 00:00:07	
The connection to node 169.254.1.1 is lost.	
Close all tools or wait for connection to be restored.	
Affected tools:	
RW10086_SHINGYIN - RBS Element Manager Main Window	
Cabinet Equipment Configuration	
2	
2	
Continue Close All	
	VIANATHE
Status: Connection Restored	WWWWHE
Status: Connection Restored Down time: 00:01:21	
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored.	
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored.	
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored. You can now continue using all tools connected to 169.254	.1.1
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored. You can now continue using all tools connected to 169.254	.1.1
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored. You can now continue using all tools connected to 169.254	.1.1
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored. You can now continue using all tools connected to 169.254	.1.1
Status: Connection Restored Down time: 00:01:21 The connection to node 169.254.1.1 is restored. You can now continue using all tools connected to 169.254	.1.1

Close All

Continue

# 19. Klik Next , duw will disconnect – continiue - loading

# 19. Klik Next , fill follow photo -

	Cabinet Equipment Config Current Configu	uration page 2(7) uration						Cabinet Equipment Configu	ration page 3(7)		
Current action:						Other options					
Progress:						RBS product name:	*[RBS6601W 🚽				
David.						Support system	m control	Absolute time sync	th enabled		
Result:	Current configuration successful	ly loaded from	Radio Base St	tation!		GPS out enabled:	DUW on slot 1		DUW on slot 2		
						Climate system:	* Standard 👻				
						Climate regulation :	system: NotApplicable	• •			
						Digital building bloc	K: TSYSTEM_DEFINED	•			
		Next	Cancel	Help	1				Next	Cancel	Help

# 20. Check how many PDU on site if 2, set to 2 - next

c	abinet Equipment Configure Power supply config	ation page 4(7) uration	
Power supply			
No. of PDU: 2			
No. of PSU:			
Configure battery backup			
No. of BFU:			
Multiple Power System			
Battery type:			
Transie			

# 21. Set hub position to B1 - next

	Cabin	et Equipment Configurat EC-bus configurati	ion page 5(7) on		
C-bus					
Unit Type	Unit Number	Port Nu	umber	Hub Position	
UW	1	1		81	•
				Add	Remove

22. yes

Chosen RBS configuration						
Product name: RBS6601W						
Support system control: TRUE						
Absolute time synch enabled: NO				pro		
Gps out enabled on slot 1: FALSE	out enabled on slot 1:         FALSE           out enabled on slot 2:         FALSE           iate system:         Standard					
s out enabled on slot 1: FALSE s out enabled on slot 2: FALSE nate system: Standard nate regulation system: NotApplicable						
Dimate system: Standard Dimate regulation system: NotApplicable						
Climate regulation system: NotApplicat	ble					
Digital building block: SYSTEM_DE	EFINED					
No of PDU: 2						
Configure power supply: NO						
IP a Configuration: Confirm Sub Def Crei It is needed to restart th configuration or chang Do you want to make a	ne RBS in order to activate the ing to/from STM-1/OC3. The in automatic restart at the end Yes No	IP connection to the l of the configuratio	RBS will then be lost			
Press Finish to complete the installation, or	Cancel to abort.					

# 22. Don't press continiue , just wait ..

	www.bancicanii
alus: Connection Restored	
own time: 00:00:16	
he connection to node 169.254.1.1 is restored. ou can now continue using all tools connected to	169.254.1.1
Subrack=1 Equipment=1  SDH SDH MSP1+1 Protection SwitchFabric=1  D Internal Transport	
Pushing the Cancel	button will rollback all wizard operations and restart the node!

# 24. Wait until Finish , element manager will Disconnect



### 25. Wait 5 minute & Open again element manager

II NEs Favorites			_
ddress	Name	Comment	
9.254.1.1	duw		
			Remove
Address *	Name	Comment	Remove

# 26. Go to tools – site equipment configuration

Co Eq	Integrate RBS Migrate RBS to DUW Cabinet Equipment Configuration O&M Access Configuration	ns rties Desi peration	riptio <u>n</u> Vie <u>w</u> availability
IanagedElement=1	Site Equipment Configuration	-	
Cabinet=1 Cabinet=2 EquipmentSupport Equipment=1 Cables C	Modify RBS Equipment Configuration Export and Delete Test Board Performance Data Storage Performance Monitorings Run Command File		
Equipment=1  DH SDH SDH SwitchFabric=1  POH SwitchFabric=1 Internal Transport	n		

## 27. Tick wizard & Just next

	Site Equipment	Configuration page File Input	1(15)		
Configuration file					
Use configuration	n fie				
File path:	C:\Users\User\Desktop\SHIN YING			6	rowse
Configuration:	<ul> <li><u>Automatic</u> (No Wizard)</li> <li>Wizard</li> </ul>				
Add TMF files					
		r		[	1
			Navit	Cancel	Liste

### 28. Next – NEXT - NEXT

Site Equipment Configuration page 3(15) Site location

Site: RW10086\_SHINGYIN Logical name: RW10086

	Site Equipment Configuration page 2(15)	Site data
Ourrent action:	Current Configuration	Logical r
current action.		Logical
Progress:		
Result:	Current configuration successfully loaded from Padia Page Station	
	Current Configuration Successfully Toaded from Radio Base Station:	-
		_
		-
		-
	Next Cancel Help	

### 30. Fill follow photo ,next



### 31. Set the RRU

www.bundlouincom Site Equipment Configuration page 6(14) Sector options Radio building block Line rate Primary port id Secondary por... Sector sequ... Unit type Radio share... Sector 1 \* -\* \* + \* 2 --• -. -3 • -----4 -. . . -. 5 --. -. . ٠ 6 . . --. . .

> FOLLOW TSSR OR CHECK ON SITE , IF SEC 1 USE RRU , DEFINE RRU OR RUS , SAME WITH SEC 2 & 3

Previous	Next	Cancel	1

Help

32. Pls set follow existing new radio , example , if u install new rru sec 1 , means sec 2 & 3 is existing ( existing sec 2 & 3 , must follow old kget config )

If sec 1 is new RRU, pls set , If NEW rru 4449 = RBB22\_1G If New rru is 2219 = RBB22 1A

Site Equipment Configuration page 6(14) Sector options Sector Radio building block Primary port id Secondary port id Radio shared by Line rate Unit type Sector sequence \* (2 + BU1\_A + 1 RRUWRRUS (RBB22\_1G) + ▼ X2 - BU1 B + 1 2 RBB22\_1A • -RUWRUS + X2 - BU1\_C + 1 RUWRUS -RBB22\_1A) 4 . . 5 \* [ 6 ٠ . --OFFLINE\_RW10015\_WISMAMUIS\_DCG\_K> get . radiobuildingblock 210317-10:38:35 OFFLINE\_RW10015\_WISMAMUIS\_dcg\_k 20.0p RBS\_NODE\_MODEL\_U\_4\_741\_COMPLETE stopfile=/tmp/1403 Attribute Value MO radioBuildingBlock 2 (RBB22 1A) Sector=1 radioBuildingBlock 2 (RBB22\_1A) Sector=2 radioBuildingBlock 2 (RBB22\_1A) Sector=3 Total: 3 MOs Go to offline KGET, type get. Radio. buildingblock Previous Next Cancel Help 33. Open kget offline (refer page no. 3)

34 . Insert lattidue , longitude , mixmode configuration , follow kget

- Mixmode RRU must true

Novt					Geo datum:		WGS84
				//	Height		
					Noise figure		
If soc 1 is now PPU place	ot				Sector group		
II SEC I IS NEW RRO, pis si	et,			Mixed I	Vode configuration		
If NEW rru 4449 = RBB22	_1G						
If Now rru is 2210 - PPP2					_		
DFFLINE_RW10086_SHINGYIN_DCG_K> get . latitude 190528-13:44:02 OFFLINE_RW10086_SHINGYIN_dcg_k 18.0	C RBS_NODE_MODEL_L	_4_741_COMPLETE storfi	ile=/tmp/618				
мо	Attribute	Value					
Sector=1 Sector=2 Sector=3	latitude latitude latitude	550721 550721 550721		=			
Fotal: 3 MOs							
DFFLINE_RW10086_SHINGYIN_DCG_K> get . longitude 190528-13:44:11 OFFLINE_RW10086_SHINGYIN_dcg_k 18.0	Oc RBS_NODE_MODEL_U	_4_741_COMPLETE stopfi	ile=/tmp/618		on		
мо	Attribute	Value		==			
Sector=1 Sector=2 Sector=3	longitude longitude longitude longitude	5408219 5408219 5408219 5408219		==		RRUW-1	
Total: 3 MOs				==			
DFFLINE_RW10086_SHINGYIN_DCG_K> get . height							
190528-13:49:14 OFFLINE_RW10086_SHINGYIN_dcg_k 18.0	Dc RB5_NODE_MODEL_U	_4_741_COMPLETE stopfi	ile=/tmp/618				
мо	Attribute	Value					
Sector=1 Sector=2 Sector=3	height height height	2600 2600 2600					If sec
Total: 3 MOs				==			with
					-		L

Sector Data Configuration



Site Equipment Configuration page 7(14)

Sector data configuration

- 35. Set cell carrier
- sector Use RRU mixmode only set 1 carrier 36.
- sector use RUS set 2 or 3 carrier follow existing Carrier Allocation Mode: \* Advanced + 37. (cek on kget offline)

Sector 1

38. follow SSr

	L	LOCAL CELL ID NO					
Sector	1st carrier	2nd carrier	3rd carrier				
Sec 1	1	4	7				
Sec 2	2	5	8				
Sec 3	3	6	9				



MO

NodeBFunction=1,Sec

NodeBFunction=1.Sec

NodeBFunction=1,Sec

NodeBFunction=1,Sec

NodeBFunction=1,Sec

NodeBFunction=1,Sect

NodeBFunction=1.Sec

NodeBEunction=1.Sec

			Cell=1	Cell=2	Cel=3	Cell=4
		Create cell:	V			
		Local cell ID:	1	-	-	-
		Number of TX branches:	2 🔹		-	
ONO		Number of RX branches:	2 .	-	1	1
	3rd carrier	Cell range (m):	35000	-	1	
	7	OperatingBand:	1 -	-		
	8	Sector 2	р			
	9		Cel=1	Cell=2	Cel=3	Cell=4
		Create cell:	V	<b>V</b>	V	
		Local cell ID:	2	5	8	
		Number of TX branches:	1 -	1	1 .	-
		Number of RX branches:	2 🗸	2 🗸	2 🗸	
		Cell range (m):	35000	35000	35000	1
		OperatingBand:	1 🗸	1 -	1 🗸	
		/				
		Sector 3				
		Sector 3	Cell=1	Cell=2	Cel=3	Cell=4
		Sector 3 Create cell:	Cell=1	Cell=2	Cel=3	Cell=4
DE MODEL II 4	4 741 COMPLETE st	Sector 3 Create cell: Local cell ID:	Cell=1	Cell=2	Cell=3	Cell=4
DE_MODEL_U_4	4_741_COMPLETE st	Sector 3 Create cell: Local cell ID: er of TX branches:	Cell=1	Cell=2 - -	Cell=3	Cell=4
DE_MODEL_U_ Carrier=1	.4_741_COMPLETE st	Sector 3 Create cell: Local cell ID: er of TX branches: er of RX branches:	Cell=1	Cell=2 - - -	Cell=3	Cell=4
E_MODEL_U_ ===================================	.4_741_COMPLETE st	Sector 3 Create cell: Local cell ID: er of TX branches: er of RX branches: cell range (m):	Cell=1 3 2 2 2 35000	Cell=2	Cell=3	Cell=4

Site Equipment Configuration page 8(14)

**RBS** Local cell configuration

#### OFFLINE\_RW10086\_SHINGYIN\_DCG\_K>

OFFLINE\_RW10086\_SHINGYIN\_DCG\_K> st carr

Proxy Adm State

1833

1870

1888

1907

1943

\_\_\_\_\_ Total: 8 MOs

190613-13:29:40 OFFLINE\_RW10086\_SHINGYIN\_dcg\_k 18.0c RE

Op. State

1 (ENABLED)

### Site Equipment Configuration page 9(14)

#### Sector antenna configuration

#### 39. set sector anatenna &

next

		SPECIAL E		Dector D	
1	1	-1	2-1		
2	-				-
3	-				-
ector Antenna Configuration Sector antenna:	Antonna tuna:	3-1			
ector Antenna Configuration ector antenna:	Antenna type:	3-1			
ector Antenna Configuration	Antenna type: TMA type: RET type:	3-1 NONE			
ector Antenna Configuration ector antenna:	Antenna type: TMA type: RET type: RIU installed:	3-1 NONE NONE		η	
ector Antenna Configuration	Antenna type: TMA type: RET type: RIU installed: Aechanical tilt (deo):	3-1 NONE NONE		1	
ector Antenna Configuration ector antenna: M Sec	Antenna type: TMA type: RET type: RIU installed: //echanical tilt (deg): tor output power (W):	3-1 NONE NONE		]	
ector Antenna Configuration Sector antenna: M Sec Low sec	Antenna type: TMA type: RET type: RIU installed: Aechanical tilt (deg): itor output power (W): ector output power (mW):	3-1 NONE NONE			

#### OFFLINE\_RW10086\_SHINGYIN\_DCG\_K> get . fqband

#### 190529-11:31:35 OFFLINE\_RW10086\_SHINGYIN\_dcg\_k 18.0c RBS\_NODE\_MODEL\_U\_4\_741\_COMPL

мо	Attribute	Value
SectorAntenna=3-1,AntennaBranch=A	fqBandHighEdge	21550
SectorAntenna=3-1,AntennaBranch=A	fqBandLowEdge	21400
SectorAntenna=3-1,AntennaBranch=B	fqBandHighEdge	21550
SectorAntenna=3-1,AntennaBranch=B	fqBandLowEdge	21400
SectorAntenna=1-1,AntennaBranch=A	fqBandHighEdge	21550
SectorAntenna=1-1,AntennaBranch=A	fqBandLowEdge	21400
SectorAntenna=1-1,AntennaBranch=B	fqBandHighEdge	21550
SectorAntenna=1-1,AntennaBranch=B	fqBandLowEdge	21400
SectorAntenna=2-1,AntennaBranch=A	fqBandHighEdge	21550
SectorAntenna=2-1,AntennaBranch=A	fqBandLowEdge	21400
SectorAntenna=2-1,AntennaBranch=B	fqBandHighEdge	21550
SectorAntenna=2-1,AntennaBranch=B	fqBandLowEdge	21400
Sector=1	fqBands	Band1:
Sector=2	fqBands	Band1:
Sector=3	fqBands	Band1:
Total: 9 MOs	·····	

### 40. Set antenna branch all sector follow exiting

#### kget

Site Equipment Configuration page 10(13) Antenna branch configuration

tenna Branch Overview

Antenna branch	Sector 1	Sector 2	Sector 3	
A	*	*	*	
В	•		•	
С				=
D				-
E	-		-	
F	-	-	-	-

Antenna Branch Configuration Sector 1 Branch A FQ band low edge (0.1 MHz): 21400 FQ band high edge (0.1 MHz): 21550 Antenna supervision threshold (%): 0 [0..100]

#### OFFLINE\_RW10086\_SHINGYIN\_DCG\_K> get . super

### 190529-11:35:41 OFFLINE\_RW10086\_SHINGYIN\_dcg\_k 18.0c RB5\_NODE\_MODEL\_U\_4\_741\_COMPLETE stopf

мо	Attribute	Value
SectorAntenna=3-1, AntennaBranch=A SectorAntenna=3-1, AntennaBranch=A SectorAntenna=3-1, AntennaBranch=B SectorAntenna=3-1, AntennaBranch=B SectorAntenna=1-1, AntennaBranch=A SectorAntenna=1-1, AntennaBranch=A SectorAntenna=1-1, AntennaBranch=B SectorAntenna=1-1, AntennaBranch=B SectorAntenna=2-1, AntennaBranch=B SectorAntenna=2-1, AntennaBranch=A SectorAntenna=2-1, AntennaBranch=A SectorAntenna=2-1, AntennaBranch=B SectorAntenna=2-1, AntennaBranch=B SectorAntenna=2-1, AntennaBranch=B SectorAntenna=2-1, AntennaBranch=B Climate=1 NodeBFunction=1 Iub=RW10086, NbapCommon=1 Iub=RW10086, NbapCommon=1	antennaSupervisio lowCurrentSupervi antennaSupervisio lowCurrentSupervi antennaSupervisio lowCurrentSupervi antennaSupervisio lowCurrentSupervi antennaSupervisio lowCurrentSupervi antennaSupervisio lowCurrentSupervi fanSpeedSupervisi featureStateAdvan licenseStateAdvan l2EstablishSuperv	onThreshold 49 ision 1 (ON) onThreshold 80 ision 1 (ON) onThreshold 49 ision 1 (ON) onThreshold 49 ision 1 (ON) onThreshold 80 ision 1 (ON) onThreshold 80 ision 1 (ON) ion 12 ncedCellSupervisio ricedCellSupervisio risionT 30 risionT 30

41. Set antenna supervision threshold all sector branch A & Branch B

#### Site Equipment Configuration page 10(13) Antenna branch configuration

ntenna branch Sector 1		Sector 2	Sector 3	
A	*	8	8	*
В	•		•	
с	-			=
D				
E	-		-	
F	-	-		-

Total: 10 MOs



42. Set attenuation (only sector use feeder, & existing sector & antenna branch A & B, follow existing on kget

Antenna branch	Sector 1	Sector 2	Sector 3	
A				
В	*	*	*	1
C	1 (A)			
D		-	-	
E				
F		-	-	-



#### DFFLINE\_RW10086\_SHINGYIN\_DCG\_K> get . attenuation

190617-22:36:44 OFFLINE\_RW10086\_SHINGYIN\_dcg\_k 18.0c RBS\_NODE\_MODEL\_U\_4\_741\_COMPLETE stopfile=/tmp/266

мо	Attribute	Value													
	dlAttenuation	-1		/											
RfCable=1_5_RXA_IO	ulAttenuation	2													
RfCable=1_11_RXA_IO	dlAttenuation	-1													
RfCable=1_11_RXA_IO	ulAttenuation	2													
RfCable=1_7_RXA_IO	dlAttenuation	-1													
RfCable=1_7_RXA_IO	ulAttenuation	2													
AntFeederCable=1A	dlAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 3	0 -1	-1	-1
AntFeederCable=1A	dlAttenuationPerF	qRange	i[4]	= -1	-1	-1 -	1								
AntFeederCable=1A	ulAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 3	0 -1	-1	-1
AntFeederCable=1A	ulAttenuationPerF	qRange	i[4]	= -1	-1	-1 -1	1								
AntFeederCable=1B	dlAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 3	0 -1	-1	-1
AntFeederCable=1B	dlAttenuationPerF	qRange	i[4]	= -1	-1	-1 -1	1								
AntFeederCable=1B	ulAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 <u>3</u>	0 -1	-1	-1
AntFeederCable=1B	ulAttenuationPerF	qRange	i[4]	= -1	-1	-1 -	1								
AntFeederCable=2A	dlAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 <u>3</u>	0 -1	-1	-1
AntFeederCable=2A	dlAttenuationPerF	qRange	i[4]	= -1	-1	-1 -	1								
AntFeederCable=2A	ulAttenuation	i[15]	= 30	30 3	0 30	30	30	30 3	30	30	30 3	30 <u>3</u>	0 -1	-1	-1
AntFeederCable=2A	ulAttenuationPerF	qRange	i[4]	= -1	-1	-1 -	1								
			-				_	_	_	_	_	_	_	_	

### 43. Set delay (only sector use feeder, & existing sector & antenna branch A & B , follow existing on kget

	Sector 3	Sector 2	Sector 1	Antenna branch
-			*	A
	*	*	*	В
			(+)	С
		-		D
				E
-	-	-		F

Antenna Feeder Cable Con	figuration
Sector	2
Branch	A
DL attenuation(0.1 dB):	-1
UL attenuation(0.1 dB):	-1
DL delay(0.1 ns):	2848
UL delay(0.1 ns):	2848

Antenna feeder cable Overview

#### OFFLINE\_RW10086\_SHINGYIN\_DCG\_K> get . delay

#### 190529-11:39:43 OFFLINE\_RW10086\_SHINGYIN\_dcg\_k 18.0c RB5\_NODE\_MODEL\_U\_4\_741\_COMPLETE stopfile=//cmp//06

			/_			_						
мо	Attribute	Value				_						
RfCable=1_5_RXA_IO	electricalDlDelay	-1	/			-						
RfCable=1_5_RXA_IO	electricalUlDelay	6										
Subrack=1,Slot=1,PlugInUnit=1,ExchangeTerminalIp=1,GigaBitEthernet=1 statePropagationDelay 25												
DigitalCable=1_11_DATA_2	electricalDelay	-1										
RfCable=1_11_RXA_IO	electricalDlDelay	-1										
RfCable=1_11_RXA_IO	electricalUlDelay	6										
RfCable=1_7_RXA_IO	electricalDlDelay	-1										
RfCable=1_7_RXA_IO	electricalUlDelay	6										
DigitalCable=1_7_DATA_2	electricalDelay	-1										
AntFeederCable=1A	electricalDlDelay	i[15] = 2848 2	848 2848	2848 284	8 2848	2848 284	18 2848	2848 2	848 284	8 -1	-1 -	1
AntFeederCable=1A	electricalDlDelay	PerFqRange i[4]	= -1 -1	-1 -1								
AntFeederCable=1A	electricalUlDelay	i[15] = 2848 2	848 2848	2848 284	8 2848	2848 284	8 2848	2848 2	848 284	8 -1	-1 -	1
AntFeederCable=1A	electricalUlDelay	PerFqRange i[4]	= -1 -1	-1 -1								
AntFeederCable=1B	electricalDlDelay	i[15] = 2848 2	848 2848	2848 284	8 2848	2848 284	8 2848	2848 2	848 284	8 -1	-1 -	1
AntFeederCable=1B	electricalDlDelay	PerFqRange i[4]	= -1 -1	-1 -1								
AntFeederCable=1B	electricalUlDelay	i[15] = 2848 2	848 2848	2848 284	8 2848	2848 284	18 2848	2848 2	848 284	3 -1	-1 -	1

### 43. For sector use RRU ( no feeder ) just leave it value -1

	Antenna branch	Sector 1	Sector 2	Sector 3	
	A	*			-
	В	*	*	*	1
	С	1 8 <del>4</del> 9	6		=
	D			. ×	
	E				
	F	0.000	0 a		-
tenna Feeder Cable Con ector	figuration				
tenna Feeder Cable Con ector ranch	figuration 2 A				
tenna Feeder Cable Con ector anch . attenuation(0. 1 dB):	figuration 2 A -1				
nna Feeder Cable Con tor anch attenuation(0.1 dB): attenuation(0.1 dB):	figuration 2 A -1				
tenna Feeder Cable Con ector ranch L attenuation(0.1 dB): L attenuation(0.1 dB): L delay(0.1 ns):	figuration 2 A -1 -1 -1				

# 44. Set follow photo

	Site Equipment C	onfiguration page 12(13)					
	HSDPA and	EUL configuration					
A and EUL configuration							
Steered HS Allocation:							
W board 1							
		DUW on slot 1					
Num HS code r	esou roes:	2					
Num ELL resources:		[- [i					
Hair Ed. (Ca	our cea.	[iA					
	Sector=1	Sector=2	Sec	ctor=3			
Carrier 1 HS code resource ID:	-	-		-			
Carrier 2 HS code resource ID:	-	-		2			
Carrier 3 HS code resource ID:				-			
Carrier 4 HS code resource ID:	-	-		-			
Carrier 5 HS code resource ID:	-	-		-			
Carrier 6 HS code resource ID:				-			
Carrier 7 HS code resource ID:	-	_		-			
Carrier 8 HS code resource ID:	-	-		-			
W board 2							
		DUW on slot 2					
Num HS code n	esources:	6					
Num EUL res	ources:	1					
	Sector=1	Sector=2	Sec	ctor=3			
Carrier 1 HS code resource ID:							
Carrier 2 HS code resource ID:				-			
Carrier 3 HS code resource ID:	-	-		-			
Carrier 4 HS code resource ID:				-			
Carrier 5 HS code resource ID:							

### 44. FINISH



45. After finish pls ask Gsc

- Set NGS (BB1 = 1, DUW = 3)
- Set Basebandpool
- Set RUs power (Follow existing Prelog)

# CHAPTER 2 BB PART

1. Copy BB script to C:\Cygwin\home\User

A 10 10 10 10		CONTRACTOR AND A CONTRACT PARTY AND						
G C Computer → Local Disk (C:) → Cygwin → home → User →								
Organize 🔻 📄 Open 🔻 Burn New folder								
🔆 Favorites	Name	Date modified	Туре					
🔜 Desktop	.bash_history	16-Jun-19 12:12 AM	BASH_HI					
鷆 Downloads	Ext_alarm_SAU_Tahir.mos	21-May-19 11:22	MOS File					
🖳 Recent Places	SAU.mos	17-May-19 11:17 P	MOS File					
🖾 OneDrive	SAU SAU	17-May-19 11:17 P	Text Doc					
	RW10086_SHINGYIN_dcg_k	14-May-19 1:31 PM	Text Doc					
ز Libraries	RW10040_INANAMBUSINE_dcg_k	13-May-19 1:50 PM	Text Doc					
Documents	03_S103A_S00108OD_SHINGYIN_AddL21_S13_Create	mos 12-May-19 9:03 PM	MOS File					
🚽 Music	S13_L21_C_R503_1_14_16_SiteEquipment.mos	12-May-19 9:03 PM	MOS File					
Pictures	RA10361_TGARUPLAZA_dcg_k	10-May-19 11:24	Text Doc					
📑 Videos	BB1_S090A_S00275OD_KENINGAUTOWN_dcg_k	09-May-19 10:02 P	Text Doc					
	RB10112_ASIACITYMALL_dcg_k	06-May-19 2:51 PM	Text Doc					
🤣 Homegroup	BB1_S093D_S00036OD_KALANSANAN_dcg_k	04-Apr-19 4:17 PM	Text Doc					

- 2. Login BB (online moshell)
- 3. Make a new CV backup (cvms backup\_before\_new\_L21)
- 4. Type
- <u>!</u>|s -
- Run < scriptname.mos > -
- Run 03\_S103A\_S00108OD\_SHINGYIN\_AddL21\_S13\_Create.mos -
- S13 L21 C R503 1 14 16 SiteEquipment.mos -

### BB1\_5103A\_S001080D\_SHINGYIN> 11s

03\_S103A\_5001080D\_SHINGYIN\_AddL21\_S13\_Create.mos BB1\_Q124D\_Q005200D\_HUNGHUNG\_dcg\_k.log BB1\_S090A\_S002750D\_KENINGAUTOWN\_dcg\_k.log BB1\_5093B\_5000480D\_KUWASA\_dcg\_k.log B81\_5093B\_5000480D\_KUWASA\_log BB1\_5093D\_S000360D\_KALANSANAN\_dcg\_k.log

BB1\_5098B\_5005480D\_KGSARIP\_dcg\_k.log BB1\_S113A\_L000080D\_SGBANGAT\_dcg\_k.log BB1\_5113A\_L000080D\_SGBANGAT\_dcg\_k\_modify.lc BB2\_S105A\_S016700D\_DOCHOSPITAL2SDK\_dcg\_k.lc BB2\_S110C\_S008570D\_TMNWAWASAN\_dcg\_k.log Create\_EquipSupportFunction\_Add\_batteryLoad

881\_S103A\_S001080D\_SHINGYIN> run 03\_S103A\_S001080D\_SHINGYIN\_AddL21\_S13\_Create.mos

#### 81\_5103A\_5001080D\_SHINGYIN> !]s

3\_5103A\_5001080D\_SHINGYIN\_AddL21\_513\_Create.mos B1\_Q124D\_Q005200D\_HUNGHUNG\_dcg\_k.log B1\_5090A\_5002750D\_KENINGAUTOWN\_dcg\_k.log B1\_5093B\_5000480D\_KUWA5A\_dcg\_k.log B1\_5093B\_5000480D\_KUWA5A\_log B1\_S093D\_S000360D\_KALANSANAN\_dcg\_k.log

BB1\_5098B\_5005480D\_KG5ARIP\_dcg\_k.log BB1\_S113A\_L000080D\_SGBANGAT\_dcg\_k.log BB1\_5113A\_L000080D\_SGBANGAT\_dcg\_k\_modify.log BB2\_S105A\_S016700D\_DOCHOSPITAL2SDK\_dcg\_k.log BB2\_S110C\_S008570D\_TMNWAWASAN\_dcg\_k.log Create\_EquipSupportFunction\_Add\_batteryLoad.mos S13\_L21\_C\_R503\_1\_14\_16\_SiteEquipment.mos

RA10361\_TGARUPLAZA\_dcg\_k.log RB10112\_ASIACITYMALL\_dcg\_k.log RW10040\_INANAMBUSINE\_dcg\_k.log RW10086\_SHINGYIN\_dcg\_k.log 5099A\_5014550D\_T3\_KM120KALABAKANNABAWAN\_dcg\_k.

81\_5103A\_5001080D\_SHINGYIN> run 513\_L21\_C\_R503\_1\_14\_16\_SiteEquipment.mos

5. All done pls ask Gsc to proceed

