

CCI's

SCU-AISG2-3

(Single and Triple AISG2.0 Output

Site Control Unit)

User Guide

Communication Components, Inc.



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1 Introduction

The CCI SCU (Site Control Unit) is used as an AISG device controller. It is compatible to AISG (Antenna Interface Standards Group) type of antenna with electrical adjustment capability, and provides web interface connected via Ethernet for performing remote antenna adjustment at any location.

1.1 Product Functions

The major functions provided in the CCI SCU include:

ASIG Antenna Adjustment/Management –

The major functions for remotely adjusting and managing antenna connecting to RET (Remote Electrical Tilt Actuator) are:

- a.) Antenna electrical downtilt setting
- b.) Antenna calibration
- c.) Maintenance of the antenna data
- AISG TMA Adjustment –

The major functions for remotely adjusting and managing TMA are:

- a.) TMA gain setting
- b.) TMA mode setting
- Site Management –

Site Management is used to keep basic information of a base station site like location, contact, site name and owner etc.

• System Setting –

System Setting is used to configure operating environment of the CCI SCU for managing antenna and CCI SCU through a web interface.

Account Management –

Account Management is used to manage and authorize accounts with different security levels for monitoring and managing antennas and CCI SCU



1.2 Product Components



LPD: Lighting Protection Device RET: Remote Electrical Tilt-down

Figure 1.1 Network Architecture



2 Installation

In this chapter, we will state the hardware specification, and how to setup the system. After finishing this chapter, you will be able to setup the CCI SCU.

2.1 Hardware Specification

The front panel of the CCI SCU has either one or three AISG ports (depending on the Model Number ordered), LED indicators, an RS-232 C connector and a USB 2.0 high speed serial data connector. The AISG female port(s) is (are) used to connect to the antenna's ACTUATOR (RET) via an AISG cable for controlling electrical down tilt, or to connect to an AISG Compliant Bias-T via an AISG cable which in turn provides power and control via an RF Coaxial Cable to the input of an AISG Compliant TMA. Please note that an AISG Compliant TMA will also have an AISG connector for connection to the antenna's Actuator via an AISG cable. The RS-232C port is used to connect a console to the SCU for direct management. The indicators show Alarm, Run and Power Status of the CCI SCU. The CCI SCU also has various connectors including DC Power Input, an Ethernet Port, USB 2.0 high speed serial data connector and a dry contact relay port ("Removable Terminal Block").

2.1.1 Dry Contact Alarm Relay Connector

The dry contact relay connection is made via a "Removable Terminal Block, or a DB9 connector.



Dry Contact	Dry Contact	Description	
Relay Pin Name	Relay Pin #		
IN	1	N/A	
01	2	Normally Closed	
O2	3	Normally Open	
03	4	Common	
GND	5	N/A	

Table 2-2 Dry Contact Relay Alarm Details for "DB9 Connector"

Dry Contact	Dry Contact	Description
Relay Pin Name	Relay Pin #	
01	1	Normally Closed
03	2	Common
	3	No Connection
	4	No Connection
	5	No Connection
02	6	Normally Open
	7	No Connection
	8	No Connection
	9	No Connection



2.1.2 Status Indicator Description

Status indicator and reset button description is as follows:

- 1. Alarm Indicator: [Red] LED will light up or blink when there is a warning condition.
- 2. **Power Indicator**: [Green] LED will light up when the power is connected.
- 3. **Run Indicator**: [Yellow] LED will blink when the system is running.
- 4. **Reset Button**: [RESET] when pressed, the CCI SCU will be restarted.

2.2 Hardware Setup

- 1. Connect the Ethernet port on the SCU to the BTS, or to a "Local" PC if the BTS is not ready to provide LAN Control of the SCU.
- 2. Connect +27VDC power to the DC input terminal block on the SCU.
- 3. Connect an AISG female port on the SCU to the AISG line device via AISG cable.

2.3 Web-Based Client System Requirement

Required:	IE 6.0 (Internet Explorer 6.0) or above for accessing and
	managing the CCI SCU.
Recommended:	Screen resolution of 1024 x 768 or higher



3 Login

Login to the CCI SCU to access and manage the system. In order to login to the SCU Launch Internet Explorer and enter the IP address of the CCI SCU with "http://" as the prefix to get the following logon page as shown in Figure 3.1 below. *Note: It is assumed that the user is familiar with the Network Connection setup in the applicable Windows Operating System.*

The default IP address is 192.168.0.30 and can be changed after login.

🖉 AISG Device Controller - Windows Internet Explorer			
C C C + I + I + I + I + I + I + I + I +		💌 🗟 😽 🗙 🧗 Live Search	P -
j Eile Edit View Favorites Tools Help 🕴 🗙 🇞 Conve	ert 👻 🛃 Select		
🖕 Favorites 🛛 🚕 🌉 cci Home page 🏾 🏉 Suggested Sites 🔻	🖉 Free Hotmail 🙋 Microsoft Exchange - Outlo	🎧 payentry.com 🔽 Tech Info - R5232 Cab	les a 🙋 Lexmark C532 🏾 🍟
AISG Device Controller		🟠 • 🔊 · 🖃 🖶 • Ba	ge 🕶 Safety 🕶 Tools 👻 🔞 🕈 🚉
			GHE9707077 / 3.2.1
0.01			
CCI - SCU-AISG2-1			
Login Sys	tem	Login	
User Name		Logar	
Password			
Done		🔯 😜 Internet	🐴 = 🔍 100% = 📑

Figure 3.1 – Login Window

The default system administrator User Name is "admin," with "admin" as the default Password. The default account has the full authority for access and management of the SCU. It is recommended that the password of the default administration account be changed after login. Create other accounts for general operations as required.

🖉 AISG Device Controller - Windows Internet E	xplorer		
COO - E http://192.168.0.30/pub/perl/index.pl		💌 🗟 👉 🗙 ಶ Live Search	P -
Eile Edit View Favorites Tools Help	🍖 Convert 👻 🛃 Select		
🚖 Favorites 🛛 🚕 👯 cci Home page 🏾 🏉 Suggest	ed Sites 🔻 🙋 Free Hotmail 🙋 Microsoft Exchange - Out	lo 🦷 payentry.com 🗹 Tech Info - R5232 Cables a 🙋 Lex	mark C532
AISG Device Controller		🏠 🔹 🖾 🐨 🖃 🖶 🍷 Bage 🕶 Safety 🕶	Tools 🔹 🕢 🔹 🛄
		G	HE9707077 / 3.2.1
CCI			
CCI - SCU-AISG2-1			
Lo	gin System	Login	
Use	r Name admin		
Pas	sword		
Done		🛛 😼 😜 Internet 🦛 🗣	🔍 100% 👻 💡

Figure 3.2 – Login Window with User Name and Password Entered



4 System Configuration

4.1 System Parameters Setting

The functionality of the [System Setting] panel is to set up system parameters for desired System operation. Click the "System Setting" Tab at the top of the AISG Device Controller window to view the System Setting window as shown in Figure 4.1.

🏉 AISG Device Cor	ntroller - Windows Int	ternet Explo	prer									
🔆 🔁 🔻 🙋 ht	tp://192.168.0.30/pub/per	l/index.pl				-	3 * 7 ×	🛛 🔊 Live	Search			P -
<u>File E</u> dit <u>V</u> iew	Favorites <u>T</u> ools <u>H</u> elp	: x 🍕	aConvert 🕞 🛃	Select								
🚖 Favorites 🧧	🛓 <u></u> cci Home page 🏾 🏀	Suggested Si	ites 🔹 🙋 Free H	otmail 🙋 Microsoft Ex	kchange - Outlo	ດື່ payentry	/.com 🔽 T	ech Info - R	.5232 Cable	sa 🙋 Le	xmark C532	,
AISG Device Contr	oller							•	-	▼ <u>P</u> age ▼	<u>S</u> afety ▼ T <u>o</u> ols	• ,
										GHE970	17077/3.2.1/ad	min
COI												
CCI - S	CU-AISG2-1											
Device Status	Antenna Config Fi	ile Site l	Information	System Setting	System Acc	ount Su	ımmary F	Report	Logout			
Network S	etting						Save	Reb	oot	Networ	k Test	ר ר
Data Name	Dat	ta Value			Data Name		Dat	ta Value				
IP Address	192.1	168.0.30]	SubNetwork Ma	ask	255.	255.255.0				
Gateway IP	192.1	168.0.30			SNMP Server IF	C	192.	168.0.30				
System Inf	ormation											
Data Name	Dat	ta Value			Data Name		Dat	ta Value				
Product Model	SCI	U-AISG2-1			Hardware Versi	on	1.0	.0				
Serial No.	GH	E9707077			Software Versio	on	3.2	.1				
UI Language	Eng	lish	~	Set								
Power Set	ting										Set	
Data Name	Dat	ta Value			Data Name		Dat	ta Value				
Power Supply	V	DC 12V	DC 24V		Power Mode		۲	Always (Dn O	Power Sav	e	
Device Set	ting											
Data Name	Dat	ta Value										
Scan Length	4		~	Set								
System Tir	ne Setting										Set	1
Data Name	Dat	ta Value			Data Name		Dat	ta Value				
Date	12/8/	/2009		Select Date	Time		16:3	2:33				
DI Setting												
Enable Posit	tion Device V	endor	Descriptio	n		Normal Ty	pe S	amplin <u>g</u>	period	Status		
1	PDU		TMA Alarm			O NC ⊙	NO	1			Set	
Done						1		👩 🌍 Inte	ernet		🐴 🔹 🍕 100°	~ N

Figure 4.1 – System Setting Window



4.1.1 Network Setting

Network Setting is used to set IP address, Subnet mask setting, Default Gateway IP and SNMP server IP addresses of the CCI SCU for remotely managing the system.

The default IP address, 192.168.0.30, should be changed to the IP address assigned to the SCU in your network.

Clicking the Save button on the Network Setting portion of the display will cause the confirmation (pop-up) window to appear.

Microsoft Internet Explorer 🛛 🗙			
2	Are you sure you want to save network setting?		
	OK Cancel		

Figure 4.2 – "Save Network Setting" Confirmation Window

Click the [OK] button (see Figure 4.2) on the confirmation (pop-up) window to initiate the save process.

C http://192.168.0.28/E/html/wait.htm - Wi	ndows 🔳 🗖 🚺
http://192.168.0.28/E/html/wait.htm	1
Process(save system) is runn wait	ing, please
	🔍 100% 🔻

Figure 4.3 – "Save Network Setting" Process Running Window

After the process is done, click the [Close] button (see Figure 4.4) on the process (pop-up) window to close the process window.



Figure 4.4 – "Save Network Setting" Process Finished Window

After saving, these parameter settings will only take effect after the CCI SCU



reboots. Please click [Reboot] button within the Network Setting (see Figure 4.1) in order to reboot the CCI SCU at this time.

4.1.2 Reboot

The confirmation (pop-up) window (see Figure 4.5) shows when clicking the [Reboot] button in the Network Setting portion of the display to reboot the CCI SCU.

Microsoft Internet Explorer 🛛 🔀				
?	Are you sure you want to reboot the system?			
	OK Cancel			

Figure 4.5 – "Reboot the System" Confirmation Window

Click the [OK] on confirmation (pop-up) window button to initiate the reboot process.



Figure 4.6 – "Reboot the System" Process Running Window

Note: No other pop-up window appears when the reboot process is completed.

4.1.3 System Information

System Information (see Figure 4.1) provides information of product model, serial no., hardware version and software version of the CCI SCU.

[UI Language] is used to change GUI language setting. Select preferred language and click [Set] button on the System Information portion of the window to apply the [UI Language] setting.



4.1.4 Power Setting

Power Setting (see Figure 4.1) is used to set the power supply voltage and supply mode used by the connected AISG devices.

Column Name	Constraint / Limit
Dowor Supply	DC 12V or DC 24V
Power Suppry	The selected power is turned on if its checkbox is checked
Dower Mode	If checked, the power will be continuous on; otherwise it
Fower Mode	will be on when a command is initiated

Click the [Set] button on the Power Setting portion of the window to initiate the process that applies [Power Supply] and [Power Mode] setting. Click the [Close] button (see Figure 4.7) on the pop-up window to close the process window when the process is finished.

🌈 http://192.168.0.30/pub/perl/finish.pl?p 🔳 🗖 🔀
🙋 http:// 192.168.0.30 /pub/perl/finish.pl?pName=Set%20Power&pF 🔀
Process (Set Power) is finished.
Close
🎱 Internet 🦓 🕶 🍕 100% 👻 📑

Figure 4.7 – "Set Power" Process Finished Window



4.1.5 Device Setting

The [Scan Length] value is to determine how many bit-mask bytes will be used to scan the device. The default is 3.

Click [Set] button on the Device Setting portion of the display (see Figure 4.1) to initiate the process that apply [Scan Length] value. Click [Close] button (see Figure 4.8) on the pop-up window to close the process window after the process is finished.

🌈 http://192.168.0.30/pub/perl/finish.pl?p 📃 🗖 🔀
💋 http://192.168.0.30/pub/perl/finish.pl?pName=Device%20Settin(🔯
Process (Device Setting) is finished.
Close
😜 Internet 🦓 🔹 🍕 100% 👻 🛒

Figure 4.8 – "Device Setting" Process Finished Window

4.1.6 System Time Setting

This function is to set system date and time. Time setting uses 24-hour format.

Click [Set] button on the System Time Setting portion of the display (see Figure 4.1) to initiate the process that apply the date and time onto the system. Click [Close] button (see Figure 4.9) on the pop-up window to close the process window after the process is finished.



Figure 4.9 – "Set System Time" Process Finished Window



4.2 System Account Management

The functionality of [System Account] panel is to manage user accounts for accessing the CCI SCU. Click the System Account Tab at the top of the AISG Device Controller window to view the "User List" as shown in Figure 4.10.

🖉 AISG Device Controller - Windows Internet Explorer				
🕞 🕞 🔻 🖉 http://192.168.0.30/pub/perl/index.pl		🖌 🗟 🗲 🗙 🥂 Live Search		
i Eile Edit Yiew Favorites Iools Help i 🗙 🎨	Convert 👻 🔂 Select			
🖕 Favorites 🛛 🙀 👯 cci Home page 🏾 🏉 Suggested Site	ites 🝷 🙋 Free Hotmail 🙋 Microsoft Exchange - Outlo 💲 pay	rentry.com 🔽 Tech Info - R5232 Cables a 🙋 Lexmark C532 🂙		
AISG Device Controller		🟠 🔹 🗟 🝸 🖃 🖶 🍷 Page 🗸 Safety + Tools + 🂙		
		GHE9707077 / 3.2.1 / admin		
CCI - SCU-AISG2-1				
Device Status Antenna Config File Site I	Information System Setting System Account	Summary Report Logout		
User List		Add User		
User Name Security Level	User Description			
admin Level 1	System Administrator	Modify		
Done 🕢 🔽 😡 Internet 🖓 🕶 🕏 100% 🔻 🕫				

Figure 4.10 – "System Account" Main Window

The default account is "admin" and its default password is "admin". You can modify the information for this account but you cannot delete it.

4.2.1 Add an User Account

The following (pop-up) window (see Figure 4.11) appears when clicking the [Add User] button.

C	🖉 Add User - Windows Internet Explorer				
e	http:// 192.168.0.30 /pub/perl/04v_a	iddUser.pl?key=434&			
	User Account Data		Save	Close	
	Data Name	Data Value			
	User Name				
	User Description				
	Password				
	Verify Password				
	Security Level	Level 1	*		
Do	ne [👩 😜 Internet		🔍 🔍 100% 🔹 🛒	

Figure 4.11 – "User Account Data" Window (after pressing "Add User")



Table 4-2 – "User Account Data" ID and Data Entry Constraints or Limits

Column Name	Description / Constraint
User Name	Has to be unique in the CCI SCU
User Description	Description of the user
Password	Password of the user account
Verify Password	Have to be the same as the value input in [Password]
	Level 1 : Have the full authority for accessing the CCI SCU
Security Level	Level 2 : Allow to access [Device Status], [Site Information]
	and [Summary Report] panel only

The confirmation window shows after clicking [Save] button (see Figure 4.12) on the confirmation (pop-up) window for creating a new account.

Microsoft Internet Explorer 🛛 🗙				
?	Are you sure you want to save this account ?			
	OK Cancel			

Figure 4.12 – "Save This Account" Confirmation Window

Click [OK] button (see Figure 4.13) to create this account and refresh the [System Account] panel. If the account already exists, the warning (pop-up) window will display.



Figure 4.13 – "Save This Account" Warning Window



4.2.2 Modify a User Account

[User Name] of account is not allowed to be changed and [Security Level] of the default account is not allowed to be changed.

[Password] and [Verify Password] are not required to be entered unless you want to change the existing password of an account.

The modification (pop-up) window (see Figure 4.14) displays after clicking [Modify] button on the account.

🖉 Modify User - Windows Internet Explorer					
e	http://192.168.0.30/pub/perl/04v_m	odifyUser.pl?user=jb&key:	=288.		
	User Account Data		Save	Close	
	Data Name	Data Value			
	User Name	jb			
	User Description	test account			
	Password				
	Verify Password				
	Security Level	Level 2	*		
Do	ne	😜 Internet	- A	🔍 100% 🔻 🛒	

Figure 4.14 – "User Account Data" Window (after pressing "Modify User")

The confirmation window (see Figure 4.15) shows after clicking [Save] button to store changes.



Figure 4.15 – "Edit This Account" Confirmation Window

Click [OK] button on the confirmation (pop-up) window to save the change of this account and refresh the [System Account] panel.



4.2.3 Delete an User Account

The confirmation window shows after clicking [Delete] button of the account.

Microso	ft Internet Explorer	×
?	Are you sure you want to delete this accour	nt?
	OK Cancel	

Figure 4.16 – "Delete This Account" Confirmation Window

Click [OK] button on the confirmation (pop-up) window (see Figure 4.16) to delete this account and refresh the [System Account] panel.



6 Using the CCI SCU

6.1 AISG RET/TMA Device Scan

All online RET/TMA antennas at the base station site that can be controlled remotely are listed on the [Device Status] panel. The down tilt angel of antenna or the TMA gain can be adjusted remotely without any on-site personnel. Click the Device Status Tab at the top of the AISG Device Controller window to view the "Device List" as shown in Figure 5.1.

C AISG Device	Controller - Win	dows Int	ernet Explorer						
🔄 🕞 🔻 🖉 http://192.168.0.30/pub/perl/index.pl									
Eile Edit Vi	ew F <u>a</u> vorites <u>T</u> o	ols <u>H</u> elp	🕴 🗙 🍖 Conv	rert 👻 🛃 Select					
🚖 Favorites	👍 🔜 cci Home	page 🏉	Suggested Sites 🔻	🥖 Free Hotmail 🙋 Microsol	it Exchange - Outlo 🦓 pa	ayentry.com 🗾 Tec	h Info - RS232 C	ables a 🙋 Lexma	rk C532
AISG Device (Controller					- 🟠 -	N - L	🖶 🝷 <u>P</u> age 👻 Safe	ity ▼ T <u>o</u> ols ▼ "
								CHE970707	7 / 3.2.1 / admin
aat									
CCI -	SCU-AISO	G2-1							
Device Stat	us Antenna C	onfig Fi	e Site Infor	mation System Setti	ng System Account	Summary Re	port Logo	ut	
Device	List					Scan Ad	l Device	Refresh	Save
RET Devic	e								
Sector ID	Band	Detail	Vendor	Antenna Model	Antenna Serial No.	Electrical Tilt	Total Tilt	Device Status	
SECTOR MG	1700/1700/18	<u>Detail</u>	RYMSA SA	MG D3 800	MG SERIAL	10.0	15.0	ОК	Reset
TMA Devi									
Sector ID	Band	Detail	Vendor	TMA Serial No.	Antenna Serial No.	Current Gain	Mode	Device Status	
		<u>Detail</u>	CCI	NH17090003		6.5	Normal	ОК	Reset
		Detail	CCI	NH17090003		9	Normal	ОК	Reset
		<u>Detail</u>	CCI	NH17090003		9	Normal	ОК	Reset
		<u>Detail</u>	CCI	NH17090003		6.5	Normal	ОК	Reset
					5	3	😝 Internet		• 🔍 100% • 💡

Figure 5.1 – "Device Status" Window (after performing a Scan)

In the panel, devices will be listed in the RET and/or TMA device list according to its device type. The important device information (refer to the table below for explanation) of each device is retrieved directly from the internal storage of the CCI SCU.

Device information will be updated after any scanning, refreshing, resetting and/or adding device action.



RET Device

Table 6-1 – "RET Device" ID and Data Entry Constraints or Limits

Column Name	Description / Constraint		
Sector ID	Sector ID		
Band	Current applied frequency band(s)		
Detail	A link for Antenna (RET) adjustment function		
Vender	Vendor name		
Antenna Model	Antenna model no.		
Antenna Serial No.	Antenna serial no.		
Electrical Tilt	Current electrical down tilt value		
Total tilt	Sum of mechanical tilt and electrical tilt		
Device Status	It can be "OK" or device alarm messages		

TMA Device

Table 6-2 – "TMA Device" ID and Data Entry Constraints or Limits

Column Name	Description / Constraint		
Sector ID	Sector ID		
Band	Current applied band(s)		
Detail	A link for TMA adjustment function		
Vender	Vendor name		
Antenna Model	Antenna model no.		
Antenna Serial No.	Antenna serial no.		
Current Gain	Current gain value		
Mode	TMA gain mode can be "Bypass" or "Normal".		
Device Status	It can be "OK" or device alarm messages.		



2.1.1 Scan

This function is to scan for current connected AISG devices and display them on the device list. The confirmation (pop-up) window (see Figure 5.2) shows after clicking [Scan] button.



Figure 5.2 – "Scan Device" Confirmation Window

Click [OK] button on the confirmation (pop-up) window (see Figure 5.3) to initiate the process.

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🔊 http://192.168.0.30/pub/perl/wait.pl?pName=Scan&fName=scan				
Process (Scan) is running, please wait				
👩 🌖 Internet 🦓 👻 🔍 100%	•			

Figure 5.3 – "Scan" Process Running Window

The [Device Status] panel will be updated after the process is finished. Click [Close] button on the process (pop-up) window (see Figure 5.4) to close the process window.

🖉 http://192.168.0.30/pub/p	erVfinish.pl?p 🔳 🗖 🔀
🕖 http://192.168.0.30/pub/perl/finish	n.pl?pName=Scan&pResult=% 🔯
Process (Scan) is finished.
Clos	5e
👩 😜 Internet	🖓 🔹 🔍 100% 💌 🛒

Figure 5.4 – "Scan" Process Finished Window

You have to save scanned information via the [Save] button before navigating to other web pages; otherwise this information won't be saved in the CCI SCU.



If clicking [Detail] or another tab before saving, the confirmation (pop-up) window (see Figure 5.5) shows.

Window	rs Internet Explorer 🛛 🔀
2	Device data is not saved. Do you want to save device data ?
	OK Cancel

Figure 5.5 – "Device Data Not Saved; Save Device Data?" Window

Click [OK] button on the confirmation (pop-up) window to save device information, prior to navigating to another web page.

2.1.2 Add a Device

This function is to add a specific device into the CCI SCU if a device cannot be found through scan process or you would like to add it manually.

The input window (see Figure 5.6) shows after clicking [Add Device] button in the "Device List" window shown in Figure 5.1. Entry of the [Vendor Code] is optional.

a Add Device Webpage Dialog 🛛 🔀
http://192.168.0.30/pub/perl/01v_addDevice.pl
Vendor Code : Serial No. :
Add Close
http://192.168.0.30/pub/perl/01v_ 😜 Internet

Figure 5.6 – "Add Device" Pop-up Window

Click [Add] button in the process (pop-up) window (see Figure 5.7) to initiate the process.



Figure 5.7 – "Add Device" Process Running Window



When the add process is finished, it will refresh the [Device Status] panel and automatically go back to the [Device Status] panel.

You have to save the added device information via [Save] button before navigating to other web pages; otherwise the device information won't be saved in the CCI SCU.

If clicking [Detail] or another tab before saving, the confirmation (pop-up) window (see Figure 5.8) shows.

Window	s Internet Explorer 🛛 🛛 🗙
2	Device data is not saved. Do you want to save device data ?
	OK Cancel

Figure 5.8 – "Device Data Not Saved; Save Device Data?" Window After Performance of "Add Device"

Click [OK] button on the confirmation (pop-up) window (see Figure 5.8) to save device information, prior to navigating to another web page.

2.1.3 Refresh

This function is to get the latest device information of devices on the device list.

Click [Refresh] button in the "Device List" window shown in Figure 5.1 to initiate the process (see Figure 5.9).

🖉 http://192.168.0.30/pub/perl/wait.pl?pNa 🔳 🗖 🔀
💋 http://192.168.0.30/pub/perl/wait.pl?pName=Refresh&fName=re
Process (Refresh) is running, please wait
👩 🌒 Internet 🖓 100% 🔻 🛒

Figure 5.9 – "Refresh" Process Running Window

The [Device Status] panel is refreshed when the process is finished. Click [Close] button (see Figure 5.10) in the process (pop-up) window to close the process window.



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🙋 http://192.168.0.30/pub/perl/finish.pl?pName=Refresh&pResult=
Process (Refresh) is finished.
🔽 🚭 Internet 🦓 👻 🔍 100% 👻

Figure 5.10 – "Refresh" Process Finished Window

2.1.4 Save

This function is to save device information updated into the storage of the CCI SCU.

Click [Save] button to initiate the process in the "Device List" window shown in Figure 5.1.



Figure 5.11 – "Save Device" Process Running Window

After the process is done, click [Close] button (see Figure 5.12) in the process (pop-up) window to close the process window.



Figure 5.12 – "Save Device" Process Finished Window



2.1.5 Reset

This function is to reset device software and get the latest device information.

Click [Reset] button in the "Device List" window shown in Figure 5.1 to initiate the reset process of the device.



Figure 5.13 – "Reset" Process Running Window

After the process is done, click [Close] button (see Figure 5.14) in the process (pop-up) window to close the process window.

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http://192.168.0.30/pub/perl/finish.pl?pName=Reset&pResult=&	
	_
Process (Reset) is finished.	
Close	
🔽 📢 Internet 🦓 🔹 🍕 100% 🔻	

Figure 5.14 – "Reset" Process Finished Window



6.2 AISG RET/TMA Adjustment

The RET/TMA adjustment page displays after clicking [Detail] of a RET/TMA device from the "Device List" as shown in Figure 5.1 on the [Device Status] panel.

More detailed information of the antenna, and the RET or the TMA are displayed. This information can be changed and stored into the storage of the CCI SCU. Some of the information is preloaded by the device itself, other information requires "User" data entry and yet other items require that they be "set."

🖉 AISG I)evice Cor	ntroller - Windows Intern	net Explorer						
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Device	status	Antenna Coung File	Site Information	system setting	Sys	tem Account		ort Logout	
Ant	enna D	ata							Save Selected
	Data I	lame	Data Value					Data Value	
	Sector	ID	SECTOR MG			Antenna Model		MG D3 800	*
	Site ID	1	BASE STATION MG			Antenna Serial No.		MG SERIAL	
	Installe	er ID	RYMSA			Frequency Ba	and	1700/1700/1800	D/1900 Sel
	Installa	ation Date (mmddyy)	120508			Beam Width ((split by /)	47/46/23/24	
	Bearin	g	0			Antenna Gain	(split by /)	9.0/8.0/6.5/7.5	
	Mecha	inical Tilt	5.0						
AIS	G V2.x	RET (address=2	2)					Calibrate	Download Software
Data	Name	×.	Data Value		Data	Name		Data Value	
Devid	ce Status		ок		Vendor			RYMSA SA	
RET Model Name 00000650412240		RET Hardware Version			2.3				
RET Serial No. 87838525725000675		RET Software Version			4.0				
Min [*]	Min Tilt - Max Tilt 0.0 - 10.0		Currer	nt Tilt		10.0 S	et Tilt Get Tilt		
					_				
Done							1 6	😌 Internet	🖓 🕶 🔍 100% 💌 🚊

Figure 5.15 - RET Device Detail Window (Shows Antenna & AISG V2.x RET Device Data)



C AISO	G Devic	e Controller - Windows Intern	et Explorer						
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Eile	Ele Edit View Favorites Iools Help 🛛 🗙 🆓 Convert - 🔂 Select								
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🏉 AIS	🍘 🖌 🔝 👘 🖬 🖉 Bage + Safety + Tools + 👋								
C	GHE9707077/3.2.1/admin								
Devi	L ice Sta	- SCU-AISG2-1 Itus Antenna Config File	Site Information	System Setting	Sys	tem Account	Summary Rej	port Logout	
ł	Anter	ma Data							Save Selected
		Data Name	Data Value					Data Value	
		Sector ID				Antenna Mode	I		
		Site ID	CCI Proprietary			Antenna Seria	l No.		
		Installer ID				Frequency Band			Sel
		Installation Date (mmddyy)				Beam Width (split by /)		
		Bearing	0			Antenna Gain	(split by /)		
		Mechanical Tilt	0.0						
ł	4ISG	V2.x TMA (address=	1, subunit=1)						Download Software
L L	Data Na	ame	Data Value		Data	Name		Data Value	
1	Device \$	Status	ок		Vendo	r		Communication	Components Inc.
1	MA Mo	odel	ASC1819VG09A		TMA Hardware Version		1	RevB	
1	TMA Serial No.		NH17090003		TMA Software Version			1.1.13	
P	Min - Max Receive Frequency Band		1850 - 1910		Туре			Bypass	
1	Min - Max Transmit Frequency Band		1930 - 1990		Mode			Normal 🖌 S	et Mode Get Mode
I	Min Gain - Max Gain		1 - 9		Current Gain		6.5 💌	Set Gain Get Gain	
(Gain Resolution		0.25						
Done					_				₽ 100% - ₹

Figure 5.16 - TMA Device Detail Window (Shows Antenna & AISG V2.x TMA Device Data)



2.2.1 Antenna Data

The following table describes the antenna information displayed on the Detail. You can update any changed information into the storage of the CCI SCU.

Antenna Data

Column Name	Description / Constraint	
Sector ID	Sector ID	
Site ID	Base station site ID	
Installer's ID	Installer's ID	
Installation Date	mmddyy format	
Bearing	Antenna bearing in the range of 0-359 degree	
Mechanical tilt	Installed mechanical tilt in degree	
Antenna Model	If you cannot find a proper antenna model for the RET, please refer "Antenna Configuration File" for how to add your antenna model.	
Antenna Serial No.	Antenna serial no.	
Frequency Band	Frequency band(s) used by the antenna	
Beam Width	Beamwidth for each band in frequency order. Split by	
Antenna Gain	Gain for each band in frequency order. Spit by /	

Table 6-3 – "Antenna Data" ID and Data Entry Constraints or Limits



Click [Save Selected] button to initiate the process for storing data value(s) with the checkbox checked (as shown in the red block below).

🖉 AISG Device Controller - Windows Internet Explorer										
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									GHE9707077 / 3.2.1 / adm	nin
C	CI - s	CU-AISG2-1								
Dev	ice Status	Antenna Config File	Site Information	System Setting	Syst	tem Account	Summary Repo	rt Logout		
Δ	ntenna D	ata							Save Selected	1
	Data	Vame	Data Value					Data Value	bave beleeted	
	Sector		SECTORING			Antenna Model		MG D3 800		1
	Site IE)	BASE STATION MG			Antenna Serial No.		MG SERIAL		
	-] Installe	er ID	RYMSA			Frequency Band		700/1700/1800	D/1900 Sel	
] Install	ation Date (mmddyy)	120508		V	Beam Width (split by /) 4	7/46/23/24		
] Bearin	g	0			Antenna Gain	(split by /)	0.0/8.0/6.5/7.5		
E] Mecha	anical Tilt	5.0							
Α	ISG V2.3	x RET (address=2	!)					Calibrate	Download Software	
Data Name Data		Data Value		Data Name			Data Value			
Device Status Not Calibrated		Not Calibrated		Vendor			RYMSA SA			
RET Model Name 00000650412240		RET Hardware Version			2.3					
RET Serial No. 87838525725000675			RET Software Version			4.0				
М	in Tilt - Max 1	Filt	0.0 - 10.0		Curren	t Tilt	[S	et Tilt Get Tilt	
Done						1	Ir 😜 🛐	nternet	🐴 🕶 🍕 100%	•

Figure 5.17



Figure 5.18 – "Save Selected" Process Running Window

After the process is finished, click [Close] button to close the process window.



🖉 http://192.168.0.30/pub/perl/finish.pl?p 🔳 🗖	
http://192.168.0.30/pub/perl/finish.pl?pName=Save%20Selectec	
Process (Save Selected) is finished.	
🔹 😜 Internet 🆓 🕶 🕄 100%	

Figure 5.19 – "Save Selected" Process Finished Window

2.2.2 RET Data & Tilt Adjustment

In this section, it will cover functionalities of RET calibration and tilt value adjustment. The following table describes the RET information displayed on the Detail.

AISG V1.x RET (or AISG V2.x RET)

Table 6-4 - AISG V1.x RET (or AISG V2.x RET) ID and Data EntryConstraints or Limits

Column Name	Description / Constraint
Device Status	It can be "OK" or device alarm messages
RET Model Name	RET model name
RET Serial No.	RET serial no.
Vender	Vender name
RET Hardware Version	RET hardware version
RET Software Version	RET software version
Min Tilt Moy Tilt	Allowed electrical down tilt range of the selected antenna
MIII IIIt - Max IIIt	model
Current Tilt	Tilt setting should be in the range of [Min Tilt - Max Tilt].

Calibrate

This function is to do calibration between the RET device and the antenna.

The confirmation window shows after clicking [Calibrate] button.





Figure 5.20 – "RET Calibration" Confirmation Window

Click [OK] button to initiate the process.

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🕖 http://192.168.0.30/pub/perl/wait.pl?pName=Calibrate&fName=				
Process (Calibrate) is running, please wait				
👩 🌒 Internet 🦓 👻 🍕 100% 👻				

Figure 5.21 – "RET Calibration" Process Running Window

After the process is done, click [Close] button to close the process window.

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🙋 http://192.168.0.30/pub/perl/finish.pl?pName=Calibrate&pResult 🔯
Process (Calibrate) is finished.
Close
👩 🌒 Internet 🦓 🔹 🍕 100% 👻 🛒

Figure 5.22 – "RET Calibration" Process Finished Window

• Set Tilt

This function is to change the electrical down tilt angle of the antenna.

The confirmation window shows when clicking [Set Tilt] button for applying a down tilt value entered in the [Current Tilt].





Figure 5.23 – "Set Tilt" Confirmation Window

Click [OK] button to initiate the process of changing down tilt angle.



Figure 5.24 – "SET Tilt" Process Running Window

After the process is done, click [Close] button to close the process window.

🖉 http://192.168.0.30/pub/perl/finish.pl?p 📃 🗖 🔀				
💋 http://192.168.0.30/pub/perl/finish.pl?pName=Set%20Tilt&pResi				
Set Tilt : Not Calibrated [0x0E] Close				
👩 🌍 Internet 🦓 🔹 🔍 100% 🔹 🛒				

Figure 5.25 – "SET Tilt" Process Finished Window

• Get Tilt

This function is to get the current down tilt angle of the antenna.

After clicking [Get Tilt] button, the current down tilt value shows in a popup window.





Figure 5.26 – Tilt Setting Value Window (Value shown in "Script" Window)



2.2.3 TMA Data & TMA Adjustment

In this section, it will cover functionalities of TMA mode and gain adjustment. The following table describes the TMA information displayed on the Detail.

AISG V1.x TMA (or AISG V2.x TMA)

Table 6-5 - AISG V1.x TMA (or AISG V2.x TMA) ID and Data Entry Constraints or Limits

Column Name	Description / Constraint
Device Status	It can be "OK" or device alarm messages
TMA Model Name	TMA model name
TMA Serial No.	TMA serial no.
Vender	Vender name
TMA Hardware Version	TMA hardware version
TMA Software Version	TMA software version
Min - Max Receive Frequency Band	Allowed receive frequency band range
Min - Max Transmit Frequency Band	Allowed transmit frequency band range
Min Gain - Max Gain	Allowed gain range of the TMA model
	An gain increment from min gain to max
Gain Resolution	gain; For fixed gain or non-linear gain
	TMA, this value is always zero
Turne	It's TMA type that can be "Bypass" and/or
туре	"VSWR"
Mode	TMA mode can be "Bypass" or "Normal"
Current Gain	The value should be in the range of [Min
Current Gam	Gain - Max Gain].

• Set Mode

This function is to set the TMA mode that can be Bypass or Normal.

The confirmation window shows when clicking [Set Mode] button for applying a mode selected in the [Mode].





Figure 5.27 – "Set Mode to: Bypass)" Confirmation Window for TMA

Click [OK] button to initiate the process of changing TMA mode.

🖉 http://192.168.0.30/pub/perl/wait.pl?pNa 🔳 🗖 関				
🙋 http://192.168.0.30/pub/perl/wait.pl?pName=Set%20Mode&fNai				
Process (Set Mode) is running, please wait				
🔽 🌍 Internet 🦓 🗸 🔍 100% 🔻 🤢				

Figure 5.28 – "Set Mode" Process Running Window for TMA

After the process is done, click [Close] button to close the process window.

🖉 http://192.168.0.30/pub/perl/finish.pl?p 🔳 🗖 🔀
🖉 http:// 192.168.0.30 /pub/perl/finish.pl?pName=Set%20Mode&pR 🔯
Process (Set Mode) is finished.
Close
🔞 🌖 Internet 🛛 🖓 🔹 🍕 100% 👻 🛒

Figure 5.29 – "Set Mode" Process Finished Window for TMA

• Get Mode

This function is to get the current TMA mode.

After clicking [Get Mode] button, the current TMA mode setting shows in a popup window.

VBScrip	t: Get Mode	×
٩	Mode : Bypass	
	OK	





Set Gain

This function is to set the TMA gain that has to be between min gain and max gain. The gain may be selected in 0.25 dB increments from the pull-down menu as shown in Figure 5.31 below.

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CC	I - scu-aisg2-1							GHE9707077 / 3.2.1 / admin	
Device S	tatus Antenna Config File	Site Information	System Setting	Sys	tem Account Su	mmary Rep	1./5 ▲ 2 0 2.25	ogout	
Ante	enna Data						2.5	Save Selected	
	Data Name	Data Value					3 3.25 al	lue	
	Sector ID				Antenna Model		3.5		
	Site ID	CCI Proprietary			Antenna Serial No.	4	1		
	Installer ID				Frequency Band	4	1.5	Sel	
	Installation Date (mmddyy)				Beam Width (split I	by /)	4.75 5		
	Bearing	0			Antenna Gain (split	t by /)	5.25		
	Mechanical Tilt	0.0					5.75		
AIS	G V2.x TMA (address⁼	=1, subunit=1)					5.25	Download Software	
Data	Name	Data Value		Data	Name		6.75 al	lue	
Device	e Status	ОК		Vendo	or		7.25 ni	ication Components Inc.	
TMA I	Model	ASC1819VG09A		TMA I	Hardware Version		7.5		
TMA S	Serial No.	NH17090003		TMA S	Software Version	8	3		
Min - I	Max Receive Frequency Band	1850 - 1910		Туре		2	3.5		
Min - I	Max Transmit Frequency Band	1930 - 1990		Mode		8	3.75	Y Set Mode Get Mode	
Min G	ain - Max Gain	1 - 9		Currer	nt Gain		9 🗸	Set Gain Get Gain	
Gain F	Resolution	0.25							
					57				
Done					1	-0 (🍠 Internet	t 🦓 🕶 🔍 100%	•:

Figure 5.31 – Gain Values Available in "Pull-Down" Menu within the Device Status Window

The confirmation window shows when clicking [Set Gain] button for applying a gain value entered in the [Current Gain].

Message	from webpage 🛛 🔀
?	Are you sure you want to set gain to :(6.5)?
	OK Cancel

Figure 5.32 – "Set Gain" Confirmation Window for TMA



Click [OK] button to initiate the process of changing TMA gain.

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🖉 http://192.168.0.30/pub/perl/wait.pl?pName=Set%20Gain&fNam
Process (Set Gain) is running, please wait
👩 🌒 Internet 🦷 👻 100% 🔻 🧋

Figure 5.33 – "Set Gain" Process Running Window for TMA

🖉 http://192.168.0.30/pub/perl/finish.pl?p 📃 🗖 🔀
💋 http://192.168.0.30/pub/perl/finish.pl?pName=Set%20Gain&pRe 🔀
Process (Set Gain) is finished.
🔽 😪 Internet 🦓 🕶 🕄 100% 👻 🛒

Figure 5.34 – "Set Gain" Process Finished Window for TMA

Get Gain

This function is to get the current TMA gain value.

After clicking [Get Gain] button, the current TMA gain value shows in a popup window.

VBScrip	t: Get Gain	
٩	Current Gain : 6.5	
	OK	

Figure 5.35 – Current Gain Setting Value Window (Value shown in "Script" Window)



• Site Information

The [Site Information] panel allows a user or an on-site engineer to fill in and save the site information for reference.

🖉 AISG Device Cor	ntroller - Windows Intern	et Explorer							
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Data Name	Data Value	Da	ta Name	Data V	alue	Data Name	Data Va	lue	
Site ID		Si	e Name			Site Owner			
Leased Line		Lo	ngitude			Latitude			
BSC/RNC		Si	е Туре			Device Type			
Room ID		To	ver			Antenna Height			
Contact		Pł	one No			Mobile Phone			
Address									
Comment									
User Field 01									
User Field 02									
User Field 03									
Done					5	1 🗔 🌍 In	ternet		100% -

Figure 5.36 – Site Information Window

After filling in site data, click [Save] to initiate the process for storing information in the CCI SCU.



Figure 5.37 – "Save Site Info" Process Running Window

After the process is done, click [Close] button to close the process window.



🖉 http://192.168.0.30/pub/perl/finish.pl?p 📃 🗖 🔀
💋 http://192.168.0.30/pub/perl/finish.pl?pName=Save%20Site%21 🔀
Process (Save Site Info) is finished.
💽 😜 Internet 🦓 🕶 🔩 100% 👻 🧾

Figure 5.38 – "Save Site Info" Process Finished Window

6.3 Summary Report

The [Summary Report] panel will display the summary information of the CCI SCU and provides the downloading function of the system summary report and the system access history.

The summary report includes all detailed information of each device, the site information, the network setting information and the system information.



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CCI		:; CHE9707077 / 3.2.1 /						
Device Status	CU-AISG2-1 Antenna Config File	Site Information	System Setting	System Account	Summary Report	Logout		
							ה	
	Summary Re	port 12/8/2009 16:3	4:21	Download R	eport Download	Access Log		
	TMA Device List							Ξ
	Data Name		Data Value					
	Sector ID							
	Site ID		CCI Proprietary					
	Installer ID						_	
	Installation Date (mmddyy)						
	Bearing		0					
	Mechanical Tilt		0.0				-	
	Antenna Model							
	Antenna Serial No).						
	Frequency Band							
	Beam Width (split	: by /)	0				-	
	Antenna Gain (spl	lit by /)	0.0					
	AISG Version		V 2 .x					
	Device Status		OK				-	
	Vendor Than has del		Communication C	components Inc.			-	
	TMA Social No.		ASC1819VG09A				-	
	TMA Serial No.	reion	RovB					
	TMA Software Ver	reion	1 1 13				-	
	Type	101011	Bunass				-	
	Mode		Normal					~
http://192.168.0.30/pul	b/perl/00v_header.pl#		, i connar	7	n 😜 🛐	nternet	- 	-

Figure 5.39 – "Summary Report" Window

Click [Download Report] button to store the information on the [Summary Report] panel into the SummaryReport.html.

Click [Download Access Log] to download access history into the AccessLog.txt that records what action was took, when an action was took, and who took the action.



7 Antenna Configuration File

The functionality of the [Antenna Config File] panel is to manage antenna configuration files of the CCI SCU.

An antenna configuration file is to provide configuration data used to configure the RET and a connected antenna of a specific antenna model.

🖉 AISG Device Controller - Windows Inte	rnet Explorer					
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	Data Name	Data Value				
	Vendor	Andrew (AN)	*	Add Del		
	Config File		Br	owse		
	Antenna Model Name					
	AISG Model Name					
	Version					
				Upload		
	.					
Done				Ir	ternet	<i>√</i> 2 • € 100% • .:

Figure 6.1 – Antenna Configuration Window



7.1 Vendor Management

2.1.1 Add a Vendor

The vendor must exist in the [Vendor] list prior to its antenna model configuration files uploading. This function is to add a vendor for storing its antenna model configuration files.

The following window displays after clicking [Add] button.

🖉 Add Vendor Webpage Dialog 🛛 🛛 🔀
http://192.168.0.30/pub/perl/01v_addVendor.pl?key=383&
Vendor Code :
Add Close
http://192.168.0.30/pub/perl/01v_ 😜 Internet

Figure 6.2 – "Add Vendor" Pop-up window

Click [Add] button to initiate the process window for adding the vendor code into the system and refreshing the [Vendor] list on the [Antenna Config File] panel.

After the process is finished, click [Close] button to close the process window.

🧷 http://192.168.0.30/pub/perl/finish.pl?p 📃 🗖 🛛		
http://192.168.0.30/pub/perl/finish.pl?pName=Add%20Vendor&		
Process (Add Vendor) is finished.		





2.1.2 Delete a Vendor

This function is to remove the vendor. Before deleting a vendor, you have to make sure there is no any model exists under this vendor.

Select the vendor that would like to be deleted from the [Vendor], then click [Delete] button. The confirmation window displays.

Windows	s Internet Explorer 🛛 🔀
2	Are you sure you want to delete this vendor(AA) ?
	OK Cancel

Figure 6.4 – "Delete Vendor" Confirmation Window

Click [OK] button to delete the selected vendor from the system and refresh the [Vendor] list on the [Antenna Config File] panel.

If there is a model under the selected vendor, the following warning message shows up and the vendor won't be deleted.

Microsoft Internet Explorer		
⚠	Delete Vendor failed. Empty models first.	
	ОК	

Figure 6.5 – "Delete Vendor Failed" Warning Window (Models must be Empty First)



7.2 Antenna Model Management

2.2.1 Add an Antenna Model

The vendor must exist in the [Vendor] list before its antenna models can be uploaded. This function is to upload a model's configuration file of the selected vendor into the CCI SCU. Refer the following table for detail information of each input field.

Column NameDescription / ConstraintVendorVendor nameFilename with its full path should be provided.Config FileOnly a file with extension of .bin or .acf is allowed.File Size has to be less than 0.5KModel NameThe configuration filename will be used as the default model name that is allowed to be changed.
The max. length of a model name is 15.VersionThe antenna model version (Optional)

Table 7-1 – Antenna Value ID and Data Entry Constraints or Limits

Click [Upload] button after filling in all required information. The confirmation window shows with entered information.

Microsoft Internet Explorer			
Are you sure you want to upload this file? Vendor: Alcatel Config File: AA_TBX_LO.acf Model Name: AA_TBX_LO Version: 2.0			
(OK Cancel		

Figure 6.6 – "Antenna Config File Upload" Confirmation Window



Click [OK] button to initiate the upload process. When the process is finished, click [Close] to close the process window.

ę	http://192.168.0.90/pub/perl/finish.pl?pName= 🔲 🗖 🗙
	Process (Upload File) is finished.
	Close

Figure 6.7 - "Antenna Config File Upload" Process Finished Window



2.2.2 Delete an Antenna Model

This function is to delete an antenna model of a specific vendor out of the CCI SCU.

Click [View] button to bring up the whole antenna model list of each vendor in the CCI SCU.

🖉 Antenna Config File - Windows Internet Explorer 📃 🗖 🔀						
http://192.168.0.30/pub/perl/05v_antList.pl?						
		AN E	-		Vondo	
			<u>A</u>		► Venuo	
	Andrew (AN)			View AISG Model	Name] [top]	
	Antenna Model Name	Version	Date	Size		
	926LG65VTE-B		2/3/2009	64 Byte	Del	=
	ADFD182A-6565B-XDM		2/3/2009	40 Byte	Del	
	ADFD182A-65B-R2DM		2/3/2009	40 Byte	Del	
	DBXH2-6565A-VTM-HI		2/3/2009	48 Byte	Del	
	DBXH2-6565A-VTM-WI		2/3/2009	64 Byte	Del	
	DBXLH-6565A-VTM-HI		2/3/2009	40 Byte	Del	
	DBXLH-6565A-VTM-LO		2/3/2009	64 Byte	Del	
	DBXLH-6565B-VTM-HI		2/3/2009	56 Byte	Del	
	DBXLH-6565B-VTM-LO		2/3/2009	48 Byte	Del	
	HBX-6513DS-VTM		2/3/2009	52 Byte	Del	
	HBX-6516DS-VTM		2/3/2009	48 Byte	Del	
	HBXX-6513DS-VTM		2/3/2009	56 Byte	Del	
	HBXX-6516DS-VTM		2/3/2009	48 Byte	Del	
	TBXLHA-6565C-VTM-HI		2/3/2009	40 Byte	Del	
	TBXLHA-6565C-VTM-LO		2/3/2009	40 Byte	Del	
	TBXLHB-6565A-VTM-HI		2/3/2009	40 Byte	Del	
	TBXLHB-6565A-VTM-LO		2/3/2009	64 Byte	Del	
	UMWD-06513-R2DH		2/3/2009	64 Byte	Del	~
			😌 Inter	net	- 🐴 🔹 🔍 1	00% 🔻 🤢

Figure 6.8 – Antenna Config Details Window (Available Vendor Codes Listed at Top)

Clicking the vendor code on the top of the page (as shown in red block above) will jump to the antenna model list of the selected vendor.

Click [Del] button on the selected antenna model of the selected vendor to delete the selected antenna model from the system.



SCU

User Guide

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