## Case study of Tree Survey problem for KX-UDS/UDT

(KX-UDS/UDT series)

No. 44-009

March 29 , 2013

Ver.1.0

**Panasonic Corporation** 

#### Abstract about this document

This document describe about case study of Tree Survey problem for KX-UDS/UDT series.

#### **Revision history**

Date	Version	Revision	Firmware version
Mar. 29, 2013	Ver. 1.0	Initial Release	All versions

## **Before case study**

As advice, we recommend making of Site MAP of CS.

As a merit, the maintenance after the running system becomes easy.

Such as confirmation of the call area or to solve radio signal trouble.

## Procedure of making Site MAP

- 1. To prepare the Site MAP.
- 2. To write down the location of CS.

#### 3. To write down the CS Index No. and MAC address.

(MAC address is written on the rear side of each CS.)



#### **Overview**

This document describes solutions using concrete example about the problem that occurred when you conduct Tree Survey. Please refer to case study as follow.

#### **Case Study**

- 1. If error message is displayed "CS does not have Primary CS." ➡ Error !!! CS does not have Primary CS.
- 2. If you find a low radio signal level after successful of Tree Survey. → Low radio signal level after successful of Tree Survey.

## 1. If error message is displayed, Error !!! CS does not have Primary CS.

Note:

Tree Survey has two procedures.

- 1. CS Web
- 2. CS Maintenance Tool

If the Tree Survey will be conducted for 10 or more CSs, please use the CS Maintenance Tool instead.

1.1)If error message "CS does not have Primary CS" was displayed, you should conduct Tree Survey by CS Maintenance Tool. (You cannot solve it by CS Web.)

Panasonic		Error!!! CS does not have Primary CS.
SIP CS KX-UDS124	Status Network <b>System</b> VolP Telephone Maintenance	
Web Logout	Tree Survey	🔗 SIP CS KX-UDS124 - Windows Internet Explorer
Web Port Close	Tree Survey Complete Click the Start Tree Survey	Results
System	Tree Survey	Please click 'OK' button.
Web Language	Air Sync Group	
Administrator Password	This "Tree Survey" is executed to all the CS in Survey List.	
Web Server Settings	Tree Survey	ERRORULL CS does not have Primary CS
Time Setting	This "Result Application" is executed to all the CS in Survey List.	CS9
Time Adjust Settings	Result Application Apply Cancel	CS22
CS Name	The CS reboots automatically if you press the button of "Apply or "Cancel".	Notice: CS does not have Secondary CS.
CS Management	Survey List	CS5
Tree Survey	4. Tree Image	CS6
CS Monitor PS Registration	Index CS Name CS Class Status Primary Secondary Level MAC Address CS Class Status CS Index CS Index	CS7 CS8
- PS Settings	1 SIP-CS1 Master INS	CS10 CS11
	2 SIP-CS2 0080F0E9763B 2nd Master V INS 1 1	0.912
	3 SIP-CS3 0080F0E97633 Slave INS 1 2 1	
	4 SIP-CS4 0080F0F06C79 Slave INS 1 2 1	
1 Click [St	art Troo Survovl	
	art free Survey].	You can find a ERROR
2. Please c	neck the Error Result.	CS does not have Brimary CS
3. Click [Ol	K].	Co does not have Primary Co.
4. Click [Ca	ancel].	CS9 and CS22 does not have Brimary CS
• After cl	icking Cancel, all CSs will restart automatic	
		~

#### **Supplement**

- This is a rare case. But after Site Survey the Radio signal condition might be changed by environmental change. In case of a radio signal without a margin, it may happen.

- Even if CS registration is successful, it may happen. If it can receive the radio signal, CS registration can be successful. (It's even low radio signal such as less than -80dBm.) But Tree Survey need the radio signal level more than -80dBm.

## 1.2)Please conduct Tree Survey by CS Maintenance Tool. You can find a ERROR "CS does not have Primary CS."



- 3. Click [Tree Survey], "Tree Survey Wizard" is displayed, then click [Start].
- 4. After "Finish" is displayed, you can find a Error. Then click [Finish] button.

Next page

- 1.3)From this page, you can check the concrete situation of CS.
  - The page before one, The error message was displayed "CS does not have PrimaryCS." (CS9,CS22) And you cannot find the CS9 and CS22 in this Tree Structure.



## 1.4) This page describes how to complete Tree Survey. • Please click Apply to complete the Tree Survey.



- 1. Tree Survey Results is displayed.
- 2. Click [Apply].
- 3. Click [OK] and click [OK].
  - •After clicking OK, all CSs will restart automatically.
  - After restart, Tree Survey is completed.

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#### 1.5)This page describes how to check the radio signal condition by CS Status Monitor.

- •You can confirm that CS9 and CS22 doesn't have radio signal because of out of synchronization.
- This is a cause of error "CS does not have Primary CS."

SIP-CS Mainten Air Synchroniza	ance Tool ation CS St	atus Monitor[1]	1. Maintenance					<b>2.</b>		After restart the CS,
Air Sync Group No.	1 -	Capture		1	Brows	e (B)	_			you should click
Interval Timer (s)	5 -	Start	Stop	e Structure				Logout		below.
			3.		Current Sync (	cs			-	1)CS Status Monitor.
Index	CS Name		Error Bate	Wired LAN	CS Type	CS/ Repeater	CS Name	CS ID	CS Class 🔺	2)Update.
1	CS(1)	-	-	-	-	-	-	-	Sync Master	3)Start .then Stop.
2	CS(2)	-62	0 %	OK	Primary	CS	CS(1)	0197310ED8	Sync Master	
18	CS(18)	-70	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	
19	CS(19)	-75	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	
17	CS(17)	-62	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS	
15	CS(15)	-74	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS	
16	CS(16)	-62	0 %	ОК	Primary	CS	CS(13)	01973113D0	Sync Slave CS	
20	CS(20)	-62	0 %	ОК	Primary	CS	CS(18)	01973113E8	Sync Slave CS	
12	CS(12)	-65	0 %	ОК	Primary	CS	CS(8)	0197311220	Sync Slave CS ≣	• You can find that
24	CS(24)	-64	0 %	ОК	Primary	CS	CS(18)	01973113E8	Sync Slave CS	CS9, CS22 has
23	CS (23)	-77	0 %	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	no radio signal
21	CS(21)	-58	0%	ок	Primary	CS	CS(19)	0197310F70	Sync Slave CS	
22	CS(22)	-	-	J	-	-	-	-	Sync Slave CS	Because It's out
14	CS(14)	-60	0 %	ок	Primary	es	CS(7)	01973110C8	Sync Slave CS	of Synchronization.
6	CS(6)	-77	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	
7	CS(7)	-70	0 %	ОК	Primary	CS	CS(5)	0197311228	Sync Slave CS	
5	CS (5)	-77	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	• This is a cause of
3	CS(3)	-67	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Slave CS	error "CS9,CS22
4	CS(4)	-62	0 %	ОК	Primary	CS	CS(1)	0197218ED8	Sync Slave CS	does not have
8	CS(8)	-60	0 %	ОК	Primary	CS	CS(11)	0197310EE0	Sync Slave CS	
12	CS(12)	-62	0 %	ОК	Secondary	CS	CS(13)	01973113D0	Sync Slave CS	primary CS."
13	CS(13)	-65	0 %	ОК	Primary	CS	CS(8)	0197311220	Sync Slave CS	
11	CS(11)	-60	0 %	ОК	Pnmary	CS	CS(6)	0197310EC8	Sync Slave CS	
9	CS(9)	-	-	4	-	-	-	-	Sync Slave CS	
10	CS(10)	-68	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS	
•			III						•	
										Next page

## 1.6) This page describes how to make the Site MAP.

•Please write down the each CS RSSI value and Primary or Secondary Path from CS Status Monitor.

You can find where is a trouble layout such as out of synchronization. (CS9 and CS22)



## 1.7)From this page, we describe how to find the primary CS for CS9 and CS22

- by using the tool. (The tool need the data (aseScriptfile) of CS Maintenance Tool.)
- The tool (aseScriptAnalys) can confirm all of the radio signal even it's out of synchronization.
- •You can check which CS is the highest radio signal level for CS9 and CS22.

## **1st step**: Please prepare to get the aseScriptFile from the folder of CS Maintenance Tool.



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#### **2nd step**: Please prepare to set the aseScriptFile and AseScriptAnalyze Macro.

 You can download the AseScriptAnalyze on the following web. <u>http://panasonic.net/pcc/support/sipphone/technic/UD/index.html</u>
 And plagas put it in you logal PC



•And please put it in you local PC.

1) Please copy and paste the aseScriptFile.txt from the CS Maintenance Tool folder.

2) Then click the AseScriptAnalyze.xls for analyzing the radio signal condition.

Next page

#### **3rd step**: Please input the radio signal condition data to AseScriptAnalyze.xls

#### from aseScriptFile.

1)Please click the Input Data button.



#### After click the open, radio signal data is indicated automatically.

Mic	rosoft Excel	- AseScriptAnalyze.xls	A. Bastlers	1. January 1. 1. 10			_ /				_					x
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1	debug		1 Index	CS Name	Index	CS Name	RSSI	CSName 출	参照テーブル							_
2	test 1							(Index)こ対	するCS Nameを記入	)						-
3	CS	100111000010000	1	CS1	0			Index	CS Name		Input Do	to.	· Please n	ush Input D	ata and	
4	lsa	10002-62			2	CS2	-62	1	CS1		Input Da	ua	select th	e aseScript	File txt	
5	lsa	10003-67			3	CS3	-67	2	CS2				for analy	zing radio s	ignal	
6	lsa	10004-62			4	CS4	-62	3	CS3				condition			
7	lsa	1 0 0 0 5 -77			5	CS5	-77	4	CS4							
8	lsa	1 0 0 0 6 -78			6	CS6	-78	5	CS5				· If you wa	ant to chang	ze the 🚺	
9	lsa	1 0 0 0 7 -79			7	CS7	-79	6	CS6				data, vou	u should pus	sh	
0	lsa	1 0 0 0 8 -78			8	CS8	-78	7	CS7				Input Da	ta again and	select	
1	lsa	100010-85			10	CS10	-85	8	CS8				the new	data.	L L	
	lee	100011-83			11	CS11	-83	9	CS9							$\checkmark$
12	ISd		-					10	0010							
12 13	lsa	100013-97			13	CS13	-97	10	USIU							

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#### **4th step**: Please confirm the radio signal condition by AseScripAnalyze.

icrosoft Excel	- AseScriptAnalyze.xls	( Page		-			-	-	-		- 0 X
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Isa	1 0 0 0 2 -62	-	00.		2	Indox	00 114110	Ir Ir	iput Data	Please push input	Data and
Isa	1 0 0 0 3 -67			3 03	3 There a	re all CSs	that can r	eceive a r	adio signal	<ul> <li>alvaing radio</li> </ul>	i signal
Isa	1 0 0 0 4 -62			4 CS	4 Vou oo	an ees	the redie	cecile a l	aale eighai	ion.	, olgridi
lsa	1 0 0 0 5 -77			5 03	5 You ca	1 confirm	the radio s	signai			
lsa	1 0 0 0 6 -78			6 🎽	that is	even out	of synchro	onization i	n	want to cha	ange the
Isa	1 0 0 0 7 -79			7 03	CS Sta	tus Monit	or			ou should p	oush _
lsa	1 0 0 0 8 -78	_		8 03			<b>v</b> i.			Data again a	and select
lsa				10 DS			030			the new data.	-
lsa	1 0 0 0 13 -97		$\frown$			3 9 7 10	639				
158	100021000010000	2				10	The n	rimary CS	S of CS2 is (	CS1	
lsa	1 0 0 0 1 -62	_		1 (cs	1) -	2					
Isa	1 0 0 0 3 -77		_	3 03	3 5	13	Beca	use CS1 is	s the highes	st RSSI val	ue.
Isa	1 0 0 0 4 -75			4 CS	4 -7	5 14	US14				
Isa	1 0 0 0 5 -80			5 CS	5 <mark>–</mark> 8	0 15	0915				
lsa	1 0 0 0 6 -75			6 C3	6 -7	5 ≻ Th	ere are all i	radio sign	al values w	hich can	
Isa	1 0 0 0 7 -84	_		7 CS	7 -8	4				mon oun	
lsa	1 0 0 0 8 -76	-		8 C9	8 -7	e re	ceive (RSS	o value).			
Isa	1 0 0 0 13 -70	-		11 US	1 -/		0540				· · · · · · · · · · · · · · · · · · ·
lea	1 0 0 0 16 -87			16 05	10 <b>-</b> 5	7 21	0320				
CS	100031000010000	3	053	0		22	0522				
Isa	1 0 0 0 1 -67			1 09	1 -6	7 23	CS23				
Isa	1 0 0 0 2 -75			2 03	2 -7	5 24	CS24				
Isa	1 0 0 0 4 -74			4 CS	4 -7	4 25	CS25				
Isa	10005-76			5 C3	5 -7	6 26	CS26				
Isa	1 0 0 0 6 -79			6 CS	6 -7	9 27	CS27				
Isa	10008-81			8 03	8 -8	1 28	CS28				
Isa	100010-93			10 CS		29	<u>CS29</u>				
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Isa	1 0 0 0 2 -75			2 03	2 -7	5		Radio signal	condition		
Isa	1 0 0 0 3 -74			3 03	3 -7	4		Condition L	ED RSSI Value		
Isa	10005-78			5 03	5 -7	8		Good	-80 Le	ss than	
Isa	1 0 0 0 6 -77			6 C3	6 -7	7		Net med	-81		
Isa	1 0 0 0 7 -78			7 09	7 _7	8		Not good	-86 <sup>Be</sup>	stween	
lsa	1 0 0 0 9 -93			9 OS	9 -9	3		Bad	-87 Mo	ore than	
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K					↔ — <b>—</b> Ē. o.		-0+ - / 1 Ger 🗧			KILIM	
L,									11	MUM	- No

**5th step**: Please confirm the radio signal condition about the CS9 and CS22. And confirm which is a primary CS that is the highest radio signal level.



The primary CS of CS9 is CS4 in order to the radio signal level.

156	lsa	100018-62			18	CS18	-62	
157	CS	1 0 0 0 21 1 0 0 0 0 1 0 0 0 0	21	CS21	0			
158	lsa	1 0 0 0 19 -58			19	CS19	-58	The highest radio signal.
159	lsa	1 0 0 0 23 -83		$\frown$	23	CS23	-83	/
160	CS	1000221000010000	22	CS22	0			
161	lsa	1 0 0 0 19 -83		$\smile$	19	CS19	(-83)	There are CSs that can
162	lsa	1 0 0 0 21 -89			21	CS21	-89	✓ receive a radio signal.

The primary CS of C22 is CS19 in order to the radio signal level.

- It seems primary CS of CS9 is CS4. But you can confirm the radio signal sending from CS4 which is adjoining CS9 is low level (-83dBm).
- It seems primary CS of CS22 is CS19. But you can confirm the radio signal sending from CS19 which is adjoining CS22 is low level (-83dBm).

#### The low radio signal from adjoined CS is a cause of error "CS does not have Primary CS."

Next page

#### 6th step: Please write down the RSSI value of CS9 and CS22. And consider about how to move the CS9 and CS22.



#### 7th step: Please move the CS9 and CS22.



#### 8th step: Please conduct Tree Survey again for adjusting tree structure.



#### **9th step**: You should click Apply to complete the Tree Survey.



- 1. Tree Survey Results is displayed.
- 2. Click [Apply].
- 3. Click [OK] and click [OK].
  - •After clicking OK, all CSs will restart automatically.
  - •After restart, Tree Survey is completed.

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#### **10th step**: You can confirm all of CS has a good radio signal condition (Green).

Aré Synchronization Aré Synch	🔄 SIP-CS Main	tenance Tool		1.					2.		<b>G</b>	
Ar Sync Grau He.       Cature       Survey       Cature (S)	Air Synchro	nization CS Sta	atus Monitor[1]	Maintenan	ce							
Luncity       Luncity       After restart the CS Name       CS Class Sign Class       After restart the CS Name       CS Class CS Class CS Class       After restart the CS, you should click below.         1       CS (10)       CS	Air Sync Group	No. 1 👻 🗌	Capture			Browse	B)	Ē	— L			
Index       CS Name       BS       Current Sync CS       CS Name       CS Case       After restart the CS, you should click below.         1       CS (1)       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Interval Timer (	s) 5 -	Start	Stop	Tree Structure	-(After che	cking the C	S Status Mo	nitor ,please	e click Tree	Stru	icture.)
Attimut         Bissing         Brow         Wind         CS Type         CS Type         CS Tope         CS T	Index	CS Name	3.	3.		Current Sync CS				CS Class		After restart the
1       CS(1)       -       -       -       -       Sync Mater         2       CS(2)       42       0 %       Ook       Pimay       CS       CS(1)       0197310ED8       Sync Mater       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .			[dBm]	Error Rate	Wired LAN	CS Type	CS/ Repeater	CS Name	CS ID			CS, you should
2       CS (2)       42       0 %       Primary       CS       CS (10)       0197310CB8       Sync Share (S)       (1)CS Status Monitor.       (2)Update.       (2)Update. <th>1</th> <th>CS(1)</th> <th>-</th> <th>-</th> <th>-</th> <th>-</th> <th>-</th> <th>-</th> <th>-</th> <th>Sync Master</th> <th></th> <th>click below.</th>	1	CS(1)	-	-	-	-	-	-	-	Sync Master		click below.
18       C\$118)       70       0.5       0K       Pmay       CS       CS 160       019711326       Sync Save CS       3mc Save CS <t< th=""><th>2</th><th>CS(2)</th><th>-62</th><th>0 %</th><th>ОК</th><th>Primary</th><th>CS</th><th>CS(1)</th><th>0197310ED8</th><th>Sync Master</th><th></th><th></th></t<>	2	CS(2)	-62	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Master		
19       CS(19)       -73       0 %       Pmmay       CS       CS(16)       0197311308       Sync Save CS       2)Update.       3)Start ,then Stop.         17       CS(17)       42       0 %       OK       Pmmay       CS       CS(14)       0197311308       Sync Save CS       3)Start ,then Stop.         16       CS(16)       42       0 %       OK       Pmmay       CS       CS(13)       019731130       Sync Save CS       3)Start ,then Stop.         20       CS(20)       42       0 %       OK       Pmmay       CS       CS(18)       019731130       Sync Save CS       3)Start ,then Stop.         21       CS(23)       -77       0 %       OK       Pmmay       CS       CS(18)       019731670       Sync Save CS       Sync Save CS <th>18</th> <th>CS(18)</th> <th>-70</th> <th>0 %</th> <th>ОК</th> <th>Primary</th> <th>CS</th> <th>CS(16)</th> <th>01973113C8</th> <th>Sync Slave CS</th> <th></th> <th>1)CS Status Monitor.</th>	18	CS(18)	-70	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS		1)CS Status Monitor.
17       CS(17)       42       0 %       Pmmay       CS       CS(14)       0197311080       Sync Save CS       S)Start , then Stop.         15       CS(16)       42       0 %       OK       Pmmay       CS       CS(14)       0197311080       Sync Save CS       S)Start , then Stop.         20       CS(20)       42       0 %       OK       Pmmay       CS       CS(18)       0197311080       Sync Save CS       S)Start , then Stop.         24       CS(12)       -51       0 %       OK       Pmmay       CS       CS(18)       0197310670       Sync Save CS       S       Sync Save CS       S       S       S       Sync Save CS       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S<	19	CS(19)	-75	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS		2)Indate
15       CS(15)       74       0%       Primary       CS       CS(14)       0197311080       Sync Slave CS       CS       CS(13)       0197311300       Sync Slave CS       CS       CS(13)       0197311300       Sync Slave CS       CS       CS(12)       CS       CS(13)       0197311300       Sync Slave CS       CS       CS(13)       0197310780       Sync Slave CS       CS       CS(13)       0197310770       Sync Slave CS       CS       CS(14)       CS       CS(13)       0197310770       Sync Slave CS       CS       CS(13)       0197310770       Sync Slave CS       CS       CS(14)       CS       CS(15)       0197310770       Sync Slave CS       CS       CS(13)       019731070       Sync Slave CS       CS       CS(13)       019731070       Sync Slave CS       CS       CS(15)       019731070       Sync Slave CS	17	CS(17)	-62	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS		2) Start than Star
16       CS(16)       42       0%       0K       Pimary       CS       CS(13)       0197311300       Sync Save CS         20       GS(20)       62       0%       0K       Pimary       CS       CS(18)       0197311300       Sync Save CS       Sync Sav	15	CS(15)	-74	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS		3)Start, then Stop.
20       CS (20)       -62       0 %       OK       Pimay       CS       CS (18)       0197311388       Sync Slave CS         24       CS (12)       -61       0 %       OK       Pimay       CS       CS (18)       0197310F80       Sync Slave CS         25       CS (24)       -62       0 %       OK       Pimay       CS       CS (19)       0197310F80       Sync Slave CS         21       CS (21)       -52       0 %       OK       Pimay       CS       CS (19)       0197310F70       Sync Slave CS         22       CS (22)       -77       0 %       OK       Pimay       CS       CS (19)       0197310F70       Sync Slave CS         14       CS (14)       -60       0 %       OK       Pimay       CS       CS (10)       Otyrotic Sine CS       Ge (17)       0197310E70       Sync Slave CS       Ge (17)       Otyrotic Sine CS       Ge (17)       Otyrotic	16	CS(16)	-62	0 %	ОК	Primary	CS	CS(13)	01973113D0	Sync Slave CS		
24       CS (12)       51       0 %       OK       Pmaay       CS       CS (8)       0197310F80       Sync Slave CS       E         25       CS (24)       42       0 %       OK       Pmaay       CS       CS (18)       0197310F80       Sync Slave CS       E         25       CS (22)       -77       0 %       OK       Pmaay       CS       CS (18)       0197310F70       Sync Slave CS       E       E       Pmaay       CS       CS (19)       0197310F70       Sync Slave CS       E       E       Pmaay       CS       CS (19)       0197310F70       Sync Slave CS       E       E       Important Comparison       E       E       PMaay       CS       CS (19)       0197310F70       Sync Slave CS       E       E       Important Comparison       E       E       E       E       E       E       P       E       CS (19)       0197310F70       Sync Slave CS       E       E       Important Comparison       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E       E<	20	CS(20)	-62	0 %	ок	Primary	CS	CS(18)	01973113E8	Sync Slave CS		
25       CS (24)       62       0 %       OK       Primary       CS       CS (18)       0197310FR8       Sync Slave CS       You can confirm these radio signal levels were improved to green.         21       CS (22)       -77       0 %       OK       Primary       CS       CS (19)       0197310F70       Sync Slave CS       Sync	24	CS(12)	-51	0 %	ок	Primary	CS	CS(8)	0197310F80	Sync Slave CS		
23       CS (23)       -77       0 %       OK       Primary       CS       CS (19)       0197310F70       Sync Slave CS         21       CS (22)       -77       0 %       OK       Primary       CS       CS (19)       0197310F70       Sync Slave CS         22       CS (22)       -77       0 %       OK       Primary       CS       CS (19)       0197310F70       Sync Slave CS         14       CS (14)       -60       0 %       OK       Primary       CS       CS (7)       D447110C3       Sync Slave CS         6       CS (6)       -777       0 %       OK       Primary       CS       OEx10       0197310F70       Sync Slave CS         7       CS (7)       -70       0 %       OK       Primary       CS       OEx10       0197310EC0       Sync Slave CS         7       CS (7)       -77       0 %       OK       Primary       CS       CS (1)       0197310EC0       Sync Slave CS         5       CS (3)       -77       0 %       OK       Primary       CS       CS (1)       0197310ED3       Sync Slave CS         6       CS (12)       -62       0 %       OK       Primary       CS       CS (1)	25	CS(24)	-62	0 %	ОК	Primary	CS	CS(18)	0197310F68	Sync Slave CS		You can confirm
21       CS (21)       -58       0 %       0K       Primary       CS       CS (19)       0197310F70       Sync Slave CS         22       CS (22)       -77       0 %       0K       Primary       CS       CS (19)       0197310F70       Sync Slave CS         14       CS (14)       -60       0 %       0K       Primary       CS       CS (7)       D197310E70       Sync Slave CS         6       CS (6)       -777       0 %       0K       Primary       CS       CS (7)       D197310EC0       Sync Slave CS         7       CS (7)       -70       0 %       0K       Primary       CS       CS (5)       D197311228       Sync Slave CS       Green is more than -80dBm.         5       CS (5)       -777       0 %       0K       Primary       CS       CS (1)       D197310E08       Sync Slave CS         3       CS (3)       -67       B %       0 K       Primary       CS       CS (1)       D197310E08       Sync Slave CS         4       CS (3)       -62       0 %       0K       Primary       CS       CS (1)       D197310E08       Sync Slave CS         12       CS (13)       -62       0 %       0K       Primary </td <th>23</th> <td>CS (23)</td> <td>-77</td> <td>0 %</td> <td>ок</td> <td>Primary</td> <td>CS</td> <td>CS(19)</td> <td>0197310F70</td> <td>Sync Slave CS</td> <td></td> <td>these radio signal</td>	23	CS (23)	-77	0 %	ок	Primary	CS	CS(19)	0197310F70	Sync Slave CS		these radio signal
22       CS (2)       -77       0 %       0K       Primary       CS       CS (19)       0197310F70       Sum 35% CS       improved to green.         14       CS (14)       -60       0 %       0K       Primary       CS       CS (7)       PH7310C8       Sync Slave CS       improved to green.         6       CS (6)       -77       0 %       0K       Primary       CS       09(7)       0197310EC0       Sync Slave CS	21	CS(21)	-58	0%	ок	Primary	CS	CS(19)	0197310F70	Sync Slave CS	⊢	lovols woro
14       CS (14)       -60       0 %       OK       Primary       CS       CS (7)       D4973110C8       Sync Slave CS         6       CS (6)       -77       0 %       OK       Primary       CS       0477       0197310EC0       Sync Slave CS         7       CS (7)       -70       0 %       OK       Primary       CS       0477       0197310EC0       Sync Slave CS         5       CS (5)       -77       0 %       OK       Primary       CS       CS (5)       0197310EC0       Sync Slave CS         3       CS (3)       -67       0 %       OK       Primary       CS       CS (1)       0197310EE0       Sync Slave CS         8       CS (8)       -60       0 %       OK       Primary       CS       CS (1)       0197310EE0       Sync Slave CS         8       CS (8)       -60       0 %       OK       Primary       CS       CS (1)       0197310EE0       Sync Slave CS         12       CS (12)       -62       0 %       OK       Primary       CS       CS (6)       019731120       Sync Slave CS         13       CS (13)       0 %       OK       Primary       CS       CS (6)       0197310EC0	22	CS (22)	-77	0%	ок	Primary	CS	CS(19)	0197310F70	Sync Slave CS		
6       CS(6)       -77       0%       0K       Primary       CS       09(1)       0197310EC0       Sync Slave CS       Sync Sl	14	CS(14)	-60	0%	ОК	Primary	CS	CS(7)	01973110C8	Sync Slave CS		improved to green.
7       CS (7)       -70       0 %       OK       Primary       CS       0 197311228       Sync Slave CS       -80dBm.       -80dBm.       (RSSI value)         3       CS (3)       -67       0 %       OK       Primary       CS       CS (1)       01973102C0       Sync Slave CS       -80dBm.       (RSSI value)         4       CS (4)       -62       0 %       OK       Primary       CS       CS (1)       0197310208       Sync Slave CS       -80dBm.       (RSSI value)         4       CS (4)       -62       0 %       OK       Primary       CS       CS (1)       0197310208       Sync Slave CS       -80dBm.       (RSSI value)         4       CS (4)       -62       0 %       OK       Primary       CS       CS (1)       019731020       Sync Slave CS       -80dBm.       (RSSI value)       And you can       confirm the       CS       CS (6)       019731120       Sync Slave CS       -80       CS (2)       -80       CS (2)       0.5       CS (6)       01973102C0       Sync Slave CS       -80       CS (2)       -80       CS (2)       01973102C0       Sync Slave CS       -80       CS (2)       -80       CS (2)       01973102C0       Sync Slave CS       -9	6	CS (6)	-77	0 %	ок	Primary	CS	<del>68 (</del> 4)	0197310EC0	Sync Slave CS		Green is more than
5       CS (5)       -77       0 ½       OK       Primary       CS       CS (4)       0197310EC0       Sync Slave CS         3       CS (3)       -67       0 ½       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         4       CS (4)       -62       0 ½       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         8       CS (8)       -60       0 ½       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         12       CS (12)       -62       0 ½       OK       Primary       CS       CS (8)       01973113D0       Sync Slave CS         13       CS (13)       -65       0 ½       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (9)       -74       0 ½       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         10       CS (10)       -68       0 ½       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         10       CS (10)       -68       0 ½       OK       Primary       CS       CS (6)	7	CS(7)	-70	0 %	ок	Primary	63	CS(5)	0197311228	Sync Slave CS		-80dBm.
3       CS (3)       -67       0 %       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         4       CS (4)       -62       0 %       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         8       CS (8)       -60       0 %       OK       Primary       CS       CS (11)       0197310ED0       Sync Slave CS         12       CS (12)       -62       0 %       OK       Primary       CS       CS (13)       01973113D0       Sync Slave CS         13       CS (13)       -65       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (11)       -600       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (9)       -74       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         10       CS (10)       -68       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         4	5	CS (5)	-77	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS		(RSSI value)
4       CS (4)       -62       0 %       OK       Primary       CS       CS (1)       0197310ED8       Sync Slave CS         8       CS (8)       -60       0 %       OK       Primary       CS       CS (11)       D197310ED8       Sync Slave CS         12       CS (12)       -62       0 %       OK       Secondary       CS       CS (13)       01973113D0       Sync Slave CS         13       CS (13)       -65       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (11)       -60       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS       Sync Slave CS       OS       Sync Slave CS       OS       OS (9)       -74       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       0197310EC8       Sync Slave CS       Primary CS       CS (6)       O	3	CS (3)	-67	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Slave CS		
8       CS (8)       -60       0 %       OK       Primary       CS       CS (11)       0197310EE0       Sync Slave CS         12       CS (12)       -62       0 %       OK       Secondary       CS       CS (13)       01973113D0       Sync Slave CS         13       CS (13)       -65       0 %       OK       Primary       CS       CS (8)       0197311220       Sync Slave CS         11       CS (11)       -60       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (9)       -74       0 %       OK       Primary       CS       CS (6)       0197310EC0       Sync Slave CS         10       CS (10)       -68       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< th=""><th>4</th><th>CS (4)</th><th>-62</th><th>0%</th><th>ок</th><th>Primary</th><th>CS</th><th>CS(1)</th><th>0197310ED8</th><th>Sync Slave CS</th><th></th><th></th></td<>	4	CS (4)	-62	0%	ок	Primary	CS	CS(1)	0197310ED8	Sync Slave CS		
12       CS(12)       -62       0 %       OK       Secondary       CS       CS(13)       01973113D0       Sync Slave CS         13       CS(13)       -65       0 %       OK       Primary       CS       CS(8)       0197311220       Sync Slave CS         11       CS(11)       -60       0 %       OK       Primary       CS       CS(6)       0197310EC8       Sync Slave CS         9       CS(9)       -74       0 %       OK       Primary       CS       CS(6)       0197310EC0       Sync Slave CS         10       CS(10)       -68       0 %       OK       Primary       CS       CS(6)       0197310EC8       Sync Slave CS <td< th=""><th>8</th><th>CS (8)</th><th>-60</th><th>0 %</th><th>ок</th><th>Primary</th><th>CS</th><th>CS(11)</th><th>0197310EE0</th><th>Sync Slave CS</th><th></th><th>And you can</th></td<>	8	CS (8)	-60	0 %	ок	Primary	CS	CS(11)	0197310EE0	Sync Slave CS		And you can
13       CS (13)       -65       0 %       OK       Primary       CS       CS (8)       0197311220       Sync Slave CS         11       CS (11)       -60       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         9       CS (9)       -74       0 %       OK       Primary       CS       CS (4)       0197310EC0       Sync Slave CS         10       CS (10)       -68       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .       .	12	CS(12)	-62	0 %	ОК	Secondary	CS	CS(13)	01973113D0	Sync Slave CS		confirm the
11       CS(11)       -60       0 %       OK       Primary       CS       CS(6)       0197310EC8       Sync Slave CS         9       CS(9)       -74       0 %       OK       Primary       CS       CS(4)       0197310EC0       Sync Slave CS         10       CS(10)       -68       0 %       OK       Primary       CS       CS(6)       0197310EC8       Sync Slave CS       V         (       III       IIII	13	CS(13)	-65	0 %	ОК	Primary	CS	CS(8)	0197311220	Sync Slave CS		CS9_CS22 has
9       CS (9)       -74       0 %       OK       Primary       CS       CS (4)       0197310EC0       Sync Slave CS         10       CS (10)       -68       0 %       OK       Primary       CS       CS (6)       0197310EC8       Sync Slave CS         4       III       IIII       IIII       IIIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	11	CS(11)	-60	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS		Brimary CS
10         CS (10)         -68         0 %         OK         Primary         CS         CS (6)         0197310EC8         Sync Slave CS	9	CS(9)	-74	0%	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS		Frinary CS.
	10	CS(10)	-68	0 %	ок	Primary	CS	CS(6)	0197310EC8	Sync Slave CS		
	•									4		

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## **11th step**: You can confirm all of CS has a good radio signal condition in the Tree Structure.



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#### **12th step**: Please write down the final radio signal value (RSSI value).



It's useful to update Site MAP when you need to check the radio signal condition.

Finish

# 2. If you find a low radio signal level after successful of Tree Survey.

From this page, we describe the case of below.

- •The Tree Survey was successful. ("Execution OK" was displayed.)
- •But the low radio signal was found by CS Status Monitor.
  - In this case, you need to relocate the CS.



You can confirm a

**Execution OK.** 

#### **1st step**: Please check which CS is a low radio signal (Yellow).

SIP-C	S Maintena	ance Tool									
Air S	ynchroniza	ation CS St	atus Monitor[1]	Maintenance							
Air Sync	Group No.		Capture		CC Chatria I	Browse		_			
					CS Status I	vionitor and	CIICK Start.		Logout		
Interval	Timer (s)	5 -	Start	Stop	ee Structure	(After chec	king the CS	Status Moni	tor ,please	click Tree Stru	u <mark>cture.)</mark>
						Current Sync C	s			A	
Index		CS Name	RSSI	Error	Wired	current Sync C.	CS/		00.10	CS Class 🔺	You can find low
			[dBm]	Rate	LAN	CS Type	Repeater	CS Name	CSID		radio signal level.
	1	CS(1)	-	-	-	-	-	-	-	Sync Master	such as Vollow:
	2	CS(2)	-62	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Master	
	18	CS(18)	-70	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	less than -80 dBm
	19	CS(19)	-81	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	(RSSI value).
	17	CS(17)	-62	0 %	ок	Primary	CS	CS(14)	01973110B0	Sync Slave CS	
	15	CS(15)	-74	0 %	ок	Primary	CS	85(14)	01973110B0	Sync Slave CS	+CS5 6 19 23
	16	CS(16)	-62	0 %	ок	Primary	CS	CS(13)	01973113D0	Sync Slave CS	000,0,10,20
	20	CS(20)	-62	0%	ОК	Primary	CS	CS(18)	01973113E8	Sync Slave CS	
	24	CS(12)	-51	0 %	OK	Primary	CS	CS(8)	0197310F80	Sync Slave CS	
	25	CS(24)	-62	0%	ок	Primary	CS	CS(18)	0197310F68	Sync Slave CS	
	23	CS(23)	-81	0%	ок	Primary	CS	CS(19)	0197310F70	Sync Slave CS	
	21	CS(21)	-58	0%	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	
	22	CS(22)	-77	0 %	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	If you confirm low
	14	CS(14)	-60	0 %	ОК	Primary	CS	CS(7)	01973110C8	Sync Slave CS	radio signal
	6	CS(6)	-83	0%	ок	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	condition such as
	7	CS(7)	-70	0 %	ок	Primary	CS	CS(5)	0197311228	Sync Slave CS	Valla
	5	CS(5)	-83	0 %	ок	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	reliow, you
	3	CS(3)	-67	0 %	ок	Primary	CS	CS(1)	0197310ED8	Sync Slave CS	should adjust
	4	CS(4)	-62	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Slave CS	the tree structure.
	8	CS(8)	-60	0 %	ОК	Primary	CS	CS(11)	0197310EE0	Sync Slave CS	
	12	CS(12)	-62	0 %	ОК	Secondary	CS	CS(13)	01973113D0	Sync Slave CS	
	13	CS(13)	-65	0 %	ок	Primary	CS	CS(8)	0197311220	Sync Slave CS	
	11	CS(11)	-60	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS	
	9	CS(9)	-74	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	
	10	CS(10)	-68	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS	
4										· ·	
											Next page

**2nd step**: Please confirm which CS is a trouble position in the Tree Structure. (The trouble CS position that has low radio signal (Yellow).)



#### **3rd step**: Please write down the each CS radio signal value (RSSI value) on the MAP. And confirm where is a trouble CS layout that has low radio signal level.



#### 4th step: Please consider about how to move the CS5,6,19,23.



#### 5th step: Please move the CS5,6,19,23.



#### 6th step: Please confirm the radio signal condition of CS5,6,19,23 was improved to green.

SIP-CS Mainter	nance Tool		1.					2	- • •	
Air Synchroniz	zation CS Sta	tus Monitor[1]	Maintenance							
Air Sync Group No.	. 1 🔻 🗌	Capture			Browse	(B)				
Interval Timer (s)	5 -	Start	Scop Tre	e Structure	-(After chee	cking the CS	S Status Mor	itor ,please	click Tree S	tructure.)
		3.	<b>J</b> .		Current Sync C	S				
Index	CS Name	RSSI [dBm]	Error Rate	Wired LAN	CS Type	CS/ Repeater	CS Name	CS ID	CS Class 🔺	After move these
1	CS(1)		-	-	-	-		-	Sync Master	CSs, you should
2	CS(2)	-62	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Master	click below.
18	CS(18)	-70	0 %	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	
[ 19	CS(19)	-73	0%	ОК	Primary	CS	CS(16)	01973113C8	Sync Slave CS	1)CS Status Monitor
17	CS(17)	-62	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS	2)Undete
15	CS(15)	-74	0 %	ОК	Primary	CS	CS(14)	01973110B0	Sync Slave CS	2)Opdate.
16	CS(16)	-62	0 %	ОК	Primary	CS	CS(13)	01973113D0	Sync Slave CS	3)Start ,then Stop.
20	CS(20)	-62	0 %	ОК	Primary	CS	CS(18)	01973113E8	Sync Slave CS	
24	CS(12)	-51	0 %	ОК	Primary	CS	CS(8)	0197310F80	Sync Slave CS ≡	
25	CS(24)	-62	0 %	ОК	Primary	CS	CS(18)	0197310F68	Sync Slave CS	
23	CS(23)	-75	0 %	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	
21	CS(21)	-63	0 %	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	
22	CS(22)	-77	0 %	ОК	Primary	CS	CS(19)	0197310F70	Sync Slave CS	You can confirm
14	CS(14)	-60	0 %	ОК	Primary	CS	CS(7)	0197311008	Sync Slave CS	these radio signal
6	CS(6)	-74	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	
7	CS(7)	-/4	0%	ОК	Primary	CS	CS(5)	0197311228	Sync Slave CS	levels were
5	CS(5)	-75	0%	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	improved to green.
3	CS(3)	-67	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Slave CS	(CS5,6,19,23)
4	CS(4)	-62	0 %	ОК	Primary	CS	CS(1)	0197310ED8	Sync Slave CS	
8	CS(8)	-60	0 %	ОК	Primary	CS	CS(11)	0197310EE0	Sync Slave CS	Groon is more than
12	CS(12)	-62	0 %	ОК	Secondary	CS	CS(13)	01973113D0	Sync Slave CS	
13	CS(13)	-65	0 %	ОК	Primary	CS	CS(8)	0197311220	Sync Slave CS	-80 dBm
11	CS(11)	-62	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS	(RSSI value).
9	CS(9)	-74	0 %	ОК	Primary	CS	CS(4)	0197310EC0	Sync Slave CS	
10	CS(10)	-71	0 %	ОК	Primary	CS	CS(6)	0197310EC8	Sync Slave CS	
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7th step: Please confirm the radio signal condition of CS5,6,19,23 in the Tree Structure.



#### 8th step: Please write down the final radio signal value (RSSI value).



It's useful to update Site MAP when you need to check the radio signal condition.