

# Why is Tree Survey needed?

(KX-UDS/UDT series)

No. 41-015

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Ver.1.0

Panasonic Corporation

## Abstract about this document

This document describe about the necessity of Tree Survey and 2nd Master CS.

## Revision history

| Date          | Version  | Revision        | Firmware version |
|---------------|----------|-----------------|------------------|
| Aug. 31, 2012 | Ver. 1.0 | Initial Release | All versions     |

# Why is Tree Survey needed?

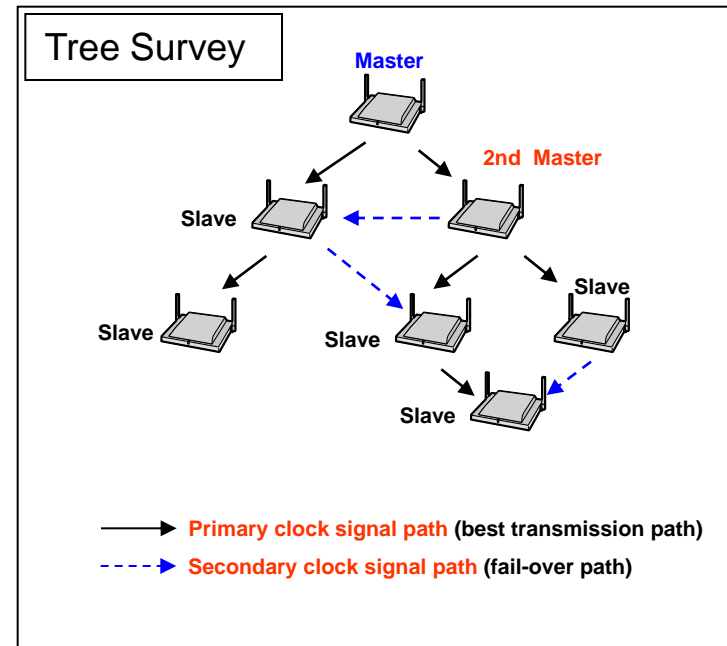
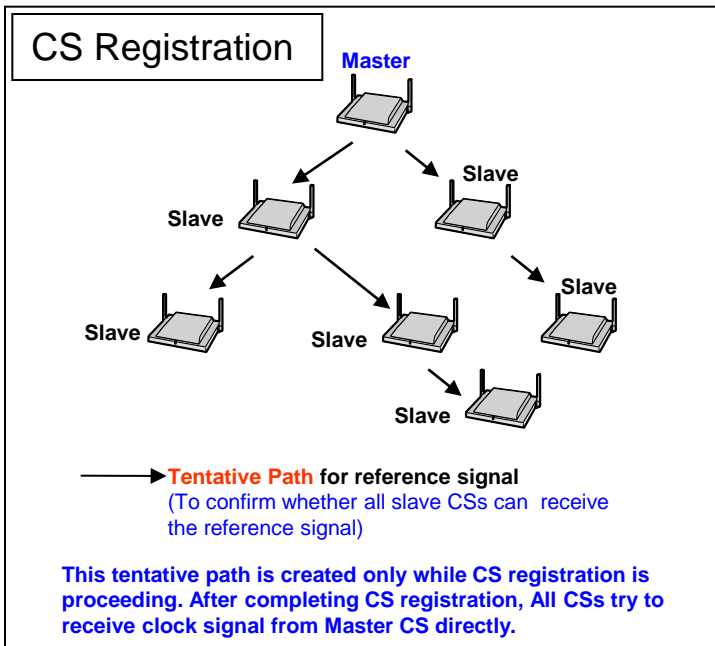
## 1. CS registration and Tree Survey have different purposes as below,

### CS registration:

- 1) Grouping CSs in each air synchronization group.
- 2) Confirming the transmissive region of reference clock signal from master CS.

### Tree Survey:

- 1) Deciding the primary clock signal path (best transmission path) from master CS.
- 2) Deciding the secondary clock path (fail-over path) from master CS.
- 3) Deciding the 2nd master CS.



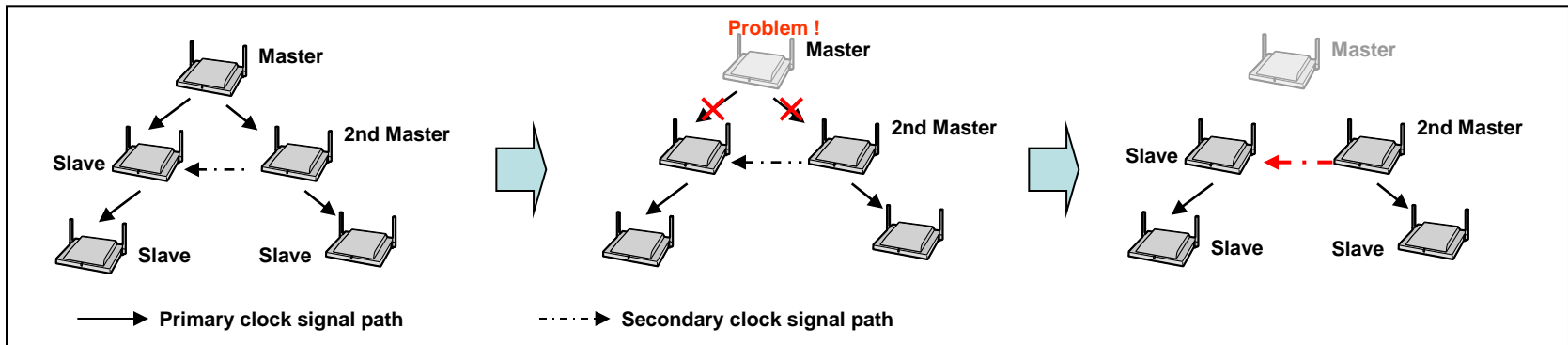
Please refer to next pages about “2nd master CS”.

# What is 2nd Master CS?

## 1. Fail-over for air synchronization when Master CS has trouble

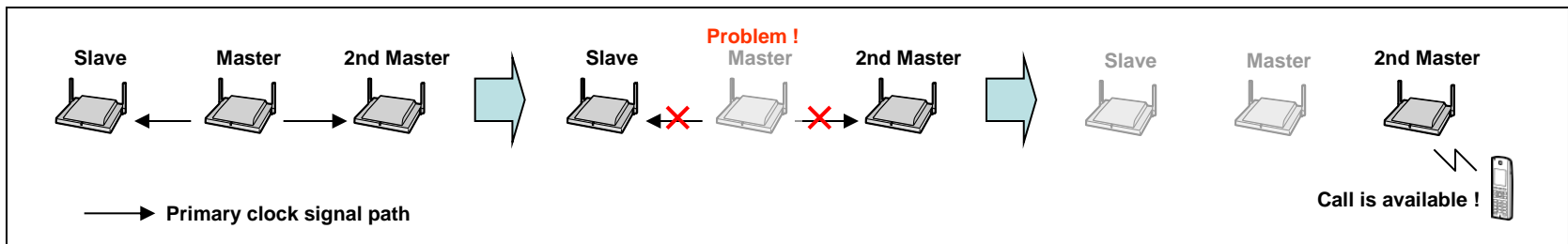
If a Master CS stop reference signal for air synchronization, all CSs in same air synchronization group stop signaling and PS becomes unavailable.

In this case, **2nd Master can signal the reference instead of a Master CS tentatively.**



## 2. Minimum guarantee against Master CS trouble

If a Secondary master CS exists, even if a Master CS has trouble, customer can use handset near the 2nd master CS and call administrator or dealer to solve the problem from handset.



# How do you set 2nd Master CS?

## 1. With Web UI (or CS Maintenance tool)

You can set one CS as 2nd Master CS at the stage of Tree Survey.  
A Secondary CS is assigned automatically after tree survey.

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SIP CS KX-UDS124    Status    Network    **System**    VoIP    Telephone    Maintenance

Web Logout    Web Port Close

### Tree Survey

Tree Survey Complete

**Tree Survey**

Air Sync Group: 1

This "Tree Survey" is executed to all the CS in Survey List.

Tree Survey:

This "Result Application" is executed to all the CS in Survey List.

Result Application:

The CS reboots automatically if you press the button of "Apply" or "Cancel".

**Survey List**

| Index | CS Name<br>MAC Address  | CS Class   | Status | Primary<br>CS Index | Secondary<br>CS Index | Level |
|-------|-------------------------|------------|--------|---------------------|-----------------------|-------|
| 1     | SIP-CS1<br>0080F0F06C78 | Master     | INS    | -                   | -                     | -     |
| 2     | SIP-CS2<br>0080F0E9763B | 2nd Master | INS    | 1                   |                       | 1     |
| 3     | SIP-CS3<br>0080F0E97633 | Slave      | INS    | 1                   | 2                     | 1     |
| 4     | SIP-CS4<br>0080F0F06C79 | Slave      | INS    | 1                   | 2                     | 1     |

## 2. With Configuration file

Following parameter assigns the CS to 2nd Master CS.

```
WL_CS_CLASS="SecondMaster"
```