

# **How to set common encryption key to all CSs**

(KX-UDS/UDT series)

No. 42-007

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Ver.1.0

Panasonic Corporation

## Abstract about this document

This document describes about how to set common encryption key to “all” CSs.

## Revision history

Date	Version	Revision	Firmware version
Sep 28, 2012	Ver. 1.0	Initial Release	All versions

# Overview

When you operate the UDS system with **PROVISION\_SUPERMASTER\_ONLY="N (Default)"**, All CSs try to access the provisioning server directly.

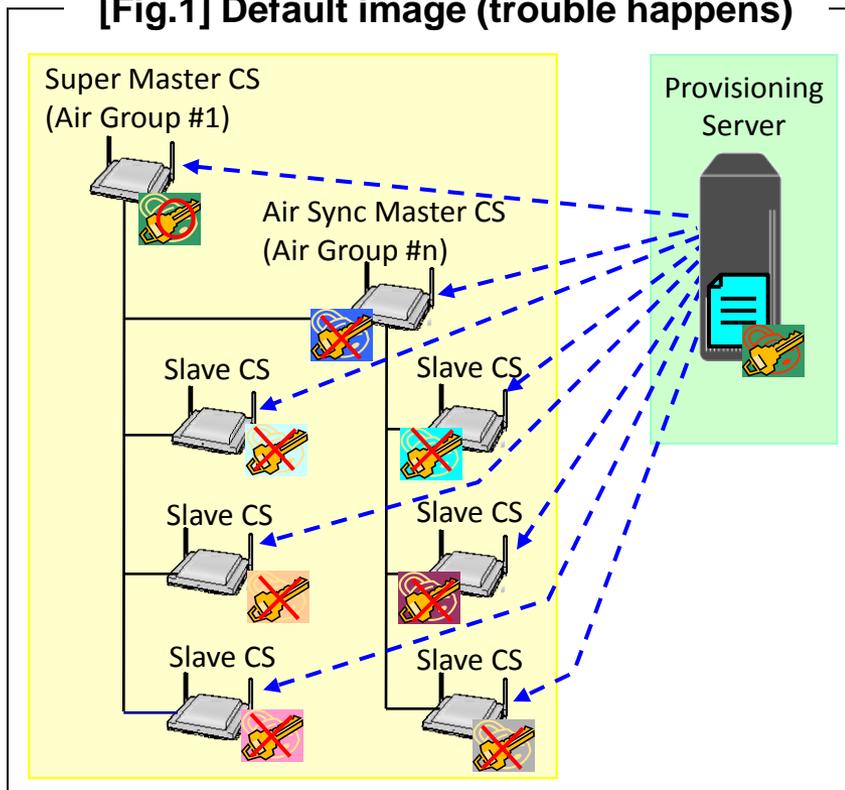
So, if you encrypted the configuration file on server ,

all CSs need to have the common encryption key to decrypt the file.

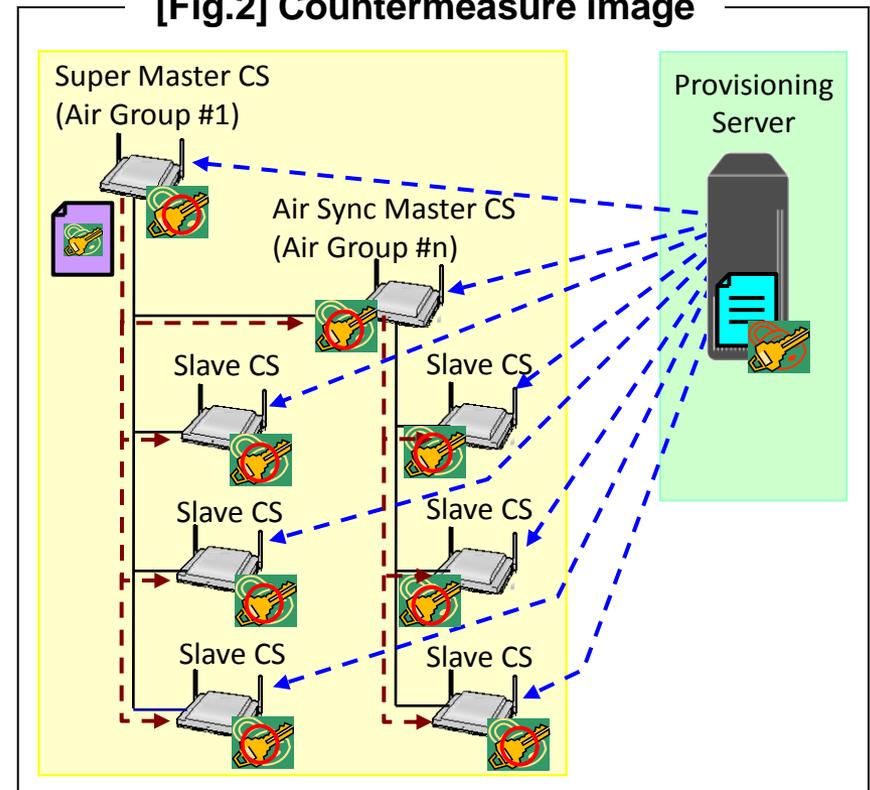
But you can't use the default value of CFG\_FILE\_KEY1, because the default keys which each CS has are different (Fig.1).

Therefore, you need to set the common value to CFG\_FILE\_KEY1 for all CSs in advance (Fig.2).

**[Fig.1] Default image (trouble happens)**



**[Fig.2] Countermeasure image**



# How to distribute the encryption key

For security reason, you should distribute encryption key itself to CSs by secure method. Therefore, you don't use provisioning server to do it supposedly.

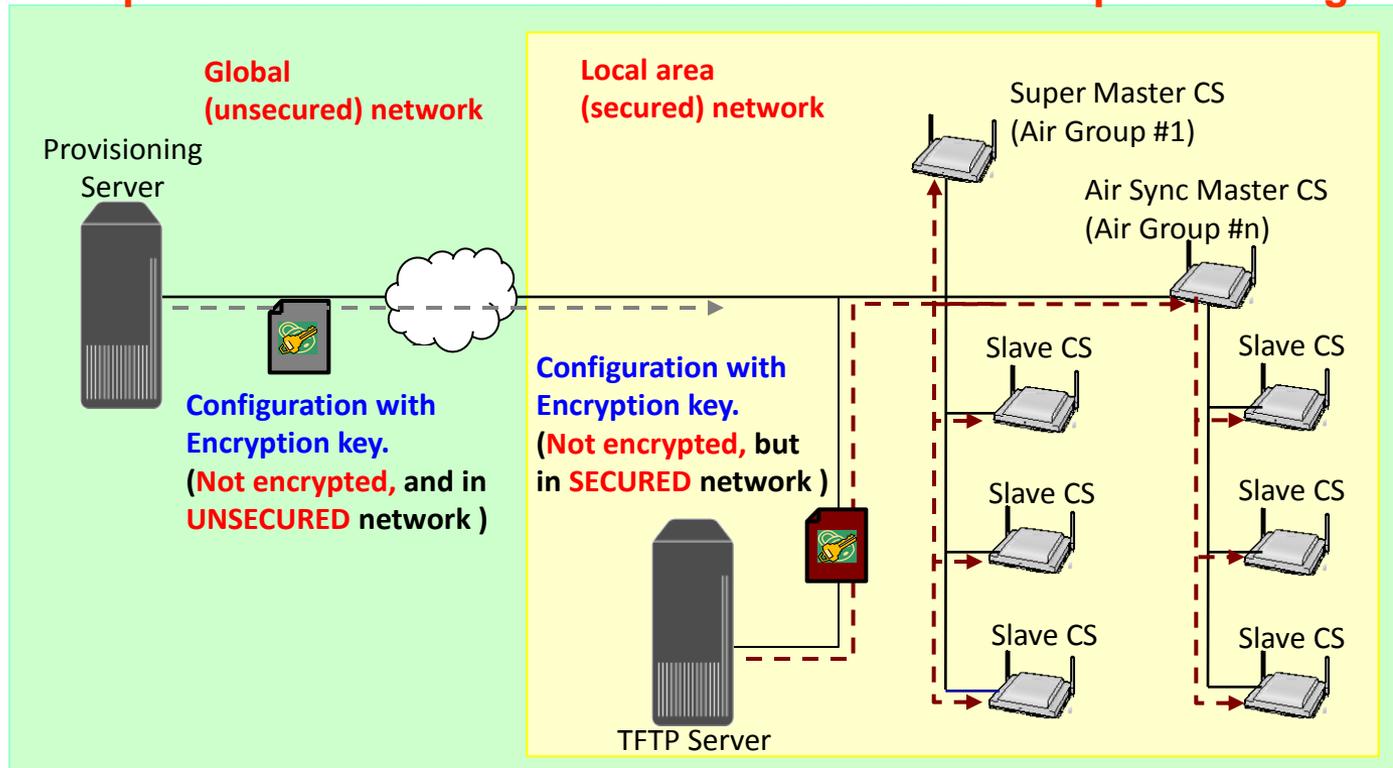
In other words, the encryption key must be distributed in local area network.

There are 2 methods to distribute the encryption key .

1. By pre-provisioning with the function "DHCP option 66"
2. By All import function in Web UI **(Installation operator only)**

Please contact your Installation operator when you can't select the method 1.

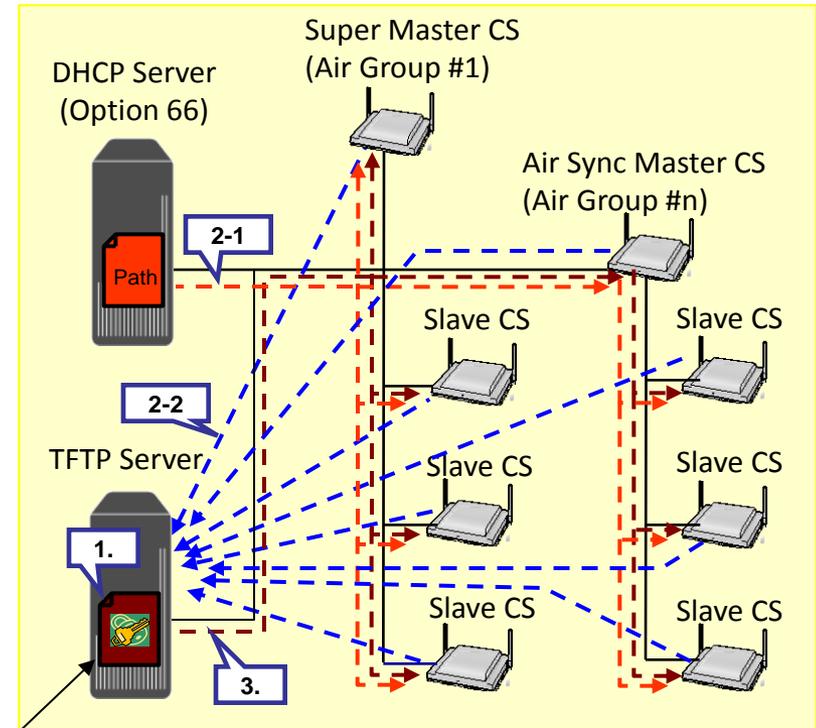
**Note: This procedure must be conducted before CSs start provisioning.**



# How to distribute the encryption key : Method①

## Method ①

1. Prepare the configuration file which includes the encryption key for pre-provisioning.
2. Conduct pre-provisioning (DHCP Option 66) **to all CSs.**
3. When a CS has completed pre-provisioning, a CS gets the encryption key (CFG\_FILE\_KEY1).



## Configuration file example (for pre-provisioning)

```
# Panasonic SIP Phone Standard Format File # DO NOT CHANGE THIS LINE!  
  
## Pre Provisioning Settings  
OPTION66_ENABLE="Y"  
OPTION66_REBOOT="Y"  
PROVISION_ENABLE="Y"  
  
## Provisioning Settings  
CFG_SYSTEM_FILE_PATH="tftp://prov.example.com/Panasonic/KX-UDS124.e1c"  
  
## Encryption key  
CFG_FILE_KEY1="01234567890123456789012345678901"
```