

# DT-X400 Series

## Android 8.1 Kitting Manual

This manual describes the Kitting Tool specification of DT-X400.



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## Preface

This manual describes the kitting procedure of the DT-X400.

Cautions!

The kitting tool is compatible with Casio's Android products other than DT-X400.

Therefore, this document and tools include "functions not supported by the DT-X 400".

DT-X400 does not support the following functions.

(1) Write fixed IP to the cradle

# 1. Overview

The task of taking various settings to DT-X400, installing application programs and preparing them for use in business is called "kitting".

The main kitting methods of the DT-X400 include "Simple Kitting" which bulk copies the setting of the master terminal with Wi-Fi Direct, and "Advanced Kitting" which enables detailed kitting one by one.

## Simple Kitting

This method follows you can easily duplicate the setting and applications from master devices to several target devices.

In this case, you do the kitting by delivery the master terminal settings and the applications installed on the master terminal to the receiver terminals.

Data of master terminal are delivered to receiver terminals via Wi-Fi Direct.

If you do not have detailed settings such as WLAN fixed IP setting, WAN setting etc., we recommend "Simple Kitting".



## Advanced Kitting

This method is useful in case, you create a definition file for kitting on the PC, kitting one by one. You copy definition files and applications to the terminal using USB memory, microSD, MTP.

If there are detailed settings such as fixed IP setting of WLAN, WAN setting etc., we recommend "Advanced Kitting".



Cautions!

Please do the kitting with the same OS version for all master and receivers(destination).

## 2. "Simple Kitting" operation

In the case of simple kitting, you can do kitting easily by bulk copying settings and applications of the master terminal to multiple receiver terminals.

### [ STEP 1 ]



[Create master terminal]

1. Install applications and files to master terminal. (Note1)
2. Change the system setting, key setting, scanner setting etc. of the master terminal. (Note2)

[Backup master terminal]

1. Backup applications and settings of the master terminal by "Backup & Restore".

### [ STEP 2 ]



[Deliver data to receiver terminals]

1. Start the delivery server with "KitCopy" of the master terminal.
2. Start receiving with "KitCopy" of receiver terminals.
3. When the receiver terminal receives the backup file, it automatically restores and restarts the terminal. (Note3)

[Kitting completed]

1. Change the settings manually as necessary.
2. Use "KitApps" as necessary to hide the application.

3. If you want to do the configure of WLAN, Ethernet fixed IP setting, WAN setting, you can easily setting them by using "Device Barcode Setting "tool.

Note1: After installing the application, please make a launch an application at least once. Because, unlaunched application cannot be backup.

Note2: Be aware that the contents to be backup / restored depends on the policy of each application, not "all settings". If the expected settings are not backup / restored, set them manually.

Note3: If you deliver the multiple files, it is efficient to deliver the backup file at last.

Notes !

Please refer to the following section to see the detailed description of tools.

KitApps: 7 KitApps (p.39)

KitCopy: 9 KitCopy (p.49)

Device Barcode Setting: 11 DeviceBarcodeSetting (p.66)

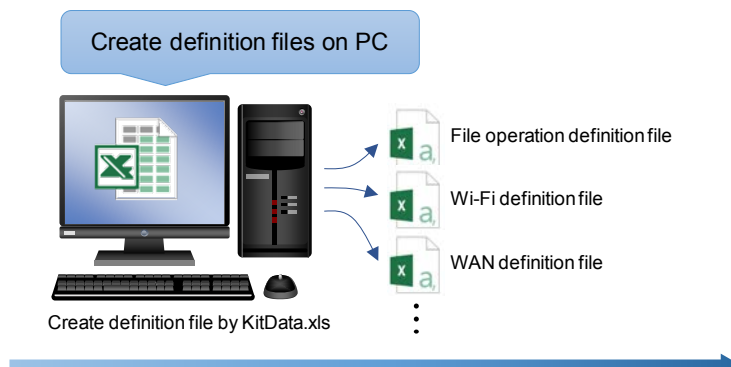
For "Backup & Restore":10 Backup & Restore (p.64)



### 3. "Advanced Kitting" operation

In the case of advanced kitting, you can install files and applications and make detailed settings of communication such as WLAN and WAN all at once by using the definition file.

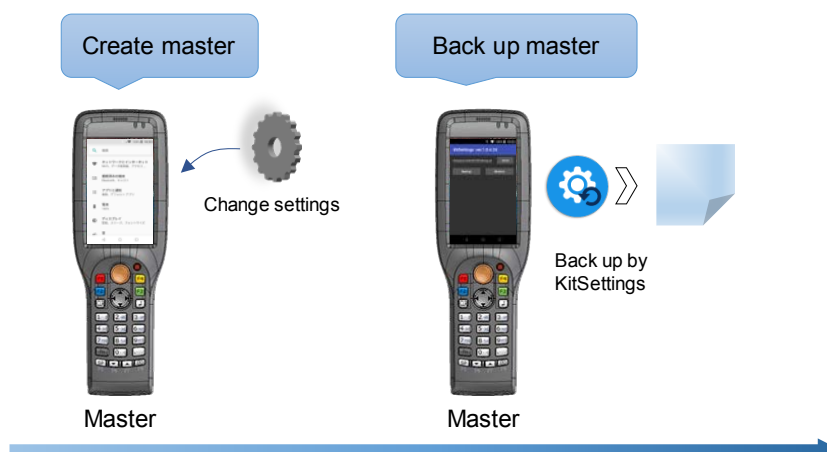
#### [ STEP 1 ]



[Create definition files]

1. Create definition files on PC.

#### [ STEP 2 ]



[Create master terminal]

1. Change the system setting, key setting, scanner setting etc. of the master terminal. (Note1)

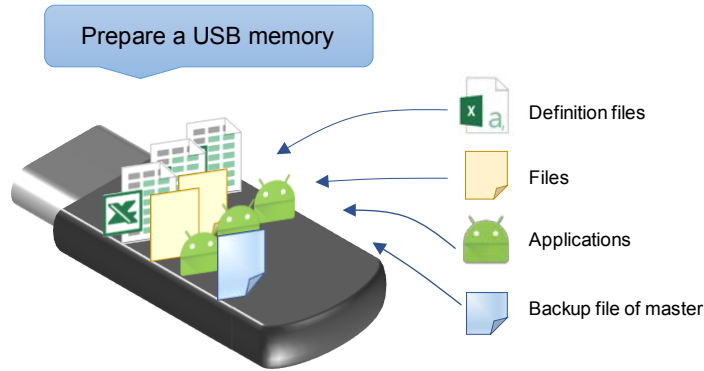
[Backup the master terminal]

1. Backup applications and settings of the master terminal by "KitSettings". (Note2)

Note1: Be aware that the contents to be backed up / restored depends on the policy of each application, not "all settings". If the expected settings are not backed up / restored, set them manually.

Note2: You can also back up by "Backup & Restore". In that case, you should also use "Backup & Restore" to restore.

### [ STEP 3 ]

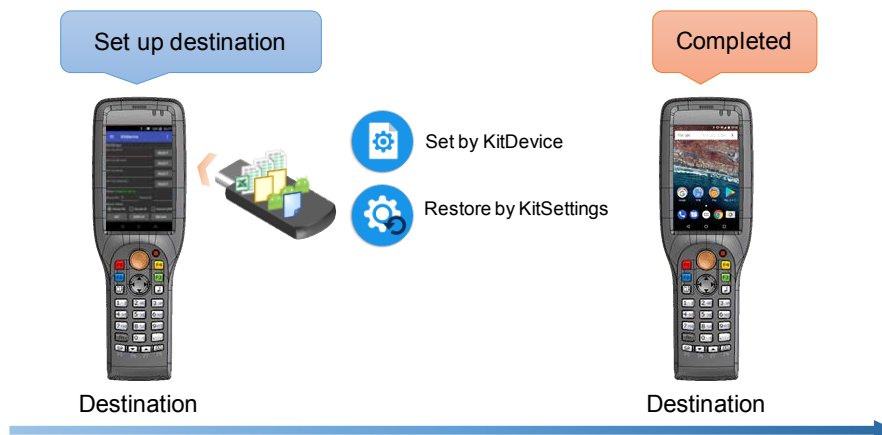


[Prepare a USB memory] (Note3)

1. Copy definition files created at STEP 1.
2. Copy a backup file of master terminal created at STEP 2.
3. Copy files and applications which you are going to install to the destination terminal.

Note3: You can also copy by microSD or PC via USB (MTP), without using USB memory.

### [ STEP 4 ]



[Set up destination terminal]

1. Install files and applications by "KitDevice".
2. Restore the settings of the master terminal by "KitSettings". (Note4) (Note5)
3. Configure WLAN, Ethernet, WAN by "KitDevice".

[Completed]

1. Change settings manually as necessary.
2. Use "KitApps" as necessary to hide the application.

Note4: If you use the definition file, you can launch "KitSettings" from "KitDevice" and perform restore automatically.

Note5: You should do the restore operation after installing applications. If you restore before installing applications, you can not restore the shortcut on the home screen.

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Notes!

Please refer to the following sections to see the detailed description of tools.

KitSettings: 5 KitSettings (p.11)

KitDevice: 6 KitDevice (p.13)

KitApps: 7 KitApps (p.39)

KitData: 8 KitData (p.43)

Device Barcode Setting: 11 DeviceBarcodeSetting (p.66)

For "Backup & Restore": 10 Backup & Restore (p.64)

## 4. Overview of Kitting Tool

This is an overview of the kitting tools.

There are applications that run on Android and Excel files that run on PC.

### << Used on Terminal >>

	Tool name	Description
1	Backup & Restore	It is used to Backup / Restore terminal settings (part of Android settings) and applications.  For "Backup & Restore", please refer to Software manual.
2	KitSettings	It is used to Backup / Restore terminal settings (part of Android settings).
3	KitDevice	It is used to install applications on terminals and make individual settings. The setting content to be set on the terminal using this tool must be created in advance using KitData.xls (described later).
4	KitApp	It is used to delete (hide) applications unnecessary for work.  The information system department does not want operators to use applications unrelated to work. In order to fulfill this hope, the DT-X400 has two functions. (1) You can lock home screen and settings. (2) You can erase unnecessary applications from the home screen.  This tool is used to "erase unnecessary applications from the home screen". Use "power launcher" when locking home screen and setting. For details of "Power launcher", refer to "Software Manual".
5	KitCopy	It is used to deliver files on the master (server) to plural receivers via Wi-Fi Direct.
6	DeviceBarcodeSetting	It is used to easily configuring several settings using barcodes. For the bar code sheet to be used, refer to " WLAN Setting Barcode Print Tool ".

### << Uses on PC >>

	Tool name	Description
1	KitData.xls	This is the source file for creating the definition file used by KitDevice. The actual definition file is generated using Excel macros. It works on Microsoft Excel (2003 ~ 2016).

## 5. KitSettings

### 5.1 Functions

Save the terminal settings to storage (Backup), or restore the saved settings to the terminal (Restore).

Notes!

KitSettings restarts the terminal after restoring.

Also, be sure to restore the backed-up data with the same OS version.

The settings targeted by this tool are shown in the table below.

	Target of Backup/Restore	Description
1	Settings app	The contents set on the setting screen are targeted. For the detail, confirm the following "Caution!".
2	Home display (i.e. Launcher2 app)	Save shortcuts placed on the home screen and contents displayed in the application list.
3	Power Launcher app	"Power Launcher" is a tool to block use of home screen (home key) with password.  KitSettings targets the setting of "Power Launcher".
4	ScanSettings app	"ScanSettings" is a tool for setting barcode scanner. It is not necessary to call Device Library from the application program.  KitSettings targets the setting of "ScanSettings". Please refer to the Device Library Manual for possible values that can be backed up and restored by the ScanSetting.
5	Program Buttons app	"ProgramButtons" is used to assign another function to the hardware key.  KitSettings targets settings of "ProgramButtons".

Notes!

"Backup / Restore" by KitSettings is realized by calling up the backup function and the restore function of each application via "Android's Backup Manager Service". "Setting" in the above table calls the backup / restore function in Settings.apk via Backup manager service. Likewise, "Launcher3.apk" is called for backing up the "home screen".

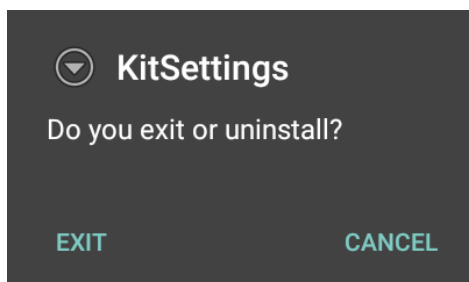
Therefore, be aware that the contents to be backed up / restored depends on the policy of each application, not "all settings".

If the expected settings are not backed up / restored, set them manually.

## 5.2 Screen



1. Path of the file used for backup or restore
2. Open dialog for changing the path above
3. Back up settings
4. Restore settings
5. Exit this utility.



## 6. KitDevice

### 6.1 Feature

This utility supports up kitting operation for the device.  
It works on the device, and supplies following functions.

No	Feature	Overview
1	Files	This function collectively executes to operate file and directory.
2	Install	This function collectively installs application softwares (.apk) in storage (SD card/..).
3	Clipboard	This function copies character string into the clipboard.
4	Settings	This function makes it easy to configure <b>Settings</b> utility's configuration items which value should be unique for each device.
5	Application	This function launches the kitting application.

#### 6.1.1 Files

This function collectively executes following operations for file/directory in accordance with contents of definition file.

- 1 Copy file
- 2 Delete file
- 3 Create directory
- 4 Delete directory (Note1)
- 5 Copy directory
- 6 Unzip zip file (Note2)
- 7 Restore back-up data (Note3)
- 8 Silent install (Note4)

Note1:

KitDevice deletes specified directory including all sub-directories and files.

However read-only directories and external storage is not applicable (If these are specified, an error will occur).

Note2:

KitDevice can unzip only zip file which is zipped on DT-X400.

Check with your own risk when using ZIP file compressed with PC.

Note3:

KitDevice can restore only back-up data that Backup/Restore utility generates.

After completing to restore, the device will be rebooted automatically.

KitDevice must not restore back-up data that Backup/Restore utility generates on the device that KitDevice is installed. In this case, restore procedure will not work correctly.

Note4:

When installing the application for the first time on the terminal, even if it is a silent installation, a confirmation dialog of "Google Play Protect" is displayed.

## 6.1.2 Install

This function installs all application softwares (.apk) that are in root directory of storage (External storage/Internal storage).

Note1:

If there is this utility on specified storage, it's skipped to install this utility.

Note2:

When installing the application for the first time on the terminal, even if it is a silent installation, a confirmation dialog of "Google Play Protect" is displayed.

## 6.1.3 Clipboard \* Common for all devices

This function copies character strings into the clipboard.

This makes it easy to input key/password when you install application software.

## 6.1.4 Settings

This function makes it easy to configure Settings utility's following configuration items which value should be unique for each device.

- 1 Wi-Fi/NTP
- 2 Ethernet
- 3 More(WAN)
- 4 Clipboard

Note:

The purpose of this clipboard is to copy unique strings for each device.

On the other hand, the purpose of clipboard mentioned in "

ERGEFORMAT 6.1.3 Clipboard" is to

copy common strings for all devices.

### Configuration items

Configuration items which can configure by this utility are shown below.

Note:

The name of configuration item in following table is quoted from Settings utility (Android standard utility).

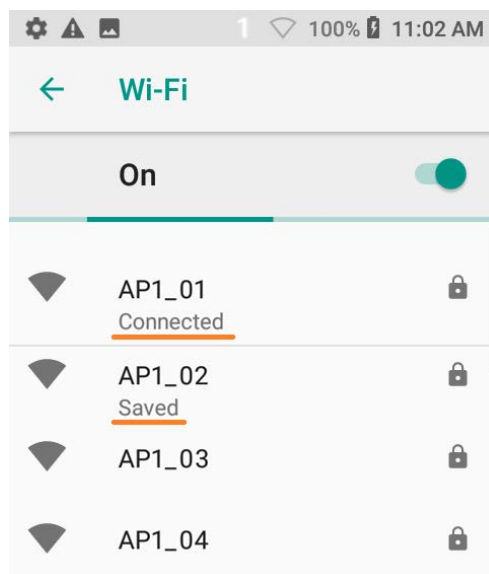


## Configuration items (Wi-Fi)

No	Configuration item	Description
	Advanced options	
	Access Point	Configure the access point.
1	SSID	The SSID name of the access point.
2	Security	Security method of the access point.
3	EAP	Authentication method when using EAP authentication.
4	Phase2	Phase 2 authentication when using EAP authentication
5	Key	Password when using WEP or PSK
6	EAP Identity	User name when using EAP authentication
7	EAP Password	Password when using EAP authentication
8	Anonymous identity	Anonymous ID when using EAP authentication
9	User Cert	User certificate when using EAP authentication
10	CA Cert	CA certificate when using EAP authentication
11	Domain	Domain when using EAP authentication
	IP Settings	Alternative to get IP address via <b>DHCP</b> or <b>STATIC</b> IP address
12	IP address	IP address when to connect with static IP address
13	Gateway	Gateway when to connect with static IP address
14	Network prefix length	Network-prefix-length of subnetmask when to connect with static IP address
15	DNS1	DNS1 when to connect with static IP address
16	DNS2	DNS2 when to connect with static IP address
	Proxy Settings	Alternative to configure proxy or <b>NONE</b>
17	Proxy hostname	Proxy hostname when to use proxy
18	Proxy port	Proxy port when to use proxy
19	Bypass proxy for	Bypass proxy when to use proxy
	NTP	Configure the NTP server.
20	Server address	NTP server address

Note:

Wi-Fi configuration by this utility works only for access-point which status is Connected or Saved on Settings utility.



### Configuration items (Ethernet)

No	Configuration item		Description
1	Tablet IP or eth0	IP Settings	Specify to get IP address via <b>DHCP</b> or <b>STATIC</b> IP address
2		IP address	IP address when to connect with static IP address
3		Gateway	Gateway when to connect with static IP address
4		Network prefix length	Network-prefix-length of subnetmask when to connect with static IP address
5		DNS1	DNS1 when to connect with static IP address
6		DNS2	DNS2 when to connect with static IP address
7		Proxy Settings	Specify whether to configure proxy or <b>NONE</b>
8		Proxy hostname	Proxy hostname when to use proxy
9		Proxy port	Proxy port when to use proxy
10		Bypass proxy for	Bypass proxy when to use proxy

### Configuration items (More)

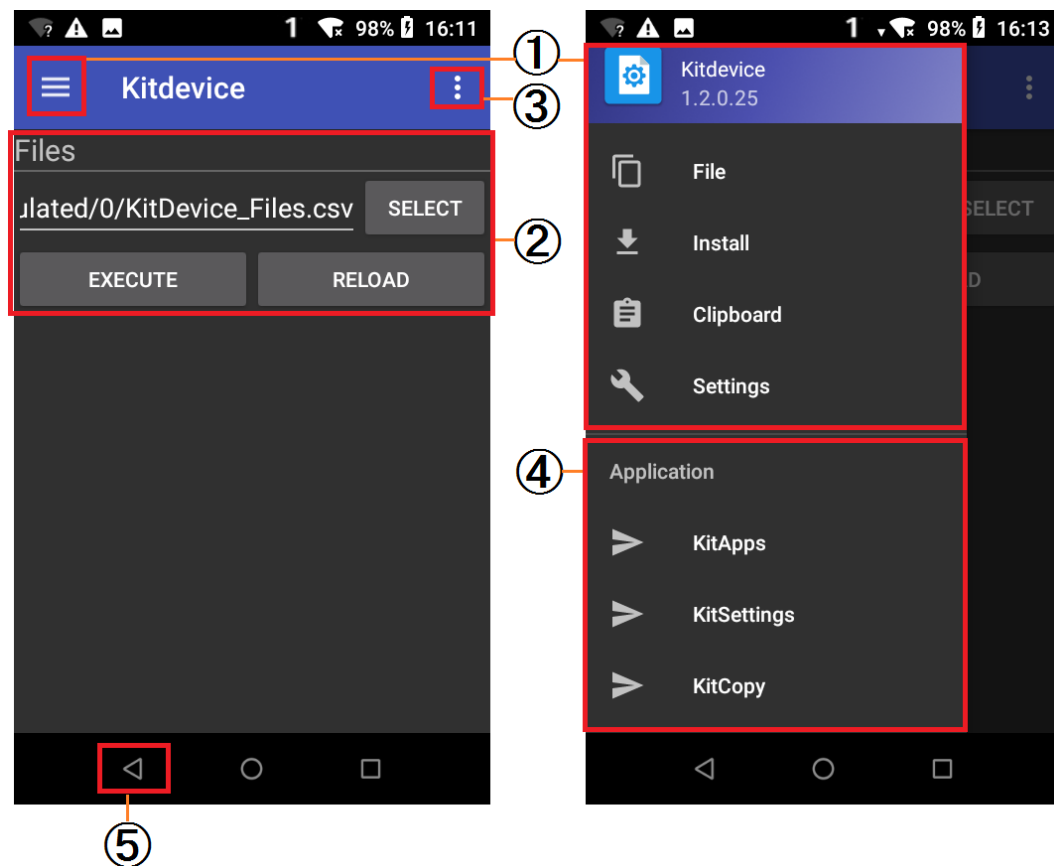
No	Configuration item		Description
1	Mobile networks	Access Point Names	Name
2			Name of access-point setting
3			APN
4			Name of access-point
5			Proxy
6			Proxy to connect
7			Port
8			Port to connect
9			Username
10			User-name to connect
11			Password
12			Password to connect
13			Server
14			Server address to connect
15			MMSC
16			MMSC address to connect
17			MMS proxy
18			MMS proxy to connect
19			MMS port
20			MMS port to connect
21			MCC
22			MMC to connect
23			MNC
24			MNC to connect
25			Authentication type
26			Authentication type to connect
27			APN type
28			APN type to connect
29			APN protocol
30			APN protocol to connect

Note:

This configuration items are available on the device which supports Mobile networks.

## 6.2 Screen

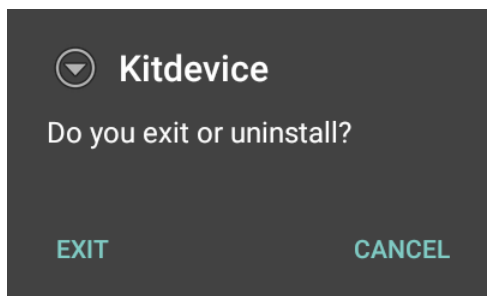
### 6.2.1 Main activity



No	Item	Description
1	Select fragment	Select the function ( <b>Files/Install/Clipboard/Settings</b> ) to execute. The function selected in this fragment is shown on <b>Execute fragment</b> .
2	Execute fragment	Display/execute kitting functions.
3	Submenu	Execute following submenus. 1 Reload (Option) : Reload definition file for option of this utility. 2 Option : Display <b>Option</b> activity. See "6.2.6 Option activity" for its details. 3 Version : Display <b>Version</b> screen. See "6.2.7 Version activity" for its details
4	Application menu	Launch Application 1 KitApps : Launch <b>KitApps</b> utility. 2 KitCradle : Launch <b>KitSettings</b> utility. 3 KitCopy : Launch <b>VKitCopy</b> utility.
5	Exit	Exit this utility. (Note1)

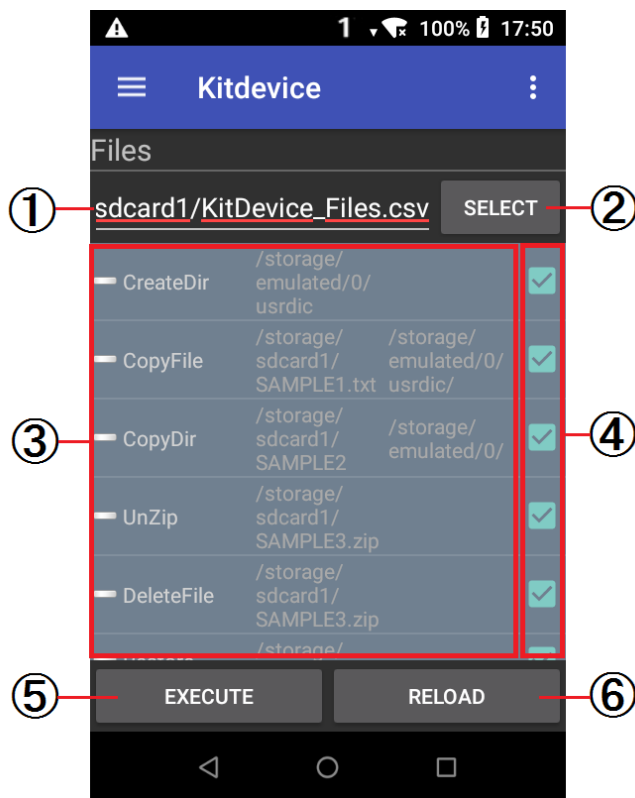
Note:

Following activity appears when to push this button.



Push Exit button to terminate this utility.

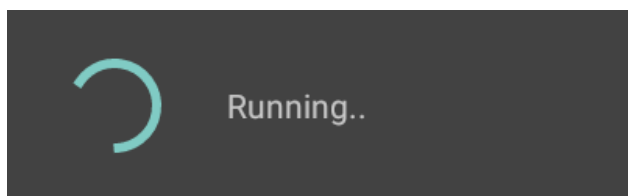
## 6.2.2 Files activity



No	Item	Description
1	Definition file	Specify definition file ( <b>KitDevice_Files.csv</b> ) for this function. See "8 KitData" for its details.
2	Select	Display the activity to select definition file.
3	Command list	Show all operations specified in definition file.
4	Execution check	Check on/off operation to execute.
5	Execute	Execute operation specified in definition file.
6	Reload	Reload definition file.

Note:

Following progress activity appears when to push this button.



Icon in Command list will be updated in accordance with result. (✔: Success, ✖: Failed)



## Configuration Items

Configuration items of this functionality are shown below.

No	Configuration Item	Description	Value (Note1)
1	Command	Specify the command of <b>Files</b> function.	(Note2)
2	Parameter1	Specify the first parameter of the command specified in above <b>Command</b> column.	Any string
3	Parameter2	Specify the second parameter of the command specified in above <b>Command</b> column.	Any string

Note1:

It's allowed to input only ASCII character font.

Note2:

See following table for its details.

No	Command	Parameter1	Parameter2
1	CopyFile	Path of source file to copy	Path of destination file to copy
2	DeleteFile	Path of source file to delete	-
3	CreateDir	Path of source directory to create	-
4	DeleteDir	Path of source directory to delete	-
4	CopyDir	Path of source directory to copy	Path of destination directory to copy
6	UnZip	Path of source file to unzip	-
7	Restore	Path of directory which stores backup data of <b>Backup/Restore</b> utility (Note3)	Specifying reboot=no can suppress rebooting. Otherwise reboots after restoring. (Note4)
8	SilentInstall	Path of directory which stores application softwares (.apk)	-

Note3:

Path of directory which stores backup data is "/storage/emulated/0".

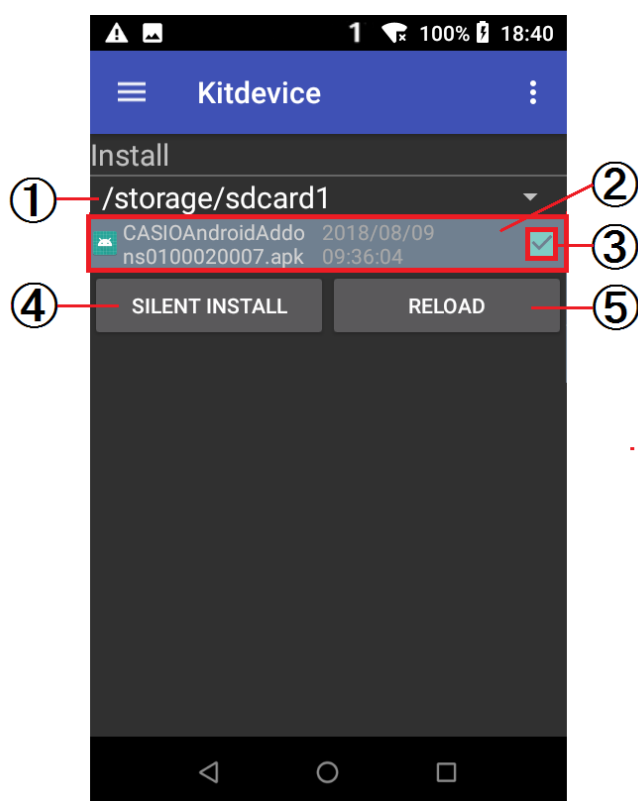
Note4:

Parameter2 of the Restore command can be used from version 1.05 or later of the definition file.

<Example of definition file>

```
[Version 1.05]
CreateDir,/storage/ emulated/0/usrdic
CopyFile,/storage/sdcard1/SAMPLE1.txt,/storage/ emulated/0/usrdic/
CopyDir,/storage/sdcard1/SAMPLE2,/storage/ emulated/0/
UnZip,/storage/sdcard1/SAMPLE3.zip
DeleteFile,/storage/sdcard1/SAMPLE3.zip
Restore,/storage/s emulated/0
SilentInstall,/storage/sdcard1/SAMPLE3
DeleteDir,/storage/sdcard1/SAMPLE3
```

## 6.2.3 Install activity



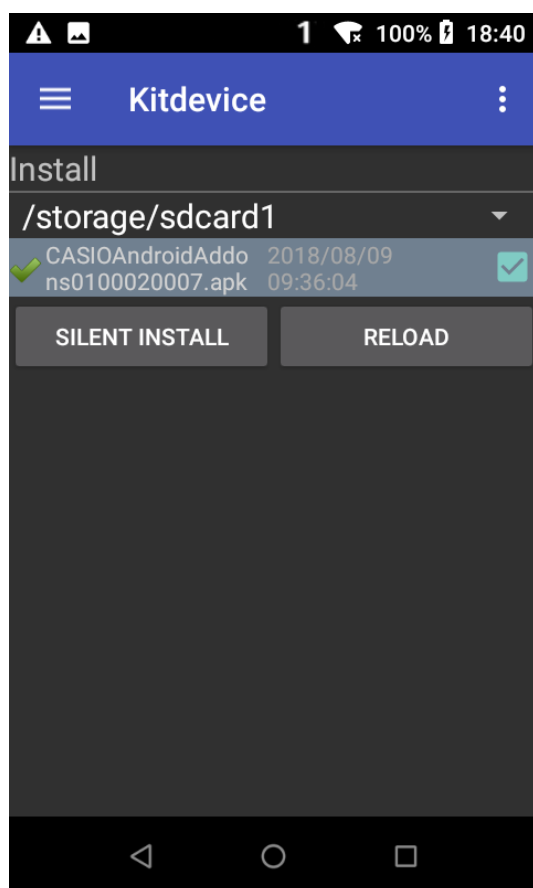
No	Item	Description
1	Storage	Select target storage to search application softwares (.apk) to install.
2	Command list	Show all application softwares (.apk) under target storage.
3	Execution check	Check on/off operation to install.
4	Silent install (Note1)	Install silently all application softwares (.apk) checked at <b>Execution check</b> .
5	Reload	Search again all application softwares (.apk) in root directory of target storage.

Note1:

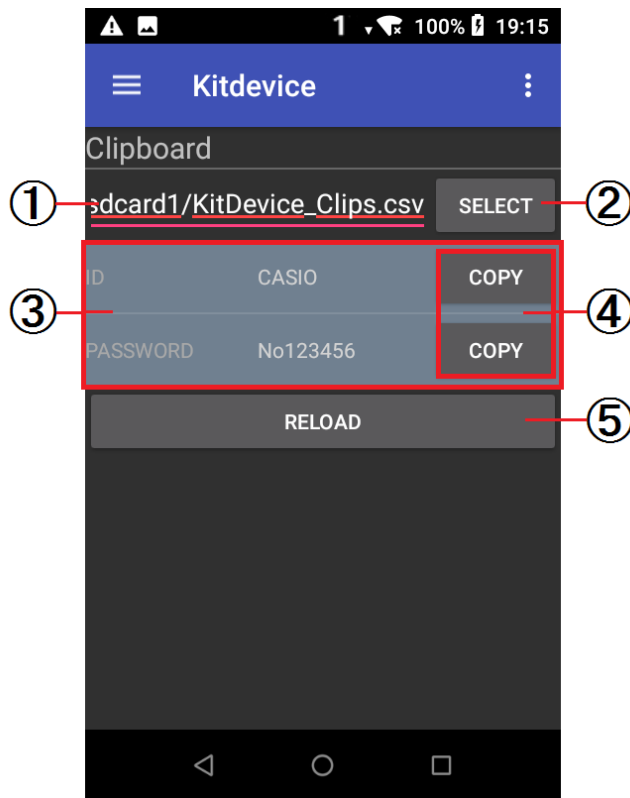
Don't execute when to install application softwares which require serial key / password/.. .



Icon in Command list will be updated in accordance with result. (✔: Success, ✖: Failed)



# 6.2.4 Clipboard activity



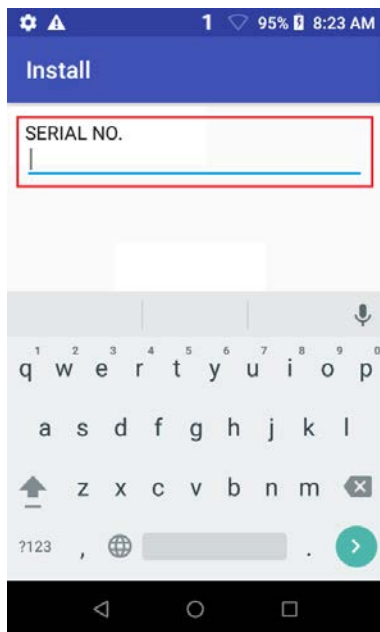
No	Item	Description
1	Definition file	Specify definition file ( <b>KitDevice_Clips.csv</b> ) for this function. See "8 KitData" for its details.
2	Select	Display the activity to select definition file.
3	Command list	Show all character string specified in definition file.
4	Copy (Note1)	Copy character string into the clipboard.
5	Reload	Reload definition file.

Note1:

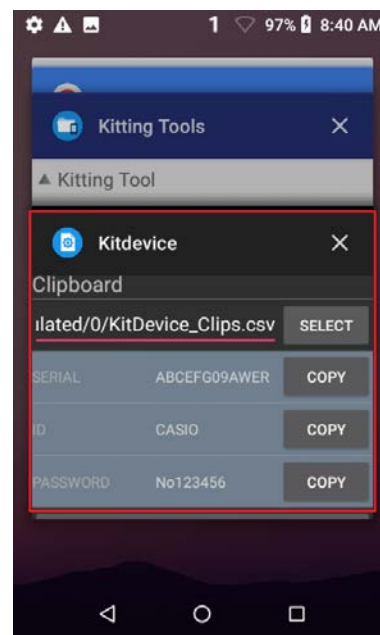
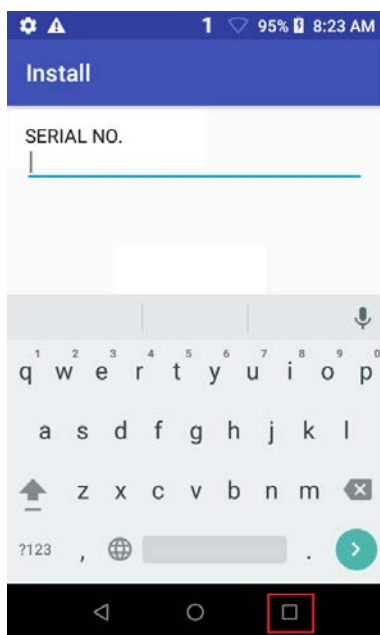
Character string copied into the clipboard by this utility will be cleared when this utility is terminated/un-installed.

## Example of practical operation

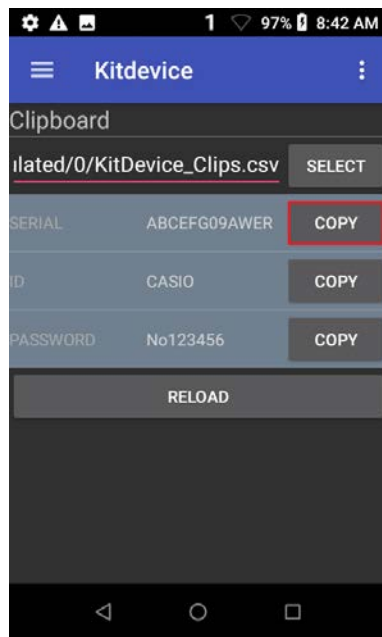
1. The screen, which requires serial key for activation of application software, appears



2. Show this utility from **Recent** button



3. Copy character string into the clipboard



4. Return to the target screen (above 1), hold down input area on its screen, and paste character string of clipboard (above 3)



## Configuration Items

Configuration items of this functionality are shown below.

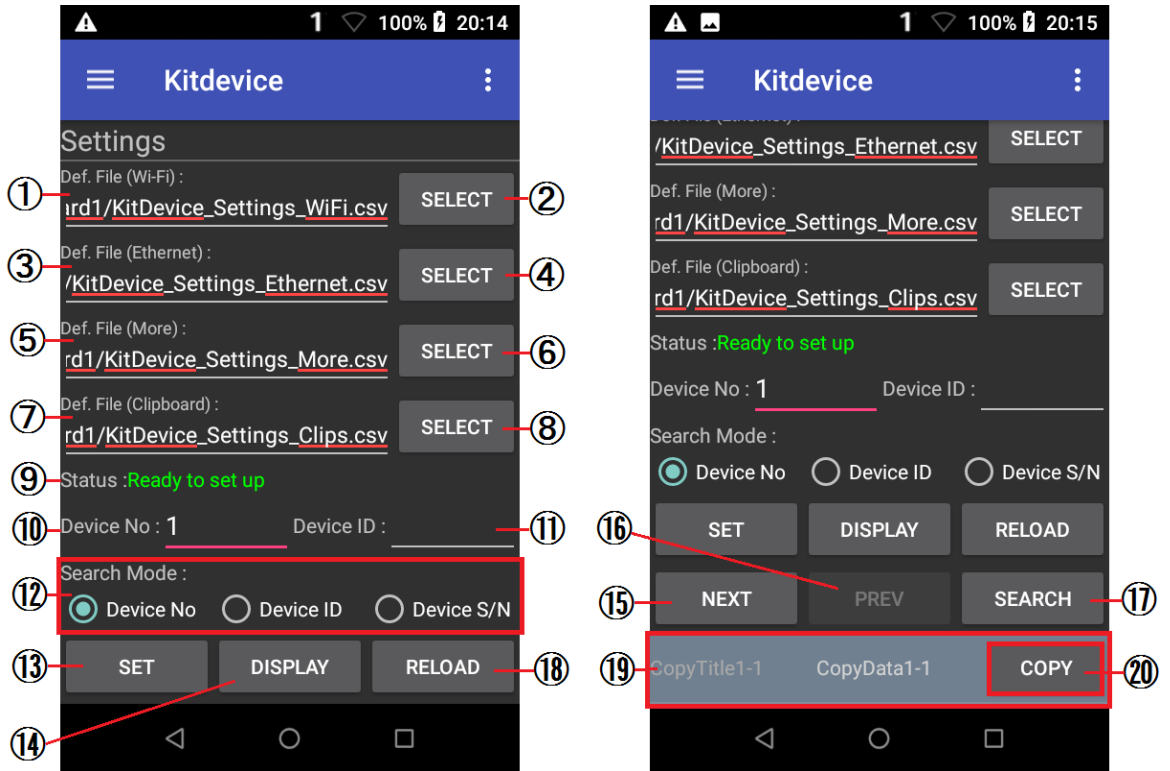
No	Configuration Item	Description	Value (Note1)
1	CopyTitle	Specify the title of string to copy.	Any string
2	CopyData	Specify the configuration value of string to copy. This string is copied into clipboard by <b>KitDevice</b> utility.	Any string

Note1: It's allowed to input only ASCII character font.

<Example of definition file>

```
[Version 1.0]
ID, CASIO
PASSWORD, No123456
```

## 6.2.5 Settings activity



No	Item	Description
1	Definition file (Wi-Fi)	Specify definition file ( <b>KitDevice_Settings_Wifi.csv</b> ) for <b>Wi-Fi</b> setting. See "8 KitData" for its details.
2	Select	Display the activity to select definition file for <b>Wi-Fi</b> setting.
3	Definition file (Ethernet)	Specify definition file ( <b>KitDevice_Settings_Ethernet.csv</b> ) for <b>Ethernet</b> setting. See "8 KitData" for its details.
4	Select	Display the activity to select definition file for <b>Ethernet</b> setting.
5	Definition file (More)	Specify definition file ( <b>KitDevice_Settings_More.csv</b> ) for <b>More</b> setting. See "8 KitData" for its details.
6	Select	Display the activity to select definition file for <b>More</b> setting.
7	Definition file (Clipboard)	Specify definition file ( <b>KitDevice_Settings_Clips.csv</b> ) for <b>Clipboard</b> setting. See "8 KitData" for its details.
8	Select	Display the activity to select definition file for <b>Clipboard</b> setting.
9	Status (Note1)	Indicate the status of configuration values, specified in definition file, which device NO/ID matches with that specified on this activity.
10	Device No	Specify number of target device specified in definition file.
11	Device ID	Specify ID of target device specified in definition file.
12	Search Mode (Note2)	Select one of following mode to search configuration values specified in definition file. (1) Search by device No (2) Search by device ID (3) Search by device S/N (Serial Number)
13	Set (Note3) (Note4)	Configure configuration values to the device.
14	Display	Display the activity which indicates configuration values, specified in definition file, which device NO/ID matches with that specified on this activity.
15	Next	Search configuration values, specified in definition file, which Device No/ID is one more than that specified on this activity.
16	Prev	Search configuration values, specified in definition file, which Device No/ID is one

		less than that specified on this activity.
17	Search	Search configuration values, specified in definition file, which device NO/ID matches with that specified on this activity.
18	Reload	Reload definition file.
19	Clipboard	Show character string specified in the record, which Device No/ID is matched with Device No/ID specified on this activity, of definition file <b>(KitDevice_Settings_Clips.csv).</b>
20	Copy	Copy character string into the clipboard.

Note1:

Following status is shown.

No	Indication	Status
1	Ready to set up	Configuration values have never been configured to the device.
2	Saved	Configuration values have already been configured to the device.

Note2:

Default value is read by definition file for option (KitDevice\_Options.csv) when this utility launches.

In case following all conditions are satisfied, this utility search automatically configuration values from definition file

- (a) Search mode is specified as Device S/N in definition file for option of this utility.
- (b) Configuration value, which device serial number matches with current device serial number, is specified in definition file.

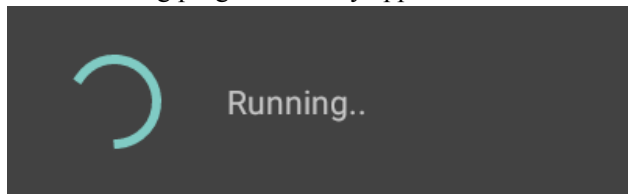
In case Device S/N is specified, Device No/ID radio button will be disabled.

However, in case only above condition (a) is satisfied, Search mode will be automatically selected as Device No, and the head of configuration values in definition file will be searched on the activity.

Note3:

When this button is pushed, configuration for items (Wi-Fi/Ethernet/More) that definition file path is specified on edit text of this activity will start.

And following progress activity appears.



When to complete configuration, following toast message will appear.

```
[Result]
- Wi-Fi : Failed
- Ethernet : Success
- More : Failed
```

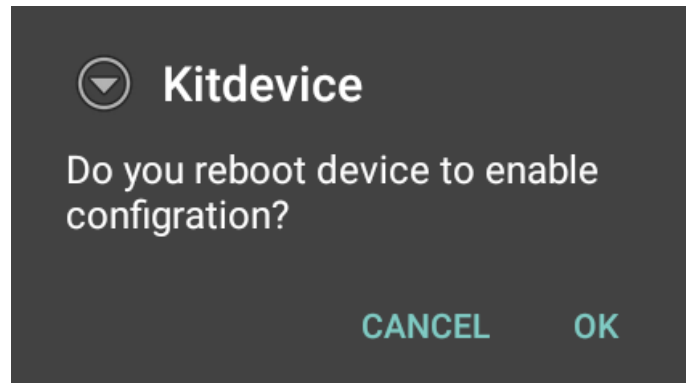
```
"Success"      : Success to configure
"Failed"       : Failed to configure
"."           : Not attempt to configure (definition file is not specified)
```

Device serial number of the device will be saved into definition file in case to succeed configuration and satisfy following conditions.

- 1 There is no serial number, which match with that of current device, in definition file
- 2 Serial number is set up in the device

Note4:

In case configuration for **Wi-Fi/Ethernet** was succeeded, following activity, which prompts to reboot the device, will appear.



In case to push **OK** button of this activity, then rebooting the device will start automatically, then configuration by this utility will be valid after rebooting the device.

In case **Mobile networks** (specified in **KitDevice\_Settings\_More.csv**) is configured, it will take a while that the configuration value of **Mobile networks** will appear on **Settings** utility after the device is rebooted.

## Configuration Items

Configuration items of this functionality are shown below.

### (1) Wi-Fi

No	Configuration Item	Description	Value (Note1)
1	ID	Specify ID of target device to configure.	Any string
2	Serial number	Specify serial number of target device to configure.	Any string
3	SSID	Specify SSID of access-point to connect.	Any string
4	Security	Specify the security type of the access point. WEP WPA/WPA2 PSK 802.1x EAP	String
5	EAP	Specify the authentication method when to use EAP authentication. PEAP TLS TTLS	String
6	Phase2	Specify the phase 2 authentication when to use EAP authentication. None PAP MSCHAP MSCHAPV2 GTC	String
7	Key	Specify WEP / PSK password.	Any string
8	EAP Identity	Specify the user name when to use EAP authentication.	Any string
9	EAP Password	Specify the password when to use EAP authentication.	Any string
10	Anonymous identity	Specify anonymous ID when to use EAP authentication.	Any string



11	User Cert	<p>Specify the user certificate when to use EAP authentication.</p> <p>In the input area, specify the certificate name and certificate password. If the certificate name is not the full path, the certificate is searched from "the same directory as the Wi-Fi definition file".</p> <p>If the passwords of the certificate (pfx) and private key (pvk) are the same, specify it with "certificate name,password". Ex: Certification.pfx,12345678</p> <p>If the certificate (pfx) and secret key (pvk) have different passwords, specify them with "certificate name,pfx password,pvk password". Ex: Certification.pfx,1234,5678</p>	Any string
12	CA Cert	<p>Specify the CA certificate when to use EAP authentication.</p> <p>If the certificate name is not the full path, the certificate is searched from "the same directory as the Wi-Fi definition file".</p> <p>To use system certificate, specify "SYSTEM". Ex: SYSTEM</p> <p>To use the certificate (.cer), specify "certificate name". Ex: Certification.cer</p> <p>To use the certificate (pfx), specify it with "certificate name,password". Ex: Certification.pfx,1234</p>	Any string
13	Domain	Specify the domain when to use EAP authentication.	Any string
14	IpAddr (Note2)	Specify IP address when to connect with static IP address.	Any address
15	Subnetmask (Network prefix length) (Note2)	Specify subnetmask when to connect with static IP address.	Any address
16	DefaultGateway (Note2)	Specify gateway when to connect with static IP address.	Any address
17	DNS1 (Note3)	Specify DNS1 when to connect with static IP address.	Any address
18	DNS2 (Note3)	Specify DNS2 when to connect with static IP address.	Any string
19	ProxyHost (Note4)	Specify proxy hostname when to configure proxy.	Any number
20	ProxyPort (Note4)	Specify proxy port when to configure proxy.	Any string
21	ProxyExclusion	Specify bypass proxy when to configure proxy.	Any string
22	NTP	Specify NTP server address.	Any string

Note1:

If comma character is included in specified item, comma character with double quote at both ends will be outputted in definition file.

Note2:

In case of using static IP, these are necessary to set. In case of using DHCP, these settings are unnecessary.

Note3:

Specify the DNS server address if needed. When omitted, it is treated as using DHCP.

Note4:

Specify the proxy server address if necessary. If omitted, it is treated as not using proxy.

Note5:

If SSID security is specified using version 1.06 or later, this tool delete all registered access point information in the terminal before making settings.

If version 1.05 or earlier or SSID security is not specified, the access point already registered in the terminal is maintained as it is.

<Example of definition file>

```
[Version 1.1]
1,DeviceID1,HIM2A00601,SSID-1,192.1.60.1,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
2,DeviceID2,HIM2A00602,SSID-1,192.1.60.2,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
3,DeviceID3,HIM2A00603,SSID-1,192.1.60.3,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
4,DeviceID4,HIM2A00604,SSID-1,192.1.60.4,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
5,DeviceID5,HIM2A00605,SSID-1,192.1.60.5,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
6,DeviceID6,HIM2A00606,SSID-1,192.1.60.6,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
7,DeviceID7,HIM2A00607,SSID-1,192.1.60.7,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
8,DeviceID8,HIM2A00608,SSID-1,192.1.60.8,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
9,DeviceID9,HIM2A00609,SSID-1,192.1.60.9,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
10,DeviceID10,HIM2A00610,SSID-1,192.1.60.10,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
11,DeviceID11,HIM2B00601,SSID-1,192.1.70.1,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
12,DeviceID12,HIM2B00602,SSID-1,192.1.70.2,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
13,DeviceID13,HIM2B00603,SSID-1,192.1.70.3,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
14,DeviceID14,HIM2B00604,SSID-1,192.1.70.4,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
15,DeviceID15,HIM2B00605,SSID-1,192.1.70.5,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
16,DeviceID16,HIM2B00606,SSID-1,192.1.70.6,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
17,DeviceID17,HIM2B00607,SSID-1,192.1.70.7,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
18,DeviceID18,HIM2B00608,SSID-1,192.1.70.8,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
19,DeviceID19,HIM2B00609,SSID-1,192.1.70.9,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
20,DeviceID20,HIM2B00610,SSID-1,192.1.70.10,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
```

## (2) Ethernet

No	Configuration Item	Description	Value (Note1)
1	ID	Specify ID of target device to configure.	Any string
2	Serial number	Specify serial number of target device to configure.	Any string
3	IpAddr (Note2)	Specify IP address when to connect with static IP address.	Any address
4	Subnetmask (Network prefix length) (Note2)	Specify subnetmask when to connect with static IP address.	Any address
5	DefaultGateway (Note2)	Specify gateway when to connect with static IP address.	Any address
6	DNS1	Specify DNS1 when to connect with static IP address.	Any address
7	DNS2	Specify DNS2 when to connect with static IP address.	Any string
8	ProxyHost (Note3)	Specify proxy hostname when to configure proxy.	Any number
9	ProxyPort (Note3)	Specify proxy port when to configure proxy.	Any string
10	ProxyExclusion	Specify bypass proxy when to configure proxy.	Any string

Note:

If comma is included in specified item, comma with double quote at both ends will be outputted in definition file.

Note1:

It's allowed to input only ASCII character font.

Note2:

In case this item is not specified, **KitDevice** utility will configure as **DHCP** on **V-T500/V-N500/DT-X400**.

Note3:

In case this item is not specified, **KitDevice** utility will configure proxy settings as **NONE**.

<Example of definition file>

```
[Version 1.0]
1,DeviceID1,HIM2A00601,192.1.60.1,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
2,DeviceID2,HIM2A00602,192.1.60.2,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
3,DeviceID3,HIM2A00603,192.1.60.3,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
4,DeviceID4,HIM2A00604,192.1.60.4,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
5,DeviceID5,HIM2A00605,192.1.60.5,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
6,DeviceID6,HIM2A00606,192.1.60.6,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
7,DeviceID7,HIM2A00607,192.1.60.7,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
8,DeviceID8,HIM2A00608,192.1.60.8,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
9,DeviceID9,HIM2A00609,192.1.60.9,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
10,DeviceID10,HIM2A00610,192.1.60.10,255.255.255.0,192.1.60.200,192.1.60.201,192.1.60.202,proxy.hostA,8080,localhostA
11,DeviceID11,HIM2B00601,192.1.70.1,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
12,DeviceID12,HIM2B00602,192.1.70.2,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
13,DeviceID13,HIM2B00603,192.1.70.3,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
14,DeviceID14,HIM2B00604,192.1.70.4,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
15,DeviceID15,HIM2B00605,192.1.70.5,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
16,DeviceID16,HIM2B00606,192.1.70.6,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
17,DeviceID17,HIM2B00607,192.1.70.7,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
18,DeviceID18,HIM2B00608,192.1.70.8,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
19,DeviceID19,HIM2B00609,192.1.70.9,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
20,DeviceID20,HIM2B00610,192.1.70.10,255.255.0.0,192.1.70.200,192.1.70.201,192.1.70.202,proxy.hostB,9090,localhostB
```

### (3) More

No	Configuration Item	Description	Value (Note1)
1	ID	Specify ID of target device to configure.	Any string
2	Serial number	Specify serial number of target device to configure.	Any string
3	Default	Specify to set access-point as default or not.	Number 0: Not set 1: Set
4	Name (Note2)	Specify name of access-point	Any string
5	Apn (Note2)	Specify address of access-point	Any string
6	Proxy	Specify proxy to connect	Any string
7	Port	Specify port to connect	Any number
8	Username	Specify user-name to connect	Any string
9	Password	Specify password to connect	Any string
10	Server	Specify server address to connect	Any string
11	Mmsc	Specify MMSC address to connect	Any string
12	MmsProxy	Specify MMS proxy to connect	Any string
13	MmsPort	Specify MMS port to connect	Any number
14	MCC (Note2)	Specify MMC to connect	Any number
15	MNC (Note2)	Specify MNC to connect	Any number
16	AuthType	Specify authentication type to connect.	Number 0: None 1: PAP 2: CHAP 3: PAP or CHAP
17	ApnType	Specify APN type to connect	Any string
18	ApnProtocol	Specify APN protocol to connect	Number 0: IPv4

Note:

If comma character is included in specified item, comma character with double quote at both ends will be outputted in definition file.

Note1:

It's allowed to input only ASCII character font.

Note2:

These cannot be omitted. If omitted, this APN setting itself is invalidated.

#### <Example of definition file>

```
[Version 1.0]
1,DeviceID1,HIM2A00601,1,APN1,xx.ne.jp,Proxy1,8080,User1,Pass1,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
2,DeviceID2,HIM2A00602,1,APN1,xx.ne.jp,Proxy1,8080,User2,Pass2,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
3,DeviceID3,HIM2A00603,1,APN1,xx.ne.jp,Proxy1,8080,User3,Pass3,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
4,DeviceID4,HIM2A00604,1,APN1,xx.ne.jp,Proxy1,8080,User4,Pass4,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
5,DeviceID5,HIM2A00605,1,APN1,xx.ne.jp,Proxy1,8080,User5,Pass5,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
6,DeviceID6,HIM2A00606,1,APN1,xx.ne.jp,Proxy1,8080,User6,Pass6,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
7,DeviceID7,HIM2A00607,1,APN1,xx.ne.jp,Proxy1,8080,User7,Pass7,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
8,DeviceID8,HIM2A00608,1,APN1,xx.ne.jp,Proxy1,8080,User8,Pass8,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
9,DeviceID9,HIM2A00609,1,APN1,xx.ne.jp,Proxy1,8080,User9,Pass9,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
10,DeviceID10,HIM2A00610,1,APN1,xx.ne.jp,Proxy1,8080,User10,Pass10,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
11,DeviceID11,HIM2B00601,0,APN1,xx.ne.jp,Proxy1,8080,User11,Pass11,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
12,DeviceID12,HIM2B00602,0,APN1,xx.ne.jp,Proxy1,8080,User12,Pass12,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
13,DeviceID13,HIM2B00603,0,APN1,xx.ne.jp,Proxy1,8080,User13,Pass13,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
14,DeviceID14,HIM2B00604,0,APN1,xx.ne.jp,Proxy1,8080,User14,Pass14,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
15,DeviceID15,HIM2B00605,0,APN1,xx.ne.jp,Proxy1,8080,User15,Pass15,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
16,DeviceID16,HIM2B00606,0,APN1,xx.ne.jp,Proxy1,8080,User16,Pass16,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
17,DeviceID17,HIM2B00607,0,APN1,xx.ne.jp,Proxy1,8080,User17,Pass17,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
18,DeviceID18,HIM2B00608,0,APN1,xx.ne.jp,Proxy1,8080,User18,Pass18,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
19,DeviceID19,HIM2B00609,0,APN1,xx.ne.jp,Proxy1,8080,User19,Pass19,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
20,DeviceID20,HIM2B00610,0,APN1,xx.ne.jp,Proxy1,8080,User20,Pass20,Server1,http://mms.xx,192.1.0.1,8000,400,20,0,"xx,yy",0
```

#### (4) Clipboard

No	Configuration Item	Description	Value (Note1)
1	ID	Specify ID of target device to configure.	Any string
2	Serial number	Specify serial number of target device to configure.	Any string
3	CopyTitle XX (Note2)	Specify the title of string to copy.	Any string
4	CopyData XX (Note2)	Specify the configuration value of string to copy. This string is copied into clipboard by <b>KitDevice</b> utility.	Any string

Note:

If comma character is included in specified item, comma character with double quote at both ends will be outputted in definition file.

Note1:

It's allowed to input only ASCII character font.

Note2:

In case this utility is in the initial state, value 1-10 are numbered at XX part in above table beforehand. If these columns are in short for your usage, add columns (by copy and paste ...).

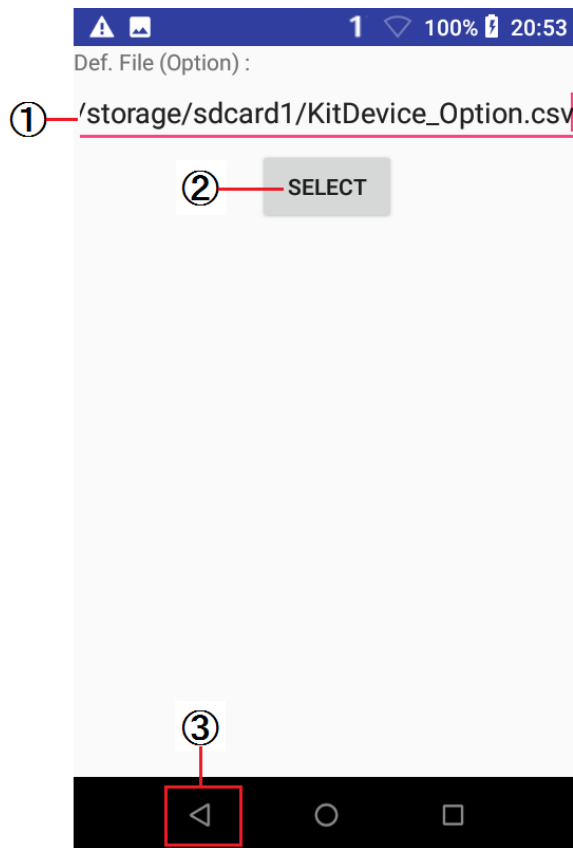
#### <Example of definition file>

```
[Version 1.03]
1,DeviceID1,HIM2A00601,CopyTitle1-1,CopyData1-1,CopyTitle1-2,CopyData1-2,CopyTitle1-3,CopyData1-3
2,DeviceID2,HIM2A00602,CopyTitle2-1,CopyData2-1,CopyTitle2-2,CopyData2-2,CopyTitle2-3,CopyData2-3
3,DeviceID3,HIM2A00603,CopyTitle3-1,CopyData3-1,CopyTitle3-2,CopyData3-2,CopyTitle3-3,CopyData3-3
4,DeviceID4,HIM2A00604,CopyTitle4-1,CopyData4-1,CopyTitle4-2,CopyData4-2,CopyTitle4-3,CopyData4-3
5,DeviceID5,HIM2A00605,CopyTitle5-1,CopyData5-1,CopyTitle5-2,CopyData5-2,CopyTitle5-3,CopyData5-3
```

Note:

- Consecutive number is automatically saved at the left end of each line in definition file when definition file is generated by this utility.
- When Settings is done by KitDevice utility,
  - 1) The flag which means saved status will be added at the right end of line in definition file.
  - 2) Device serial number detected by the device will be saved into definition file

## 6.2.6 Option activity



No	Item	Description
1	Definition file	Specify definition file for option of this utility. See "8 KitData" for its details.
2	Select	Display the activity to select definition file.
3	Exit	Exit this activity.

### Configuration Items

Configuration items of this functionality are shown below.

No	Configuration Item	Description	Value (Note1)
1	KitDevice_Files	Specify the path of <b>Files</b> function of <b>KitDevice</b> utility.  [Default value] (Note2) /storage/emulated/0/KitDevice_Files.csv	Any string
2	KitDevice_Install	Specify the storage path which is searched by <b>Install</b> function of <b>KitDevice</b> utility.  [Default value] (Note2) /storage/emulated/0	Any string
3	KitDevice_Clips	Specify the path of <b>Clipboard</b> function of <b>KitDevice</b> utility.  [Default value] (Note2) /storage/emulated/0/KitDevice_Clips.csv	Any string
4	KitDevice_Settings_Wifi	Specify the path of <b>Settings</b> function, concerning <b>Wi-Fi</b> , of <b>KitDevice</b> utility.	Any string

		[Default value] (Note2) /storage/emulated/0/KitDevice_Settings_Wifi.csv	
5	KitDevice_Settings_Ethernet	Specify the path of <b>Settings</b> function, concerning <b>Ethernet</b> , of <b>KitDevice</b> utility.  [Default value] (Note2) /storage/emulated/0/KitDevice_Settings_Ethernet.csv	Any string
6	KitDevice_Settings_More	Specify the path of <b>Settings</b> function, concerning <b>More</b> , of <b>KitDevice</b> utility.  [Default value] (Note2) /storage/emulated/0/KitDevice_Settings_More.csv	Any string
7	KitDevice_Settings_Clips	Specify the path of <b>Settings</b> function, concerning <b>Clipboard</b> , of <b>KitDevice</b> utility.  [Default value] (Note2) None	Any string
8	KitDevice_Settings_SearchMode	Specify the search mode to search configuration values, specified in definition file, by <b>KitDevice</b> utility.  [Default value] (Note2) Device No	Number 0: Device No 1: Device ID 2: Device serial no

Note1:

It's allowed to input only ASCII character font.

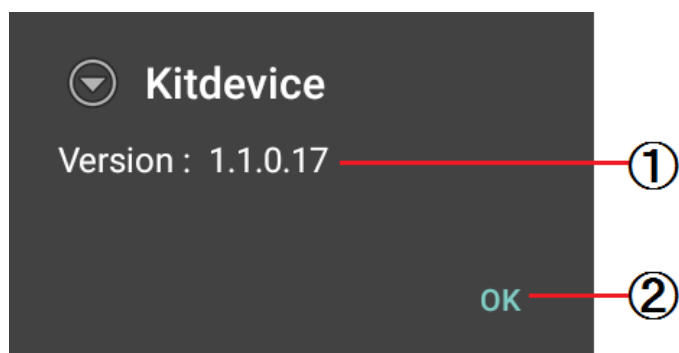
Note2:

In case definition file generated by this sheet is not existed when **KitDevice** utility launches, this default value will be applied to **KitDevice** utility.

<Example of definition file>

```
[Version 1.0]
KitDevice_Files,/storage/sdcard1/KitDevice_Files.csv
KitDevice_Install,/storage/sdcard1
KitDevice_Clips,/storage/sdcard1 /KitDevice_Clips.csv
KitDevice_Settings_Wifi,/storage/sdcard1
/KitDevice_Settings_Wifi.csv
KitDevice_Settings_Ethernet,/storage/sdcard1/KitDevice_Settings_Eth
ernet.csv
KitDevice_Settings_More,/storage/sdcard1/KitDevice_Settings_More.cs
v
KitDevice_Settings_Clips,/storage/sdcard1/KitDevice_Settings_Clips.
csv
KitDevice_Settings_SearchMode,2
```

## 6.2.7 Version activity



No	Item	Description
1	Version information	Display version information of this utility.
2	OK	Exit this activity.



## 7. KitApps

### 7.1 Feature

This utility supports up kitting operation for application softwares installed in the device. It works on the device, and supplies following function.

No	Feature	Overview
1	Enable/disable application software	This function enables/disables application softwares installed in device.

#### 7.1.1 Enable/disable application software

This function enables/disables application softwares installed in device. The application software disabled by this utility disappears from the screen, and appears again if enabled by this utility.

##### (1) Disable application software

The application software disabled by this utility will be in following state.

- 1 Icons and widgets on drawer and home screen will disappear. (Note1)
- 2 The information about application software will not be shown on **Settings** utility (**Android** standard utility).

Note1:

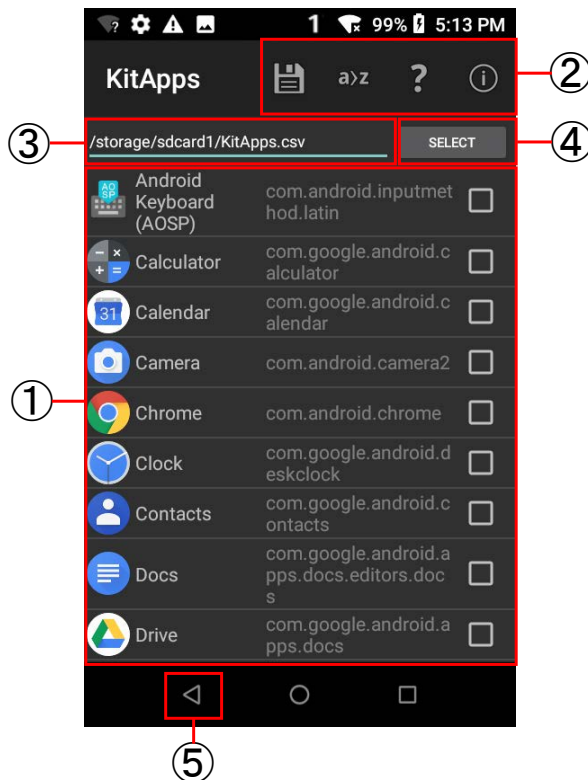
Icons and widgets disappeared from home screen will not appear even if enabled again.





##### (2) Enable application software

The application software enabled by this utility will be restored to its original condition (except Icons and widgets on home screen).

## 7.2 Screen

### 7.2.1 Main activity



No	Item	Description
1	Application softwares list	This list shows all invalidizable application softwares installed in the device (except this utility). Following information of each application software is shown. 1 Application name 2 Package name 3 The state of enabled/disabled (Note1)
2	Menu bar	Execute following menus. <div>  : Outputs the application list information to the CSV file specified by "File path". (Note2)  Default: /storage/emulated/0/KitApps.csv   : Sort application softwares list. (Note3)   : Show help activity of this utility. (Note4)   : Show the activity of device information (Note5) </div>
3	File path	Specify the path of the file to read the setting. If there is a default file when launching this tool, it will be loaded automatically. (Note6) Default: /storage/sdcard1 /KitApps.csv
4	File select	Restore the visible / invisible state of each application from the file specified by file selection. (Note2)
5	Exit	Exit this utility

Note1:

The application software disabled by this utility is checked on.

(1) How to disable application software

Check on target application software at application softwares list of this utility.

It will take a few seconds to reflect in system.

Some application softwares may affect system and other application softwares.  
If this kind of application software is disabled, system may be unstable or other application software may not work correctly.  
For that reason, please check about above matter before disabling an application software.

## (2) How to enable application software

Check off target application software at application softwares list of this utility.

It will take a few seconds to be enabled.



### Note2:

File specification is shown below.

Font code	: UTF-8
Format	: CSV
Contents	: No, application name, package name, version name, version code, visibility (true / false)

### Note3:

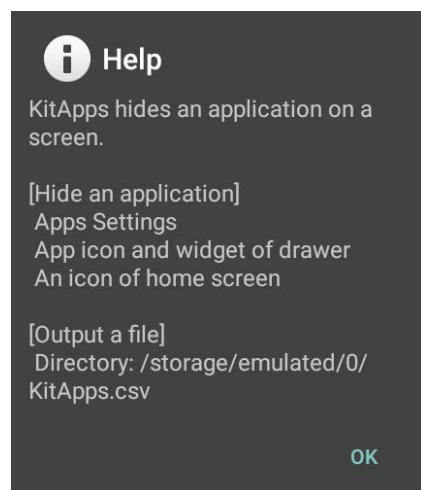
Icon indicates current sorting order.

	: Sorted by application name (default)
	: Sorted by package name

It's impossible to save this sorting order.

### Note4:

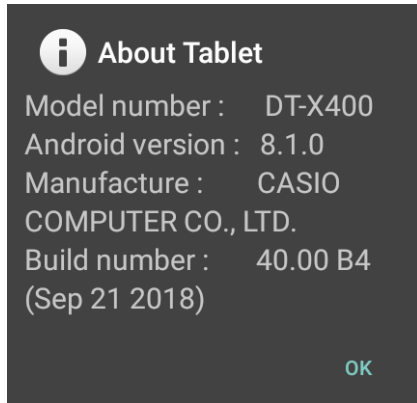
Following help activity appears.



Note5:

Following information is shown on the activity of device information.

- 1 Model number
- 2 Android version
- 3 Manufacture
- 4 Build number



Note6:

The default path checks the files in the following order and becomes the first found file path. If the file can not be found, it becomes the third file path.

- 1 /storage/usbotg/KitApps.csv
- 2 /storage/sdcard1/KitApps.csv
- 3 /storage/emulated/0/KitApps.csv

## 8. KitData

### 8.1 Feature

This utility generates definition files for Kitting Tool.

It works on Microsoft Excel (2003-2016), and supplies following function.

No	Feature	Overview
1	Generate definition files	This function generates definition files for <b>Kitting Tool</b> .

#### 8.1.1 Generate definition file

This function generates following definition files.

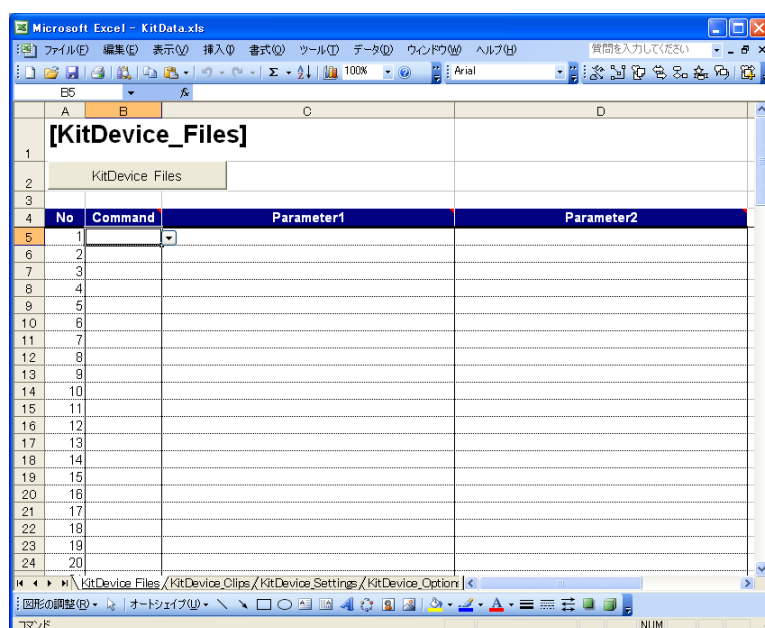
No	Target	Definition file	Overview
1	<b>KitDevice</b>	<b>KitDevice_Files.csv</b>	This is definition file for <b>Files</b> function of <b>KitDevice</b> utility.
2		<b>KitDevice_Clips.csv</b>	This is definition file for <b>Clipboard</b> function of <b>KitDevice</b> utility.
3		<b>KitDevice_Settings_Wifi.csv</b>	This is definition file for <b>Settings</b> function, concerning <b>Wi-Fi</b> , of <b>KitDevice</b> utility.
4		<b>KitDevice_Settings_Ethernet.csv</b>	This is definition file for <b>Settings</b> function, concerning <b>Ethernet</b> , of <b>KitDevice</b> utility.
5		<b>KitDevice_Settings_More.csv</b>	This is definition file for <b>Settings</b> function, concerning <b>More</b> , of <b>KitDevice</b> utility.
6		<b>KitDevice_Settings_Clips.csv</b>	This is definition file for <b>Settings</b> function, concerning <b>Clipboard</b> , of <b>KitDevice</b> utility.
7		<b>KitDevice_Options.csv</b>	This is definition file for option of <b>KitDevice</b> utility.
8	<b>KitCradle</b>	<b>KitCradle_Settings_Ethernet.csv</b>	This is definition file for <b>Settings</b> function, concerning <b>Ethernet</b> , of <b>KitCradle</b> utility.
9		<b>KitCradle_Options.csv</b>	This is definition file for option of <b>KitCradle</b> utility.

File specification is shown below.

Format : CSV

## 8.2 Screen

### 8.2.1 Main screen

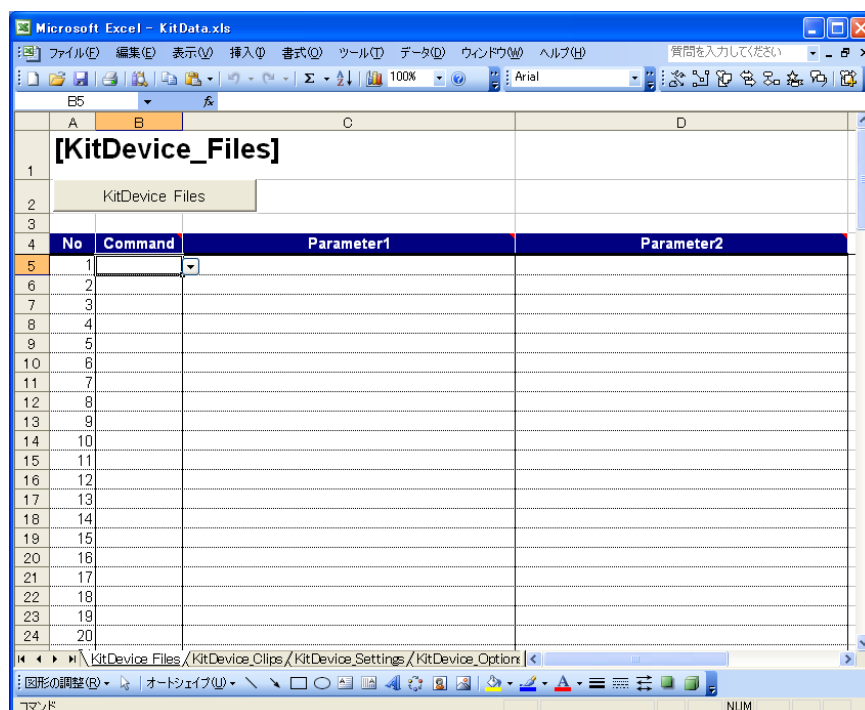


This utility is constructed by following sheets.

No	Sheet	Description
1	<b>KitDevice_Files</b>	This sheet enables to input configuration value and generate file for <b>KitDevice_Files.csv</b> .
2	<b>KitDevice_Clips</b>	This sheet enables to input configuration value and generate file for <b>KitDevice_Clips.csv</b> .
3	<b>KitDevice_Settings</b>	This sheet enables to input configuration value and generate file for (1) <b>KitDevice_Settings_Wifi.csv</b> (2) <b>KitDevice_Settings_Settings.csv</b> (3) <b>KitDevice_Settings_More.csv</b> (4) <b>KitDevice_Settings_Clips.csv</b>
4	<b>KitDevice_Options</b>	This sheet enables to input configuration value and generate file for <b>KitDevice_Options.csv</b> .

## 8.2.2 KitDevice\_Files sheet

This sheet enables to input configuration value and generate definition file KitDevice\_Files.csv for Files function of KitDevice utility.



### Configuration Items

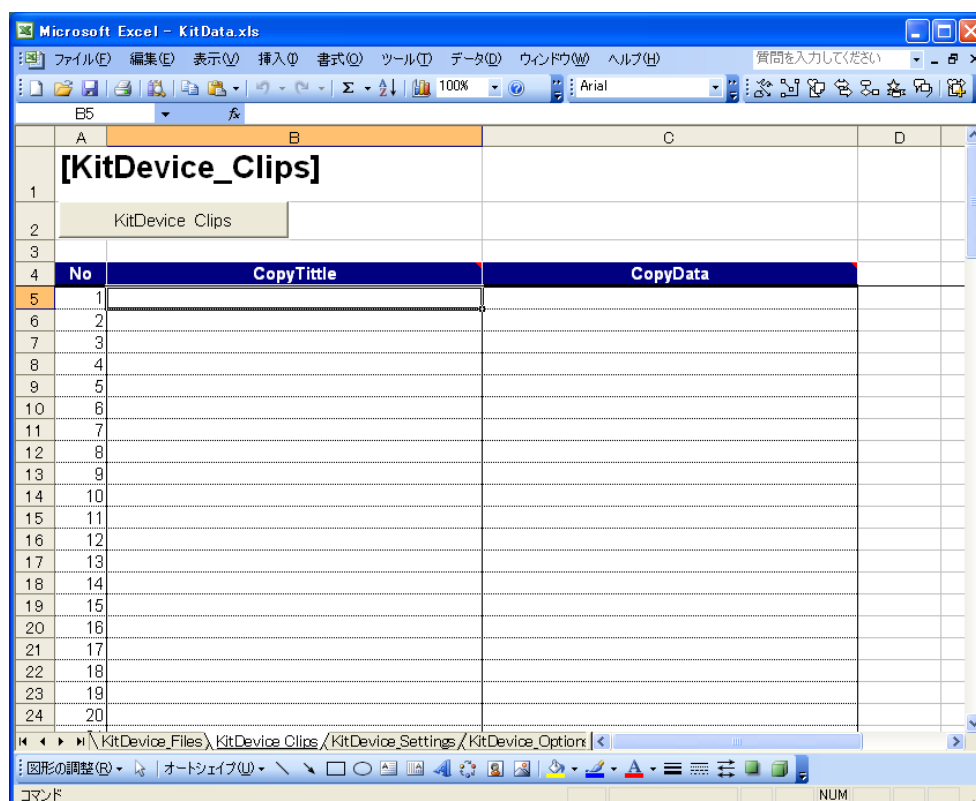
See "Configuration Items in  
Ref385603962 \r\h \\* MERGEFORMAT 6.2.2  
ERGEFORMAT Files activity" for its details.

### How to generate definition file

Push **KitDevice\_Files** button on this sheet, then definition file **KitDevice\_Files.csv** will be generated.

## 8.2.3 KitDevice\_Clips sheet

This sheet enables to input configuration value and generate definition file **KitDevice\_Clips.csv** for **Clipboard** function of **KitDevice** utility.



### Configuration Items

See "Clipboard activity in 6.2.4 Clipboard activity" for its details.

### How to generate definition file

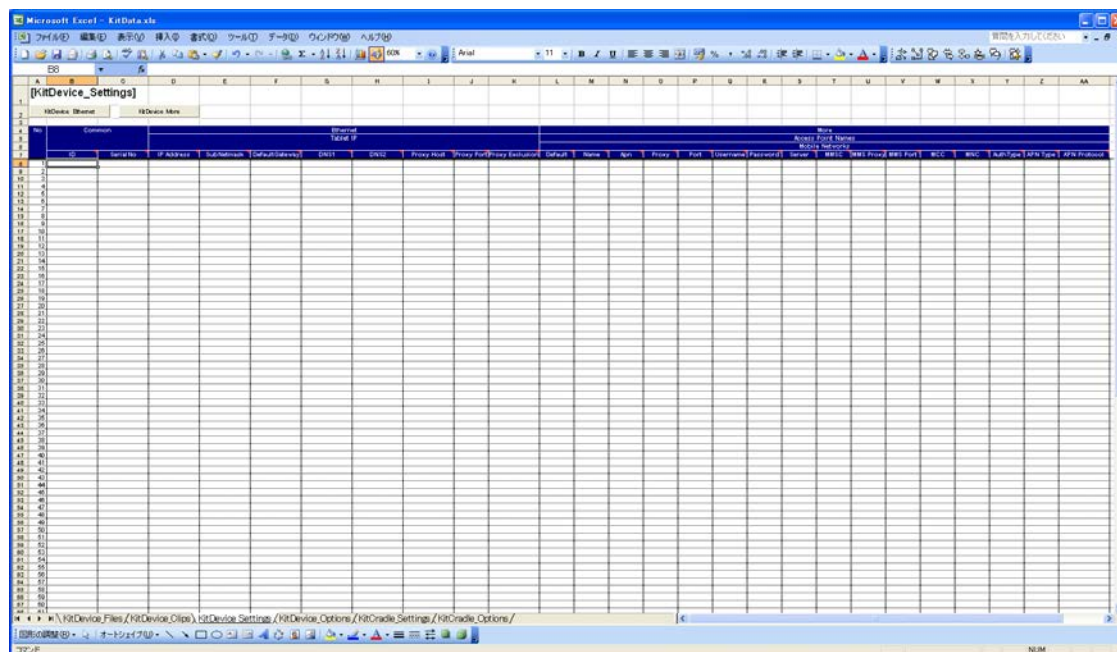
Push **KitDevice\_Clips** button on this sheet, then definition file **KitDevice\_Clips.csv** will be generated.



### 8.2.4 KitDevice\_Settings sheet

This sheet enables to input configuration value and generate following definition file for Settings function of KitDevice utility.

- 1) KitDevice\_Settings\_Wifi.csv : Definition file for Settings function concerning Wi-Fi
- 2) KitDevice\_Settings\_Ethernet.csv : Definition file for Settings function concerning Ethernet
- 3) KitDevice\_Settings\_More.csv : Definition file for Settings function concerning More
- 4) KitDevice\_Settings\_Clips.csv : Definition file for Settings function concerning Clipboard



## Configuration Items

See "Configuration Items in

6.2.5

#### 4 \h \\* MERGEFORMAT Settings activity" for its details.

## How to generate definition file

Push **KitDevice\_Wi-Fi** button on this sheet, then definition file **KitDevice\_Settings\_Wifi.csv** will be generated.

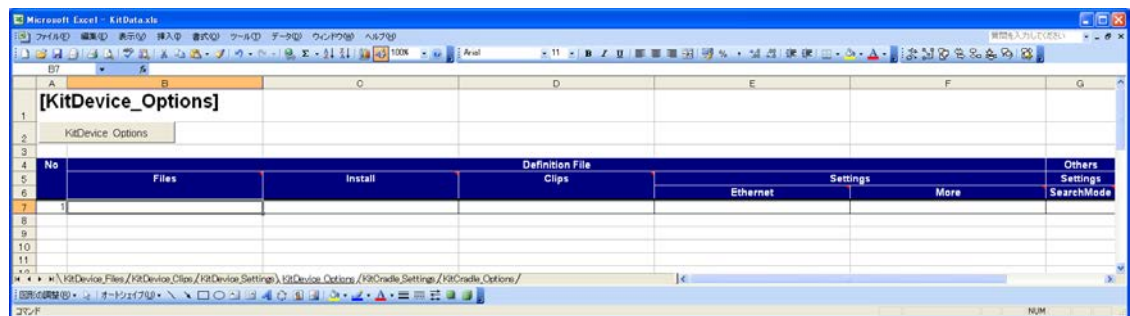
Push **KitDevice\_Ethernet** button on this sheet, then definition file **KitDevice\_Settings\_Ethernet.csv** will be generated.

Push **KitDevice\_More** button on this sheet, then definition file **KitDevice\_Settings\_More.csv** will be generated.

Push **KitDevice\_Clips** button on this sheet, then definition file **KitDevice\_Settings\_Clips.csv** will be generated.

## 8.2.5 KitDevice\_Options sheet

This sheet enables to input configuration value and generate definition file **KitCradle\_Options.csv** for option of **KitDevice** utility.



### Configuration Items

See "Configuration Items in 6.2.6 Option activity" for its details.

### How to generate definition file

Push **KitDevice\_Options** button on this sheet, then definition file will be generated.

## 9. KitCopy

### 9.1 Outline

This tool, KitCopy, enables you to deliver files and folders for kitting from a master terminal to plural receiver terminals via Wi-Fi Direct.

KitCopy does not need any Wi-fi Access point because Wi-Fi Direct is terminal to terminal direct connection.

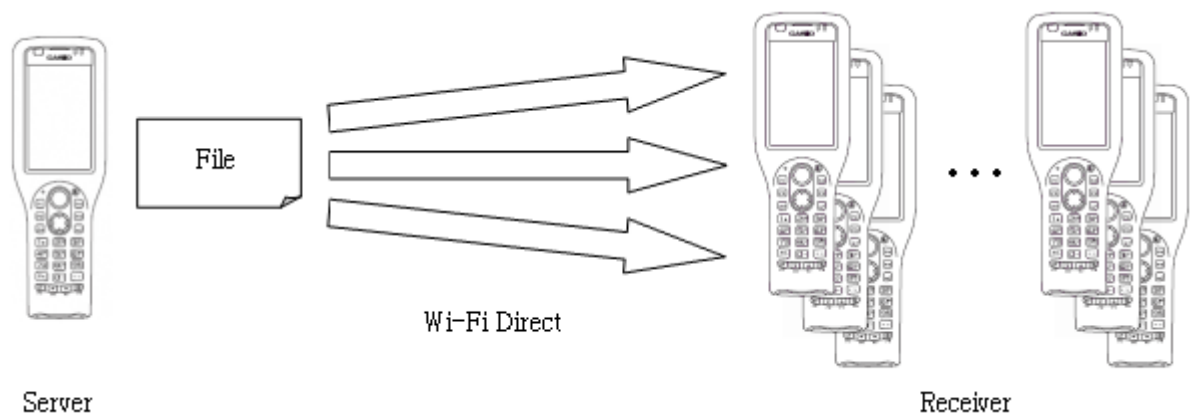
Operation to deliver is easy as shown below.

Once set, delivery takes place one after another automatically. And delivery is done to maximum three terminals at a time.

Master side: In this tool, call "Server". User selects a file to send and starts delivery action.

Receiver side: In this tool, call "Receiver". User starts Receiver action.

(This tool has both of "Server" and "Receiver" functions.)



Delivery is available only between same model terminals of DT-X400.

Note!

Please set only one terminal as a Server. Plural server terminals might lead unexpected result.

## 9.2 Feature

This tool works on DT-X400 and provide following functions.

No	Feature	Overview
1	OS image file delivery and automatic OS updating	Server delivers an OS image file which is placed on the root folder of internal storage or external storage (micro SD card). And, at Receiver side, OS updating will be done automatically after receiving the OS image file.
2	Folder or File delivery	Delivery files and/or folders for kitting.
3	Backup file delivery and automatic restoration	Server delivers a Backup file. And, at Receiver side, Restoration will be done automatically after receiving the Backup file. (Note)
4	Delivery Result Log	Result log of file(s) delivery to Receivers are stored as csv file on the Server's internal storage. The log file includes result, Receivers' serial number and OS build number. You can make terminals list by this log file.

File or folder in Server's Internal storage or external storage (micro SD card) can be selected to deliver.

Receiver stores the received file(s) to its Internal storage.

Note:

1. The Backup file should be made by [Backup & Restore] prior to deliver.

Please refer to "DT-X400 Software Manual" about [Backup & Restore] tool.

2. OS version (OS build number) of Server and Receivers should be same because restoration needs same OS Build number.

## 9.3 Operation steps

Please use KitCopy functions in the following order as necessary.

### **(1) Prepare file(s) to deliver at Server side.**

1. Store an OS image file on root folder of internal storage or external storage (micro SD card).
2. Store necessity files for kitting on the appropriate folder of internal storage or external storage (micro SD card).
3. Install application(s) and finish appropriate setting up. Then create a backup file on internal storage or external storage (micro SD card) by [Backup & Restore] tool.
3. (Please refer to "DT-X400 Software Manual" about [Backup & Restore] tool.)

### **(2) Deliver OS image file to Receivers and Update their OS.**

Use [OS file delivery and Update] of this tool to deliver OS image file. Receivers update their OS automatically.

### **(3) Deliver necessity files for kitting to Receivers.**

Use [Folder or File delivery] of this tool to deliver necessity files for kitting to Receivers.

### **(4) Deliver Backup file to Receivers and restore them.**

Use [Backup file delivery and Restore] of this tool to deliver Backup file to Receivers. Receivers restore it automatically.

### **(5) Get results of delivery.**

Check logfiles on the Server to get results of delivery.

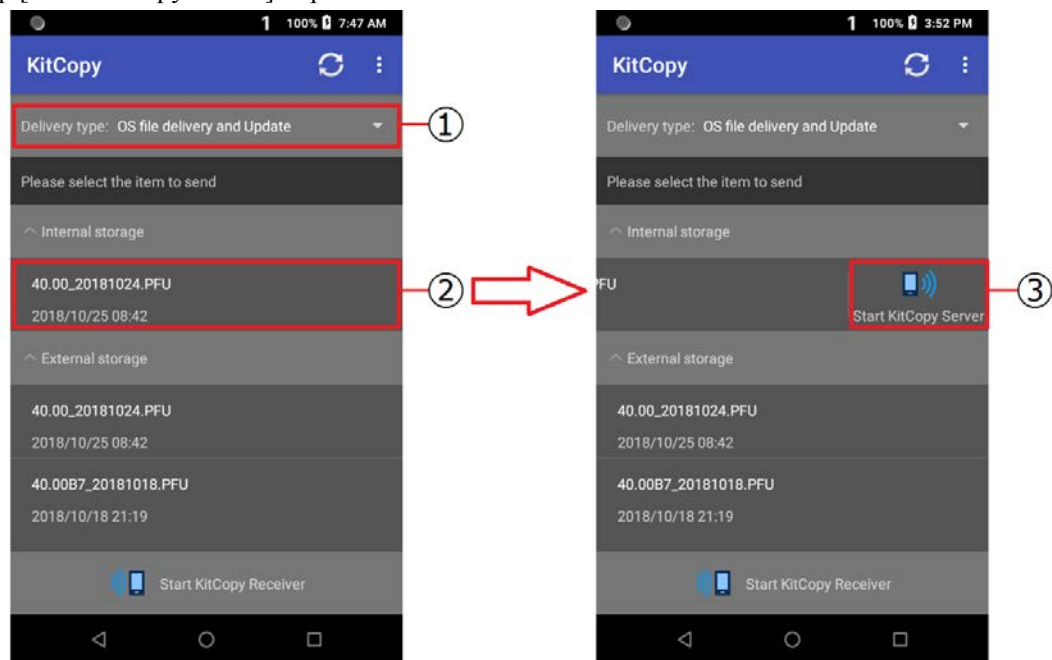
## 9.4 OS image file delivery and automatic OS updating

This tool can deliver an OS image file which is placed on the root folder of internal storage or external storage (micro SD card). And, at Receiver side, OS updating will be done automatically after receiving the OS image file.

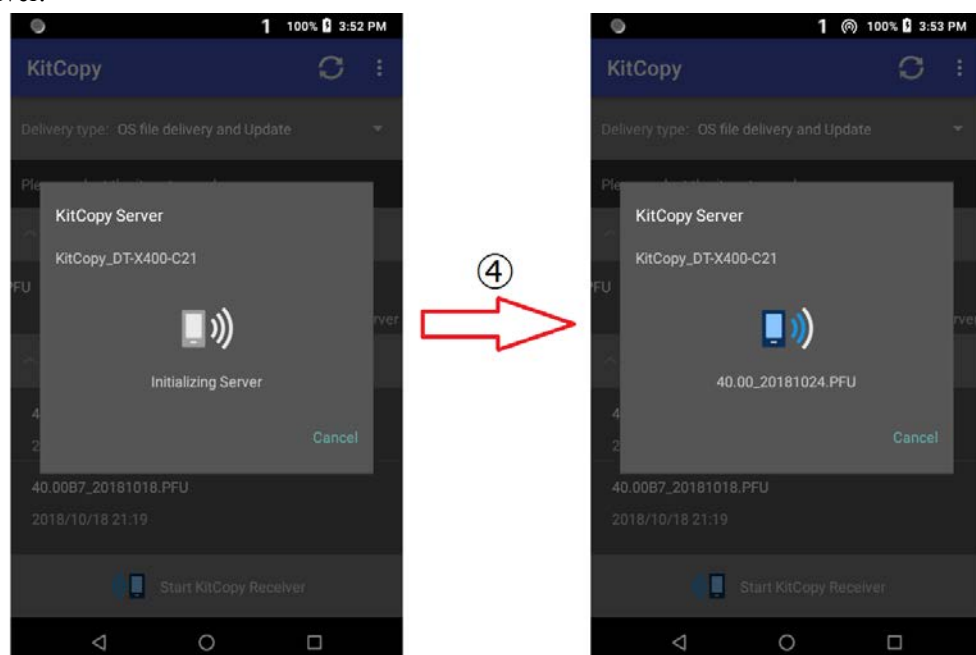
### 9.4.1 Server side operation

This section describes Server side operation.

1. Select [OS file delivery and Update]
2. Tap an OS image file to deliver.
3. Tap [Start KitCopy Server] to proceed.



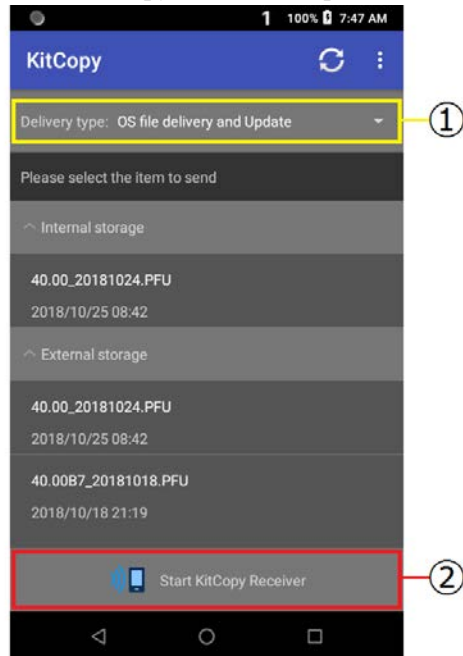
4. When the status dialog is changed from "Initializing Server" to OS image file name, it is ready to deliver.



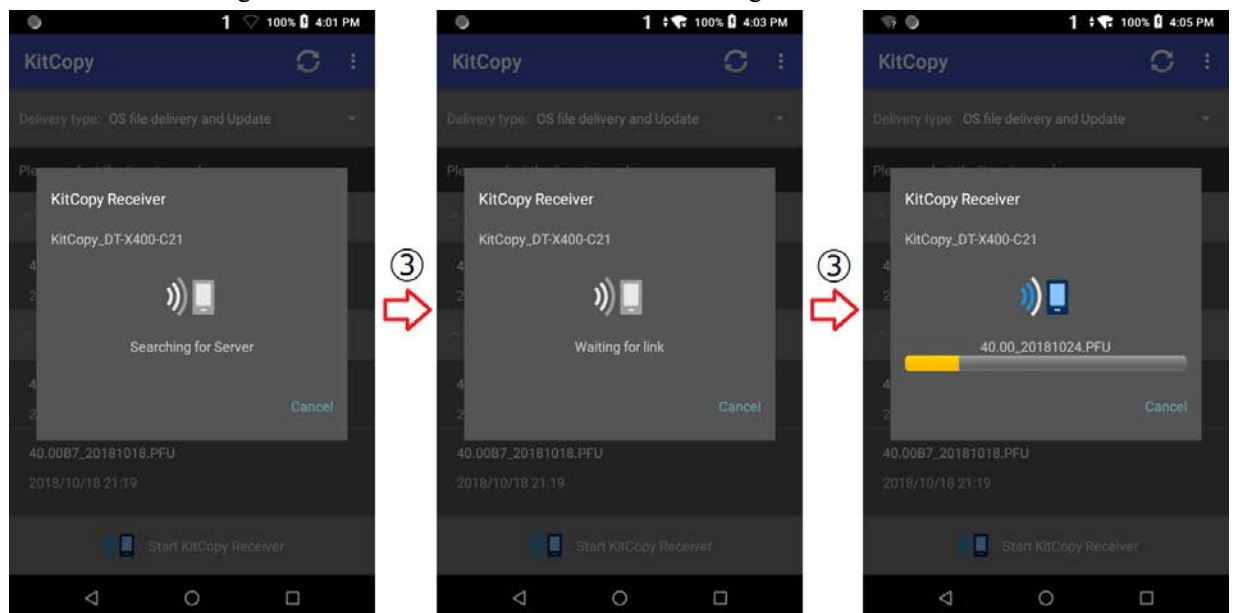
## 9.4.2 Receiver side operation

This section describes Receiver side operation.

1. "Delivery type" is ignored at Receiver side. You can select any.
2. Tap [Start KitCopy Receiver] to proceed.

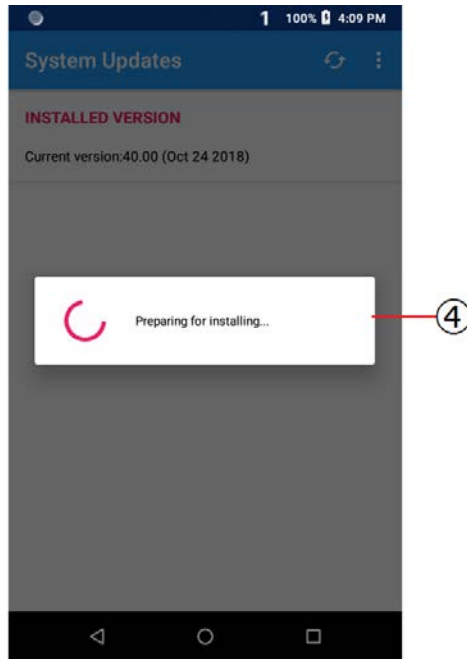


3. The status dialog changes, "Searching for Server" > "Waiting for link" before starting receiving file. While receiving, the progress bar is displayed.  
Received OS image file is stored in root folder of internal storage.



4. OS updating starts automatically.

After completed, DT-X400 reboots automatically. Then all procedure is completed.





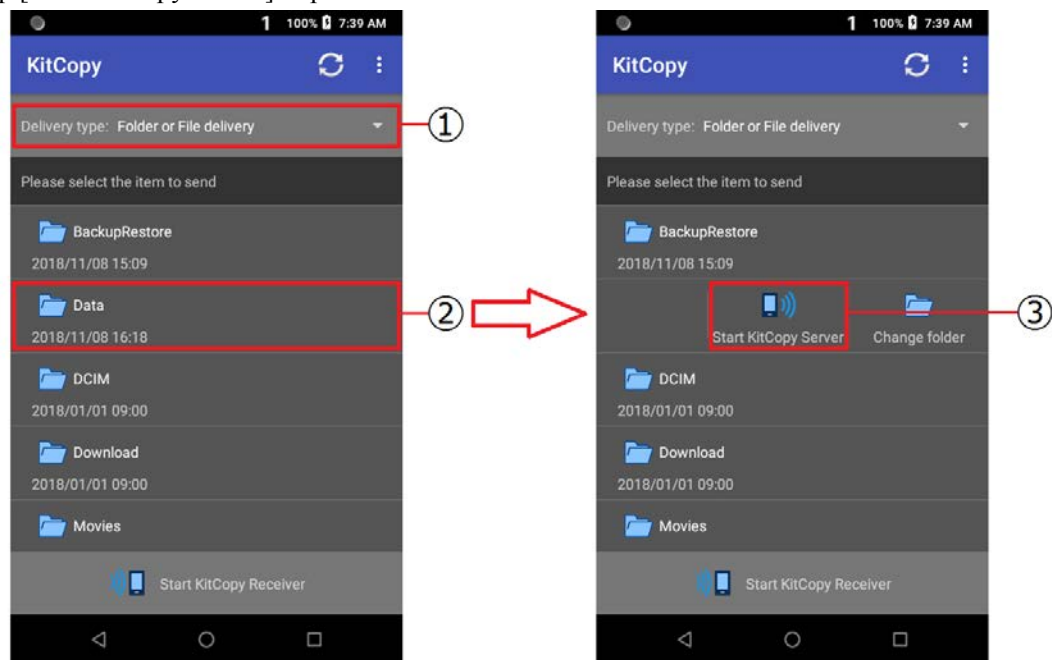
## 9.5 Folder or File delivery

This tool can deliver files/folders for kitting. The received files/folders are stored in the root folder of internal storage.

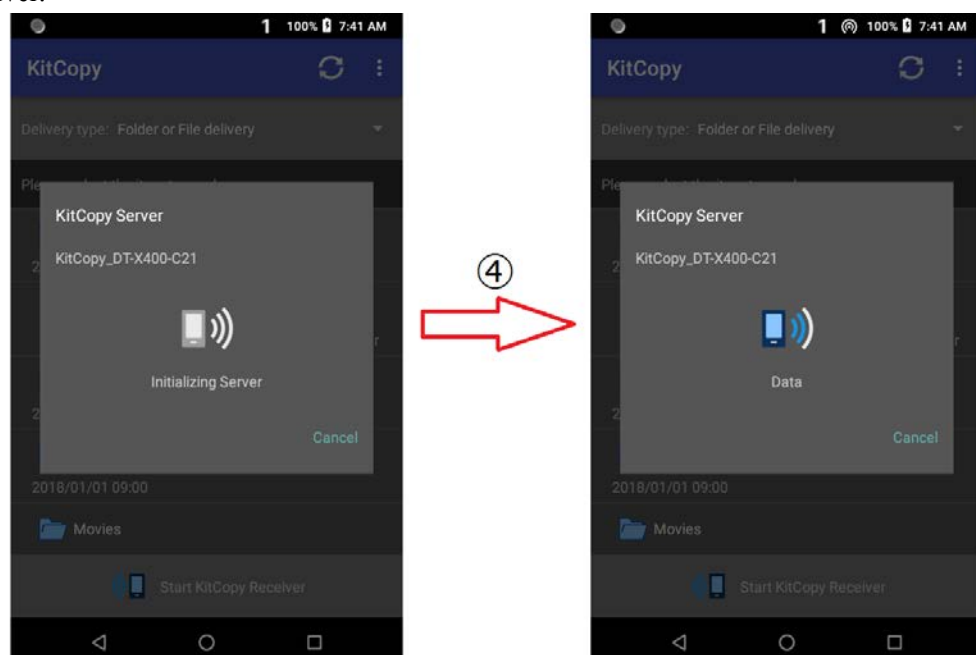
### 9.5.1 Server side operation

This section describes Server side operation.

1. Select [Folder or File delivery].
2. Tap a file or folder to deliver. This example shows to deliver a folder. (Refer to the following for changing folder to deliver.)
3. Tap [Start KitCopy Server] to proceed.

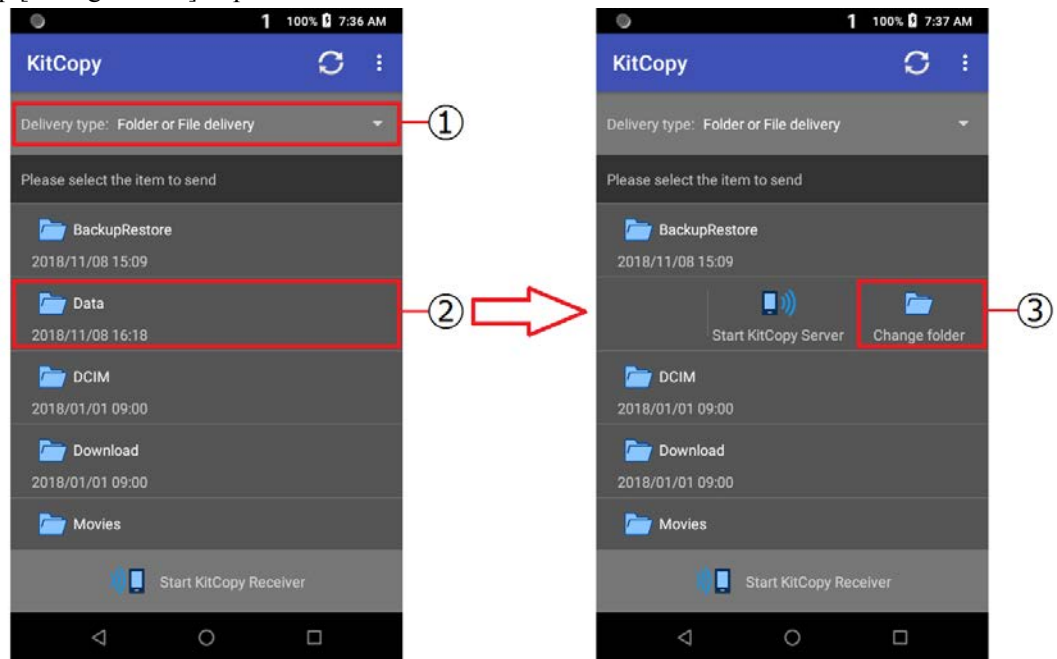


4. When the status dialog is changed from "Initializing Server" to file/folder name, it is ready to deliver.

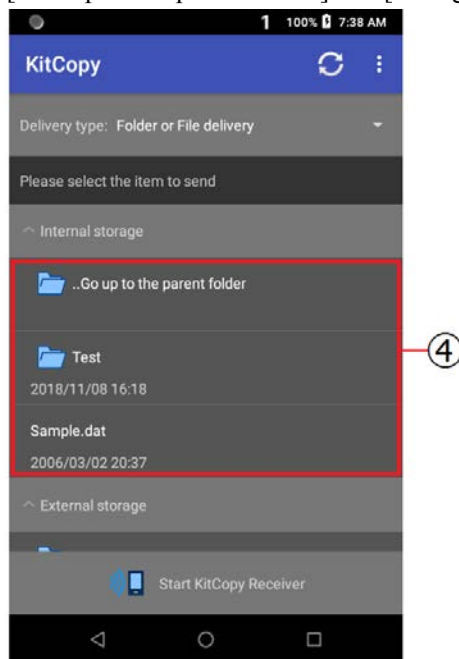


## Selecting folder to deliver

1. Select [Folder or File delivery].
2. Tap the folder to go.
3. Tap [Change folder] to proceed.



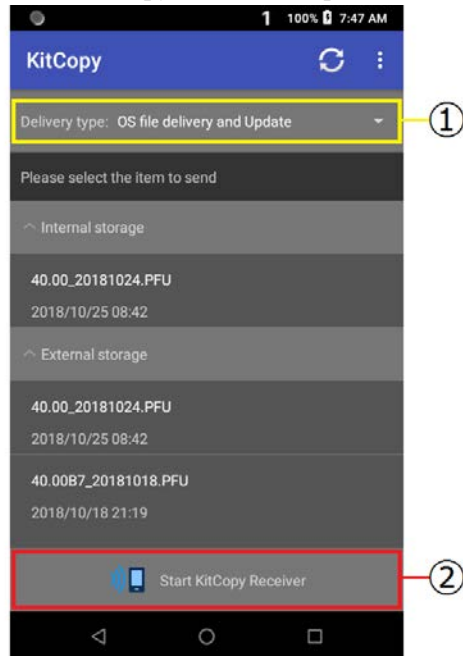
4. Changed folder contents are displayed.  
Tap [..Go up to the parent folder] and [Change folder] to go to the parent folder.



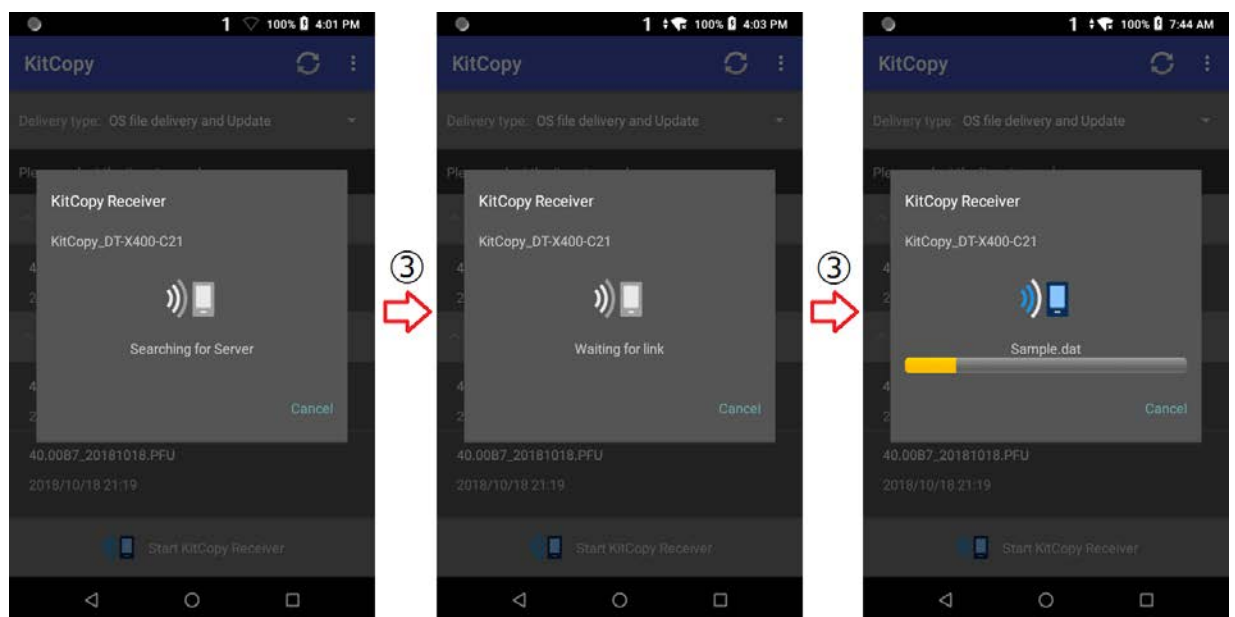
## 9.5.2 Receiver side operation

This section describes Receiver side operation.

1. "Delivery type" is ignored at Receiver side. You can select any.
2. Tap [Start KitCopy Receiver] to proceed.



3. The status dialog changes, "Searching for Server" > "Waiting for link" before starting receiving file(s). While receiving, the progress bar is displayed.  
Received file(s) and/or folder is/are stored in root folder of internal storage.  
When completed, the main screen will be displayed.



## 9.6 Backup file delivery and automatic restoration

This tool can deliver a Backup file. And, at Receiver side, Restoration will be done automatically after receiving the Backup file.

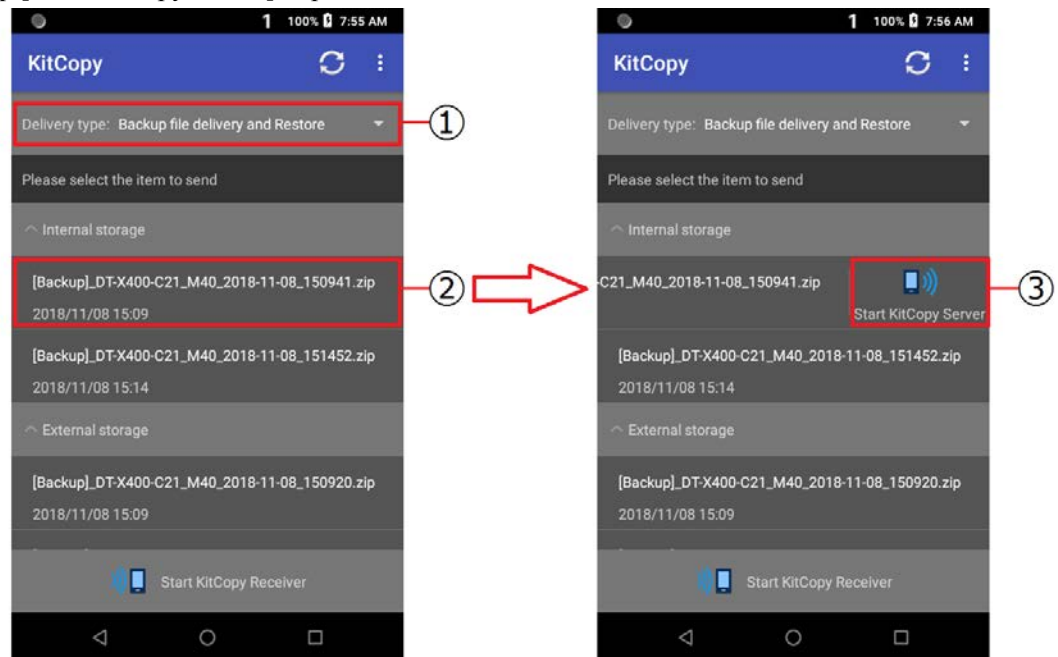
Note:

1. The Backup file should be made by [Backup & Restore] prior to deliver.  
Please refer to "DT-X400 Software Manual" about [Backup & Restore] tool.
2. OS version (OS build number) of Server and Receivers should be same because restoration needs same OS Build number.

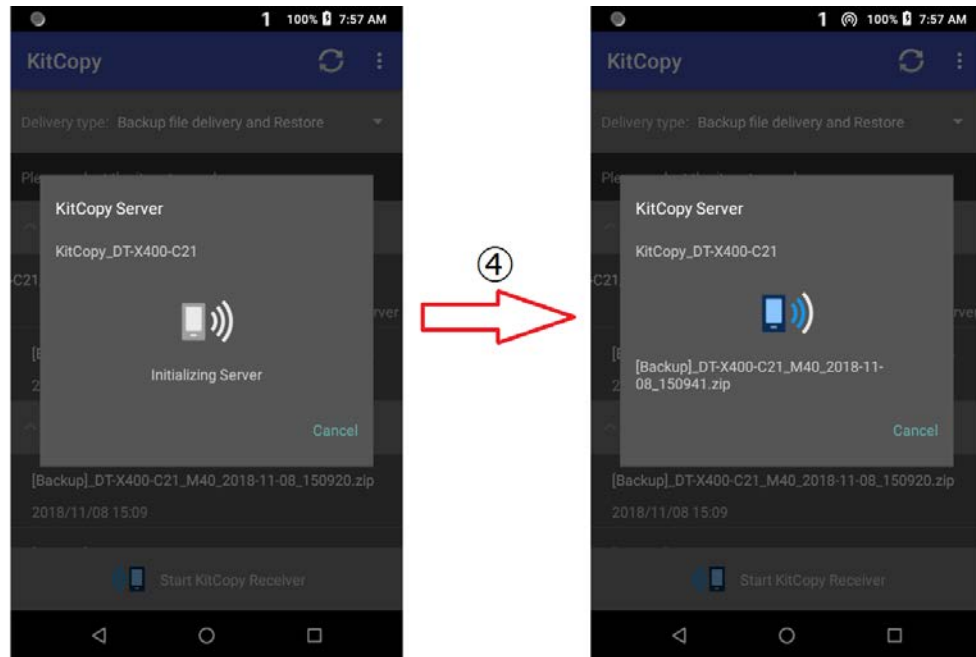
### 9.6.1 Server side operation

This section describes Server side operation.

1. Select [Backup file delivery and Restore].
2. Tap a Backup file to deliver.
3. Tap [Start KitCopy Server] to proceed.



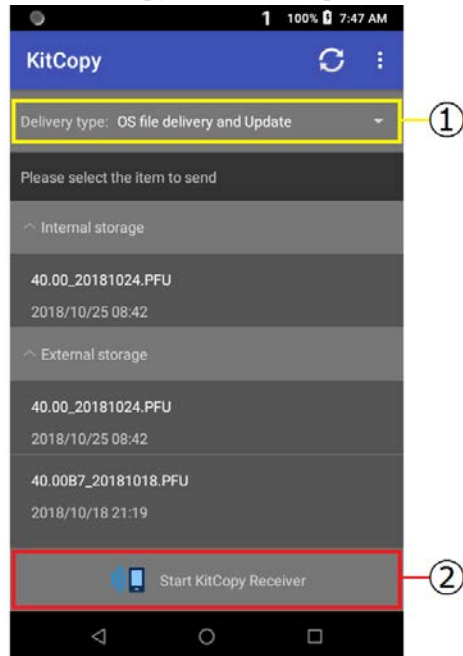
4. When the status dialog is changed from "Initializing Server" to Backup file name, it is ready to deliver.



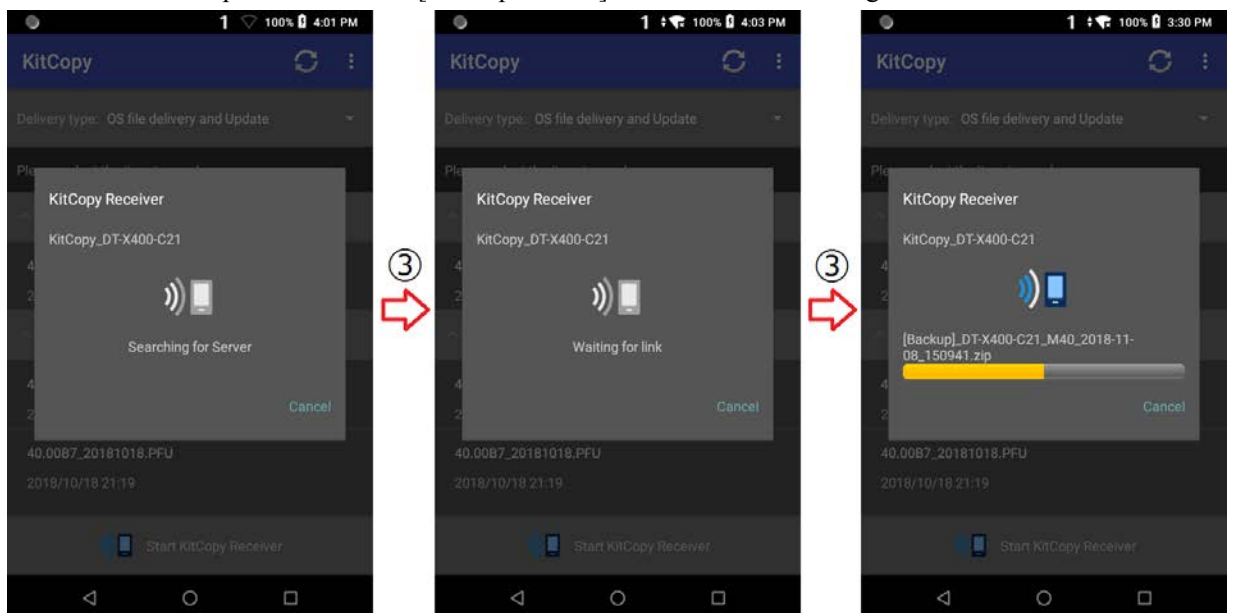
## 9.6.2 Receiver side operation

This section describes Receiver side operation.

1. "Delivery type" is ignored at Receiver side. You can select any.
2. Tap [Start KitCopy Receiver] to proceed.

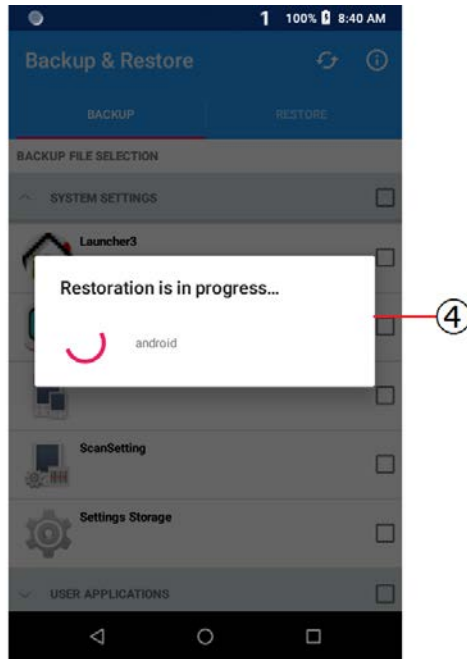


3. The status dialog changes, "Searching for Server" > "Waiting for link" before starting receiving file. While receiving, the progress bar is displayed.  
Received Backup file is stored in [BackupRestore] folder of internal storage.



4. Restoration starts automatically.

After completed, DT-X400 reboots automatically. Then all procedure is completed.



## 9.7 Delivery Result Log

Result log of file(s) delivery to Receivers are stored as csv file on the Server's internal storage.

File location: /storage/emulated/0/KitCopyResult.csv

The log file includes delivery results, Receivers' serial number and OS build number. After finishing all delivery, you can prepare terminals list easily by this log file to manage them.

Note!

The result is recorded only for the transaction which transferring is started.

If error or cancel occurs before starting transferring, Server cannot recognize the serial number of Receiver. In this case, the transaction is not recorded.

Data Format of log file:

"Date","Time","Delivery type","delivery file name or folder name","Receiver's serial number","Receiver's OS build number","Result"

```
"20181030","130301","OS","40.00_20181024.PFU","MP8700580LA067","40.00 B7 (Oct 18 2018)","SUCCESS"
"20181030","130315","OS","40.00_20181024.PFU","MP8700574LA155","40.00 B7 (Oct 18 2018)","SUCCESS"
"20181031","080428","FOLDER","AppFiles","MP8700580LA067","40.00 (Oct 24 2018)","SUCCESS"
"20181031","080444","FOLDER","AppFiles","MP8700574LA155","40.00 (Oct 24 2018)","CANCEL"
"20181101","161049","FILE","Setting.xml","MP8700580LA067","40.00 (Oct 24 2018)","FAILURE"
"20181101","161135","FILE","Setting.xml","MP8700574LA155","40.00 (Oct 24 2018)","SUCCESS"
"20181101","182412","BACKUP","[Backup]_DT-X400-10_M40_2018-10-25_133245.zip","MP8700580LA067","40.00 (Oct 24 2018)","SUCCESS"
"20181101","182653","BACKUP","[Backup]_DT-X400-10_M40_2018-10-25_133245.zip","MP8700574LA155","40.00 (Oct 24 2018)","SUCCESS"
```

The following tables show kinds of "Delivery type" and "Result".

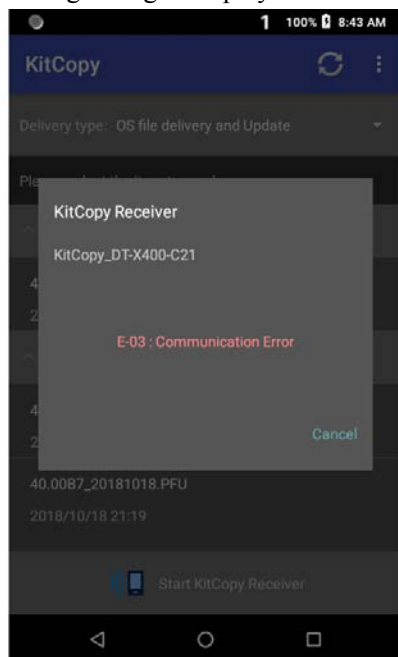
No	Delivery type	Description
1	OS	OS image file delivery by "OS file delivery and Update"
2	FOLDER	Folder delivery by "Folder or File delivery"
3	FILE	File delivery by "Folder or File delivery"
4	BACKUP	Backup file delivery by "Backup file delivery and Restore"

No	Result	Description
1	SUCCESS	Receiver received all data successfully.
2	FAILURE	Receiver failed to receive data because of some errors.
3	CANCEL	Transaction is canceled while transferring at Server side or Receiver side.



## 9.8 Error Indication

The following dialog is displayed at the receiver side when an error happens.



There are eight kind of errors as shown below table.

Error Code	Error Indication	Description	Countermeasure
E-01	Server Search Timeout	Receiver is not able to find the Server within 30 seconds.	Check if the Server is ready to deliver.
E-02	Connect Error	Receiver fails to connect to the Server.	Check if the Server is ready to deliver.
E-03	Communication Error	Connection fault or data error is detected.	Place the Receiver near the Server and retry to receive.
E-04	Communication Timeout	Receiver does not receive the data within appropriate time.	Place the Receiver near the Server and retry to receive.
E-05	File Write Error	Receiver fails to write a file. The internal storage might be full because some other software possibly wrote the file while Receiver was receiving data.	Check the free space of Internal storage.
E-06	Check Sum Error	The checksum of received file is mismatch.	Place the Receiver near the Server and retry to receive.
E-07	Disk Full	Free space of internal storage is not enough to store the received file.	Check the free space of Internal storage.
E-08	Server Cancel	Communication is cancelled at Server side.	Check the Server side.

## 10. Backup & Restore

### 10.1 Feature

"Backup & restore" is used to back up / restore the following system settings and installed applications.

Cautions!

Be sure to restore the backed-up data with the same OS version.

#### Backup target

##### SYSTEM SETTINGS

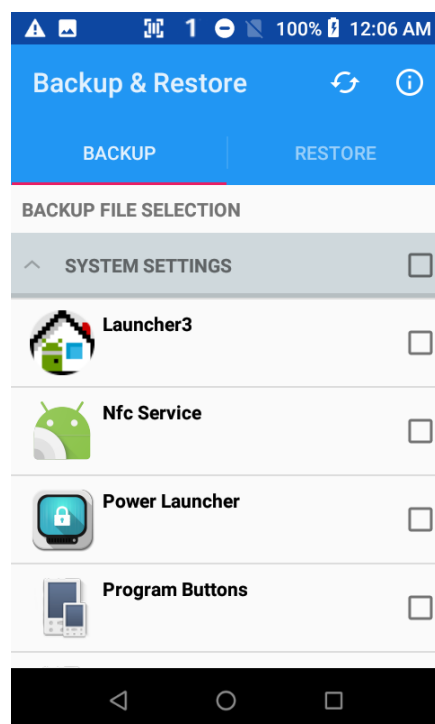
Save System settings (Storage, Launcher) and settings of tools (ScanSetting, Power Launcher, Program Button, NFC Service). Please refer to the Device Library Manual for possible values that can be backed up and restored by the ScanSetting.

##### USER APPLICATIONS

Back up the application installed by the user. However, depending on the application, backup may not be supported, or even if backup can be performed, restoration may not be possible. Do enough test before actual usage. Launch an application which you installed at least once. Otherwise, you can not back it up.

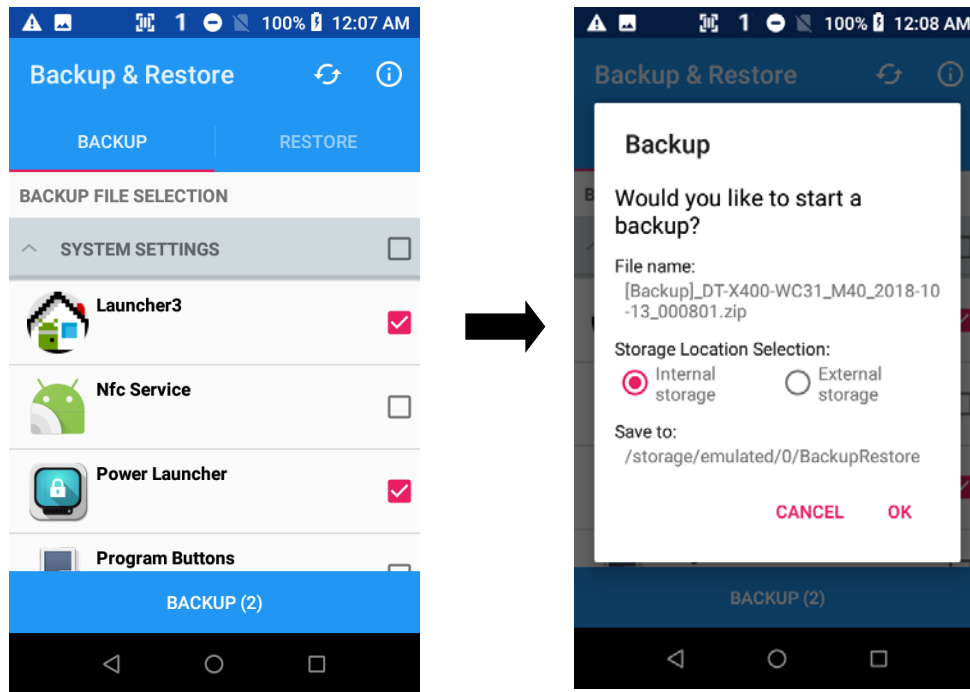
### 10.2 Screen

#### 10.2.1 Main activity



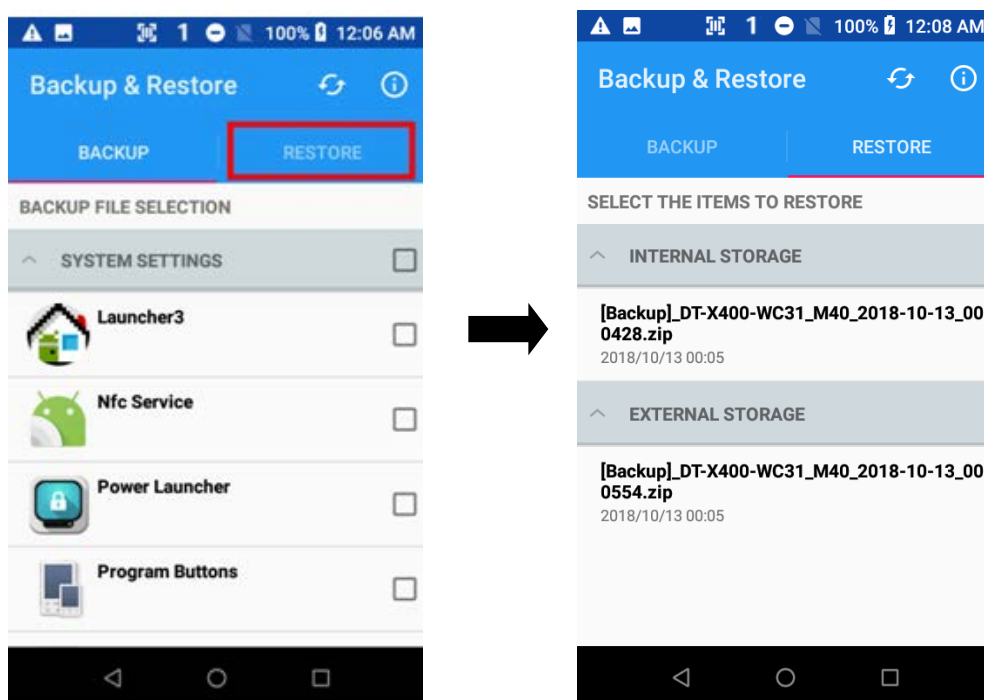
## 10.2.2 How to backup

Select the file to be backed up and press the BACKUP button at the bottom of the screen to display the dialog box for selecting the save destination. You can specify the internal storage (/storage/emulated/0/BackupRestore) or microSD card (/storage/sdcard1/BackupRestore) as the backup data storage destination.



## 10.2.3 How to restore

After starting "Backup & Restore", select RESTORE in the upper right corner of the screen. A list of data saved in the past will be displayed, so select the data you want to restore.



## 11. DeviceBarcodeSetting

### 11.1 Outline

DeviceBarcodeSetting is a tool for easily configuring several settings using barcodes. All setting data are divided into multiple barcodes and printed on the barcode sheet. When all the barcodes are read, setting data are automatically set to the terminal and the terminal is automatically restarted. For the bar code sheet to be used, refer to "WLAN Setting Barcode Print Tool".



This tool enables you to use the barcode sheet created with "WLAN Setting Barcode Print Tool" for Windows CE also on Android.

Therefore, in the Android version, specifications of "WLAN security type", "User certificate", "CA certificate" are different from Windows CE version.

Please pay attention to the following when using "WLAN Setting Barcode Print Tool".

#### **WLAN security type**

The type of security that you can select with "WLAN Setting Barcode Print Tool" is the same as the type supported by the Windows CE version, but some security settings are not supported on Android.

See "10.2.2 WLAN" for its details.

#### **User certificate (EAPCertificate)**

"User certificate" is the setting specified in the "EAP certificate" column of "WLAN Setting Barcode Print Tool".

In the Windows CE version, the user installed the user certificate manually to the terminal, but in the Android version this tool automatically installs the user certificate which found in a specific folder. The user certificate (.pfx) which found first from external / internal storage (Note1) is used. And, to automatically install the user certificate, it is necessary to specify the password of the user certificate in the "EAP certificate" column of "WLAN Setting Barcode Print Tool".

If the certificate (pfx) and private key (pvk) have the same password, specify one password.

e.g.  
12345678

	SSID	Ad-hoc	Security	KEY	Index	EAPUserName	EAPPassword	EAPCertificate	EAPDomain	EAPDoCertify
▶ 1	AP1	<input type="checkbox"/>	WEP+EAP-TLS		1	user		12345678		<input checked="" type="checkbox"/>

Number of Characters/Maximum Number of Characters 8 / 16

If the password of the certificate (pfx) and private key (pvk) are different, specify it in the format of "pfx password, pvk password". In this case, you can specify up to 16 characters including ",".

e.g.  
1234,5678

	SSID	Ad-hoc	Security	KEY	Index	EAPUserName	EAPPassword	EAPCertificate	EAPDomain	EAPDoCertify
▶ 1	AP1	<input type="checkbox"/>	WEP+EAP-TLS		1	user		1234,5678		<input checked="" type="checkbox"/>

Number of Characters/Maximum Number of Characters 9 / 16

## CA certificate (EAPDoCertify)

"CA certificate" is the setting specified in the "EAPDoCertify" column of "WLAN Setting Barcode Print Tool".

In the Android version, you can specify any CA certificate besides using the certificate in the terminal (system certificate). The CA certificate that can be used is ".cer".

To use an arbitrary CA certificate, copy the CA certificate to a specific folder of external / internal storage (Note1).

Note1:

The certificate is searched in the order USB memory (/storage/usbotg/WLANCERT), microSD (/storage/sdcard1/WLANCERT), and internal storage (/storage/emulated/0/WLANCERT).

## 11.2 Feature

You can set the following settings.

No	Item	Description
1	WLAN	Configure WLAN / NTP settings.
2	WAN	Configure WAN settings. SIM card is necessary for setting.
3	Ethernet	Configure Ethernet settings.

### 11.2.1 Available bar codes

You can use 1D barcode (Code 128) and 2D barcode (QR Code).

### 11.2.2 WLAN

You can set the following settings and DHCP / Static IP settings. Proxy setting is not available.

No	Item
1	No security
2	WEP, 64 / 128 bit, OPEN / Shared
3	WPA / WPA2, PSK
4	WPA / WPA2, PEAP/TLS/TTLS/LEAP , MSCHAPv2/GTC

Note:

- PEAP 0, PEAP 1 are set as PEAP.
- If you set for an access point already registered in the terminal, the security method will not be changed. Only fixed IP settings will be overwritten.
- If you set an access point using this tool, all other registered access point information in the terminal will be deleted.

### 11.2.3 Ethernet

You can set DHCP / Static IP setting. Proxy setting is not available.

### 11.2.4 WAN

You can set the following authentication methods.

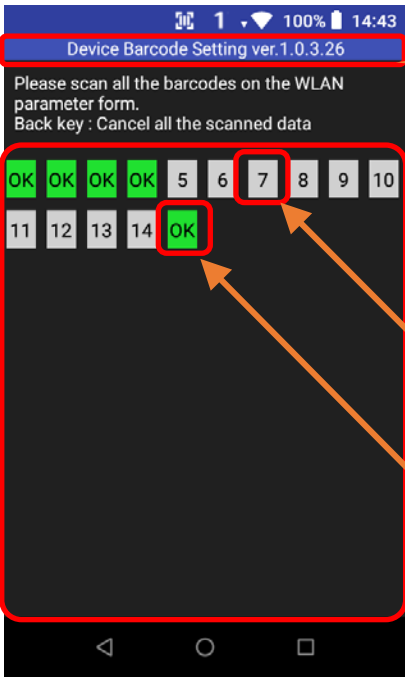
- None
- PAP
- CHAP

## 11.3 Operation

When you launch this tool, it will automatically configure the scanner.

When you exit this tool, scanner settings will return to the state before this tool was launched.

# 11.3.1 Screen



Tool version

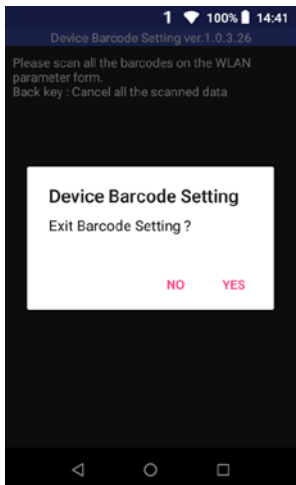


Field for checking barcode reading status  
A box will be displayed as many as the number of bar codes printed  
The number displayed in the box is the number displayed on the left side of the barcode.

Barcode confirmation box (Unread)

Barcode confirmation box (Read)  
When it reads it becomes "OK" and turns to green.

## Startup / Finish

When after launch or no read, nothing is displayed in the barcode confirmation field.  
Then pressing "Back button" will display an exit confirmation dialog.



Pressing "Back button" will display exit confirmation dialog.

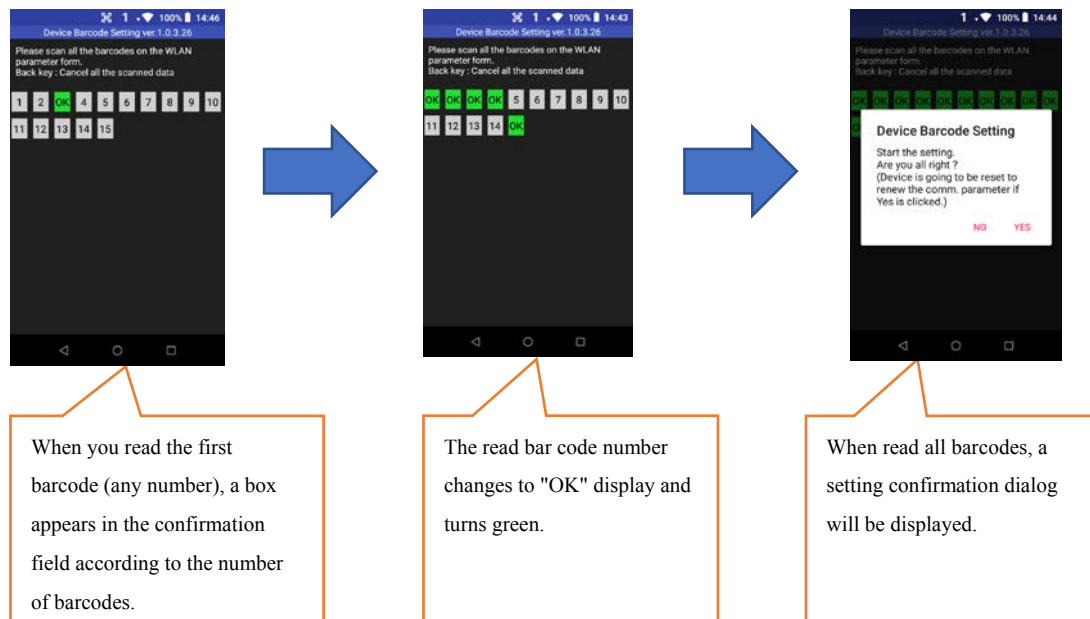
## After barcode reading

When you read the first barcode (any number), a box appears in the confirmation field according to the number of barcodes.

Barcode reading order is arbitrary, but it is necessary to read all printed bar codes.

The read bar code number changes to "OK" display and turns green.

When read all barcodes, a setting confirmation dialog will be displayed.



If you press "Back button" with more than one barcode read, it discards all the barcode data you read and returns to the state after launch.

After setting, the terminal is automatically restarted.