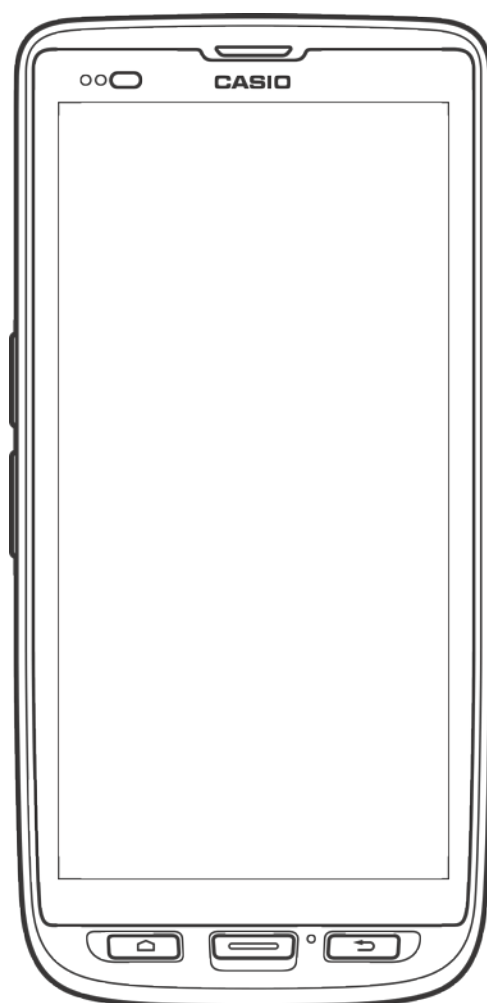


## ET-L10 Series

### Kitting Manual

This document describes the specifications of Kitting for the ET-L10.



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# 1. Overview

The tasks of doing various settings to the ET-L10, installing applications and preparing them for use in business is called "kitting". This manual describes about the kitting of the ET-L10.

The kitting of the ET-L10 can copy the setting from the master terminal to slave terminals.

Access point is unnecessary because data distribution is done by Wi-Fi Direct between terminals.



## Cautions!

OS version of the master terminal and slave terminals should be same because restoration needs same OS version.

## 1.1 Configuration of Kitting Tools

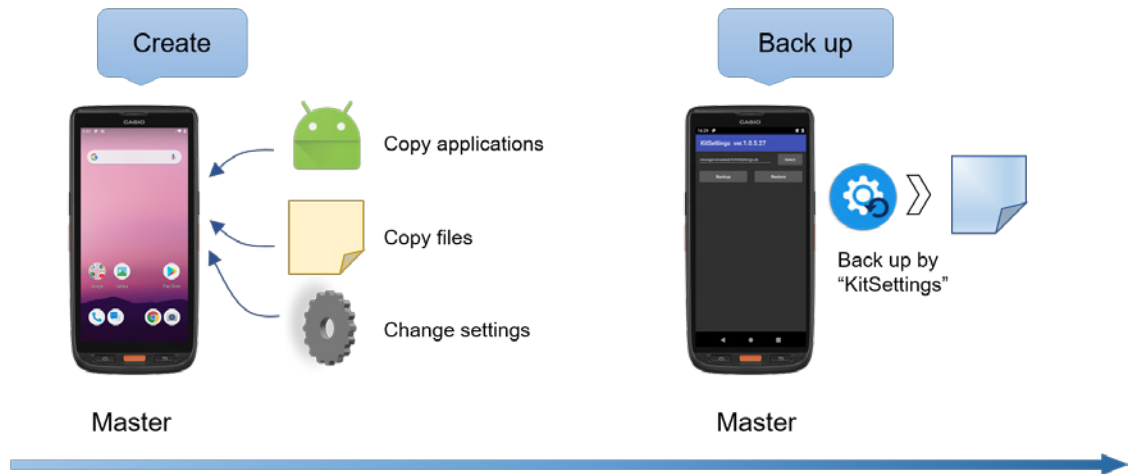
This is a configuration of the kitting tools.

Application name	Description
KitCopy	It is used to deliver files (Backup file, OS image, etc.) on the master to plural receivers via Wi-Fi Direct.
KitSettings	It is used to Backup / Restore terminal settings (part of Android settings).

## 1.2 Kitting procedure

In the Kitting, can copy the master terminal's settings and applications to multiple slave terminals by the following procedure.

### [ STEP 1 ]



[Create the master terminal]

- ① Copy applications and files to the master terminal. (Note1)
- ② Change the system setting, key setting, scanner setting etc. of the master terminal. (Note2)
- ③ Backed up settings of the master terminal by "KitSettings".

### [ STEP 2 ]



[Deliver applications and files to slave terminals]

- ① Select files to deliver on the master terminal. (Note3)
- ② Start the delivery server with "KitCopy" of the master terminal.
- ③ Start receiving with "KitCopy" of slave terminals.
- ④ If need, should install received applications manually.

[ STEP 3 ]



[Deliver the backup file to slave terminals]

- ① Select files to deliver on the master terminal. (Note3)
- ② Start the delivery server with "KitCopy" of the master terminal.
- ③ Start receiving with "KitCopy" of slave terminals.
- ④ When slave terminals receive the backup file, then restore and restart the terminal.
- ⑤ If need, change the settings manually.

Note1:

There is no need to install applications to the master.

Note2:

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.

Note3:

If deliver a lot of files, it is possible to efficiently perform kitting by combining files into a single folder and deliver it.

Refer to the following section to see the detailed description of applications.

For KitCopy, refer to the "2 KitCopy (p.6)".

For KitSettings, refer to the "3 KitSettings (p.24)".

## 2. KitCopy

### 2.1 Functions

This application distributes files and folders for kitting from the master terminal (server) to several slave terminals (receiver) via Wi-Fi Direct.

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

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

Note!

Deliver with only one master terminal. Delivery by multiple master terminals is not supported.

The OS file name change depending on the device and model.

This application works on terminal and provide following functions.

Device means the Android-equipped CASIO Handy Terminal (e.g. ET-L10, IT-G400, DT-X400). Model means the ET-L10's model (e.g. WC21, WC21-AO). OS means the OS version of the ET-L10 (e.g. EN\_25, CN\_25).

Therefore, the function of the OS file deliberation works between different OS versions but can not work between other CASIO Handy Terminals.

Files that are delivered using KitCopy for kitting are OS files, operation files, backup files, etc. Many of them depend on the device and model, which prevents delivery between different devices and models.

Feature	Overview	Device	Model	OS
OS file delivery and update	The master terminal delivers an OS image file, and slave terminals receive it. After receiving, slave terminals start OS update automatically.  Master : Internal storage, External storage Slave : Internal storage	Must match	Must match	Any
Folder or Files delivery	Delivery folders and/or files for kitting from the master terminal.  Master : Internal storage, External storage Slave : Internal storage	Must match	Must match	Any
Backup file delivery and restoration	The master terminal delivers a Backup file, and slave terminals receive it. After receiving slave terminals start restoration automatically.  Master : Internal storage, External storage	Must match	Must match	Must match



	Slave : Internal storage			
Save result log	<p>Save the result log files to internal storage of the master terminals in csv file format.</p> <p>The log file includes delivering result, Receivers' serial number and OS build number. It can be used for checking delivery results and creating terminal management file.</p>	-	-	-

## 2.2 Procedure

Use functions of this application in following procedures.

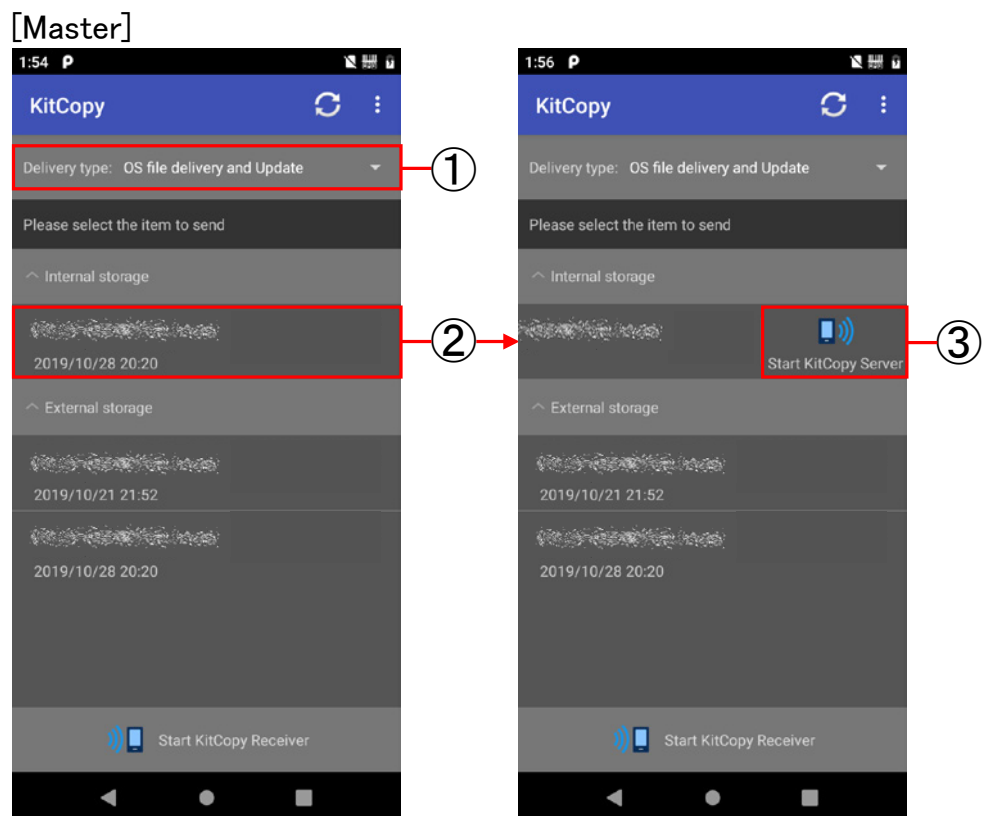
### 2.2.1 OS file delivery and update procedure

This function can deliver an OS image and update automatically.

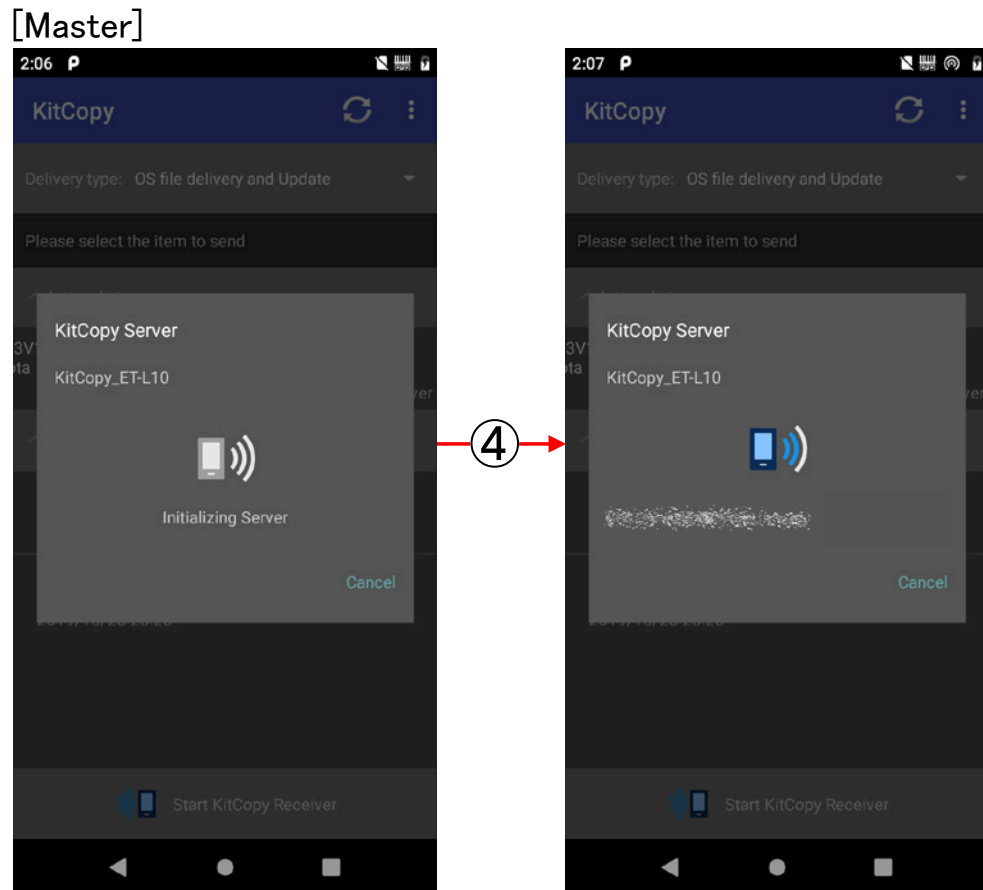
Put the OS image in the root folder of internal storage or external storage (microSD card) of the master terminal.

First, operate the master terminal.

- ① Select the Delivery type to [OS file delivery and Update].
- ② Select the OS image to deliver.
- ③ Touch [Start KitCopy Server].

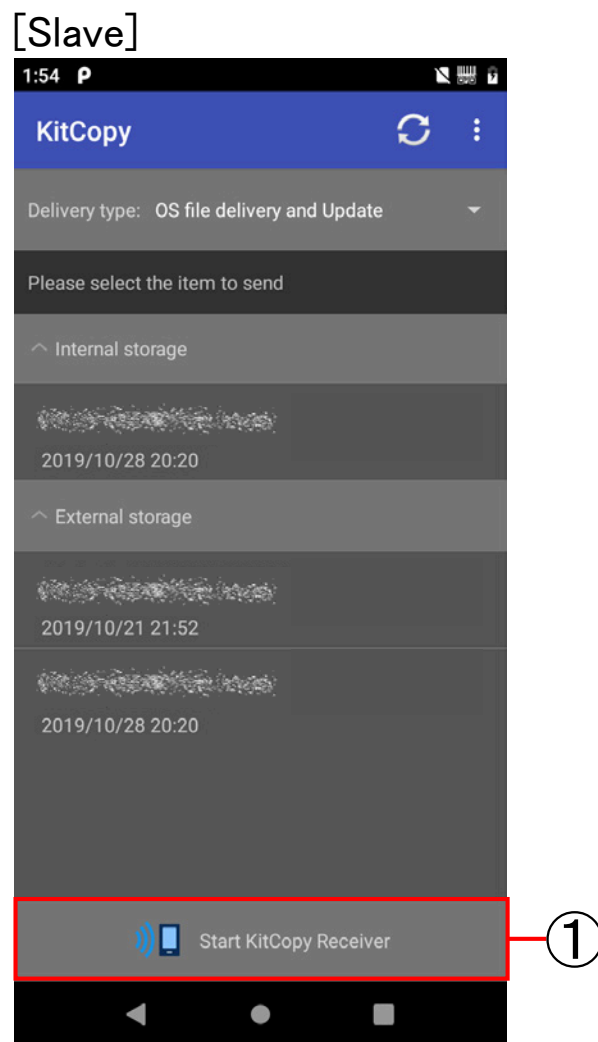


- ④ When ready for delivery, the icon is changed.



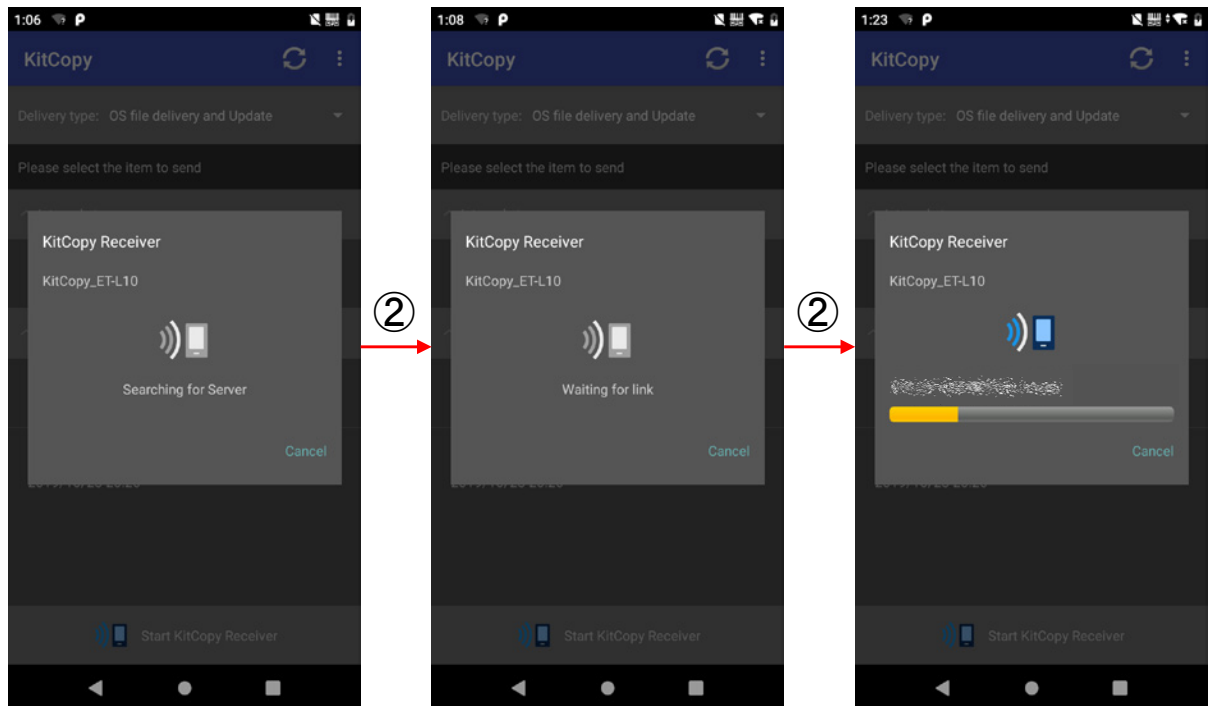
Next, operate a slave terminal.

- ① Touch [Start KitCopy Receiver].



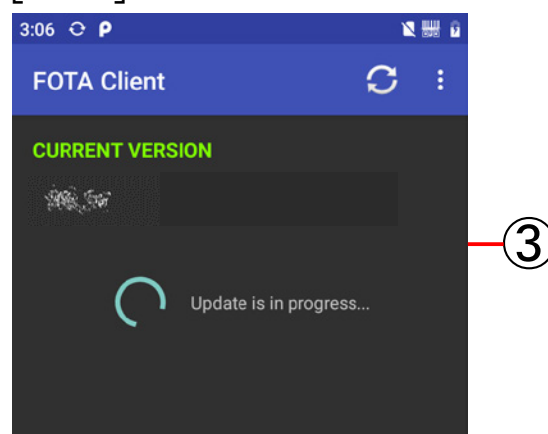
- ② Before starting to receive the OS image, the status dialog changes "Searching for Server" to "Waiting for link". While receiving, the progress bar is displayed. The received OS image is stored in the root folder of the internal storage. In AOSP (Chinese) model, when the WLAN is not turned on, a warning message appears. Select "Allow" to turn on the WLAN.

[Slave]



- ③ OS updating starts automatically. After receiving the OS image, the terminal reboots automatically. Then all procedure is completed.

[Slave]



## 2.2.2 Folder or files delivery procedure

This function can deliver a folder or files for kitting.

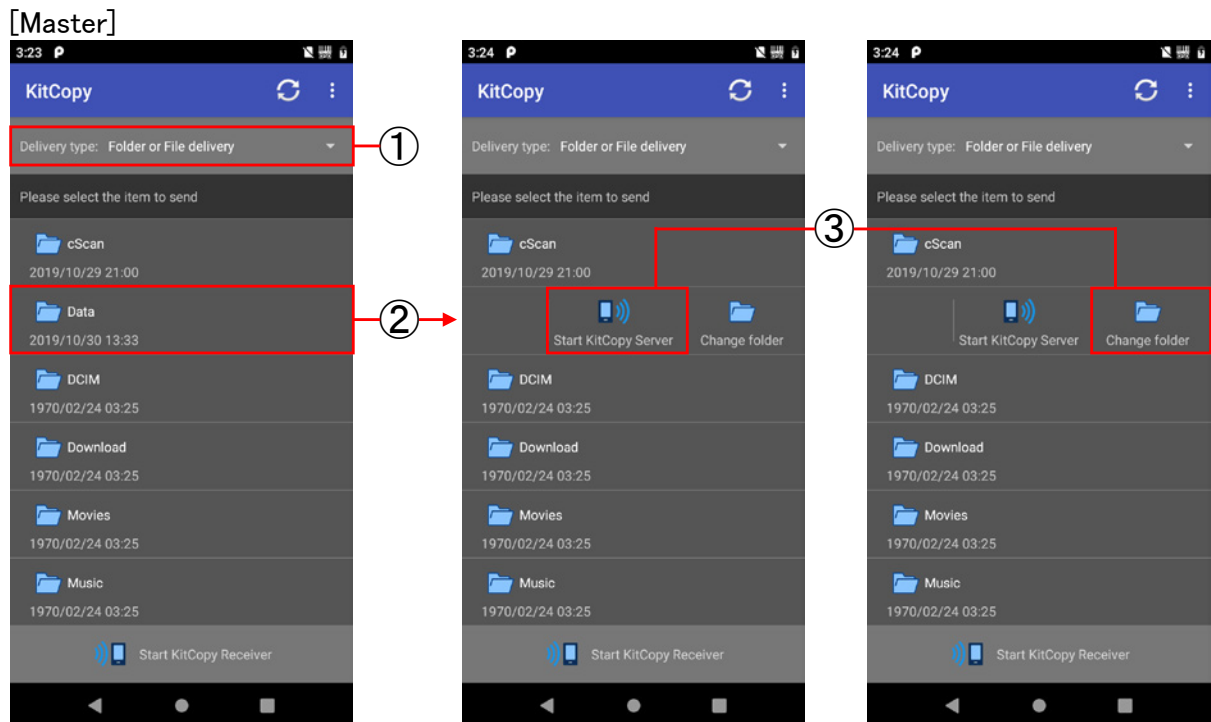
Put the folder or files in the internal storage or external storage (microSD card) of the master terminal.

First, operate the master terminal.

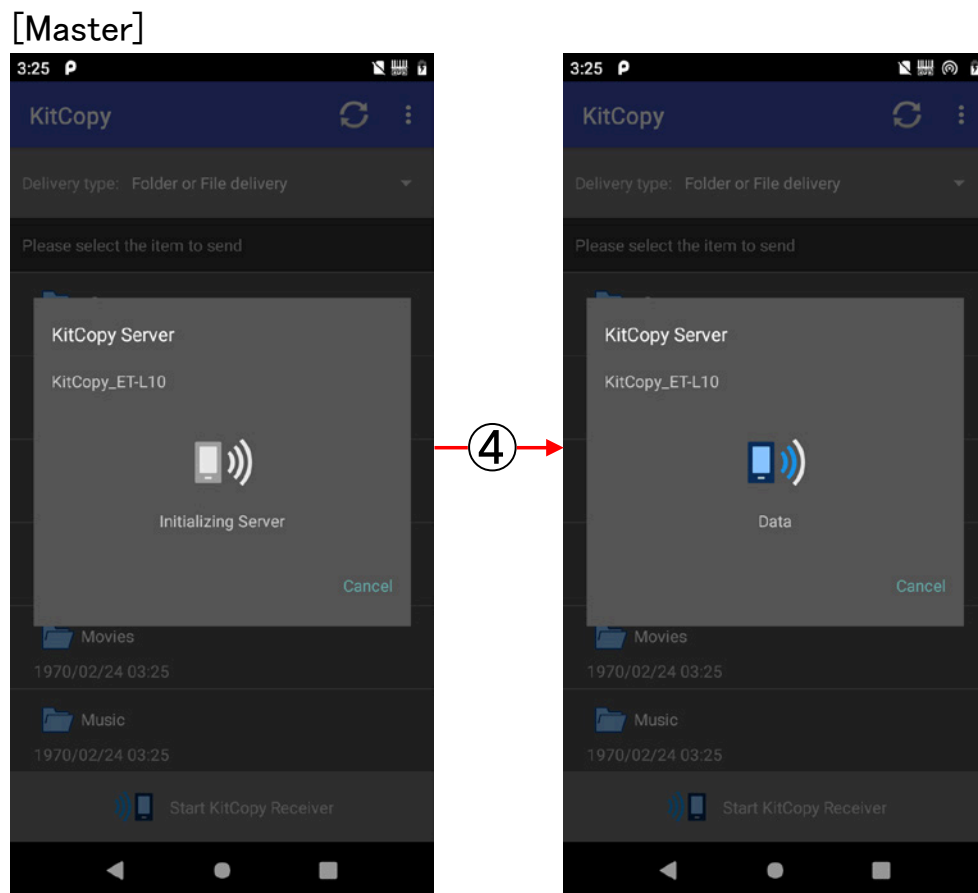
- ① Select the Delivery type to [Folder or File delivery].
- ② Select a file or folder to deliver.
- ③ Touch [Start KitCopy Server], start delivering.

Touch [Changed folder], refer to the file or folder inside current folder.

Touch [..Go up to the parent folder] and [Change folder] to go back to the parent folder.



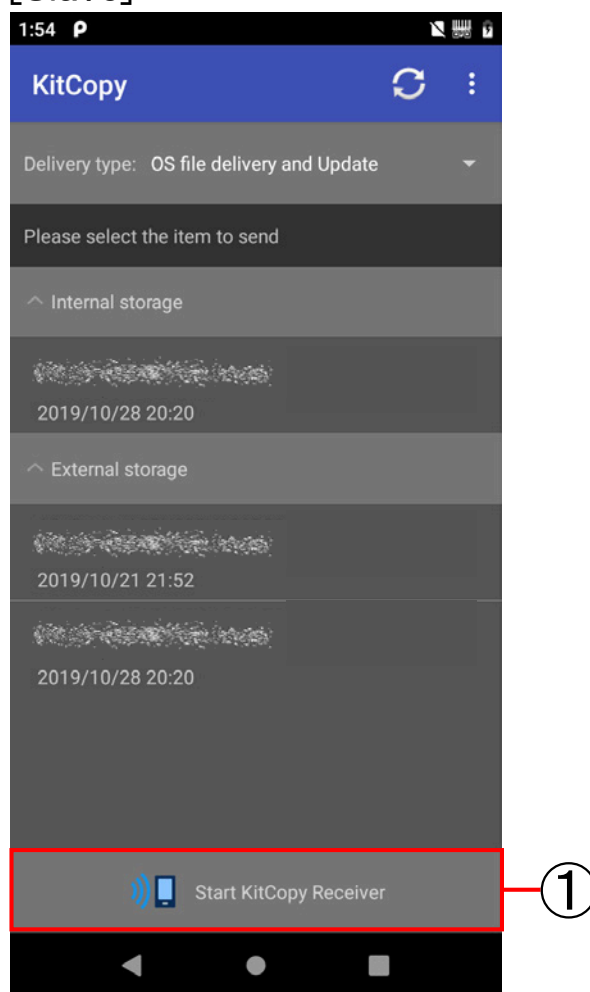
- ④ When ready for delivery, the icon is changed.



Next, operate the slave terminal.

- ① Select [Start KitCopy Receiver].

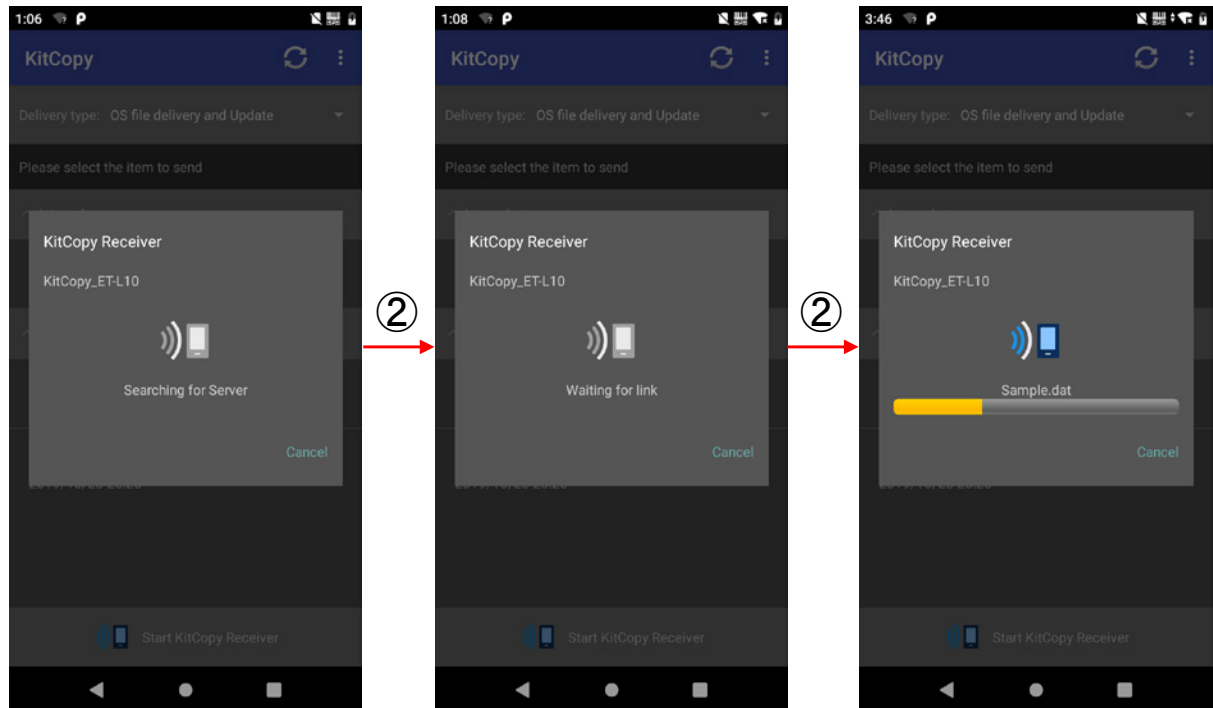
[Slave]





- ② 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, return to the main screen.
- In AOSP (Chinese) model, when the WLAN is not turned on, a warning message appears. Select "Allow" to turn on the WLAN.

[Slave]



## 2.2.3 Backup file delivery and restoration procedure

This function can deliver a Backup file and restoring.

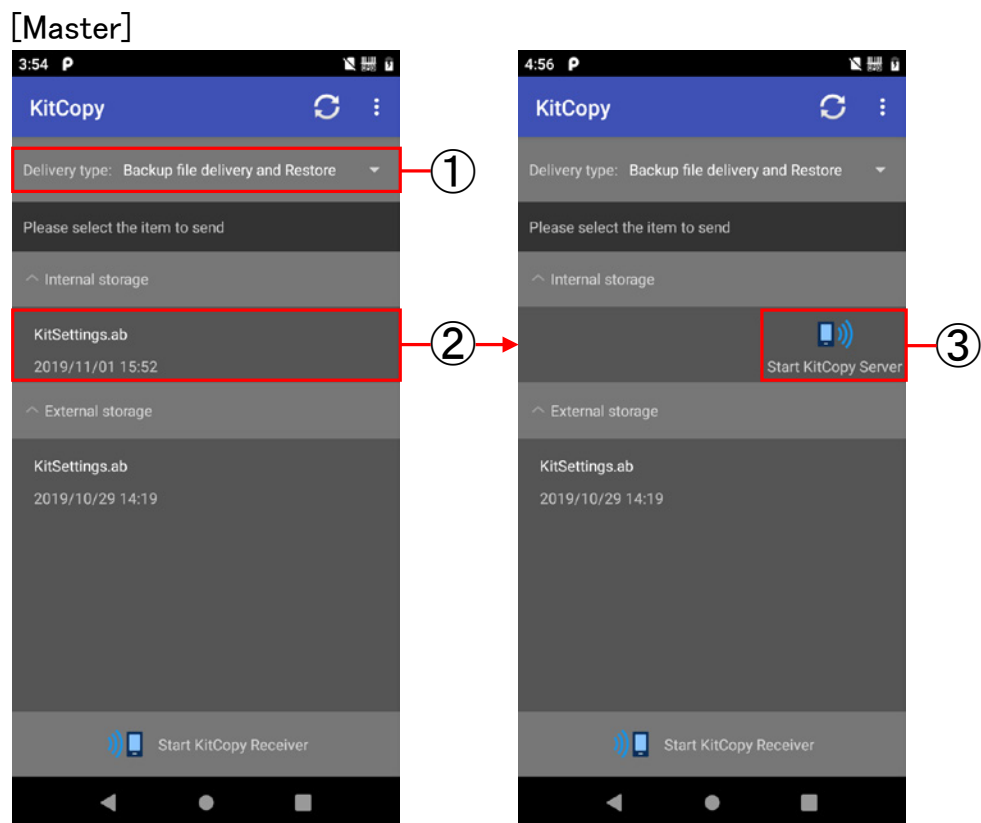
The Backup file should be made by [KitSettings].

Since the Backup file created above is delivered, please do not change the folder structure.

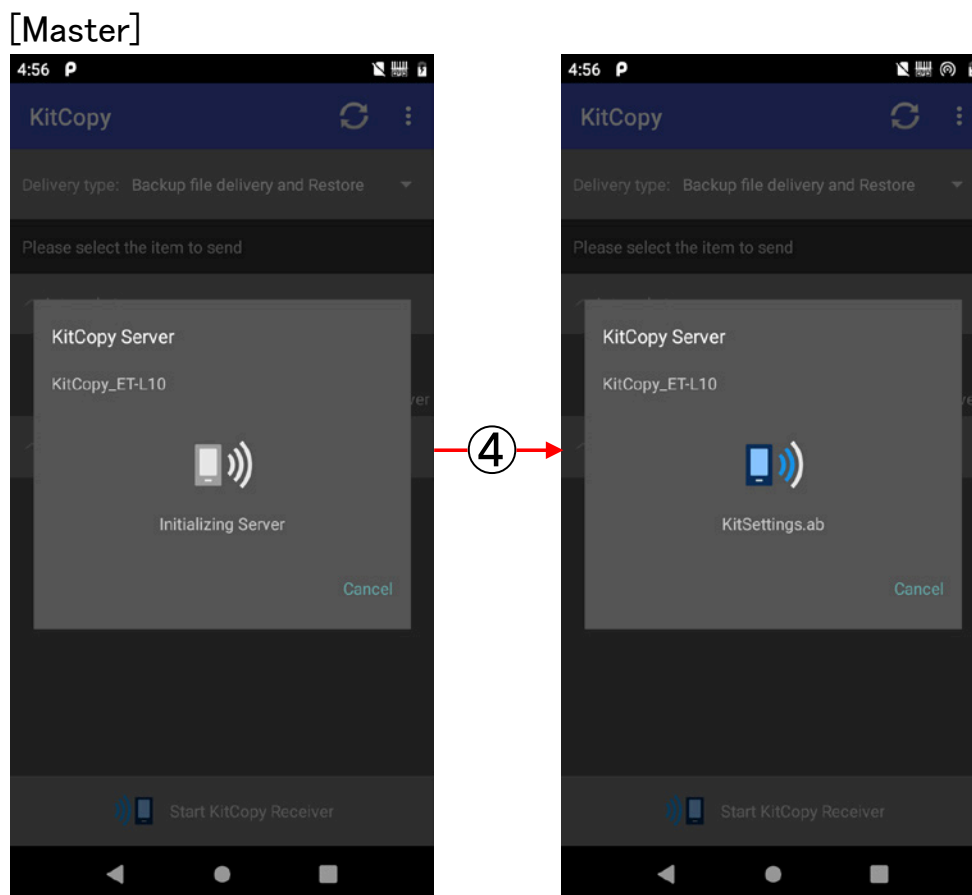
OS version (OS build number) of the backed up terminal and restoring terminals should be same.

First, operate the master terminal.

- ① Select the Delivery type to [Backup file delivery and Restore].
- ② Select a Backup file to deliver.
- ③ Touch [Start KitCopy Server].

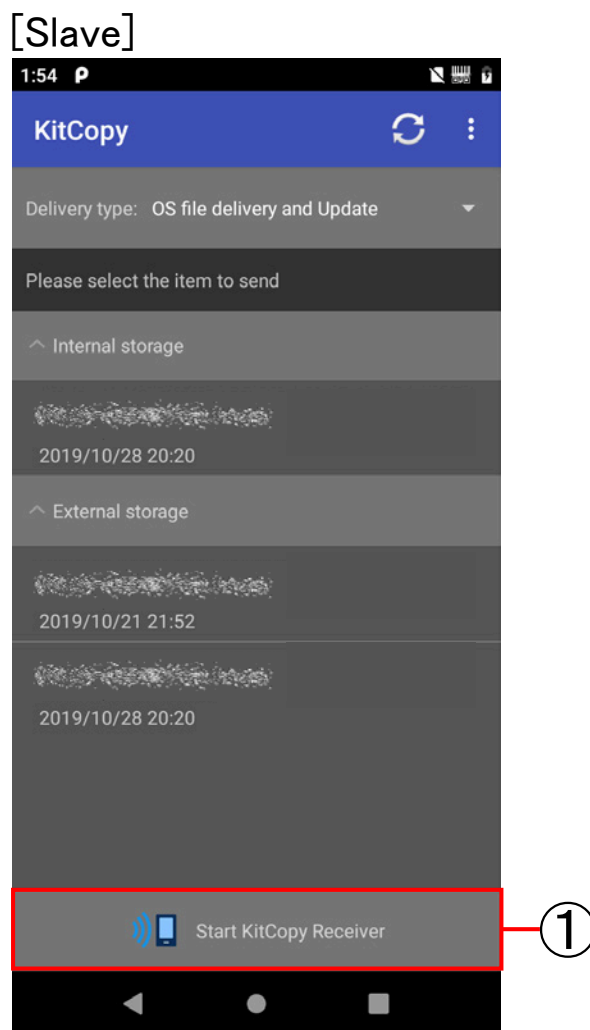


- ④ When ready for delivery, the icon is changed.



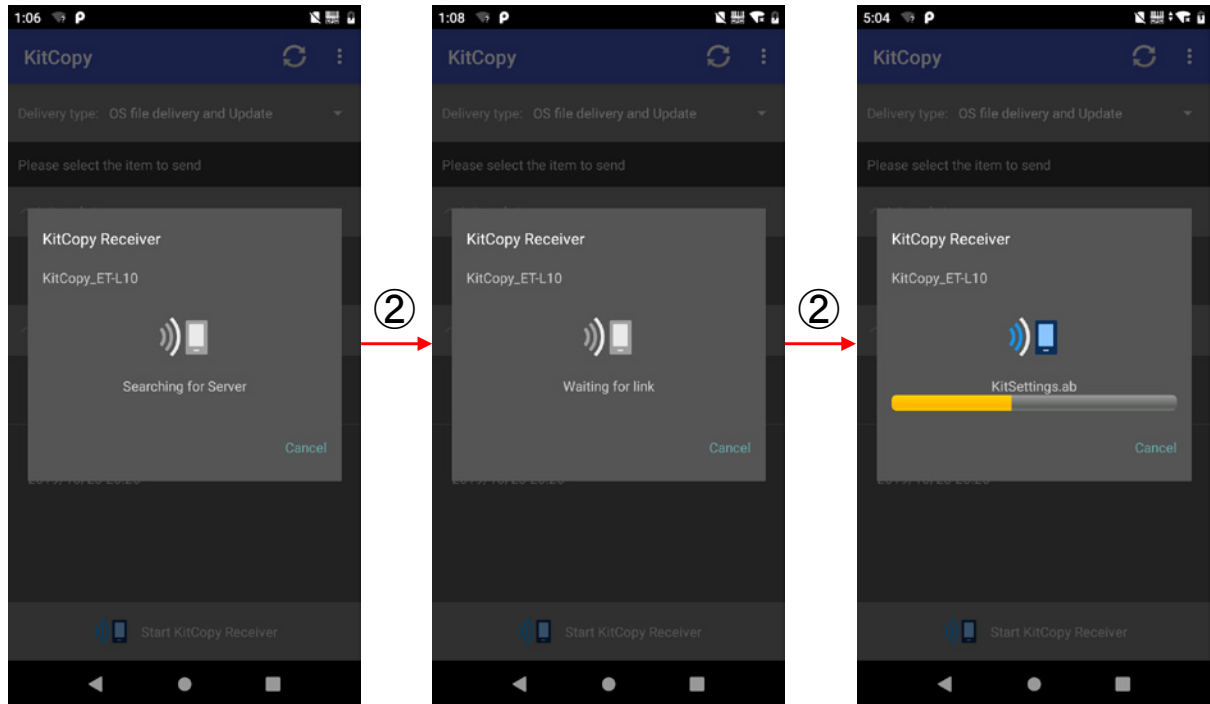
Next, operate the slave terminal.

- ① Touch [Start KitCopy Receiver].

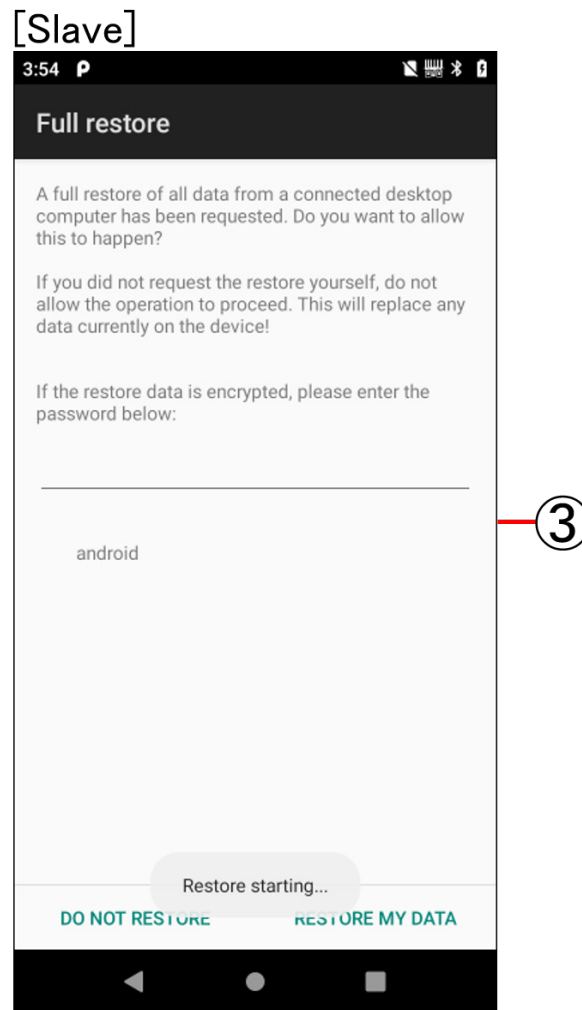


- ② Before starting to receive the image, the status dialog changes "Searching for Server" to "Waiting for link". While receiving, the progress bar is displayed. Received backup file is stored in root folder of internal storage. In AOSP (Chinese) model, when the WLAN is not turned on, a warning message appears. Select "Allow" to turn on the WLAN.

[Slave]



- ③ The restoration confirmation screen is displayed.  
After receiving the backup file, the terminal reboots automatically by restore process. Then all procedure is completed.



## 2.2.4 Save Result Log

Save the delivering result to each slave terminal in the csv file format on the internal storage of the master terminal.

The log file includes delivery results, Receivers' serial number and OS build number.

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

### Note!

The result is recorded only when the connection of master and slave is successful.

If the error or the connection canceled occurs before completing the connection,

Server cannot recognize the status of slave terminal. In that case, the result 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"

e.g.)

```
"20190101","082236","OS","ETL10-V001B09-EN_16.ota","1528689","A8ETL10V100R001C001B016_EN_16","SUCCESS"
"20190101","082400","OS","ETL10-V001B07-EN_14.ota","1528689","A8ETL10V100R001C001B016_EN_16","CANCEL"
"20190101","112927","FOLDER","Data","1528689","A8ETL10V100R001C001B016_EN_16","SUCCESS"
"20190101","113000","FOLDER","Data","1528689","A8ETL10V100R001C001B016_EN_16","CANCEL"
"20190101","113030","FILE","test.zip","1528689","A8ETL10V100R001C001B016_EN_16","FAILURE"
"20190101","113045","FILE","test.zip","1528689","A8ETL10V100R001C001B016_EN_16","SUCCESS"
"20190101","113128","BACKUP","KitSettings.ab","1528689","A8ETL10V100R001C001B016_EN_16","SUCCESS"
"20190101","113338","BACKUP","KitSettings.ab","1528689","A8ETL10V100R001C001B016_EN_16","CANCEL"
```

## Delivery type

The following table shows kinds of "Delivery type".

Delivery type	Description
OS	OS image file delivery by "OS file delivery and Update"
FOLDER	Folder delivery by "Folder or File delivery"
FILE	File delivery by "Folder or File delivery"
BACKUP	Backup file delivery by "Backup file delivery and Restore"

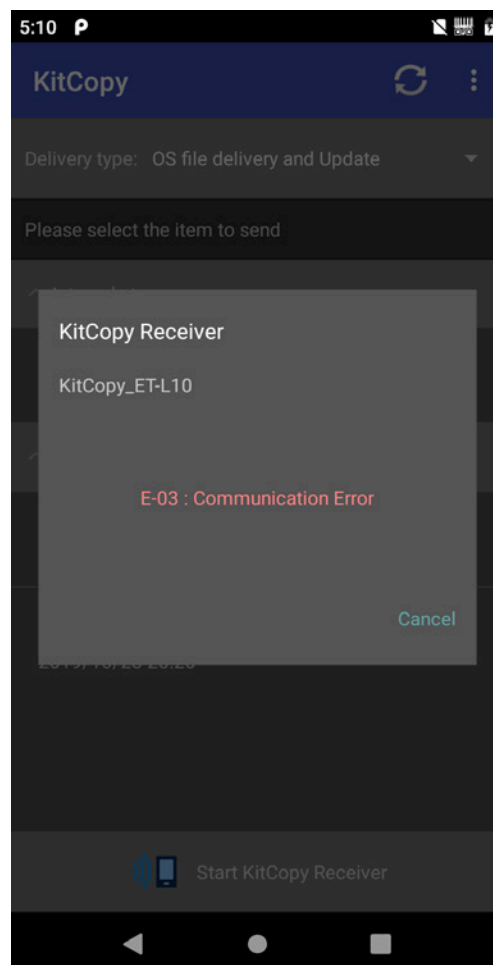
## Result

The following table shows kinds of "Result".

Result	Description
SUCCESS	Receiver received all data successfully.
FAILURE	Receiver failed to receive data because of some errors.
CANCEL	Transaction is canceled while transferring at Server side or Receiver side.

## Error Indication

The following dialog is displayed on the slave terminal when an error happens.





There are six kind of errors as shown below table.

Error Code	Error Indication	Description	Countermeasure
E-03	Communication Error	Connection fault or data error is detected.	Put the slave terminal near the master terminal and retry connection.
E-04	Communication Timeout	Slave terminal does not receive the data within appropriate time.	Put the slave terminal near the master terminal and retry receiving.
E-05	File Write Error	Slave terminal fails to save a file. The internal storage might be full.	Check the free space of slave's internal storage.
E-06	Check Sum Error	The checksum of received file is mismatch.	Put the slave terminal near the master terminal and retry receiving.
E-07	Disk Full	Free space of internal storage is not enough to store the received file.	Check the free space of slave's internal storage.
E-08	Server Cancel	Communication is cancelled by master terminal.	Check the master terminal.

## 3. KitSettings

### 3.1 Functions

Save the terminal settings to a storage and restore these settings.

Notes!

Restore the backup data to the same device, same model, and same OS version as the backup source.

After setting, the slave terminal is automatically restarted.

This application works on the terminal and provides the following functions.

Device means the Android-equipped CASIO Handy Terminal (e.g. ET-L10, IT-G400, DT-X400). Model means the ET-L10's model (e.g. WC21, WC21-AO). OS means the OS version of the ET-L10 (e.g. EN\_25, CN\_25).

Therefore, the restore function can not work between other CASIO Handy Terminals, other ET-L10's model, other OS version of the ET-L10.

Feature	Overview	Devcie	Model	OS
Backup	Create a backup file from the selected backup target.	-	-	-
Restore	Restore from the backup file.	Must match	Must match	Must match

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

Target of Backup/Restore	Description
Settings	The settings in the "Settings" are targeted. For the detail, confirm the following "Notes".
Home display	Save shortcuts placed on the home screen and contents displayed in the application list.
Scan Settings	The settings of the "ScanSetting" in the "Settings". "ScanSettings" is an application for controlling barcode scanner.
User Define	The settings of the "User Define" in the "Settings". "User Define" is the application for used to assign another function to the side key.

Notes!

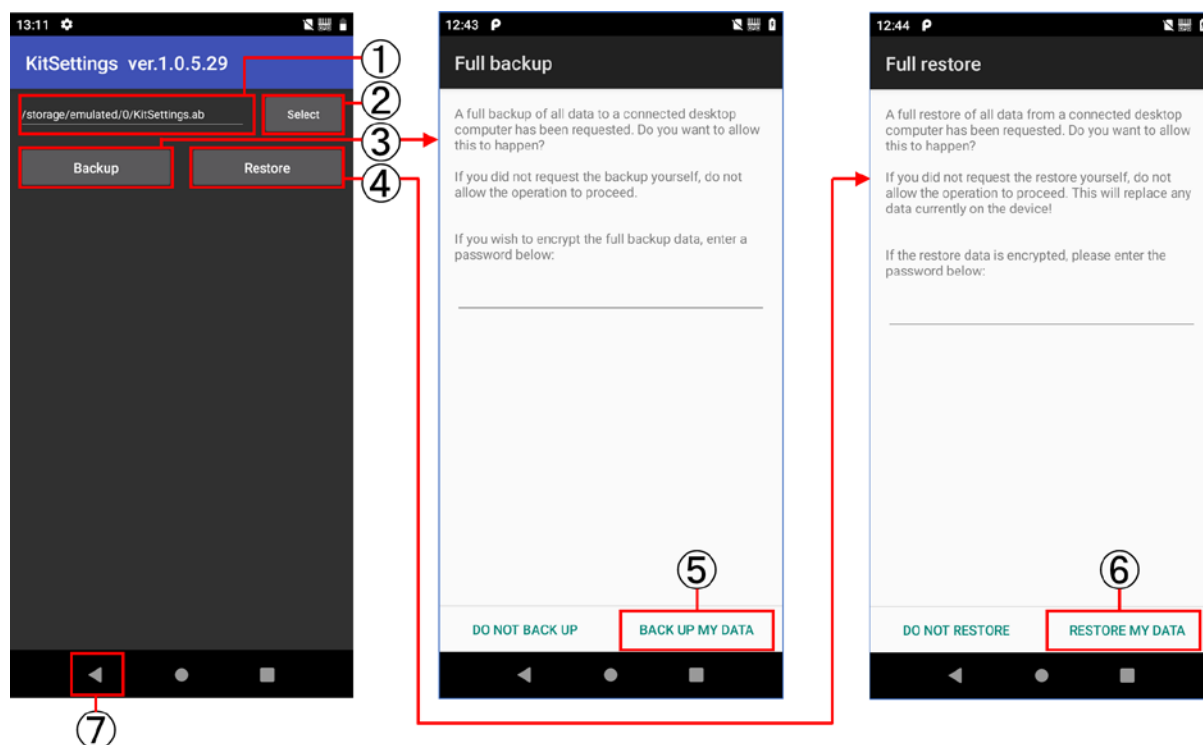
"Backup / Restore" by KitSettings is calling the backup function via "Android's Backup Manager Service".

Therefore, 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.

## 3.2 Procedure

Use functions of this application in following procedures.

### 3.2.1 Backup/Restore procedure



- ① This text box shows the file path for backup or restore.
- ② Touch [Select] to select the file.
- ③ Touch [Backup] to start backup of data.
- ④ Touch [Restore] to start restoring data.
- ⑤ Start backup of data (password can be omitted).
- ⑥ Start restoring data.
- ⑦ Touch return button, it shows finishing display. Touch [EXIT], this application is finish.

This application is the system application of the ET-L10, since the uninstall function does not work.

