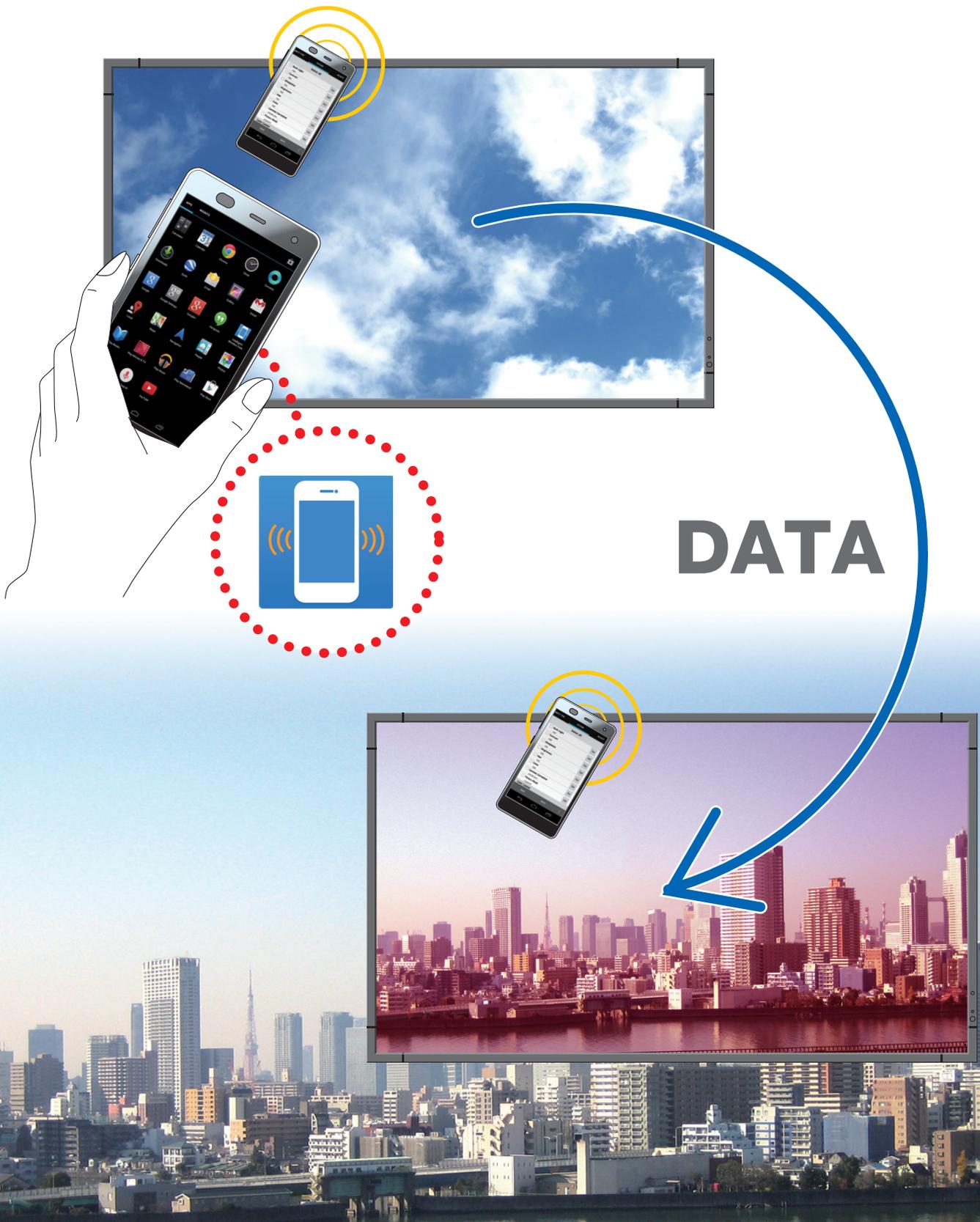


# Intelligent Wireless Data App Operating Guide



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# Overview

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## Introduction

Intelligent Wireless Data App is an application software for reading and writing adjustment values and setting values using the Intelligent Wireless Data sensor of a display and a terminal equipped with a NFC sensor (smartphone or tablet PC).

This manual explains the basic operations of the Intelligent Wireless Data App.

Reference: In this manual, the Android 4.2 screen is used as an example.

## Operating Conditions

Supported OS	Android 2.3 or later
Supported Terminals	Terminals that are equipped with NFC-Vfunctions
Supported Displays	Display that is equipped with the Intelligent Wireless Data function Please refer to our company's web site for details.

## How to Install

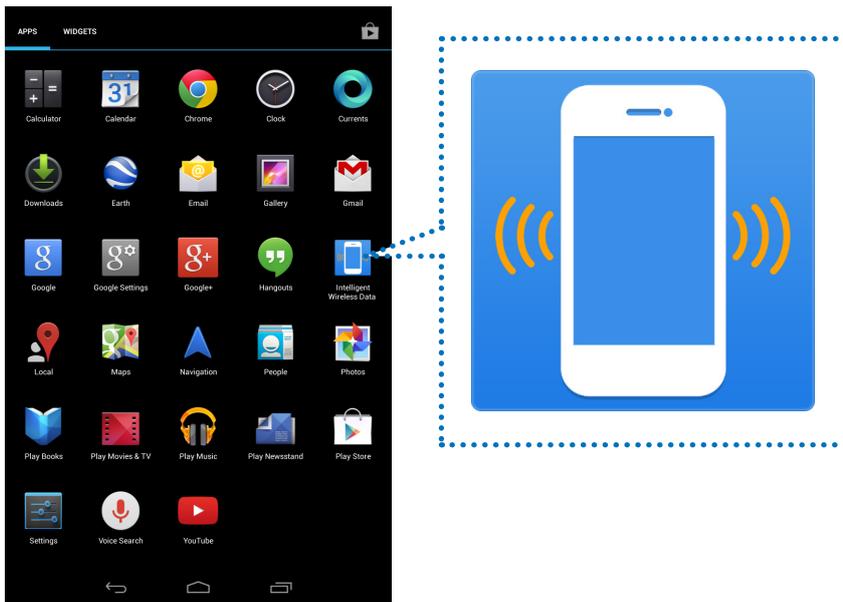
Search for Intelligent Wireless Data App from Google Play and then download and install the app in the terminal.



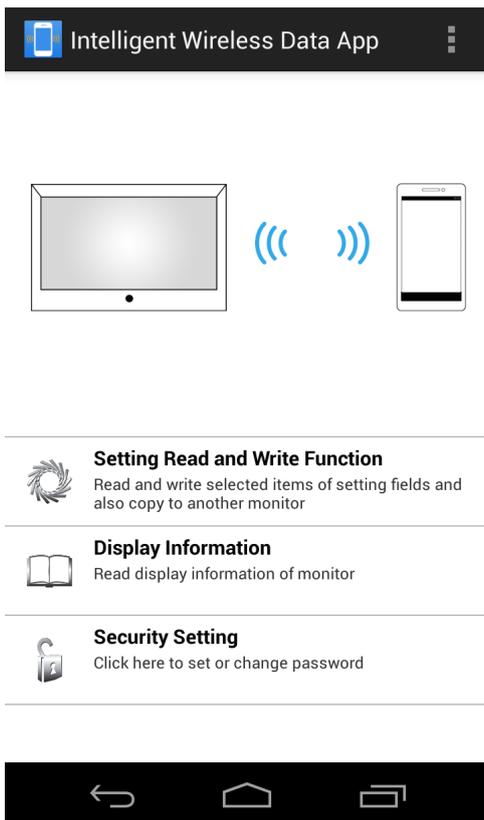
<https://play.google.com/store/apps/details?id=com.necdisplay.IntlWirelessDataApp>

# Starting the application

1. Tap the “Intelligent Wireless Data App” icon displayed in the list of applications.



2. The main screen of the Intelligent Wireless Data App will be displayed.



# Notes

## Pre-settings of the display

1. Check the OSD settings of the display.

“ADVANCED OPTION2” – “INTELLI.WIRELESS DATA” : ON

Performed the following settings as well when writing adjustment and setting values with the display in the standby state.

“EXTERNAL CONTROL” – “LAN POWER” : OFF

“ADVANCED OPTION1” - “INPUT DETECT” : NONE

“ADVANCED OPTION1” - “OPTION SETTING” - “OPTION POWER” : OFF

2. Put the display on standby, or switch off the main power supply.

## Terminal Pre-Settings

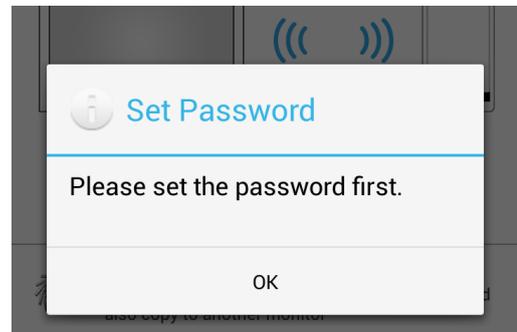
- Validate the NFC functions of the terminal.

Example) Check “Setting” – “Wireless & Network” – “Other...” – “NFC” .

- Set the password (4 numerical digits) to be the same as the password of the Intelligent Wireless Data sensor in “Set Password” under “Security Setting” in the Intelligent Wireless Data App.

Refer to the instruction manual of the display for the default password of the Intelligent Wireless Data sensor.

If communication is carried out without setting the password, the message “Please set the password first.” will be displayed. Press OK to transit to the settings screen.

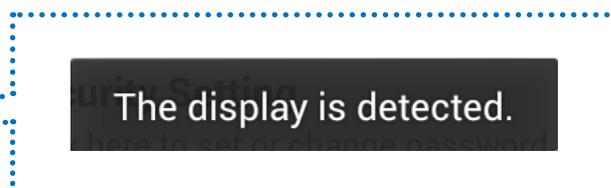
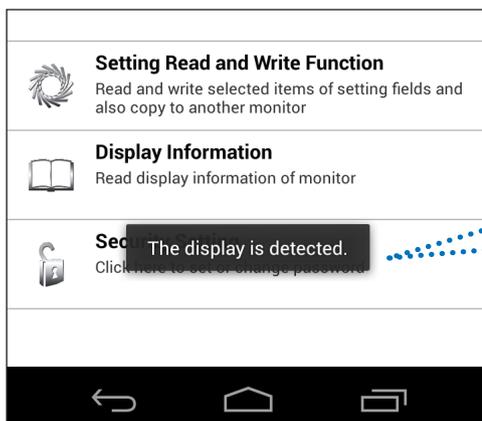


## Communication with the Intelligent Wireless Data sensor

Bring the terminal close to the Intelligent Wireless Data sensor and check the position at the bottom of the application screen where the message “The display is detected.” appears.

### Reference:

- The installation location of the Intelligent Wireless Data sensor varies depending on the display. Please refer to the instruction manual of the display for more information.
- The installation location of the NFC sensor varies depending on the sensor. Please refer to the instruction manual of the terminal for more information.



Please perform read and write operations at the position where this message is displayed.

# Flow of Operation



To read/write an adjustment value/setting value of the display, bring the terminal close to the Intelligent Wireless Data sensor of the display and press the READ / WRITE button of the application.

The message "Sensor is not close to the device or NFC is disabled." is displayed when the Intelligent Wireless Data sensor cannot be detected. Move the terminal and check that the message "The display is detected." appears at the bottom of the application screen before using the terminal.

## ● Read / Write

After reading and editing the setting value/adjustment value of the display in the application, write the value to the display.



## ● Copy Setting

Read the adjustment value/setting value of a single display and write it to other displays.

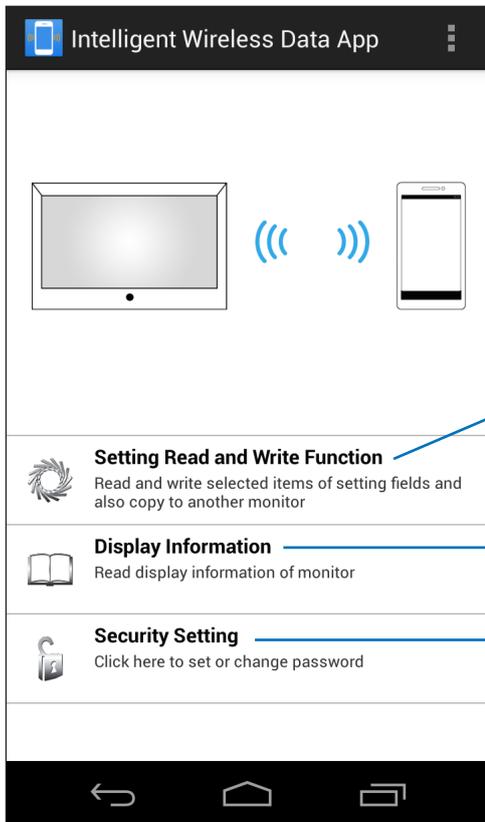


- [Precautions when reading and writing]
- Please perform reading or writing with the display in a standby state or the main power switched off.
  - Before communication with the display, move the terminal to the position where the message "The display is detected." is displayed and perform reading and writing at that position.
  - To communicate with the display, a password (4 numerical digits) similar to the password of the Intelligent Wireless Data sensor needs to be registered.
  - Perform read and write for only those items that have been ticked off in the check boxes.

# Names and functions of the various parts of the screen

## Main Screen

This is the main screen of the application.



### Setting Read and Write Function

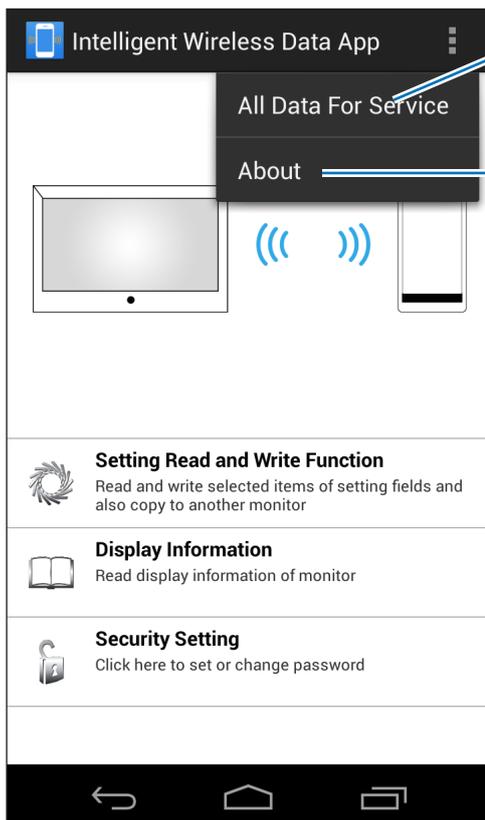
This is a function to read or write the adjustment value/setting value of the display.

### Display Information

Reads and displays the display information.

### Security Setting

Sets the password for communicating with the display.



### All Data For Service

This function is for the use of service personnel.

### About

Version Information.

# Setting Read and Write Function Screen

Reads or writes the adjustment value/setting value of the display in this screen.

Refer to the instruction manual of the display for detailed information on the various items (various options of the OSD function).

The screenshot shows the SCHEDULE tab selected. At the bottom, there are three buttons: READ, WRITE, and a menu icon (three dots). Blue lines connect these buttons to their respective descriptions:

- READ**: Reads data of the selected item from the display.
- WRITE**: Writes data of the selected item to the display.
- READ ALL**: Reads data of all items including those that have not been selected from the display.

Reference: The READ / WRITE / READ ALL buttons are displayed at the top of the screen depending on the terminal.

This screenshot provides a closer look at the SCHEDULE screen elements:

- Tab**: The SCHEDULE tab is highlighted in the top navigation bar.
- Check box**: A blue box highlights the checkboxes for OFF, Hour, Schedule Settings, and Schedule1. The text says: "Select the items you want to read or write."
- Operation Buttons**: A blue box highlights the ON, Set, and right-pointing arrow buttons on the right side of the screen. The text says: "Displays the adjustment screen and options for each item. There are different types of push buttons, toggle buttons, etc. available."

## Things to note when changing the INPUT TYPE

When changing the INPUT TYPE, please reset the items in the following table as well.

If writing is performed without reconfiguring the settings again, the settings before the INPUT TYPE was changed may be reflected in the display.

Tab	Item
PICTURE	BACKLIGHT
	CONTRAST
	SHARPNESS
	BRIGHTNESS
	HUE
	COLOR
	COLOR TEMPERATURE
	COLOR CONTROL
	GAMMA CORRECTION
	MOVIE SETTINGS
ADJUST	AUTO ADJUST
	ASPECT
AUDIO	VOLUME
	TREBLE
	BASS
	AUDIO INPUT
PIP	ASPECT
OSD	INPUT NAME
MULTI DISPLAY	TILE MATRIX (When TILE MATRIX MEM = INPUT)
DISPLAY PROTECTION	SIDE BORDER COLOR
ADVANCED OPTION1	DEINTERLACE
	COLOR SYSTEM
	OVERSCAN
	120 Hz
ADVANCED OPTION2	AUTO DIMMING (Except HUMAN SENSING)

# Display Information Screen

Reads and displays the information of the display in this screen.

The screenshot shows a screen titled "DISPLAY INFORMATION" with the following data:

DISPLAY INFORMATION	
<b>Information</b>	
<b>Model Name</b>	P463
<b>Serial Number</b>	38S00019NA
<b>Manufactured Date</b>	25th week in 2013
<b>Address</b>	
<b>Mac Address</b>	00-00-00-00-00-00-00-00

At the bottom of the screen, there are two buttons: "READ" and "EMAIL".

**READ**  
Reads information such as the Model Name etc. from the display.

**EMAIL**  
Read information can be shared as an attachment file or sent using a mail application etc.

The "EMAIL" button is shown in a detailed view with the following options:

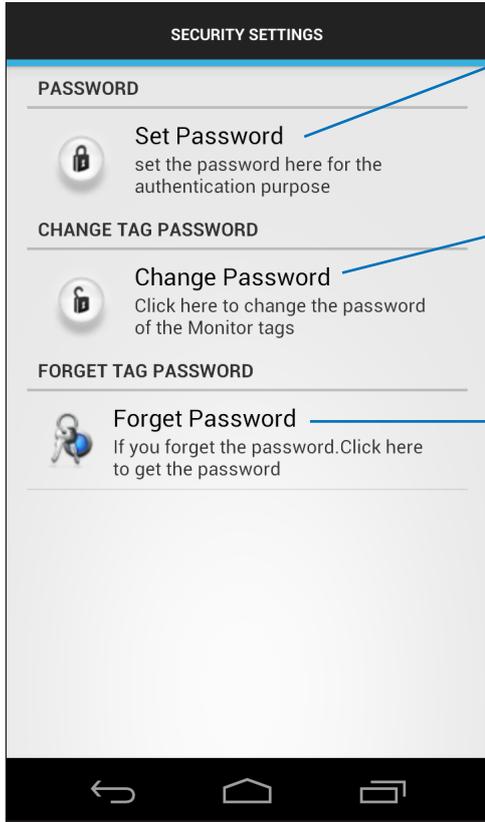
- Sending multiple attachment
- Drive
- Email
- Gmail

Reference: The READ / EMAIL buttons are displayed at the top of the screen depending on the terminal.

# Security Setting Screen

Registers the application password for communicating with the display, or for editing the password of the Intelligent Wireless Data sensor in this screen.

The initial password of the Intelligent Wireless Data sensor is set to "0000 ".



## Set Password

Registers the application password to be used when communicating with the display

Number of characters that can be input: 4 numerical digits

## Change Password

Changes the password registered in the Intelligent Wireless Data sensor. The password that is registered with the application can also be changed at the same time.

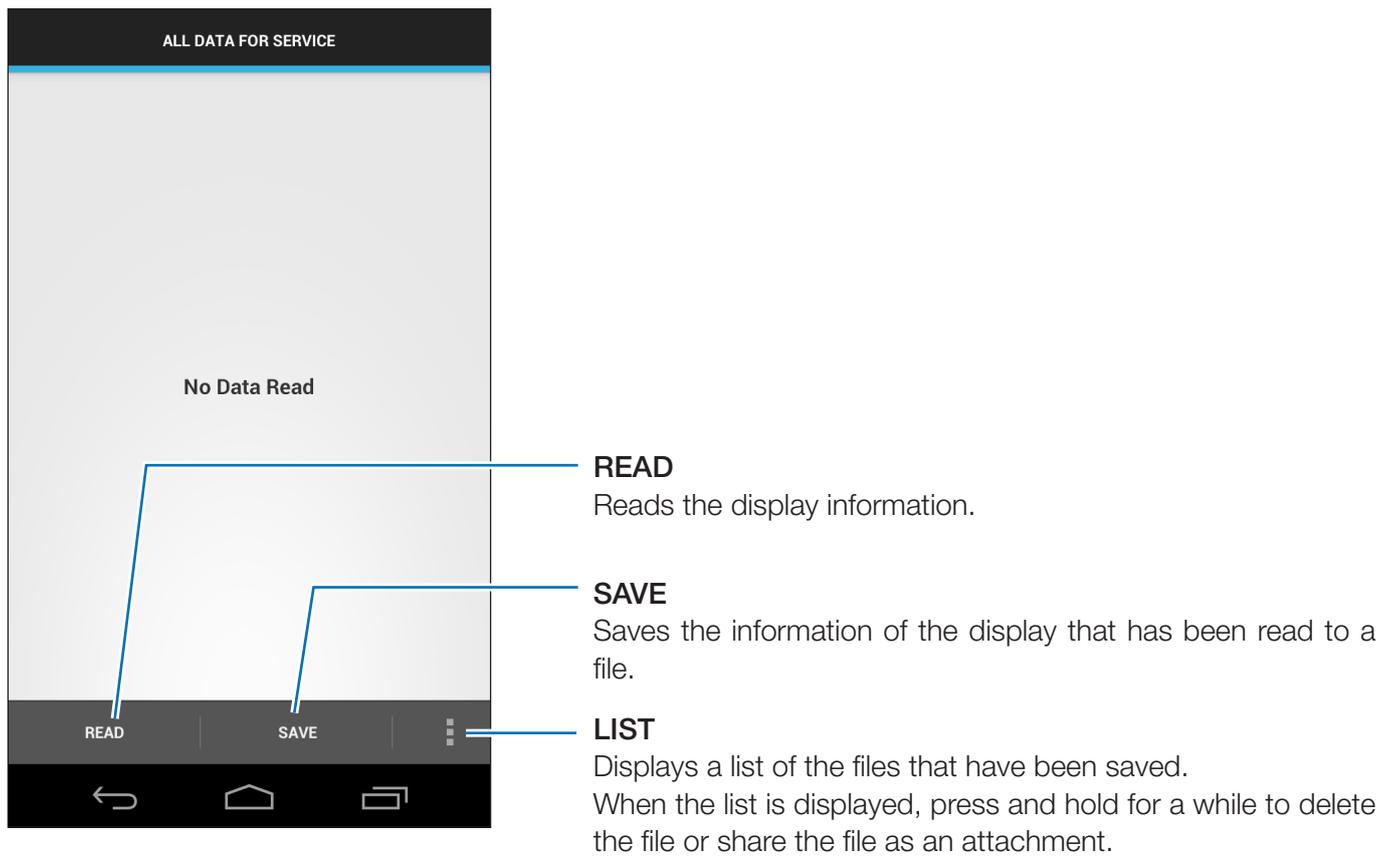
Number of characters that can be input: 4 numerical digits

## Forget Password

Displays a hint in case you have forgotten your password.

## All Data For Service Screen

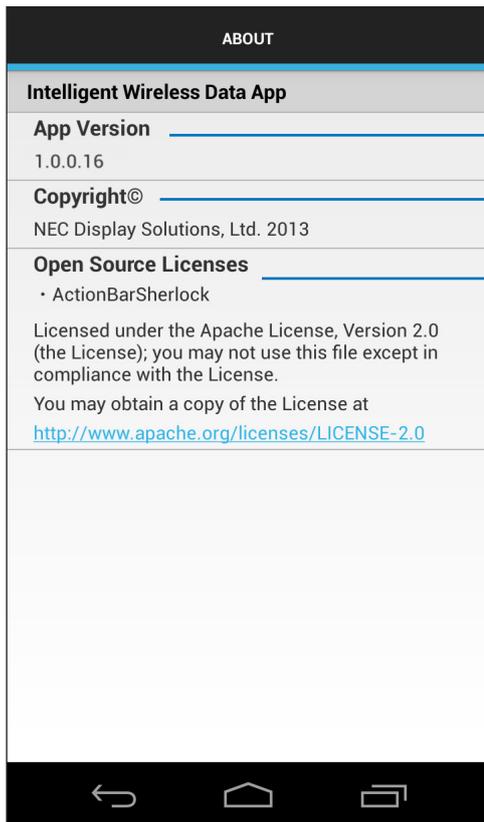
This screen is used for fault diagnosis.



Reference: The READ / SAVE / LIST buttons are displayed at the top of the screen depending on the terminal.

# About Screen

This screen shows the version information etc.



## App Version

Displays the version of the application.

## Copyright

Displays the copyright information.

## Open Source Licenses

Displays the open source license content.

# About trademarks

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