iMC Machine Panel Remote

Panel Agent Installation Manual for Android

Ver. 1.0.4
2020/12/30
KOMATSU

Change history

| Version	Date of update	Update details
1.0.0	2020/2/21	Create New
1.0.1	2020/3/19	Changed the title of the manual that supports Lenovo M10 (Android9)
1.0.2	2020/8/27	Updated for M10 and TD520 (1.4.2)
1.0.3	2020/9/30	Updated screenshot of "Authorization assignment (common for all models)" to latest version
		Newly added "Verification method for route certificate (TD520)"
		Newly added "Verification method for route certificate (Lenovo M10)"
		Relocated descriptions concerning installation of route certificate to rear half of the manual
1.0.4	2020/12/30	Updated for M10 and TD520 (1.4.7)

Installation Method for Panel Agent

Preconditions

The apk file, to be used for the procedure, must be available on the PC (Windows).

Method for copying the apk file, to be used for the procedure, from PC (Windows) to a terminal device

1 Connect the terminal device with the PC (Windows), using a USB cable.

  * In case of Lenovo Tab M10 (Android 9.0), the terminal device displays "Connect to PC with USB".
   Tap the "Media device (MTP)" option.
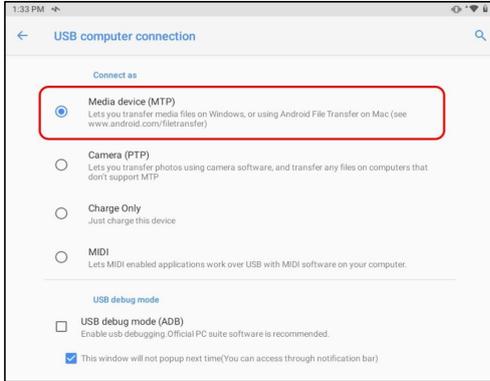
2 Use the Windows Explorer on the PC (Windows) to double click and open the connected terminal device listed in the "This PC" selection.
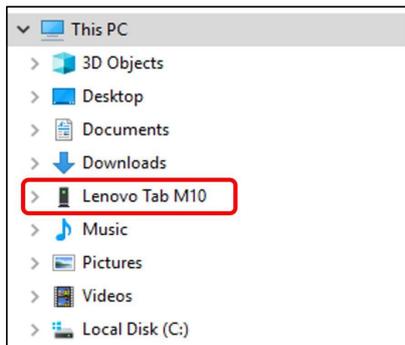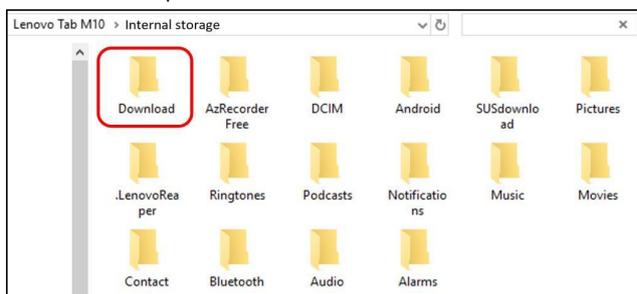
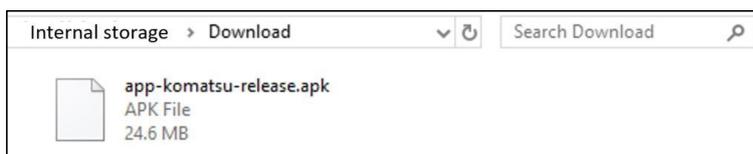 * [Lenovo Tab M10] is displayed in case of Lenovo Tab M10.

3 Double click to open the "Internal storage".

4 Double click to open the "Download" folder.

5 Copy the apk file, copied as a part of the Precondition and used for the procedure, to the "Download" folder.
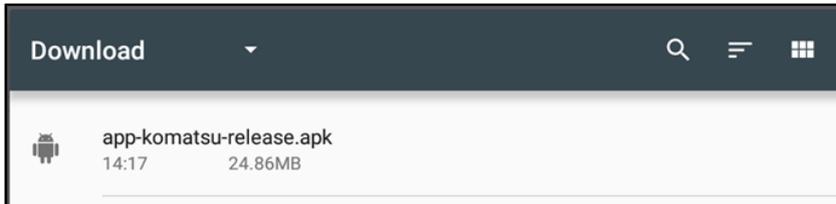
Installation Method for Panel Agent
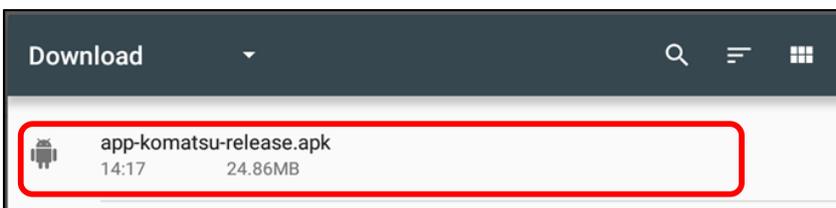
Preconditions

1 The route certificate must be already installed.

2 The apk file, used for the procedure, must be in "Download" folder.

3 The switch for "Application with unknown information source" in Security in the terminal device settings must be enabled.

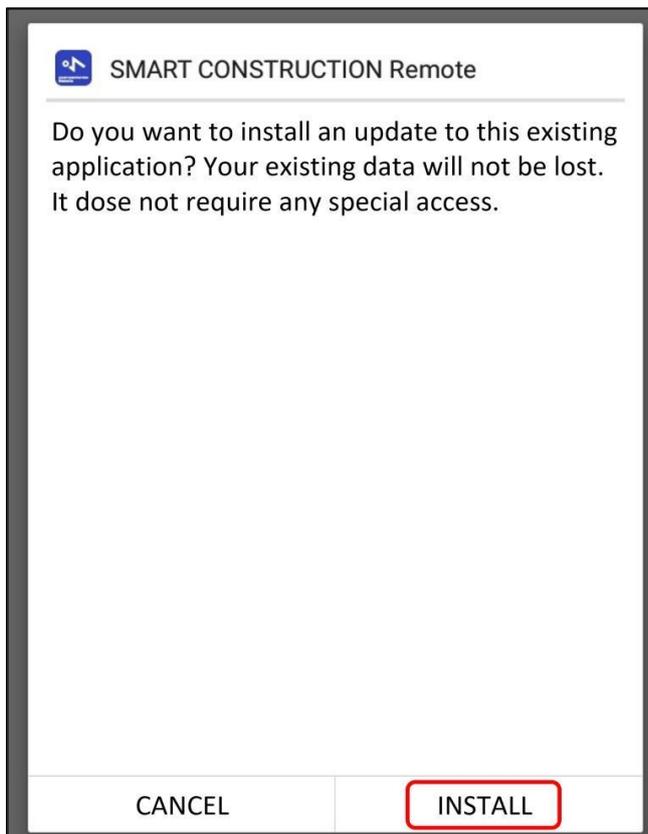### Installation (TD520 Android 6.0)

1 Open "Storage and USB" in Settings and open the "Download" folder in the storage.
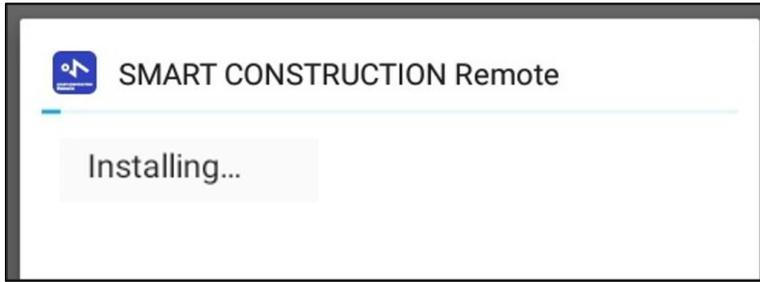

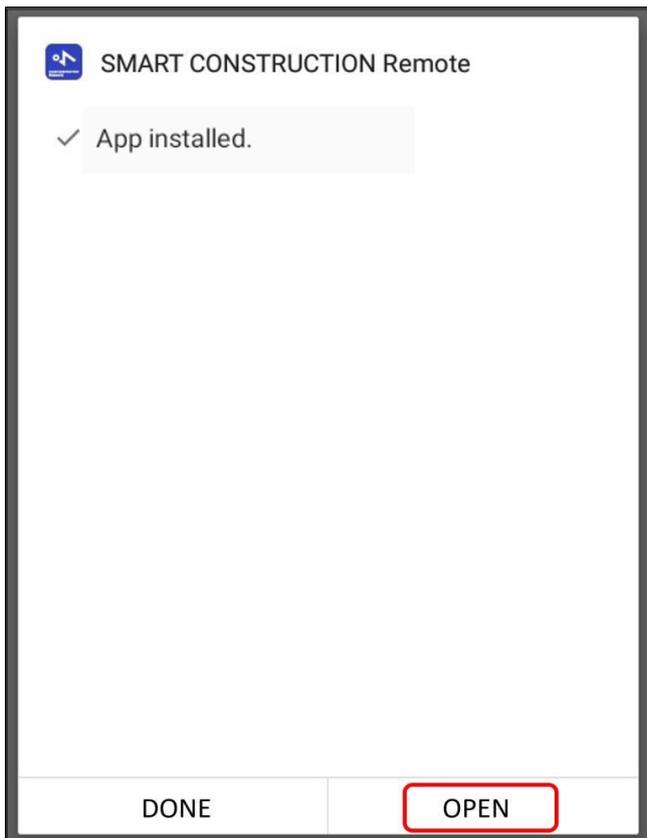**2** Verify that the apk, copied in advance, is present and tap the file.

3 Tapping displays a dialog box. Tap "INSTALL".
  * If the dialog box is not displayed, copy the file to the "Download" folder, then find the file in the "Download" folder of the
   Application List and tap the apk file.

4 Please standby while installation is performed.

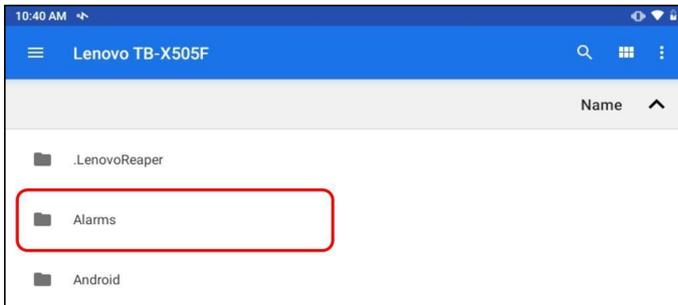**5** Installation is completed. Tap "OPEN" and assign authorization.

Installation Method for Panel Agent
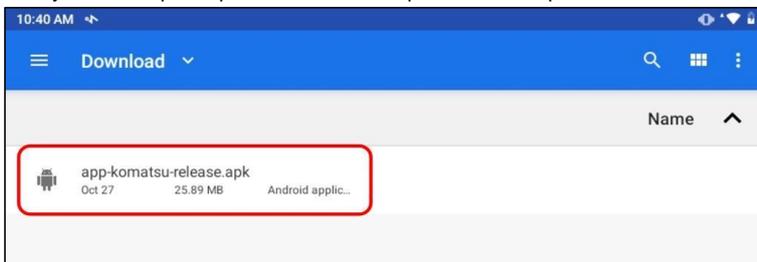
Preconditions

1 The route certificate must be already installed.

2 The apk file, used for the procedure, must be in "Download" folder.

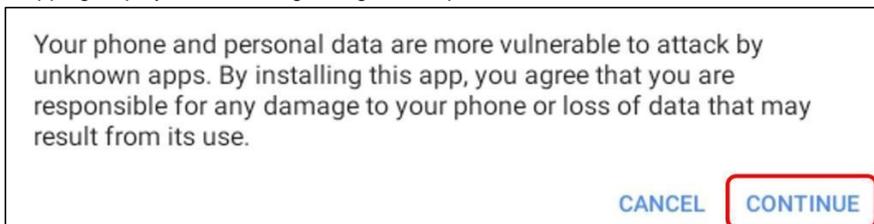### Installation (Lenovo Tab M10 Android 9.0)

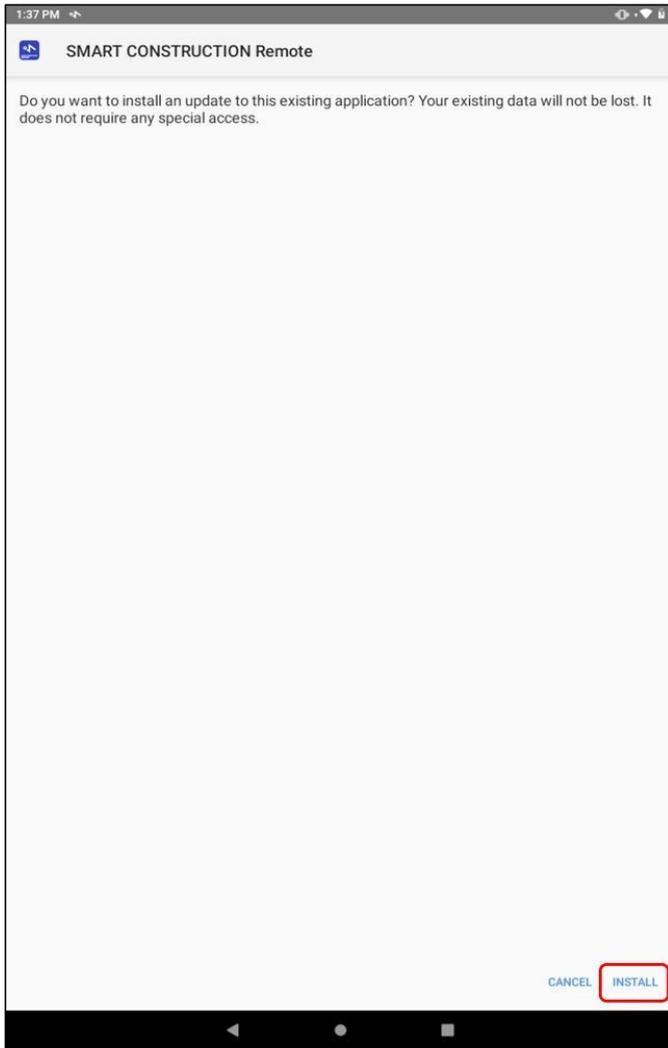**1** Select "File" in "Storage" in Settings and open the "Download" folder.

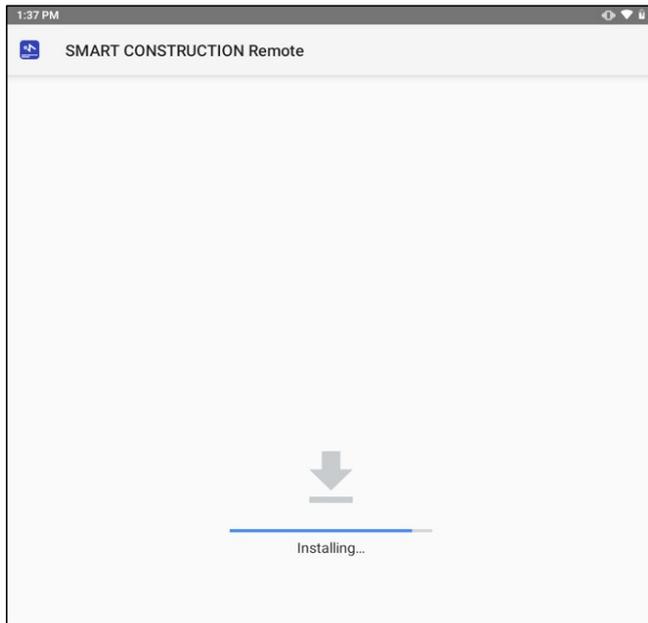**2** Verify that the apk, copied in advance, is present and tap the file.

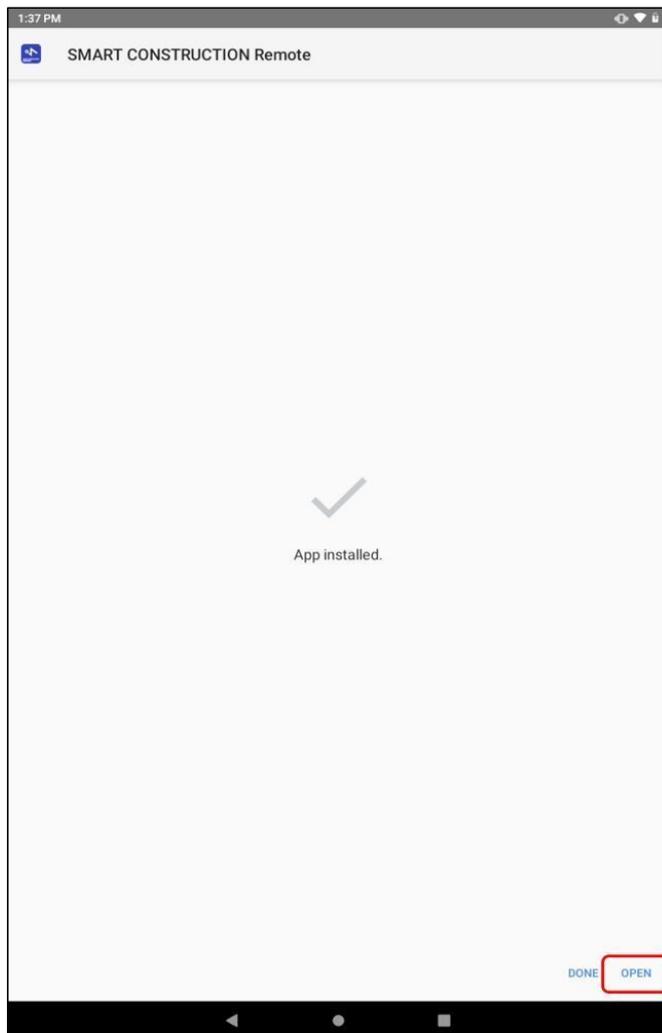**3** Tapping displays the following dialog box. Tap "CONTINUE".

4 Tap "INSTALL".

5 Please standby while installation is performed.

6 Installation is completed. Tap "OPEN" and assign authorization.

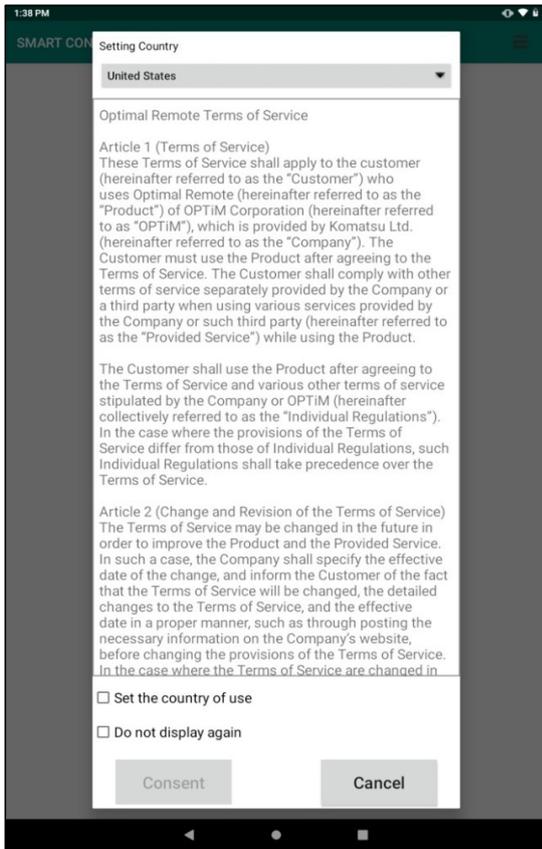## Authorization Assigning Method for First Startup of Panel Agent

Preconditions

This procedure must be performed on the very first occasion of starting up the Panel Agent after it is installed.

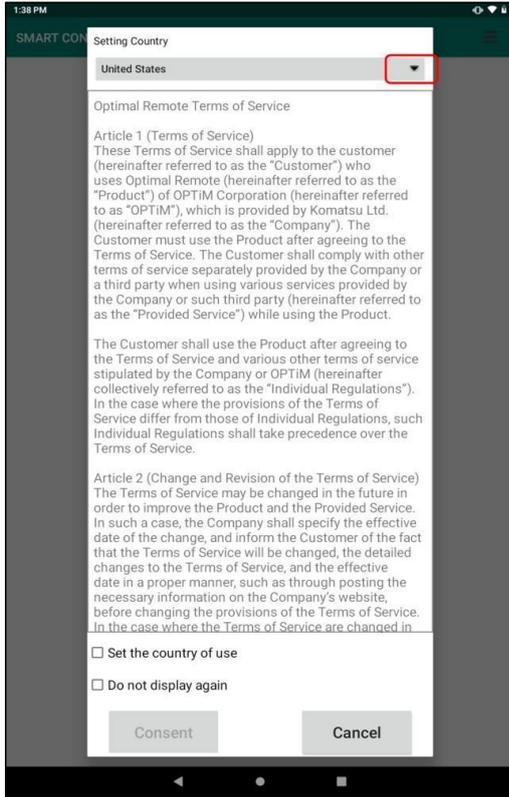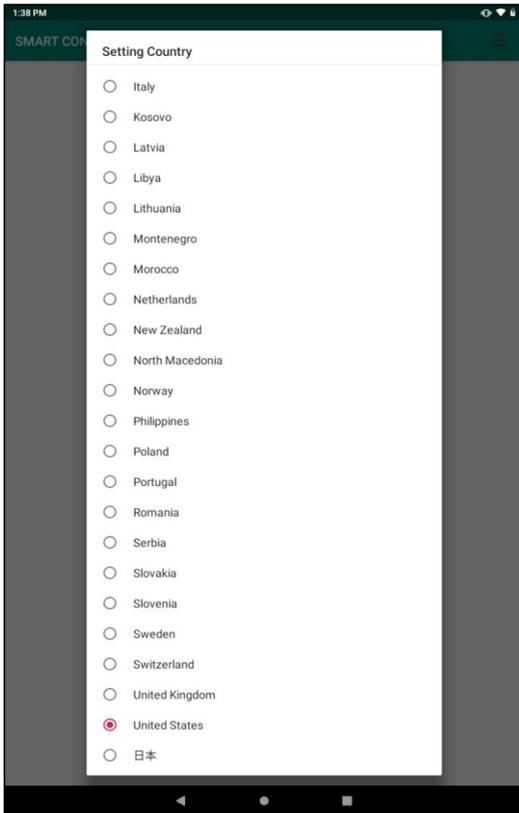### Authorization assignment

1 The "Terms of Service" screen is displayed after the application starts.

2 Tap " " and display "User Country List".

3 Select and set for the intended country from the User Country List.

4 After the user country is set, enter a check mark for "Set the country of use".
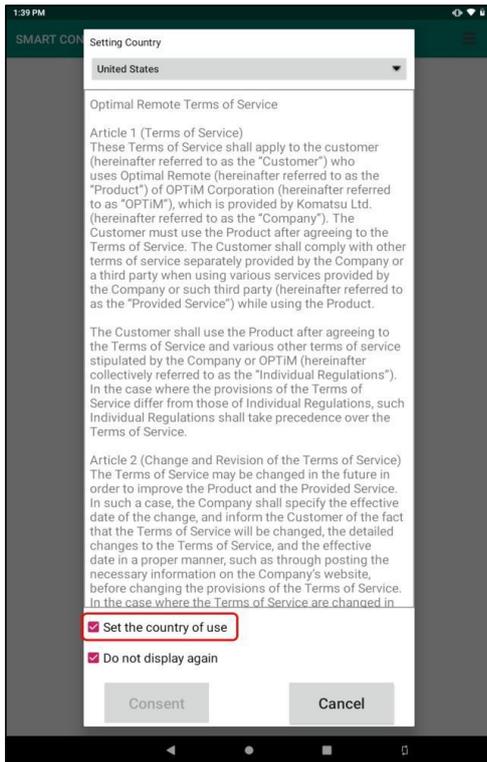
5 Verify contents and scroll down to the bottom of the Terms of Service, then tap the "Consent" button.
   * Entering a check mark for "Do not display again" will prevent displaying of the "Terms of Service" screen from subsequent instance.
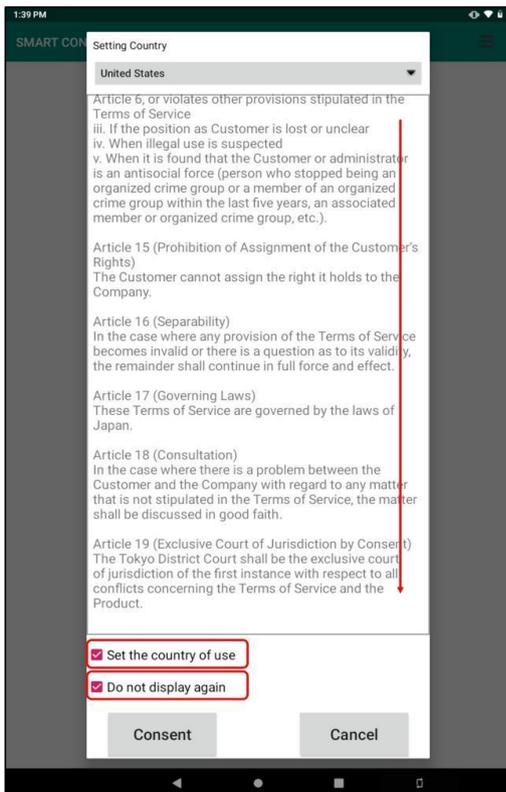
6 The "MAC Address Acquisition Agreement" screen is displayed.
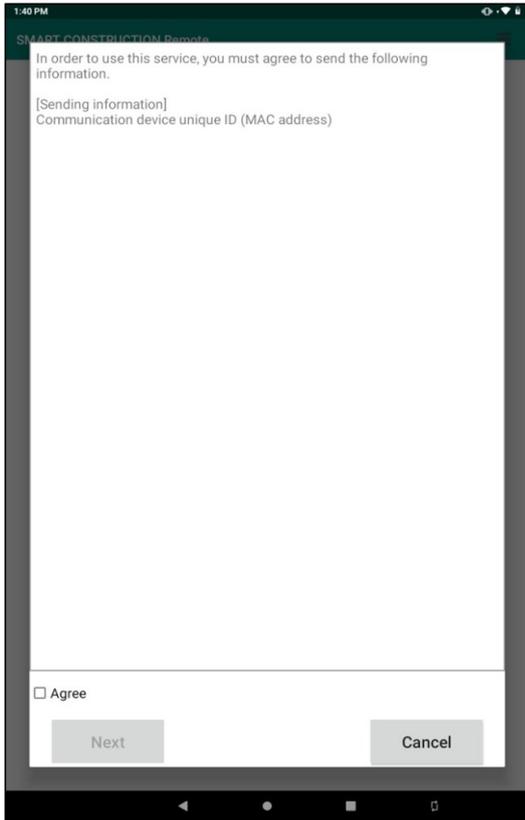
7 Enter a check mark for "Agree", then tap the "Next" button.
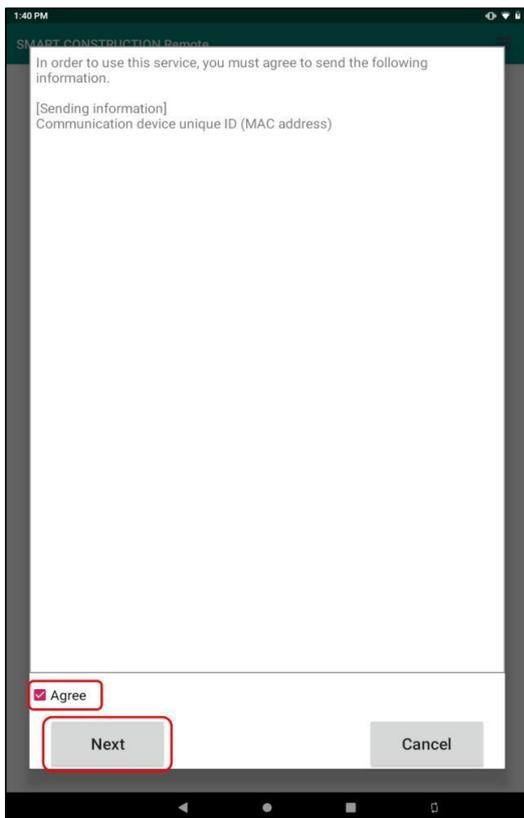
8 Tap "ALLOW" to enable file transfers and operations.
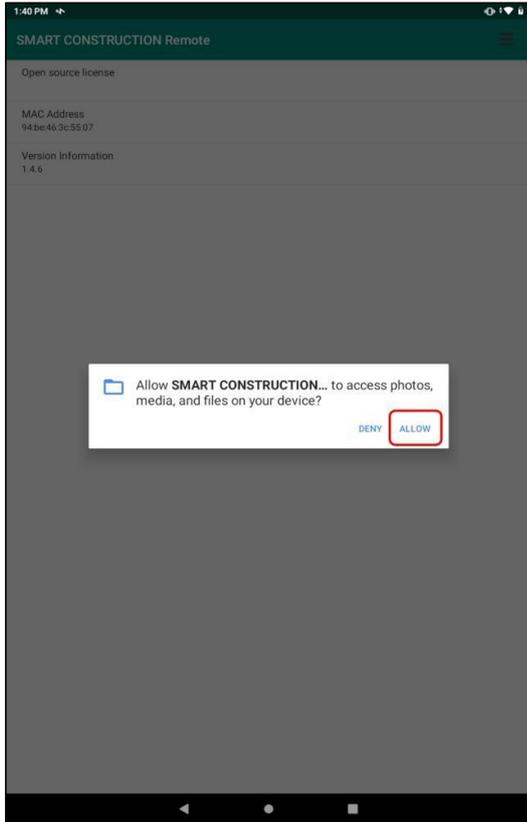
9 Enter a check mark for "Don't show again" and tap on "START NOW" to share screen display for remote support services.
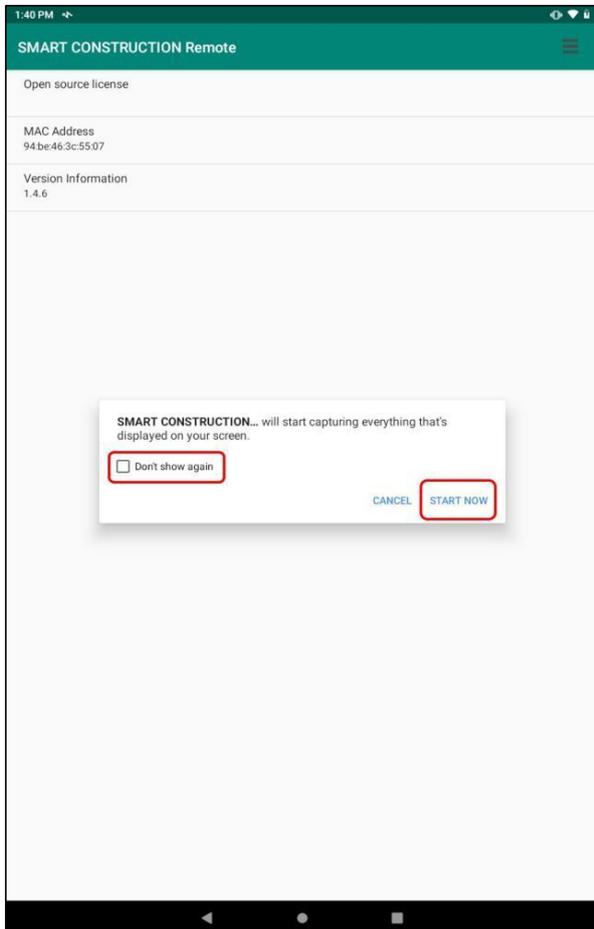
10 * In case of TD520 (Android 6.0)
  After tapping, "Ignore battery optimization" is displayed. Tap "YES".
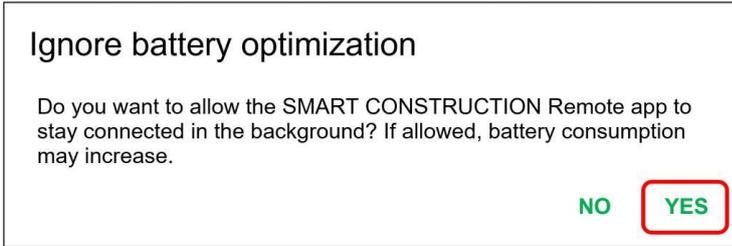
  * In case of Lenovo Tab M10 (Android 9.0)
  After tapping, "Let app always run in background?" is displayed. Tap "ALLOW".
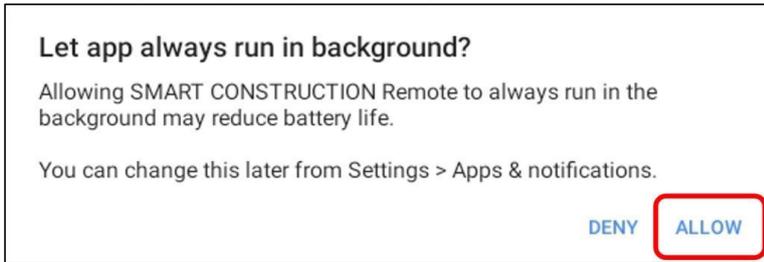
11 Enable the switch to ensure that screens are displayed with other applications, then tap the Home button to return to the Home :

Uninstallation Method for Panel Agent

Uninstallation

1 Press and hold down on the Panel Agent in the Application List, and drag it to "Uninstall".

2 This displays the following dialog box. Tap "OK".

3 Verify that the message "Uninstallation Completed" is displayed at the bottom of the screen and the icon is deleted from the status bar.

Panel Agent Installation Manual for Android.xlsx
Route certificate inst. (all)

Confidential

Installation Method for Route Certificate of Server Certificate

Preconditions

The certificate must be already downloaded on the PC (Windows) from the website described below:
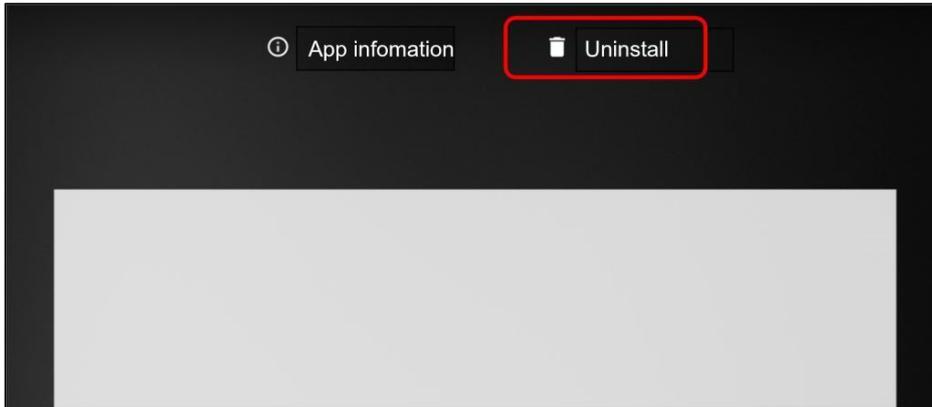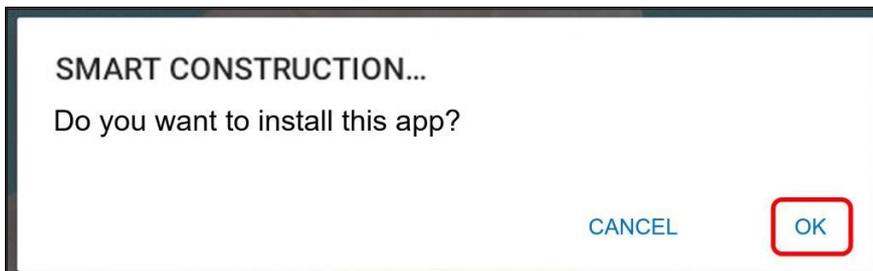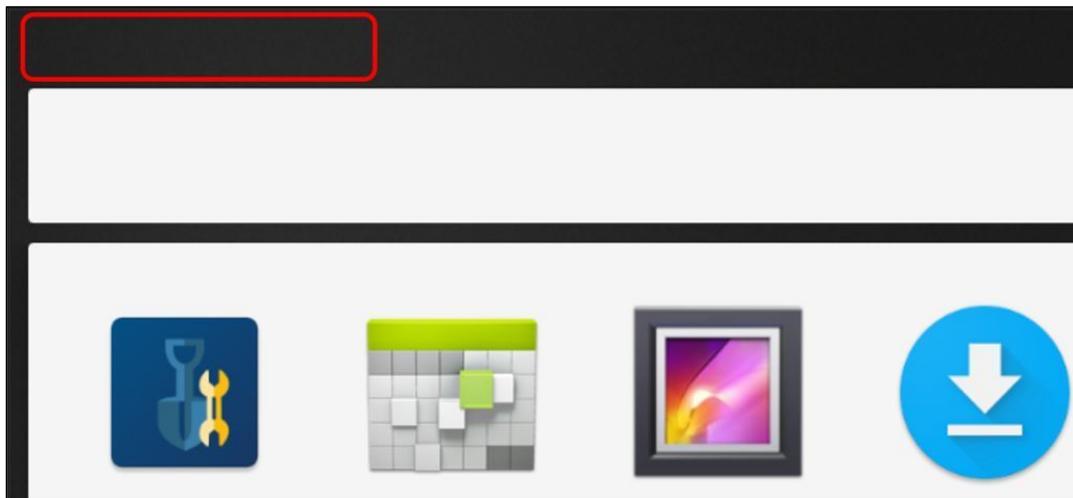
https://dl.cacerts.digicert.com/DigiCertGlobalRootCA.crt

Method for copying the route certificate, to be used for the procedure, from PC (Windows) to a terminal device

1 Connect the terminal device with the PC (Windows), using a USB cable.

* In case of Lenovo Tab M10 (Android 9.0), the terminal device displays "USB computer connection". Tap the "Media device (MTP)"
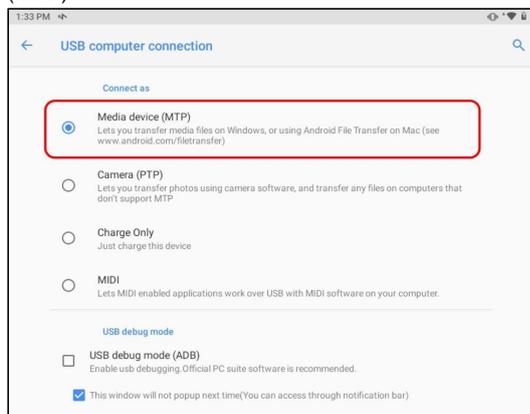
2 Use the Windows Explorer on the PC (Windows) to double click and open the connected terminal device listed in the "This PC" selection.
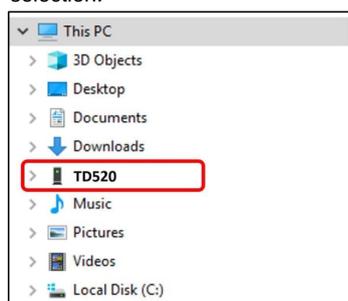
* [Lenovo Tab M10] is displayed in case of Lenovo Tab M10.

3 Double click to open the "Internal storage".
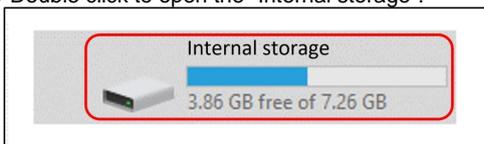
4 Double click to open the "Download" folder.
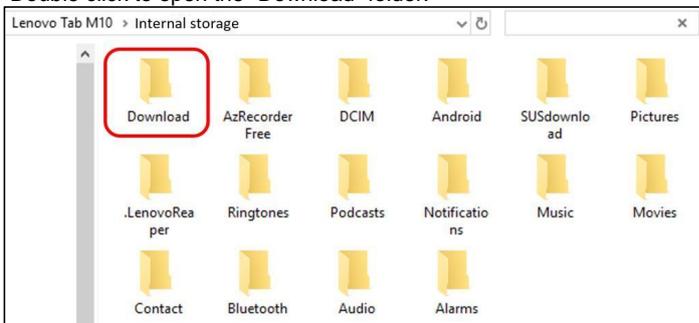
5 Copy the route certificate downloaded as a part of the Precondition to the "Download" folder.
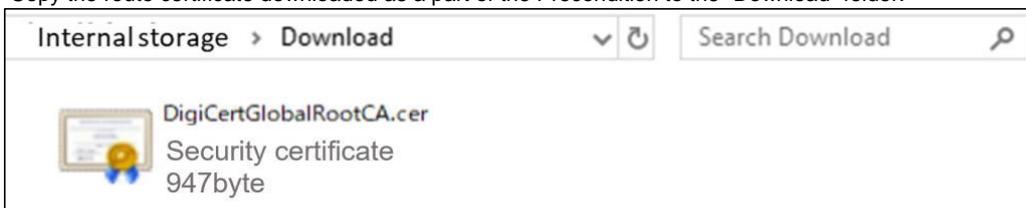
Installation Method for Route Certificate of Server Certificate

Installation method (TD520 Android 6.0)

1 Open "Security" in Settings and tap on "Install from Storage".
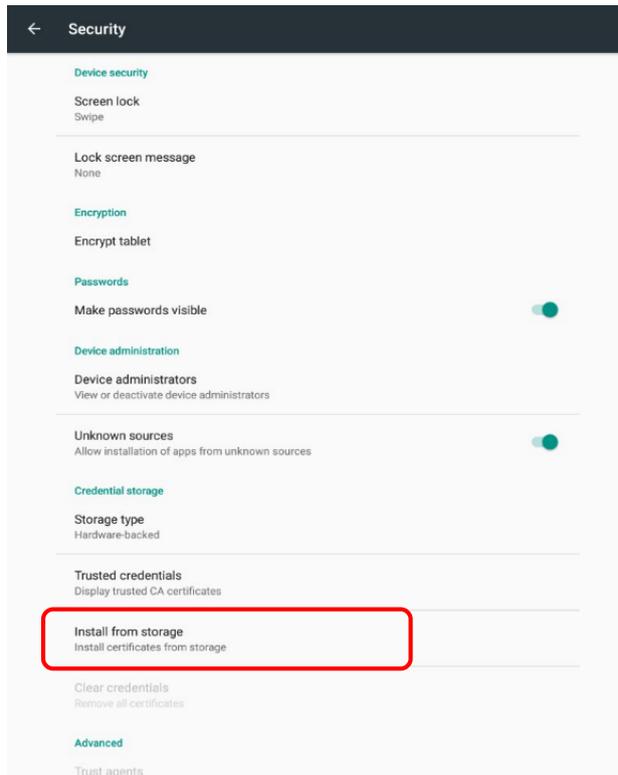
2 Select and tap "Internal Storage", then tap "Download" to select.
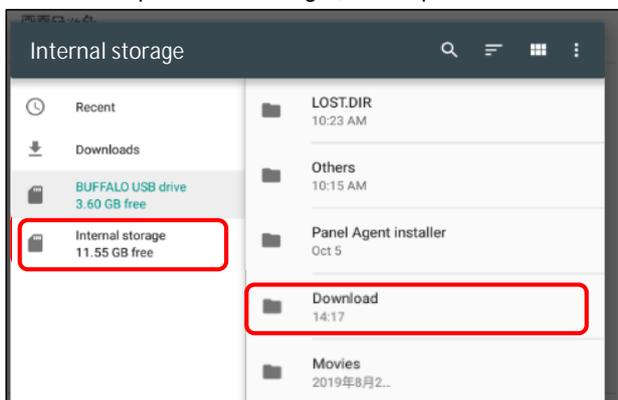
3 Tap the route certificate prepared as a part of the Precondition.
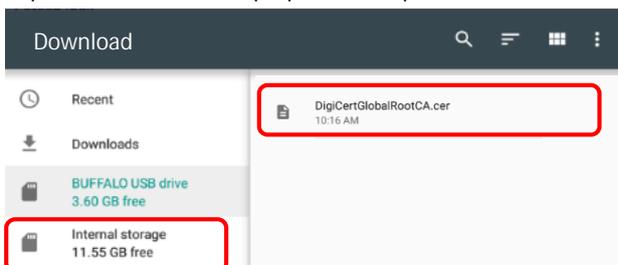
4 Manually enter the name of the certificate, select "VPN and Application" under Use of Authentication Information, then tap "OK".
The message "Installing DigiCertGlobalRootCA.cer " will then be displayed at the bottom of the screen.
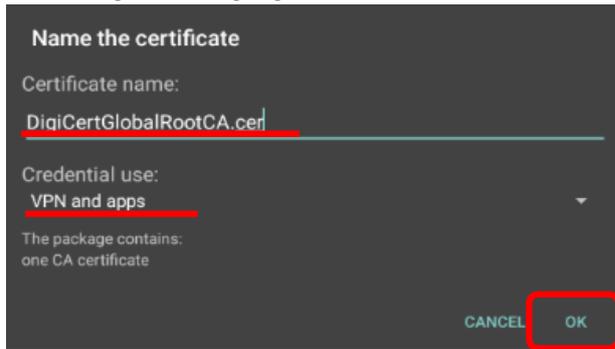
* Tap "OK" and when the "Caution" dialog box is displayed, the installation of the route certificate will not be possible if the method for releasing the Screen Lock is other than "Pattern", "PIN" or "Password" and in such instances the "Caution" dialog box is displayed.
Perform setting for the lock releasing method according to the procedure described below:
1) Tap "OK" in "Precaution" dialog box to set the lock releasing method.

2) Select one from the three options of "Pattern", "PIN" and "Password".

3) Tap to select "Display All Notification Details" for the display setting of notifications, then tap "Done".
The message "Installing DigiCertGlobalRootCA.cer " will then be displayed at the bottom of the screen,
then display returns to the Security screen.
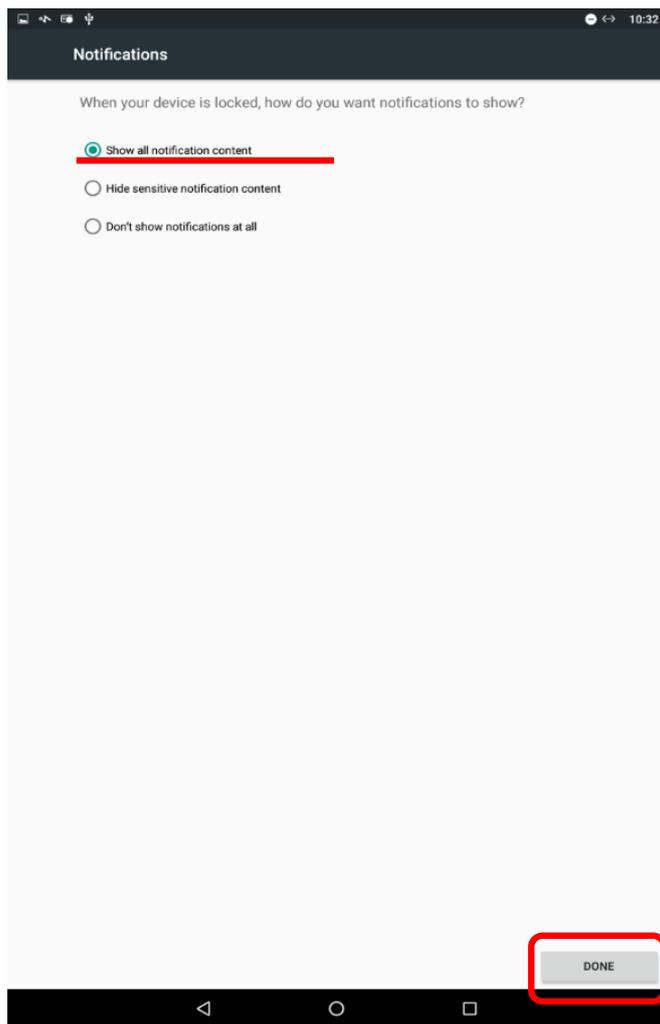
5 The installed certificate is stored for the User in the "Reliable Authentication Information" in the Security.
 * Certificates that are already registered on the system as "Reliable Authentication Information" are not registered for the
User.

6 If setting of the set lock releasing method is not needed, perform the change with "Screen Lock" in the Security.

Installation Method for Route Certificate of Server Certificate

Installation method (Lenovo Tab M10 Android 9.0)

1 Open "Security & location" in Settings and tap "Encryption & credentials".
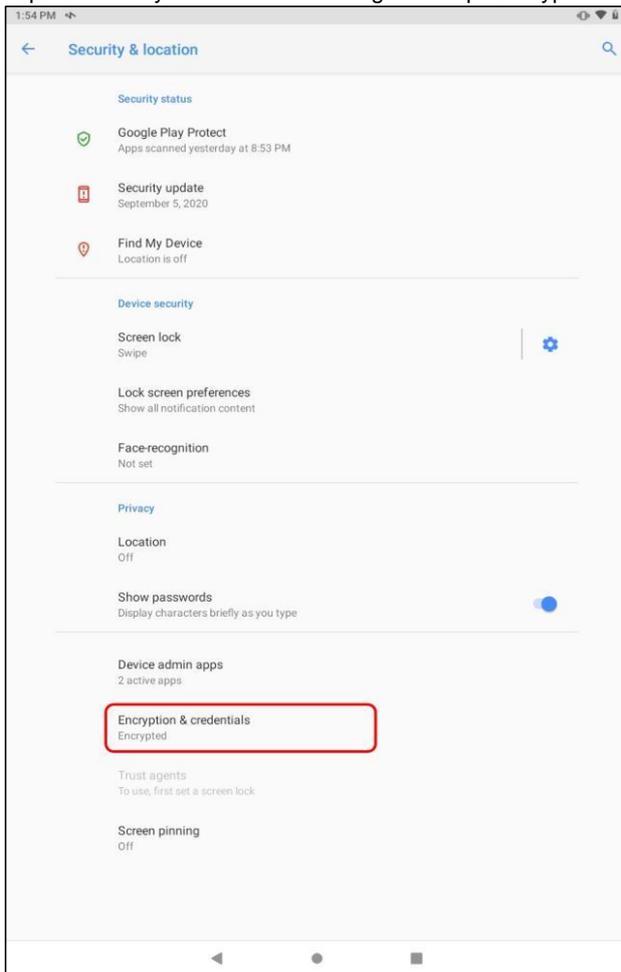
2 Tap "Install from SD Card" and tap the route certificate prepared as a part of the Precondition.
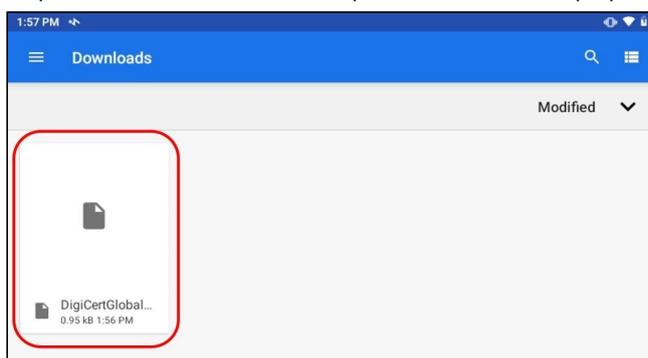
3 Manually enter the name of the certificate, select "VPN and apps" under Use of Authentication Information,
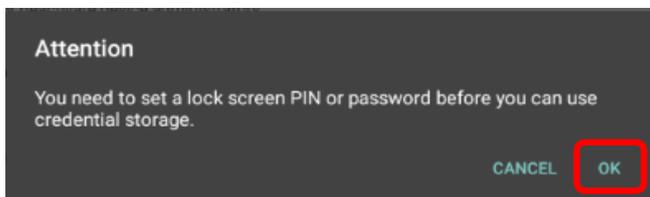then tap "OK".
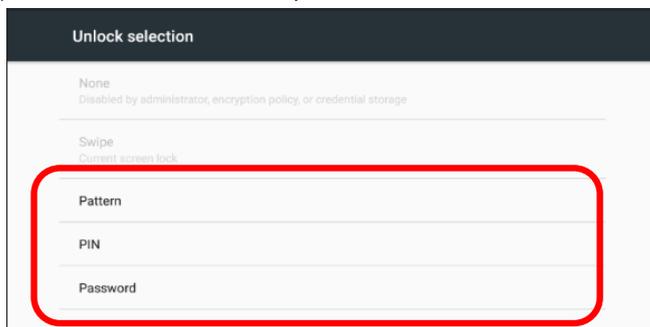The message "Installing DigiCertGlobalRootCA.cer " will then be displayed at the bottom of the screen.

Name the certificate

Certificate name:

DigiCertGlobalRootCA.cer

Credential use:
VPN and apps ▼

Note: The issuer of this certificate may inspect all traffic to and from the device.

The package contains:
one CA certificate

CANCEL   **OK**
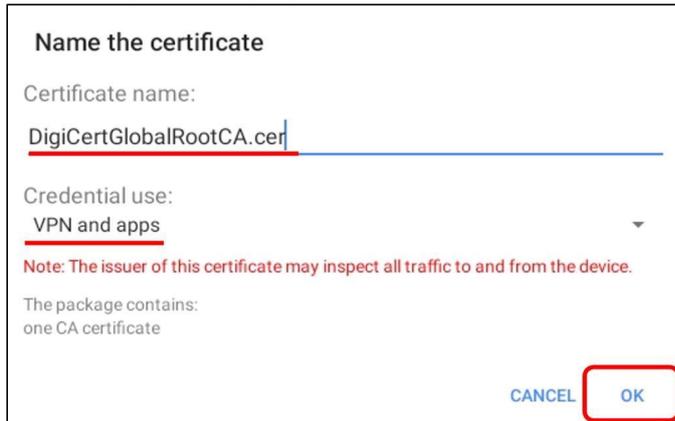
* Tap "OK" and when the "Caution" dialog box is displayed, the installation of the route certificate will not be possible
if the method for releasing the Screen Lock is other than "Pattern", "PIN" or "Password" and in such instances the
"Caution" dialog box is displayed.
Perform setting for the lock releasing method according to the procedure described below:
1) Tap "SET LOCK" in "Precaution" dialog box to set the lock releasing method.
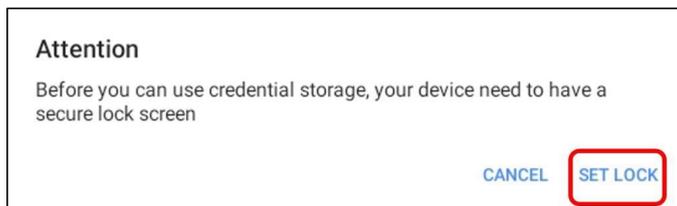
Attention

Before you can use credential storage, your device need to have a
secure lock screen

CANCEL   **SET LOCK**

2) Select one from the three options of "Pattern", "PIN" and "Password".

2:00 PM

← Choose screen lock   🔍

None

Swipe
Current screen lock

Pattern

PIN

Password

3) Tap to select "Show all notification content" for the display setting of notifications, then tap "DONE".
The message "Installing DigiCertGlobalRootCA.cer " will then be displayed at the bottom of the screen, then display returns to the Security screen.
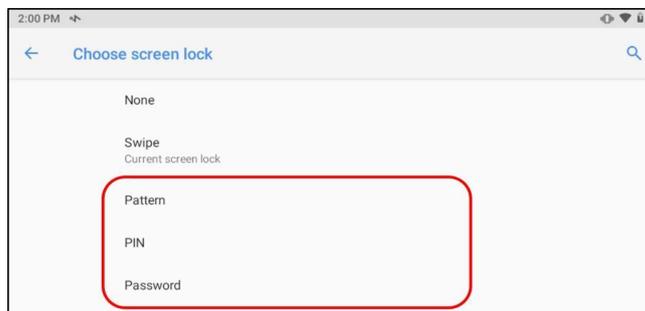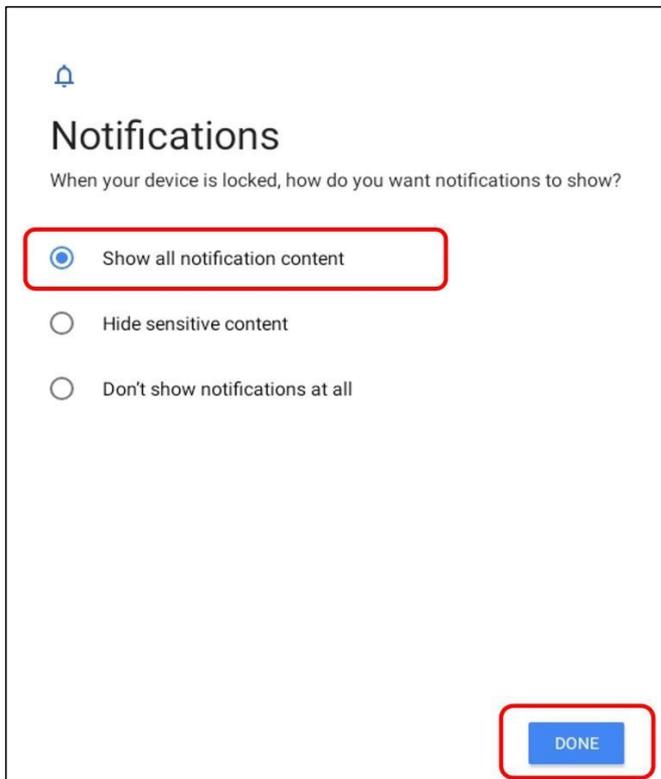

4 The installed certificate is stored in "User Authentication Information" in Encryption and Authentication".
  * Even those certificates that are already registered on the system as "Reliable Authentication Information" are also registered for the User Authentication.
5 If setting of the set lock releasing method is not needed, perform the change with "Screen Lock" in the Security and Current Location Information.

Verification method (TD520 Android 6.0)

Verification method (TD520 Android 6.0)

1 Open "Security" in Settings and tap "Reliable Authentication Information".
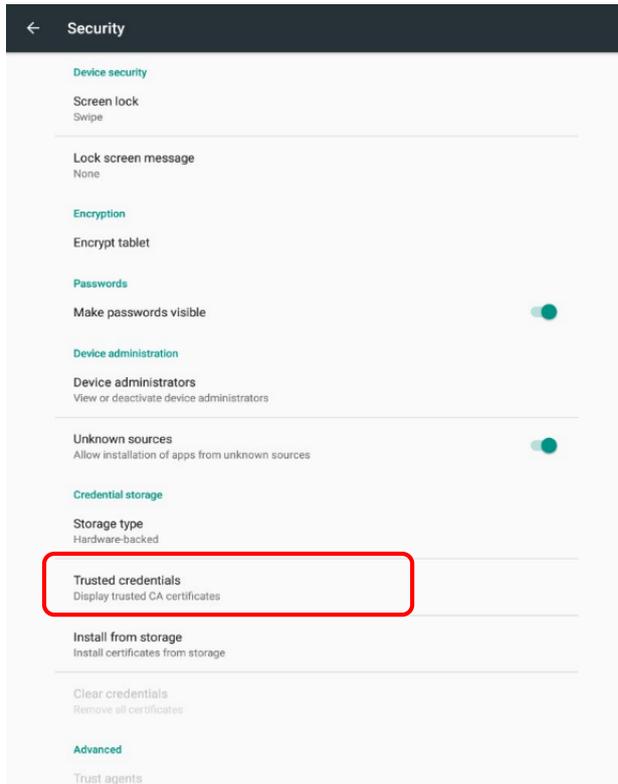
2 Select and tap "System" and verify that the switch for "DigiCert Global Root CA" is enabled.
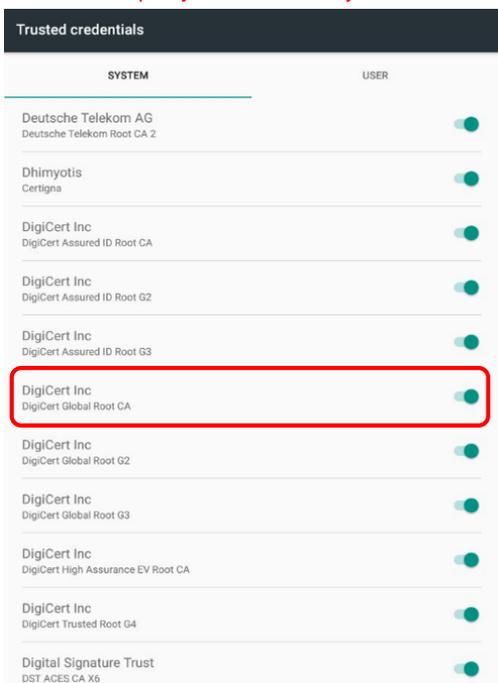
3 Tap "DigiCert Global Root CA" and verify that the certificate information is installed.
  Refer to "Panel Agent Installation Manual" (a separate document) for details.

Security certificate
DigiCert Global Root CA   ▾

Issued to:

Common name:
DigiCert Global Root CA

Organization:
DigiCert Inc

Organizational unit:
www.digicert.com

Serial number:
08:3B:E0:56:90:42:46:B1:A1:75:6A:C9:59:91:C7:4A

Issued by:

Common name:
DigiCert Global Root CA

Organization:
DigiCert Inc

Organizational unit:
www.digicert.com

Validity:

Issued on:
11/10/06

Expires on:
11/10/31

Fingerprints:

SHA-256 fingerprint:
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:
89:34:A4:43:C7:01:61

SHA-1 fingerprint:
A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36

DISABLE

OK

Verification method for route certificate (Lenovo Tab M10 Android 9.0)

Verification method (Lenovo Tab M10 Android 9.0)

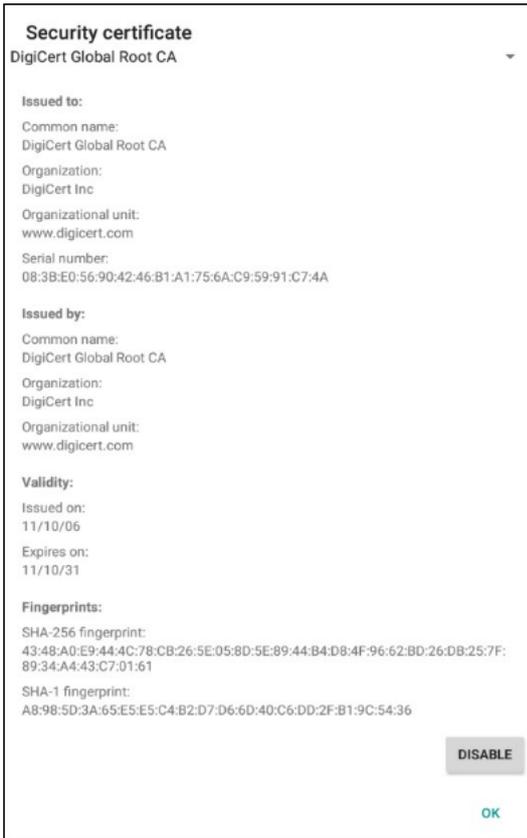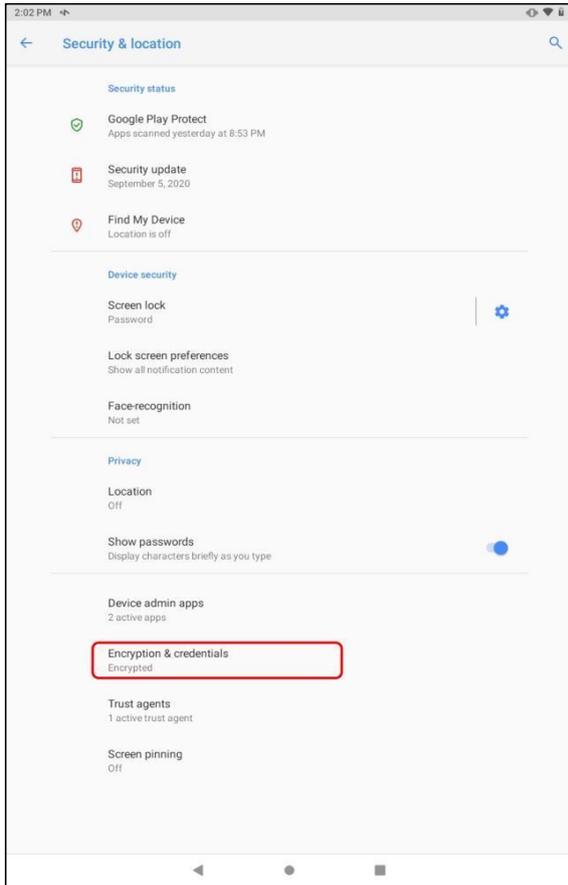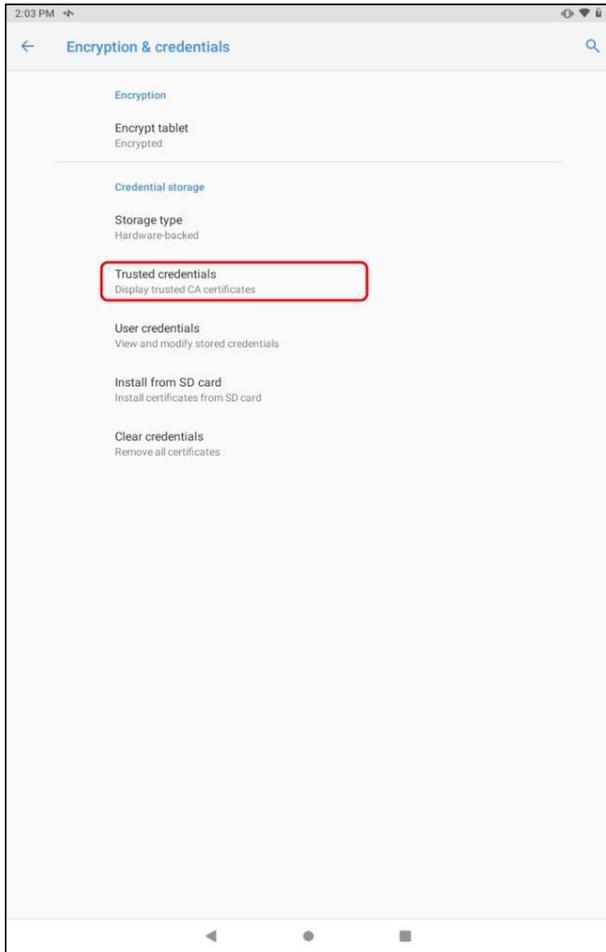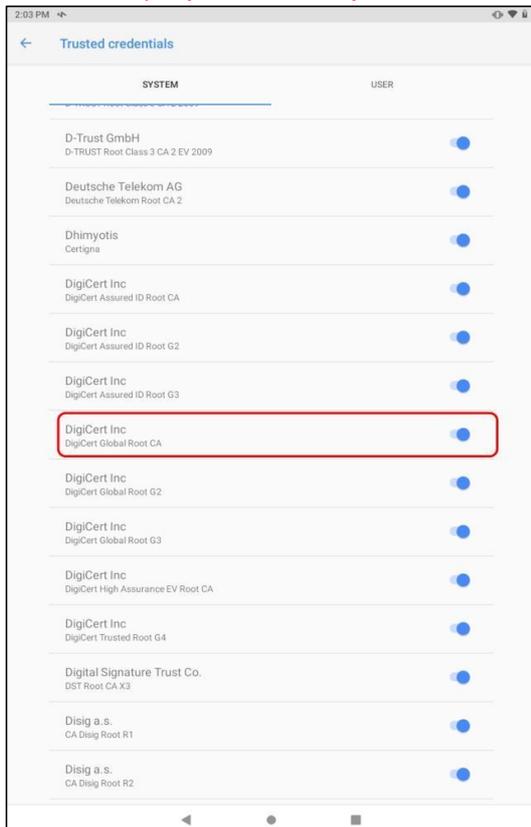**1** Open "Security & location" in Settings and tap "Encryption & credentials".

2 Tap "Trusted credentials".

3 Select and tap "System" and verify that the switch for "DigiCert Global Root CA" is enabled.

4 Tap "DigiCert Global Root CA" and verify that the certificate information is installed.
Refer to "Panel Agent Installation Manual" (a separate document) for details.

Security certificate
DigiCert Global Root CA ▾

Issued to:

Common name:
DigiCert Global Root CA

Organization:
DigiCert Inc

Organizational unit:
www.digicert.com

Serial number:
08:3B:E0:56:90:42:46:B1:A1:75:6A:C9:59:91:C7:4A

Issued by:

Common name:
DigiCert Global Root CA

Organization:
DigiCert Inc

Organizational unit:
www.digicert.com

Validity:

Issued on:
Nov 10, 2006

Expires on:
Nov 10, 2031

Fingerprints:

SHA-256 fingerprint:
43:48:A0:E9:44:4C:78:CB:26:5E:05:8D:5E:89:44:B4:D8:4F:96:62:BD:26:DB:25:7F:
89:34:A4:43:C7:01:61

SHA-1 fingerprint:
A8:98:5D:3A:65:E5:E5:C4:B2:D7:D6:6D:40:C6:DD:2F:B1:9C:54:36

DISABLE   OK