

Android Introduction

2.3.05 Data Encryption using TLS

Prerequisite

- [Configure Liquid UI Server](#)
- [Configure Liquid UI Client](#)
- A valid X.509 certificate to support directory access control

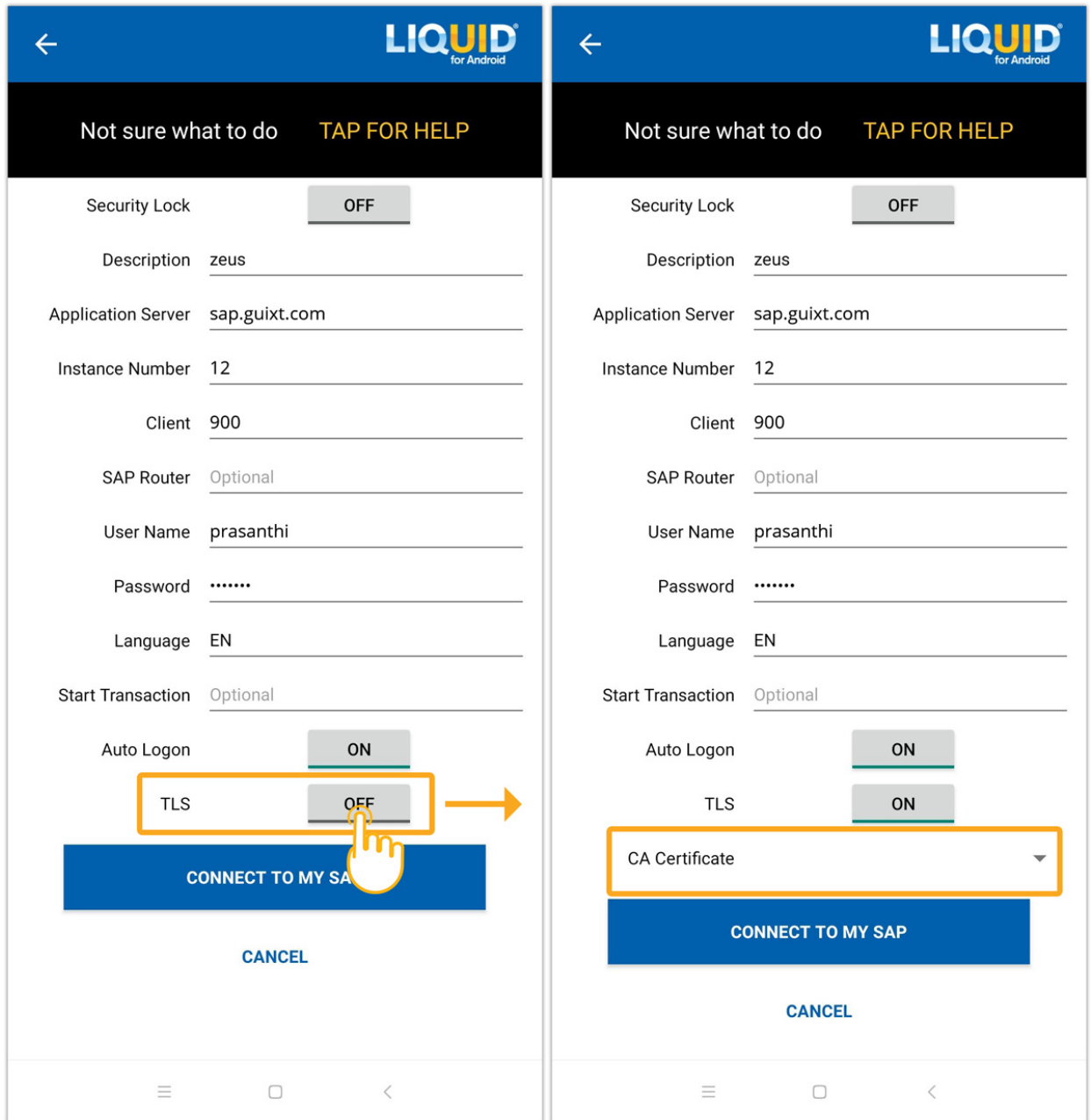
Liquid UI provides a completely secure communication channel between your SAP Server and the Liquid UI for Android on your device. The Liquid UI for Android uses TLS 1.3 encryption to ensure the security of the communication channel.

Liquid UI has designed a function in its library to verify whether the encryption key is associated with the function while receiving the data package from the server, which also ensures the security of your data. For an identified encryption key, we will establish a secure connection flag and initialize the TLS state. In addition, TLS 1.3 handles socket communication.

Please follow step-by-step guidelines to enable TLS on the Android device: enable TLS on Android, please do the following:

1. Launch the Liquid UI for Android App on your device.
2. Select the Liquid UI Connection setting screen and select the Edit connection option.
3. Scroll down to the TLS option and tap on the control to **ON** position.

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4. When you enable the TLS option, the CA certificate option is displayed. Click on the drop-down to choose a certificate. A click on choose certificate option displays a message dialogue box to upload the certificate. From the available CA certificate options, select the certificate and click on select, as shown in the image below.

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LIQUID for Android

Not sure what to do TAP FOR HELP

Security Lock OFF

Description zeus

Application Server sap.guixt.com

Instance Number 12

Client 900

SAP Router Optional

User Name prasanthi

Password

Language EN

Start Transaction Optional

Auto Logon ON

TLS ON

CA Certificate

Choose Certificate

CANCEL

LIQUID for Android

Security Lock OFF

Description Required

Application Server Required

Instance Number

Choose certificate

The app Liquid UI has requested a certificate. Choosing a certificate will let the app use this identity with servers now and in the future.

XMPassport

CN=Database/O=Xiaomi Corporation

DENY SELECT

Auto Logon OFF

TLS ON

CA Certificate Choose Certificate

CONNECT TO MY SAP



Note: Upon selecting the certificate, information gets saved into a file from the Server. This helps to connect a server with TLS.

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5. After selecting the certificate, the CA certificate option in the setting displays the certificate applied, as shown below:

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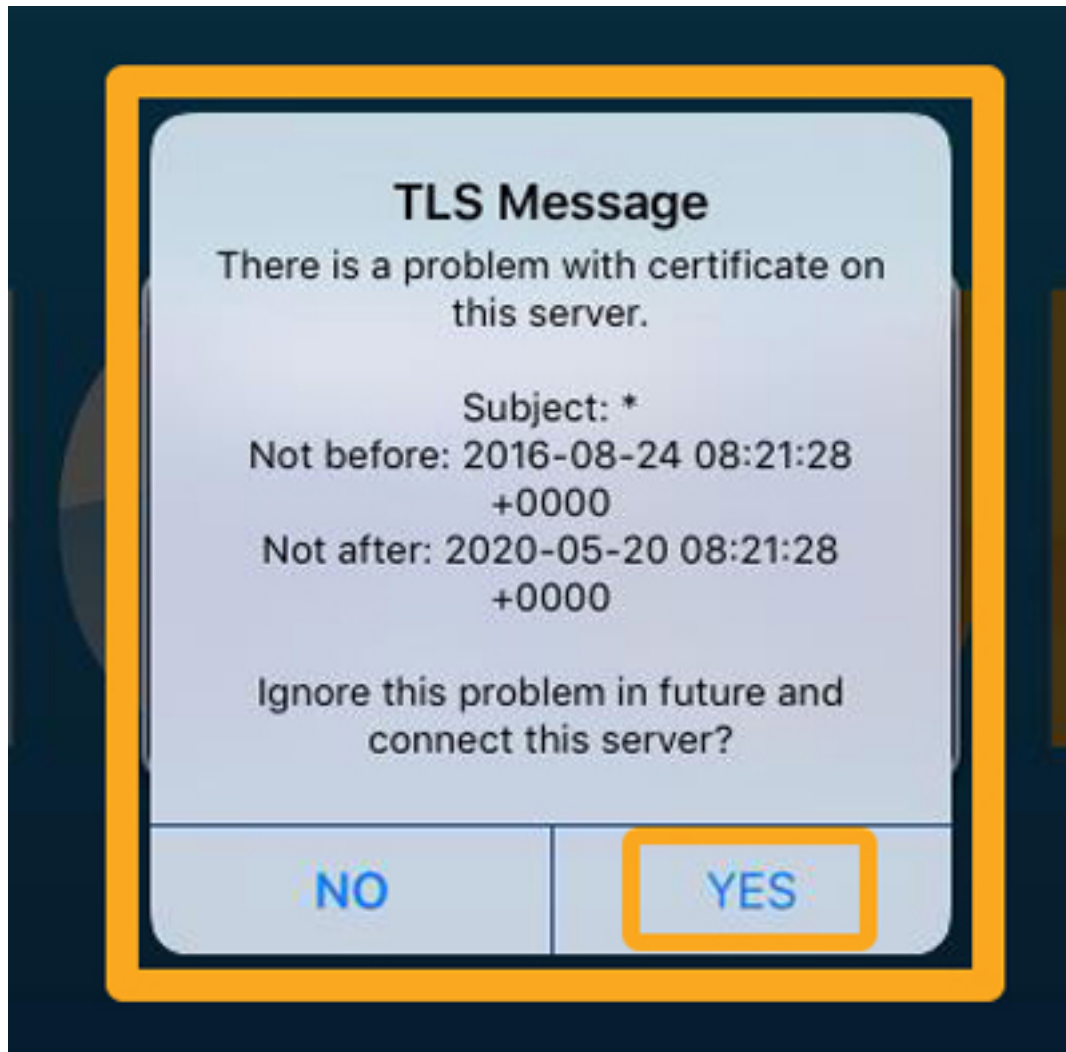
Description	Juneau
Application Server	sap.guixt.com
Instance Number	12
Client	900
SAP Router	Optional
User Name	Prasanthi
Password
Language	EN
Start Transaction	Optional
Auto Logon	<input type="button" value="OFF"/>
TLS	<input type="button" value="ON"/>
CA Certificate	XMPassport

CONNECT TO MY SAP

CANCEL

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6. In case of any trouble with certificate information, an error message pops up, as shown below. Click **Yes** to connect the certificate to the Server and resolve the certificate validation issue. This also updates the local certification lists.



To know more about end-to-end security for your SAP using TLS, [click here](#).

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