



Document:User Manual

Project: Group Chat For Linphone (Agile DO-178)

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1 Introduction

This user manual provides instructional support and guidance to help the users who use Linphone-android. The manual focuses on system configuration, installation, using the system, troubleshooting, etc.

2 General Information

2.1 Project Details

System name affiliation of all stakeholders	
System name	Linphone Group Chat
Stakeholder	Kobus Coetzee
Scrum master	Potego Mello
Client representative	Patience Mtsweni
UX developer	Lutfiyya Razak and Lerato Molokomme
Backend developer	Ephiphania Munava and Potego Mello
Crypto developer	Tsepo Ntsaba
CI / CD support	Patience Mtsweni

2.2 System Overview

The system we are working on is called Linphone. We are supposed to add an additional functionality to an already existing project. The main aim of the functionality we are developing in the Linphone project is to allow a group of users to be able to communicate or exchange messages with each other. This functionality is achieved by creating a group chat where there will be an interface that allows those messages to be exchanged and viewed. A participant can send messages and pictures to a group, send voice recordings, update the group picture and change the group name. A participant can become an administrator in the group - usually this is the person who creates the group, who is responsible for adding and removing other participants.

2.3 System Configuration

2.3.1 Equipment

An Android phone is a smartphone that runs on Google's open-source Android operating system. There are a number of different manufacturers that make Android phones, namely HUAWEI, LG, ASUS, acer, Virgin mobile, Samsung, Motorola, Sony and many more.



Figure 1: Android Phones.

2.3.2 Network

The linphone application requires registration to a SIP provider before you can operate it. This ensures that you have a SIP address which is a Uniform Resource Identifier also known as a URI which is represented in the form `user@domain.tld`.

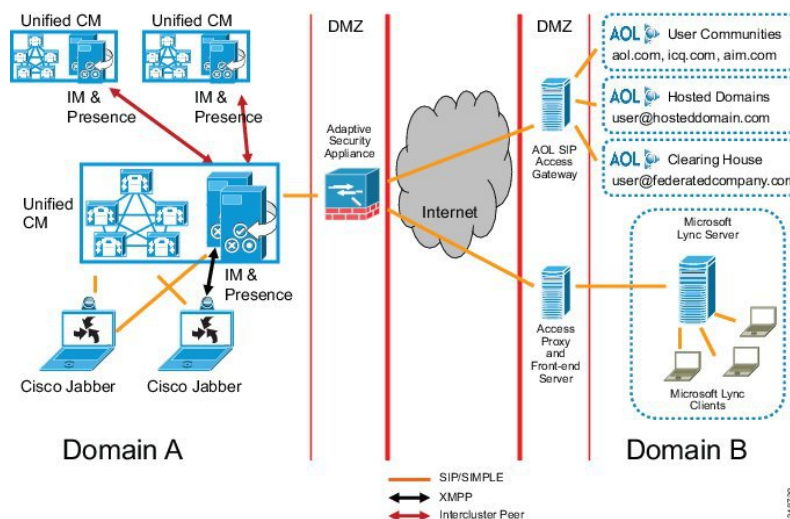


Figure 2: SIP Protocol.

2.4 Installation

- Turn on your Android Smartphone and click on the Google Play icon to launch Google Play.
- Tap the Search button in the upper right corner and type Linphone
- From the result list tap the result with the title Linphone Video to expand it
- Tap the Install button, Linphone for Android will be downloaded and the installation procedure will begin
- Confirm that you accept the Linphone application rights on the screen that will be appear on your Smartphone by tapping Accept. When the file installation is done tap Open.
- Press Agree when the License Agreement appears on your screen to finalize the install and start Linphone for Android.

2.5 Getting started

Our system is a group chat which is part of an existing Instant Messaging Application called Linphone. Therefore, for a you to access our system you need to have downloaded the application onto your android mobile device. To do this, refer to section 2.4 (Installation) and follow the instructions as specified there. After installing Linphone onto your phone, you need to register in order to be able to use the application. You can register by following these steps:

- Click on the "Settings" button on the bottom right corner. After clicking it, the following screen will appear:

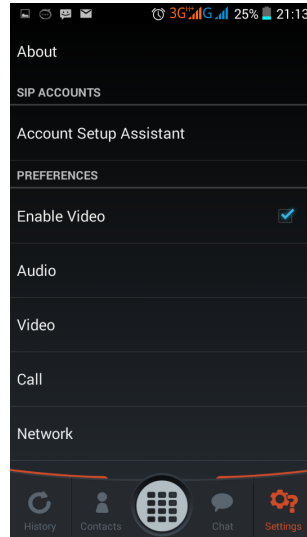


Figure 3: Settings

- Click/press "Account Setup Assistant". After clicking it, you will see the screen as shown by figure 4, in this screen click "Let's go" to go to the next screen.

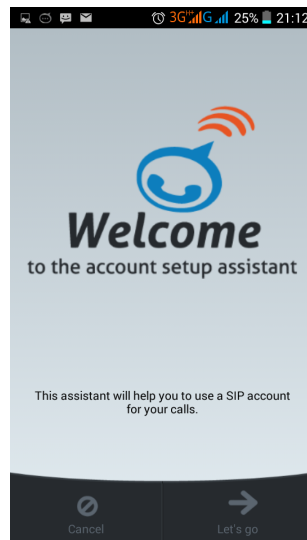


Figure 4: Account Setup Assistant

- Next, click on any one of the following that are applicable to you, for example, if you do not have a linphone.org account, you should click/press "Create an account on linphone.org". The following screen will appear, when it does, fill your details and click "create".

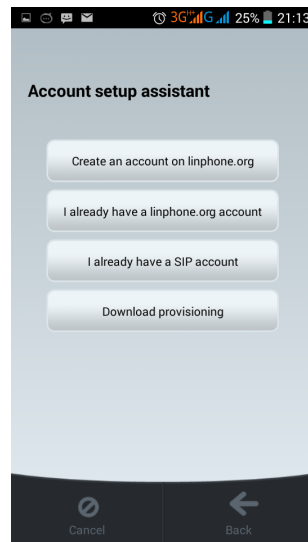


Figure 5: Create Account

After following these steps, you will be registered and ready to use the application. (Note, that after registering you will need to verify your account by clicking on the link that will be in the e-mail sent by linphone.org to your email address).

Now that you are registered, follow these steps to access the group chat:

- Click/press "chat".

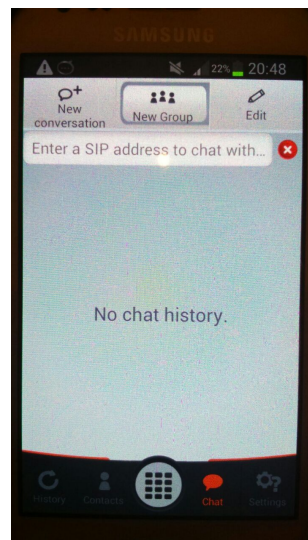


Figure 6: Chat Screen

- Click/press "New Group". As shown at the top of figure 6. After clicking it, the following screen will appear:

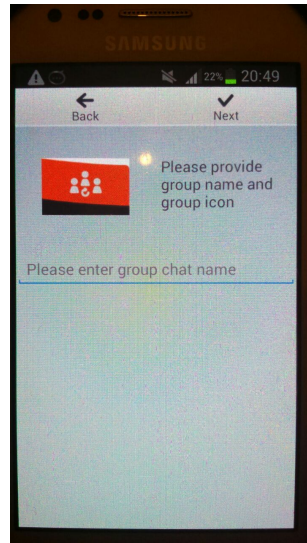


Figure 7: New Group Screen

- Enter your group name in the space provided and choose an icon/profile picture(optional), as shown in figure 7, to proceed to next screen.
- Click "next" on figure 7 to go to the following screen:

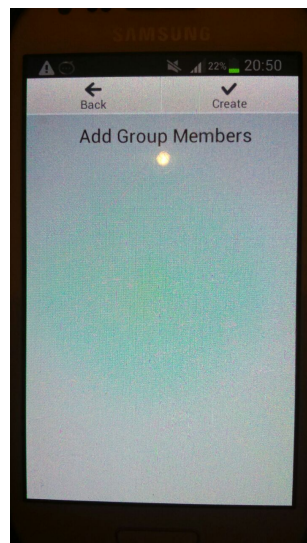


Figure 8: Chatroom screen

2.6 Using the system

2.7 System Configuration