



Document:User Manual

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

Date: August 3, 2015



Patience Mtsweni, Lerato Molokomme, Tsepo Ntsaba, Mpedi Mello, Lutfiyya Razak, Ephiphania Munava

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 adding 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. The provider 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`.

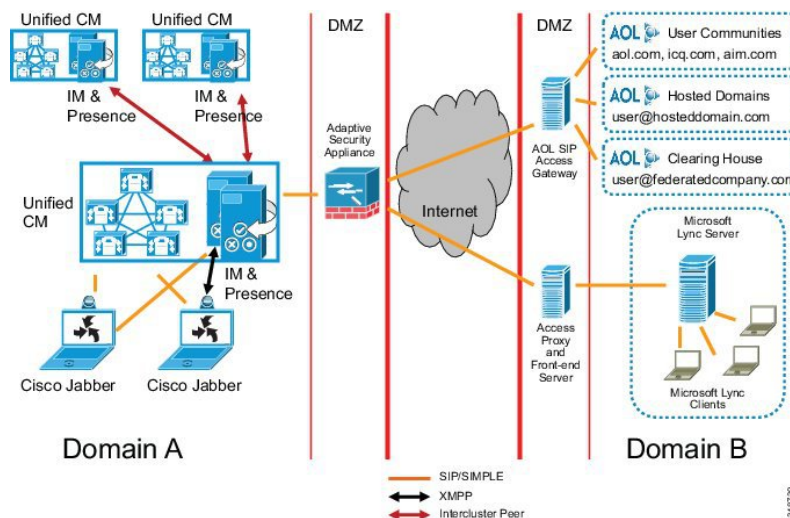


Figure 2: SIP Protocol.

Linphone.org hosts a free SIP service which allows users to make audio or video calls using SIP addresses under the domain `sip.linphone.org`. When creating your sip address like `sip:baobab@sip.linphone.org` you simply use the form provided on <http://www.linphone.org/free-sip-service.html> and your friends can communicate with you by simply making use of the sip address.



Figure 3: Linphone SIP Registration.

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

2.6 Using the system

2.7 System Configuration