

0 - Introduction

The present manual offers a guide to manage the **PrivateServer** that (among **PrivateWave** clients) composes the **Enterprise Voice Security Suite** : the solution that ensures the safety and inviolability of voice communications on both mobile and fixed phones by offering a secure voice convergence system in a corporate network.

Requirements

An installed and on-line **PrivateServer** .

Goals

The present manual is intended for a Secure VoIP Service Administrator. It explains how to manage the day-by-day procedure for:

- [Create and manage Secure VoIP users and groups](#)
- [Perform Automatic Activations through Provisioning](#)
- [Manage Secure Conference Rooms](#)
- Handle with the [Administrative Roles and Users](#)
- [Find and read the logs](#)

Intended audience

This guide is intended for PBX administrators who will provide secure call service by PrivateServer . No specific background is needed

This manual won't explain how to install the server itself. For such knowledge please refer to the **PrivateServer Administration Manual**.

Glossary

PBX

A **Private Branch Exchange** (PBX) is a telephone exchange that serves a particular business or office, as opposed to one that a common carrier or telephone company operates for many businesses or for the general public.

PBXs make connections among the internal telephones of a private organization—usually a business—and also connect them to the public switched telephone network (**PSTN**) via **trunk** lines.

Trunk

A **trunk line** is a circuit connecting telephone switchboards (or other switching equipment), as distinguished from local loop circuit which extends from telephone exchange switching equipment to individual telephones or information origination/termination equipment.

When dealing with a **Private Branch Exchange (PBX)**, trunk lines are the phone lines coming into the **PBX** from the telephone provider. This differentiates these incoming lines from **extension** lines that connect the **PBX** to (usually) individual phone sets.

Extensions

A **telephone extension** is an internal telephone line attached to a Private branch exchange (PBX). The PBX operates much as a community switchboard does for a geographic telephone numbering plan and allows multiple lines inside the office to connect without each phone requiring a separate outside line. In these systems, a dialer usually has to dial a number to tell the PBX to connect with a landline to dial an external number. Within the PBX, the user merely dials the extension number of the person. Each phone line may be extended up to a fixed maximum.

Secure Call

A **Secure Call** is a voice connection which can't be wiretapped and it runs over Voice Over IP (VoIP) communication protocol.



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PrivateServer

PrivateServer is the **PBX** committed to perform **Secure Calls** both **end to end** and **end to site**. It differs from a standard **PBX** for exposing just the **Secure Call** service to VoIP **PrivateWave** clients and can be connected to a standard **PBX** via **SIP Trunks** if configured accordingly.

PrivateWave

PrivateWave is the **VoIP client for Secure Calls** connections. It has to be used along with **PrivateServer** .



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Jitter

In VoIP systems audio signal is split into multiple packets, which are sent over network. Due to network equipment behavior, packets flow is never regular and constant. Especially on mobile/radio networks packets are delivered in bursts, leading to irregular and variable latency. **Jitter** is the variation in latency as measured in the variability over time of the packet latency across a network.

Automatic Activation

The **Automatic Activation** is the way of create new users automatically without any need they interact with anybody. As from user's side the procedure is that he/she gets first an **invite SMS** or **E-Mail** useful to download the application **PrivateWave** and then a **configuration SMS** or **E-Mail** which provides automatic configuration of the client itself. All the user has to do is to follow the links into both the Texts/E-mails and **PrivateWave** would go automatically on line.

Provisioning

The **Provisioning** is the configuration needed for delivering both for the **PrivateWave** application and its configuration and nowadays it's used by the **Automatic Activation** only.

Presence

The **Presence** is how we call the user's status, also known as the user's reachability. By checking an user's **Presence** it is possible to know if a he/she is on line and can receive a secure call before trying to.

Audio Messaging

The **Audio Messaging** is the means used by **PrivateWave** for communicating to an user about the failed calls. You have several messages that can be spoken and each of them can be localised in English, French, Italian, Spanish and German.

Secure Message

Secure Message is a text message that can be sent and received only by using **PrivateWave** and that shares the same communication infrastructure of **Secure Call**. The maximum length of each message is 160 character.

Call Roaming

Call Roaming is specific configuration set up by default on both **PrivateServer** and **PrivateWave** . It let any call to continue even if one network change event occur (e.g: wi-fi network got lost in favour of 3g data mobile one). During network change itself the call is muted but as soon as any connection is again available, then voice stream is back streaming. Call roaming is subject to **Strictrtp** and **Rtp timeout** options in **PrivateServer** .

Caveat

The figures in this document are solely for illustrative purposes. They give you an idea about the essential information you are supposed to see on the screen while executing the test cases. However the layout of the screen and the details of the information may be changed in subsequent revisions of the software and these modifications are not obligatory reflected in this document. When considering whether a test case passed or not, you should relay only on the textual description of the test case.