

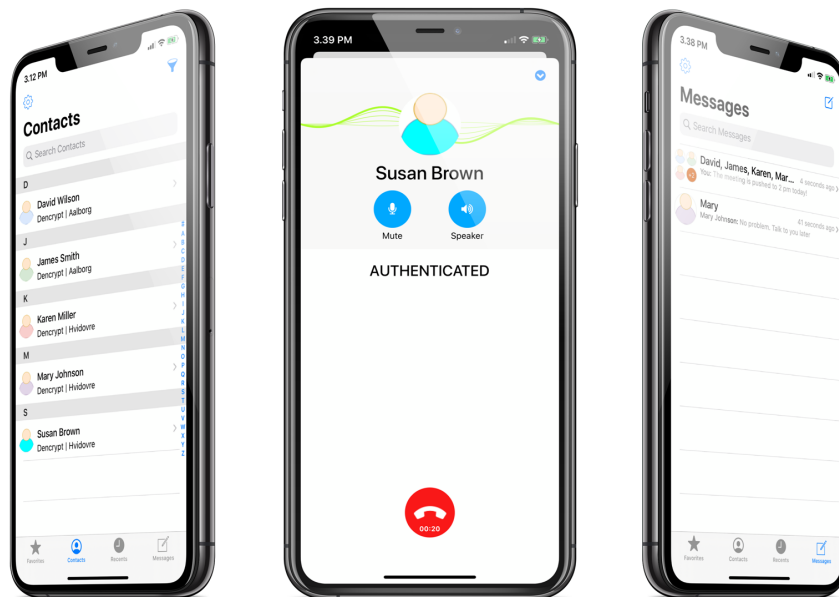


Dencrypt Communication Solution

Dencrypt Connex v.6.0

Preparative guide

Version 2.11



08 July 2020

Public

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1 Product versions

This document is applicable for:

- Dencrypt Connex v. 6.0 for iOS

2 Introduction

This guide is intended for end-users of Dencrypt Connex received from Apple app stores and provides instructions on how to receive and install Dencrypt Connex in a secure way.

3 Security instructions

The Dencrypt applications connect to the Dencrypt Server System, which shall:

- be installed and operated in a physically secured IT-environment; be working properly and be operated by trusted and trained personnel only. Please refer to [1] for guidance on securing and configuring the IT-environment.
- shall be configured to deliver activation links by email for user provisioning using the organisation's internal mail server, so the emails are delivered in a secure way and the link is not disclosed to any other persons than the intended user.
- ensures that the activation link is one-time and only valid for a limited period.

For end-user instructions on how to securely operate the Dencrypt applications, refer to the Operational User Guide [Receiving documentation 5].

4 Deliverables

A Dencrypt Connex delivery consists of:

- Application itself, available from (Figure 1):
 - Apple Appstore for direct installation to the end-user device.
 - Apple Volume Purchase Program (VPP) for installation to the end-user device via an MDM.
- Documentation:
 - Preparative guide: *Dencrypt_Connex_Preparative_Guide.pdf* (this document).
 - Operational User Guide: *Dencrypt_Connex_Operational_User_Guide.pdf*.

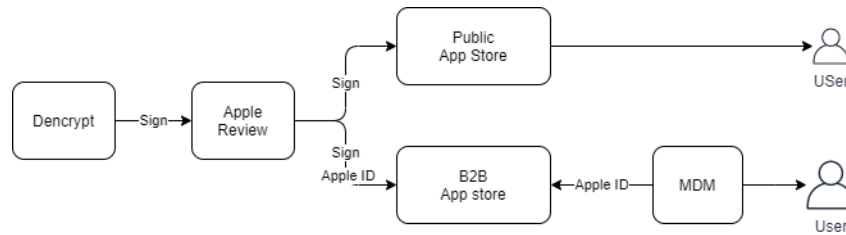


Figure 1: Distribution options.

The documentation components are available for download from <https://www.dencrypt.dk/downloads>, which also contains links to the application on the public appstores.

5 Receiving documentation

The end-user shall be familiar with both documents and have understood the security instructions before taking the application into use.

Receive documentation

Step 1: Download the user guides from [dencrypt.dk/downloads](https://www.dencrypt.dk/downloads) or receive them from the system administrator.

(a) Dencrypt Connex - Preparative Guide.pdf (this document)

(b) Dencrypt Connex - Operational User Guide.pdf

Step 2: Verify that the documentaion applies for the intended application, platform and version. This information is available from Product Versions section.

6 Receive applications from Apple app stores

First time installation

Step 1: Locate the application in the public app store by searching the application name or use the links from [dencrypt.dk/downloads](https://www.dencrypt.dk/downloads).

Step 2: Verify that the version number in the app store matches the version number published on [dencrypt.dk/downloads](https://www.dencrypt.dk/downloads).

Step 3: Tap Get to download and install the app. Only the latest version is available.

Step 4: Complete the activation process as described in the Operational User Guide.

Once installed, the app is per default updated automatically, when a new version becomes available on the public appstores. Dencrypt will notify system administrators of any new version, which in turn will notify the end-users.

The application version can always be verified from the Settings menu in the application. Refer to the Operational user guide for details.

7 Receive Dencrypt Connex from Apple VPP via MDM

Applications may also be published as a custom B2B-application by Apple's *Volume Purchase Program (VPP)* [5] to be installed on end-user devices via a Mobile Device Management (MDM) system.

First time installation (Apple VPP)

- Step 1: The application is automatically pushed to the end-user devices from the MDM. Only the latest version is available.
 - Step 2: Complete the activation process as described in the Operational User Guide.
-

8 Link a Dencrypt Connex release to an MDM

This section is intended for system administrators distributing Dencrypt Connex via an MDM.

8.1 Prerequisites

The following preconditions regarding the MDM shall be observed before installing and taking the Dencrypt applications into use:

- The MDM-system shall be configured to accept iOS applications.
- End-user devices shall be enrolled to the MDM-system in supervised mode. The devices shall be *company owned*.
- Each end-user device shall have an email account to which emails can be sent for secure provisioning . Alternatively, provisioning may be performed using QR-codes .
- Ensure that the MDM device policy requires encrypted backups.
- Ensure that the MDM system preserves the version number.

8.2 Receiving a B2B applications from Apple VPP

The following actions are required to get a custom B2B Dencrypt applications through Apple's Volume Purchase Program (VPP).

Receive an application from Apple VPP

- Step 1: Enrol as a member of Apple's Volume Purchase Program [5]
 - Step 2: Provide the VPP enrolled Apple-ID to Dencrypt.
 - Step 3: Deploy an MDM system where the VPP enrolled Apple ID is used to sign into the B2B App Store.
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The following sections describes the steps in more detail.

- **Enrolment to Apple's Volume Purchase Program.**

The Volume Purchase Program by Apple [5,] offers corporate customers to automate device deployment, purchase, and distribute content. The Customer organisation must sign-up for the Apple Volume Purchase program. Please refer to [6] for more information about VPP enrolment.

- **Provide VPP enrolled Apple ID.**

When Dencrypt distributes the Dencrypt Talk application through VPP, a VPP enrolled Apple-ID specifies the receiver of the custom B2B application. It is possible to share a B2B application between several organisations by relating multiple Apple IDs to the same application.

- **Deploy an MDM System with VPP Apple ID.**

The MDM system shall be associated with the VPP membership account. Thus, the MDM system shall sign into Apple services with the VPP enrolled Apple ID.

8.3 Installation guidelines

These sections provide guidelines for a secure installation or update of the Dencrypt applications to the organization's MDM-system and for distributing the application to end-users. Most modern MDM-systems have automated procedures for installing and updating an app. Hence some of the actions listed in these guidelines may be inherently performed by the MDM-system.

8.3.1 Installation and deployment - iOS

Once the Dencrypt VPP applications are published by Apple, the following steps are required by the system administrator to install and deploy the app to end-users (please refer to the MDM manual for details):

Install and deploy iOS applications

- Step 1: Add the app to the MDM-system. Only the latest version of the app is available.
- Step 2: Verify the application name and version against the Dencrypt email notification.
- Step 3: Push the app to end-users. It is recommended to enable automatic updates to ensure that end-users always have the latest app version.
- Step 4: Verify that end-users have the correct application version installed. This can usually be verified by examining the device details from the MDM.
- Step 5: Repeat 2-4 for updating an existing application.

8.3.2 Customer root certificate

By default, a Dencrypt application applies only a Dencrypt root certificate. In case, the Dencrypt Server System applies a Customer provided root certificate, the MDM shall push a new set of root certificates to the applications.

The MDM distributed root certificate(s) replace the application pre-installed Dencrypt root certificate.

9 Provisioning

The Dencrypt applications are not activated before the end-user has completed the provision process.

The system administrator will create the user in the Dencrypt Server System and send an invitation email with an activation link (URL or QR-code). The end-user opens the email on the target device and taps the activation link to start the provisioning of the target device. The application will receive and install the configuration settings and phonebook. This may take a couple of minutes. Once completed, the application is ready for use. The activation-link can be used only once and will expire after a time period.

The activation link shall be delivered in a secure way using an encrypted email connection through a mail server controlled by the customer. If the invitation link is delivered in any other way, do not activate the link and contact your system administrator.

Refer to the Security Instructions in the Dencrypt Server System - Operational User Guide for secure enrollment of end-users.

10 Dencrypt Technical Support

Dencrypt technical support can be reached on:

- **Dencrypt Support portal:** <https://servicedesk.dencrypt.dk/servicedesk/customer/portal/1>
- **Email:** support@dencrypt.dk
- **Phone:** +45 7211 7911

References

- [1] Dencrypt, *Dencrypt Server System - Preparatory guide and hosting requirements*, Version 4.2, 2019.
- [2] Dencrypt, *Operational User Guide - Dencrypt Talk*, Ver 4.8, 2019.
- [3] Dencrypt, *Operational User Guide - Dencrypt Server System*, Ver. 4.2, 2019.
- [4] Apple, *Apple Deployment Programs. Device Enrollment Program Guide*, https://www.apple.com/business/docs/site/DEP_Guide.pdf.
- [5] Apple, *Apple Deployment Programs. Volume Purchase Program Guide*, https://www.apple.com/business/docs/site/VPP_Business_Guide.pdf.
- [6] Apple, *Distributing Custom Apps for Business*, <https://developer.apple.com/business/custom-apps/>.

Change History

Revision	Date	Author	Description
1.0	2017-08-31	SS	Released for version 4.2
1.1	2017-12-07	FDP	Change Dencrypt Talk version number.
2.0	2018-08-16	JC	Dencrypt Talk distribution only through VPP as public App Store or custom B2B application
2.1	2018-08-20	SS	Clarifications and use term <i>*public*</i> instead of <i>*standard*</i> for App Store application
2.2	2018-11-14	FWH, JC	Talk version 4.6
2.3	2019-10-02	JC	Talk version. 4.7
2.4	2019-10-09	JC	Convert to Markdown; Talk version. 4.8
2.5	2020-02-10	JC	MDM distributed root certificate
2.6	2020-03-17	SS	Converted to Latex. Made general for Talk and Message.
2.7	2020-03-23	SS	Updated for Android
2.8	2020-05-15	SS	Updated for DT iOS 4.9
2.9	2020-05-28	SS	Updated for Connex. Aligned with delivery guide
2.10	2020-06-30	SS	Updated based on atsec comments
2.10	2020-07-08	SS	Updated based on atsec comments