

DENCRIPT CONNEX

SECURE COMMUNICATION

Connex protects your conversations with state-of-the-art encryption over non-secure digital infrastructure such as WiFi hotspots, mobile networks and satellite links. Connex is a user-friendly application featuring end-to-end encrypted voice/video and messages. The app is delivered from app stores or a Mobile Device Management system.

FEATURES



Dynamic
Encryption



User-
friendly



Enterprise
or Cloud
solution

Security

- » Dynamic Encryption + AES-256
- » End-to-end encryption
- » Perfect Forward Secrecy
- » Trusted connections using TLS
- » Secure storage of chat history
- » Encrypted push notifications
- » Secure provisioning

Functionality

- » Encrypted voice/video calls
- » Encrypted instant messaging (IM)
 - » Text, photos, audio, location
 - » Time-constrained IM
- » Group calls and messaging
- » Administrator controlled Team rooms
- » Excellent audio quality
- » Centrally managed Phonebooks

Management Portal

- » Dencrypt Control Center (web interface):
 - » User and Call group management
 - » Feature configuration
 - » Certificate management incl. revocation

Connectivity

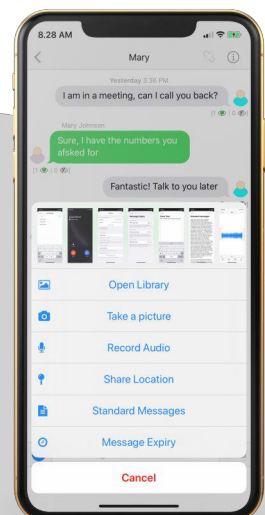
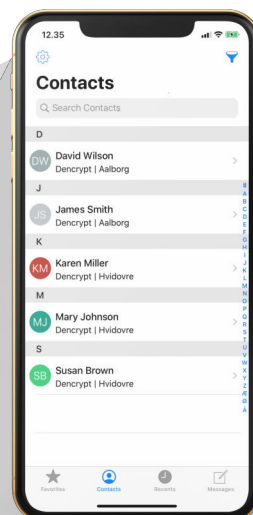
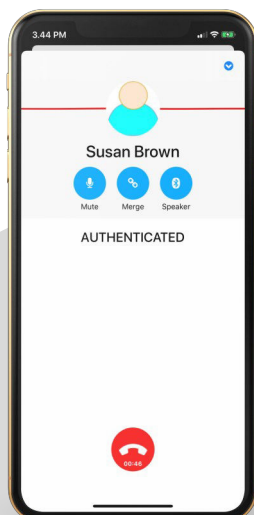
- » IP over 3G/4G/5G/WiFi/LAN

Platforms

- » iOS / iPadOS, Android, Windows and MacOS

Certifications

- » Common Criteria EAL4+ALC-FLR.2



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Technical Specifications

Voice & Data Encryption

Secure end-to-end encrypted voice and message communication using patented Dynamic Encryption ensuring that each call and message is encrypted with a randomly chosen algorithm and randomly chosen keys.

Voice

- » AES-256 + Dynamic Encryption in GCM, 384-bits
- » Key exchange over DTLS-SRTP:
 - » Cipher suite: TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
 - » Elliptic curve: secp384r1

Messages in Transit

- » AES-256 + Dynamic Encryption in GCM, 384-bits
- » Key exchange over X3DH + Double Ratchet
- » Elliptic curve: X448

Messages at Rest

- » AES-256 + Dynamic Encryption in GCM, 640-bits
- » Dual keys stored on device and server
- » Key exchange over mutually authenticated TLS

Push Notifications

- » AES-256 in CFB
- » Key exchange over mutually authenticated TLS

Mutually Authenticated Connections

Connex registers in the Dencrypt Server System for provisioning, call setup and phonebook download using mutual authenticated connections.

- » TLS Cipher Suite:
 - » TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
 - » Elliptic curve: secp384r1
 - » Authentication: RSA 3072 bits

Dencrypt Server System

The Dencrypt Server System is available as an Enterprise solution for on-premises installation or as a cloud service managed by Dencrypt.

Connectivity

Voice-over-IP calls and messaging over cellular, wireless and satellite networks, including 3G/4G/5G/WiFi.

Audio

- » Constant bitrate for enhanced security
- » Speex and Opus audio codec for excellent audio quality

Platforms

- » iOS / iPadOS 18.0 or later
- » Android 14.0 or later
- » Windows 11 or later
- » MacOS 14 (Sonoma) or later

