DENCRYPT

DENCRYPT TALK
ENCRYPTED MOBILE COMMUNICATION

Dencrypt Talk protects your smartphone conversations with state-of-the-art Dynamic Encryption – the best protection when using non-secure digital infrastructure like WiFi hotspots, mobile networks, satellite links etc. The user-friendly app requires no special hardware.

DENCRYPT TALK OFFERS:

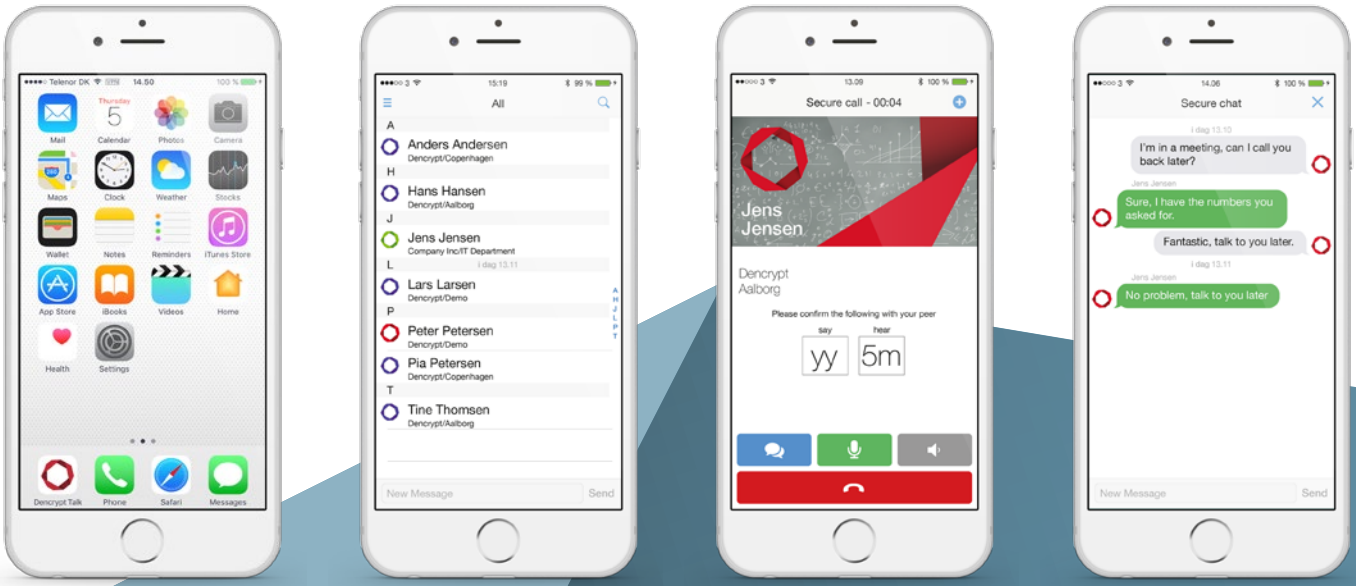
ALSO USED BY MANAGEMENT

SERVER IN-HOUSE OR CLOUD-BASED

DYNAMIC ENCRYPTION

FEATURE SET

- Dynamic Encryption + AES-256
- End-to-end encrypted voice calls via Voice over IP (VoIP)
- Encrypted live chat
- Encrypted group call
- Secure call setup via a dedicated SIP server
- High audio quality
- Secure individual phone book
- Centrally managed
- Supports individual groups settings
- Individual ring tones
- Seamless over-the-air SW updates
- Connectivity on all cellular and wireless networks, including:
  - 3G/4G/LTE, GPRS, Wi-Fi
- iOS and Android
- Common Criteria certified (ISO 15408)



Common Criteria

ENCRYPTION USED BY NATO & THE DANISH DEFENCE

DENCRYPT TALK
TECHNICAL SPECIFICATIONS

Voice & data encryption
Secure end-to-end encrypted voice communication and chat using Dynamic Encryption, ensures that each call session is encrypted with a randomly chosen algorithm and randomly chosen keys.

» Patent pending: PCT/EP2012/071314.
» 3072 bit Diffie-Hellman function for key exchange over the zRTP protocol.
» SAS: four-letter readout based on key authentication.
» Encryption key and algorithm are established at call setup and deleted as soon as call is terminated.
» All key material is generated with Cryptographically Secure Pseudorandom Number Generators.

Local Dencrypt Server System
» The Dencrypt Server System (required for Dencrypt Talk) can either be installed and operated locally or used as a hosted service managed by Dencrypt.

Two-way authentication
Client and server authentication and registration for call setup and user account management:

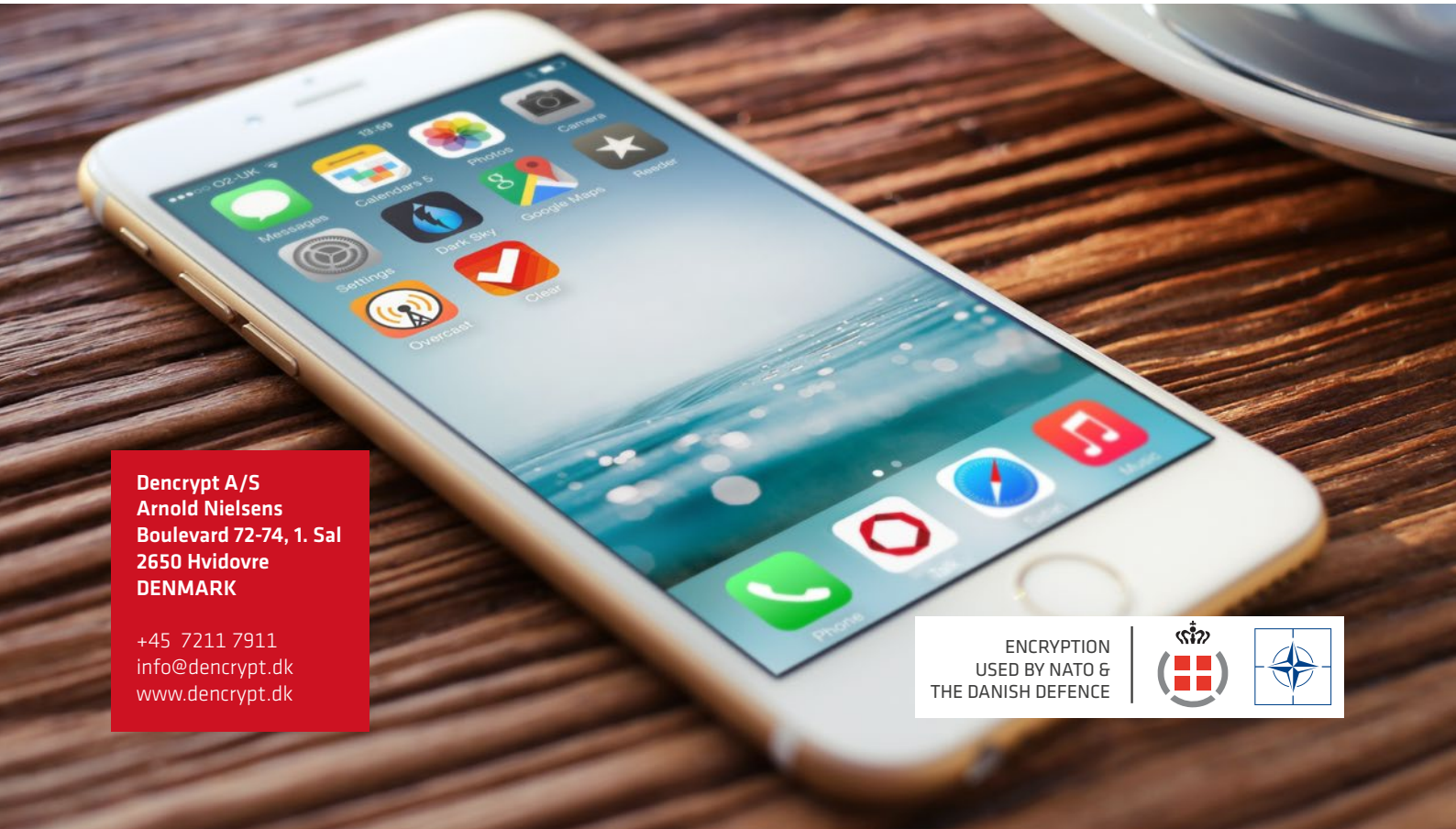
» SIP Secure + TLS1.2 using AES-256-GCM for data protection and ECDHE-RSA for key exchange using a 4096 bit certificate for server authentication and a 3072 bit certificate for client authentication.

Connectivity
Voice-over-IP calls and chat over all cellular, wireless and satellite networks, including 3G/4G/LTE/WIFI, GPRS.

Audio
» Adaptive audio quality based on current network conditions.
» Constant bit-rate SPEEX voice codec for optimal security and voice quality.
» Polyphonic ringtones.

Performance
» Same as or better voice quality than non-encrypted voice-over-IP calls. Encryption does not introduce an audible delay or voice quality degradation.

Supported platforms
» iOS 10.0 and later.
» Android 4.x (Jelly Bean) and later.



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