Cellcrypt®
CONFERENCE CALLING

Instant, secure conference calls for enterprise mobility

- Set up group calling can be set up instantly from your contacts list in seconds, just like a regular call
- Cellcrypt Conference Calling can combine with Cellcrypt Voice Gateway via your PBX to extend calling to non-Cellcrypt users
- Secure, end-to-end encryption combines with call moderating, mute and eject options for the call initiator
- Schedule mobile and desktop conference calling with automatic email invites, and no need for third-party administrators or passwords

End-to-End Encryption

Advanced cryptographic techniques ensure the privacy of conference calling even for mobile users operating within hostile environments.

Secure Scheduling and Call Controls

In addition to end-to-end encryption, the Cellcrypt Conference Calling web UI ensures that your business can enjoy secure, authenticated conference calling, safe in the knowledge that the right people are on the line. Call initiator or administrators have a full attendee list, and can easily invite new participants, mute and even eject callers if the need arises.

Forget Passwords, PINs and Dial-ins

Ensuring all participants have the correct information to join a call is major inconvenience with normal conference calling. Pins, passwords and international dial-in numbers can slow everything down, incur expensive long-distance charges, and even prevent crucial participants from joining calls.

With just one touch, Cellcrypt Conferencing enables participants to join a cost-effective, secure VoIP conference call, already fully authenticated and ready to contribute.

Cellcrypt Conference Calling is a cost-effective way to take the complication out of group calls and scheduled tele-conferencing. Make secure, encrypted calls whenever you want, from your mobile or desktop, leveraging your existing infrastructure for seamless, immediate collaboration.

Secure group calls can be set up instantly from your contacts on mobile or desktop. Scheduled conferencing offers simple, straight forward calling and email invites, eliminating the need to arrange through a third party, or issue passwords. The call initiator can retain full control with a web UI that provides a complete list of attendees invited and present, plus mute and eject options.

An open bridge that can be ‘always on’ provides the organization with instant collaboration and messaging functions with zero set up time.

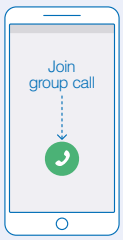
When combined with Voice Gateway and directed through your organization’s existing PBX, Conference Calling can even be extended via mobile, desktop or landline to non-Cellcrypt users.

Hosting can be provided via the cloud, through on-site servers, or on a hybrid of the two, as best suits the organization.

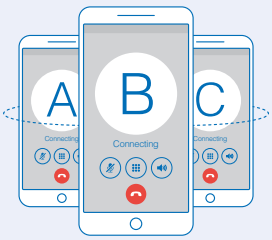
Cellcrypt Conference Calling – help your organization get on with business.

Instant Group Calling – Start a Cellcrypt Conference Call from your smart phone at any time.

Select participants from your phone’s contacts list



Press call and the bridge is created, connecting you directly



The other participants get a message to join the call

Cellcrypt®
TRUSTED COMMUNICATIONS

Military-Grade Encryption for Secure Communication

Cellcrypt provides high grade, end-to-end encryption for secure voice calls messages and file transfers between trusted mobile devices.

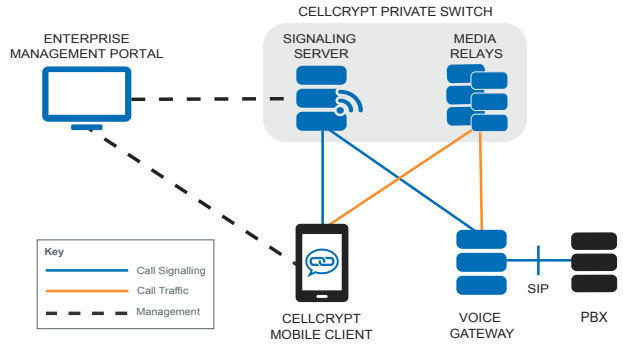
For protection of voice calls, instant messages and content, the Encrypted Mobile Content Protocol™ (EMCP) optimizes delivery of encrypted content in real-time, even across low-bandwidth wireless networks.

Cellcrypt uses standard encryption technologies including:

- Advanced Encryption Standard (AES) for symmetric encryption
- 384-bit Elliptic Curve Cryptography for Authentication
- Elliptic Curve Diffie-Hellman (ECDH) for key agreement
- Secure Hash Algorithm (SHA) for message digest

Cellcrypt's Dual Cipher system uses double-wrapping for added security. For example, voice calls are first encrypted using RC4 with a 384-bit key and then encrypted again using AES with a 256-bit key.

CELLCRYPT® ENCRYPTED CONTENT DELIVERY NETWORK



Cryptography

Key Generation

- Entropy collected continuously from hardware sources e.g. motion sensor, mic and OS sources e.g. /dev/urandom
- Long term ECC keys generated & stored in application's secure database
- No manufactured/generated key material is needed prior to use of the system

Voice Call Authentication

- Secure data exchange in two stages
- End-to-end standards-based key establishment providing mutual authentication, Perfect Forward Secrecy (PFS) and unique keys per-session
  - NIST SP800-56A C(2,2) Full Unified Model with Bi-lateral Key Confirmation
  - Authentication using NIST approved ECC curve P-384

Message Authentication

- End-to-end standards-based key establishment with mutual authentication
  - NIST SP800-56A C(1,2) One-Pass Unified Model
  - Public key fingerprint displayed in message dialog and contact details for vocal confirmation

Symmetric Cryptography

- Dual ciphers - RC4 with 384-bit key and AES-CTR with 256-bit key
  - FIPS SP 800-38 – AES in CTR mode and AES in GCM mode (rev D)

NIST FIPS 140-2 Level 1 Certified

- Cellcrypt is certified to the FIPS 140-2 standard, approved by the US National Institute of Standards & Technology (NIST) (CERTIFICATE # 2575)

Cellcrypt is the complete solution for trusted mobile communications, providing secure, real-time messaging, voice/conference calling and secure file transfer, all protected by strong, authenticated, end-to-end encryption.

Combining military-grade security with the ease of use of a consumer app, Cellcrypt requires no user training/configuration, ensuring fast and easy deployment, user acceptance and adoption across your organization.

With Cellcrypt you can trust that your confidential communications remain that way.

DANMIK AGENCIES
email: info@danmik.com
www.cellcrypt.com.au