

REDCOM SECURE CLIENT

Command & Control app with voice, video, & chat for Windows® & Android™

The REDCOM Secure Client is a C2 softphone for Windows® and Android™ devices with robust voice, video, and chat support. When coupled with the REDCOM Sigma® C2 software platform, the REDCOM Secure Client delivers unique and powerful features with an easy-to-use interface for users at the tactical edge and DIL environments.



Secure communications

Protect critical communications with powerful 2048-bit RSA encryption for voice, video, and chat. The REDCOM Secure Client for Android™ also features FIPS 140-2 compliant encryption.



Built on open standards

As a SIP-based softphone, the REDCOM Secure Client is interoperable with industry-standard devices. Extend the value of REDCOM Sigma® C2 software by bringing the power of unified communications to your PC or mobile device.



Integrated push-to-talk (PTT)

Built-in push-to-talk technology enables the REDCOM app to key a radio in the network. Where the endpoint isn't a radio gateway, the PTT function can mute/unmute communications, ideal for noisy environments.



Full MLPP support

The REDCOM Secure Client features support for industry-standard Multi-Level Precedence and Preemption (MLPP), including call forwarding and call transfer, to ensure that the most important calls get through during crisis situations.



Dual registration for survivability

The REDCOM Secure Client supports true dual registration to two independent SIP servers.



Intuitive user interface

The REDCOM Secure Client's user interface focuses on human ergonomics for maximum efficiency. On Windows®, Chat panels can be resized and rearranged to fit the needs of each individual user, and unused panels (such as the dialer or contact details) can be hidden to maximize the space available for chat sessions.



Chat designed for the tactical edge

The REDCOM Secure Client for Windows® supports unified chat via both XMPP and IRC protocols, so users no longer have to switch between different chat clients. Operational tempo is enhanced with the ability to send images and attachments directly in chat, reducing the need for email.



REDCOM™

RESEARCH, ENGINEERING, & DEVELOPMENT IN COMMUNICATIONS

REDCOM Secure Client Features

GENERAL

- True dual registration to two independent SIP servers
- Call forwarding with MLPP
- Call transfer with MLPP
- Call hold
- Call history (view & delete)
- Calling number delivery
- Three-way calling
- Missed call notifications
- Attended transfer
- Blind transfer
- Support for ICE (SIP)
- Noise suppression
- Echo cancellation (device dependent)
- Provisioning via configuration file
- Integrates with your device's contact list
- Dial plan rules
- Auto start on bootup
- RFC 2833: DTMF for IP networks
- Push-to-talk (PTT)¹
- Emergency call handling by native Android™ dialer
- Voice Mail message management

ENHANCED CHAT (WINDOWS®)

- Support for both IRC and XMPP²
- Text formatting toolbar
- Attach files and images
- New Chats panel
 - View multiple chat sessions simultaneously
 - Easily rearrange and resize chat windows
 - Users can close Dialer and Contact Details panels to make more room for the Chats panel
 - User-defined keyword identification for room owners and participants

UNIFIED COMMUNICATIONS

- Real-time voice
- Point-to-point video
- Desktop streaming (Windows®)
- XMPP support, including:
 - Presence
 - One-to-one chats

SUPPORTED AUDIO CODECS

- G.711 (A-law and μ -law)
- G.722
- G.729
- Opus
- Speex

SUPPORTED VIDEO CODECS

- H.264
- VP8

SECURITY

- Call encryption (TLS/SRTP)
- Mutual authentication
- FIPS 140-2 validated encryption (Android™)

REAL-TIME NETWORK/ PERFORMANCE TROUBLESHOOTING

- Caller identity
- Call duration
- Codec/frequency
- Local & remote IP/port
- Bandwidth usage
- Loss rate
- FEC decoding packet count
- Discarded packet count
- Jitter buffer status

SYSTEM REQUIREMENTS

- Google Android™
 - Android 7.0 or newer
- Microsoft® Windows®
 - Runs on a standard Windows® 7, Windows® 10, or Windows® 11 PC (64 bit)
 - Processor: dual/quad core (x64)
 - Memory: 4GB RAM
 - Compatible with REDCOM HDX, SLICE®, SLICE® 2100, SLICE® 2100 Micro, SLICE® IP, SLICE® IP Micro, and Sigma
 - LAN Interface: 10/100/1000 Mb Ethernet



The Secure Client is not tested with third party call controllers, and many features and functions require REDCOM Sigma®.
1 To take full advantage of PTT features, we recommend connecting through a REDCOM HDX, SLICE, or Sigma. Contact REDCOM for more information.
2 Requires REDCOM Sigma 3.1 or later.
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
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ONE REDCOM CENTER, VICTOR, NY 14564, USA | 585.924.7550 | WWW.REDCOM.COM | SALES@REDCOM.COM

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