

REDCOM® SIGMA® CLIENT FOR WINDOWS

Command & Control app with voice, video, & chat

REDCOM Sigma Client is a C2 softphone and PTT app for Windows with robust voice, video, and chat support. When coupled with the REDCOM Sigma® C2 software platform, the REDCOM Sigma Client delivers a complete set of communication features with an easy-to-use interface for users at the tactical edge.



Communicate across channels

Communication channels improve the flow of comms across domains and echelons by grouping endpoints together. Channels can either be pre-configured by a Sigma admin, or set up ad-hoc by the end user.



Integrated push-to-talk (PTT)

Built-in push-to-talk technology enables the REDCOM Sigma Client app to key a radio in the network. The PTT function can also mute/unmute communications, ideal for noisy environments.



Priority talkers

With Sigma Client, important users always have a way to push mission-critical voice traffic with support for Multi-Level Precedence and Preemption (MLPP) in phone calls and priority talkers in channels.



Spatial audio

Sigma Client allows a user to handle multiple simultaneous voice conversations by assigning channels to different positions on a headset (left front, left rear, right front, or right rear).



Classification level indicators

Colored bands next to each channel identify the security level of a channel (Green: Unclassified, Blue: Confidential, Red: Secret, Orange: Top Secret, and Yellow: Top Secret SCI).



Intuitive user interface

The client's user interface focuses on human ergonomics for maximum efficiency. 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 Sigma Client 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

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REDCOM Sigma Client Features

SIP CALLING

- Attended transfer
- Auto start on bootup
- Blind transfer
- Call duration
- Call forwarding with MLPP
- Call transfer with MLPP
- Call hold
- Call history (view & delete)
- Call recording
- Caller identity
- Calling number delivery
- Dial plan rules
- Dual registration to two independent SIP servers
- Echo cancellation (device dependent)
- Missed call notifications
- Noise suppression
- Provisioning via configuration file
- Push-to-talk (PTT)
- RFC 2833: DTMF for IP networks
- Support for ICE (RFC 5245) for SIP
- Three-way calling
- Voice Mail message management

CHANNELS

- Can be preconfigured by an admin or created ad-hoc by the end user
- Classification level indicators
- Priority members
- Spatial audio (left front, left rear, right front, or right rear)

ENHANCED CHAT

- Text formatting toolbar
- Attach files and images
- Chat History
- Urgent Message tag
- Federated Chat
- Advanced 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
- Video streaming from device camera
- Screen sharing
- 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

SECURITY

- Call encryption (TLS/SRTP)
- Mutual authentication

REAL-TIME NETWORK/ PERFORMANCE TROUBLESHOOTING

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

SYSTEM REQUIREMENTS

- Runs on a standard Windows® 10 or Windows® 11 PC (64 bit)
- Processor: dual/quad core (x64)
- Memory: 4GB RAM
- LAN Interface: 10/100/1000 Mb Ethernet



The REDCOM Sigma Client is not tested with third party call controllers, and many features and functions require REDCOM Sigma®. This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
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