Communications for the Energy Sector

VoIP, Hybrid, Radio, and Unified Communications for the Oil & Gas industry

The convergence of radio, wireless, and SIP communications is fundamentally changing the way that oil and gas companies operate today. REDCOM addresses the needs of the energy industry with highly reliable and flexible communications solutions designed to connect upstream, midstream, downstream, and corporate headquarters.

For many oil and gas companies, smoothly and incrementally migrating to an IP-based communications infrastructure has emerged as the best approach to deploying a next-generation communications network without sacrificing service quality or reliability. REDCOM technology enables oil and gas companies to transition to IP networks and Unified Communications while maintaining complete interoperability with existing legacy networks, radios, and wireless communications.

Maximum interoperability

As the energy sector moves to modernize their networks and communications infrastructure, maintaining interoperability with existing communications is essential. That's why REDCOM offers a portfolio of reliable, field-proven hybrid switches designed specifically for operating in harsh environments.

REDCOM's hybrid switches, the HDX and SLICE® 2100, are built on the industry-standard SIP-based architecture, and include an integrated Call Controller, Media Gateway, Media Gateway Controller, and Legacy Support, providing connections to both TDM and IP networks.

Bridge VoIP and radio networks

REDCOM's Radio Gateway, available on both the SLICE 2100 and HDX platforms, provides a simple and reliable means of bridging radios into both legacy and VoIP networks. REDCOM's intelligent Radio Gateway solutions are far more powerful than simple converter boxes. They include full switching and routing capabilities along with radio features such as PTT pass-through, REDCOM's patented PTT over IP, VOX and COR, and conferencing. REDCOM's Radio Gateway supports interoperability between the following:

- Disparate radio networks
- HF, VHF, and UHF radio nets
- VoIP
- SIP, T1, E1, E&M, and LSRD trunking
- Fixed line/PBX subscribers
- REDCOM Sigma® Client for Android™ with PTT

Essential Communications

REDCOM

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Unified Communications

REDCOM Sigma® Core is a complete software-based Unified Communications (UC) solution with a focus on interoperability, reliability, and security. Sigma Core has passed rigorous tests by the US Defense Information Systems Agency (DISA), making it highly suitable for serious enterprise deployments. Highlights include:

- IP Trunking
- Video (P2P)
- Chat/XMPP with Presence
- Hosted PBX
- Conference Bridge
- Unified Messaging
- Voice Mail to Email
- Enterprise features
- Hardware neutral: can be deployed on any appliance, including ruggedized servers
- Small software footprint & minimal system requirements
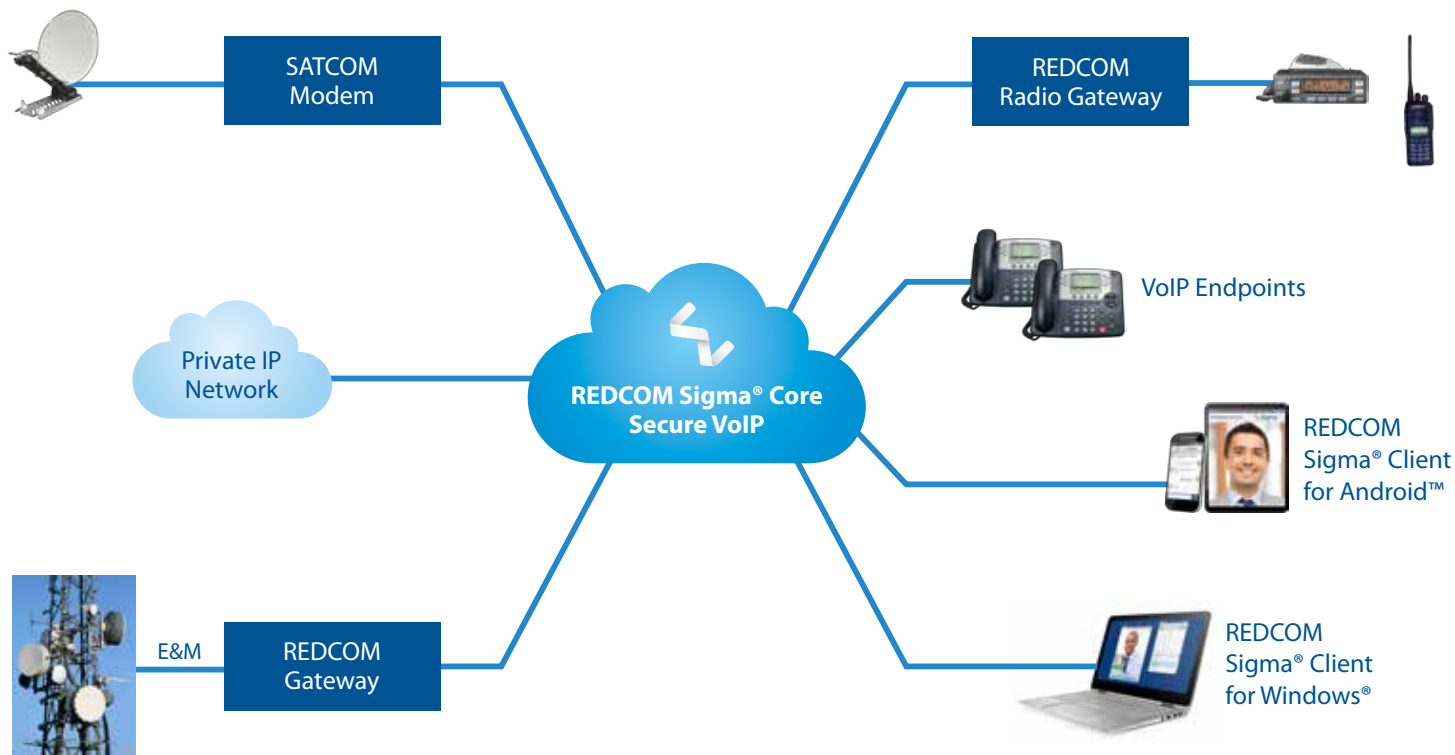
Your office anywhere

Stay connected no matter where you are with REDCOM's Sigma Client, available for both Windows® and Android™. The Sigma Client provides users with access to powerful UC functions — including secure voice, video, and chat with presence — from the convenience of a PC, tablet, or smartphone.

Secure communications from upstream to headquarters

Protect confidential discussions and avoid corporate espionage with REDCOM's proven secure communications solutions. All REDCOM platforms support Secure Real-Time Transport Protocol (SRTP) and Transport Layer Security (TLS) to encrypt VoIP traffic to ensure confidential communications.

Secure VoIP, UC, and Radio Communications

SATCOM Modem

REDCOM Radio Gateway

Private IP Network

REDCOM Sigma® Core Secure VoIP

VoIP Endpoints

REDCOM Sigma® Client for Android™

E&M   REDCOM Gateway

REDCOM Sigma® Client for Windows®

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SIP trunking made easy

REDCOM's extensive SIP trunking capabilities allow oil and gas companies to scale their telecom system faster and more cost-effectively than with traditional phone lines. SIP trunks are used to connect two sites together and to connect them to the Internet. With proper network assessment planning and implementation, SIP trunks can deliver high quality and reliable service with substantial cost savings that directly impact the bottom line of utilities.

Multi-technology conferencing

REDCOM's Multi-Technology Conferencing delivers advanced voice collaboration tools for the enterprise. With REDCOM, companies can quickly set up secure conferences within a corporate cloud.

Several conferencing styles are available, including progressive (participants added one at a time), meet-me (scheduled), and preset (Blast Dial). Some or all of these elements can be combined into a single conference.
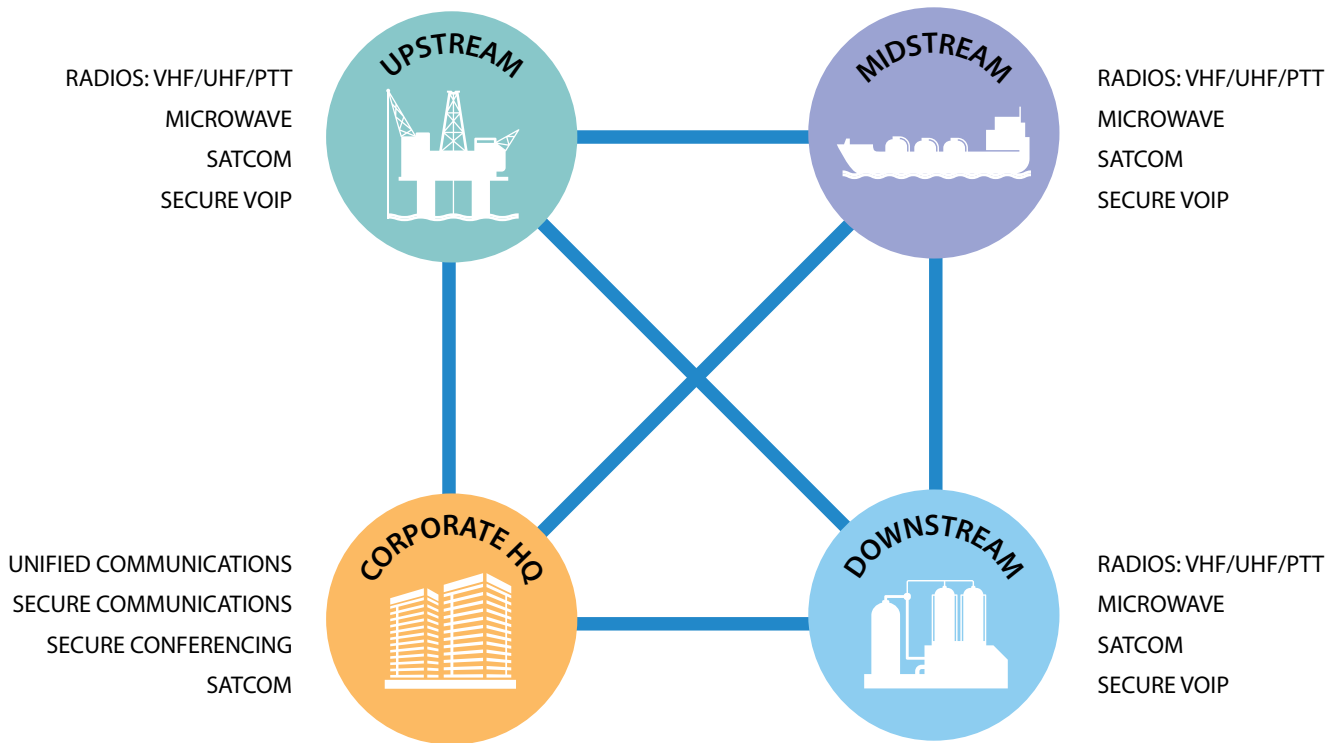
Advanced routing & translations

REDCOM systems feature powerful carrier-grade routing functions. Each system can be configured with multiple alternate routes over IP, satellite, and terrestrial networks to ensure critical assets always stay connected. In the event of a connection failure, this ensures essential voice communications can get through. Users can also easily set up inbound/outbound trunk groups and flexible digit manipulation for numbering and dialing plan compliance.

Standards-based interoperability

REDCOM will not lock you into a proprietary ecosystem. We follow industry standards in order to interoperate with third party phones, soft clients, and gateways.

REDCOM: Connecting Offshore to Headquarters

RADIOS: VHF/UHF/PTT
MICROWAVE
SATCOM
SECURE VOIP

UPSTREAM

MIDSTREAM

RADIOS: VHF/UHF/PTT
MICROWAVE
SATCOM
SECURE VOIP

UNIFIED COMMUNICATIONS
SECURE COMMUNICATIONS
SECURE CONFERENCING
SATCOM

CORPORATE HQ

DOWNSTREAM

RADIOS: VHF/UHF/PTT
MICROWAVE
SATCOM
SECURE VOIP

Essential Communications

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