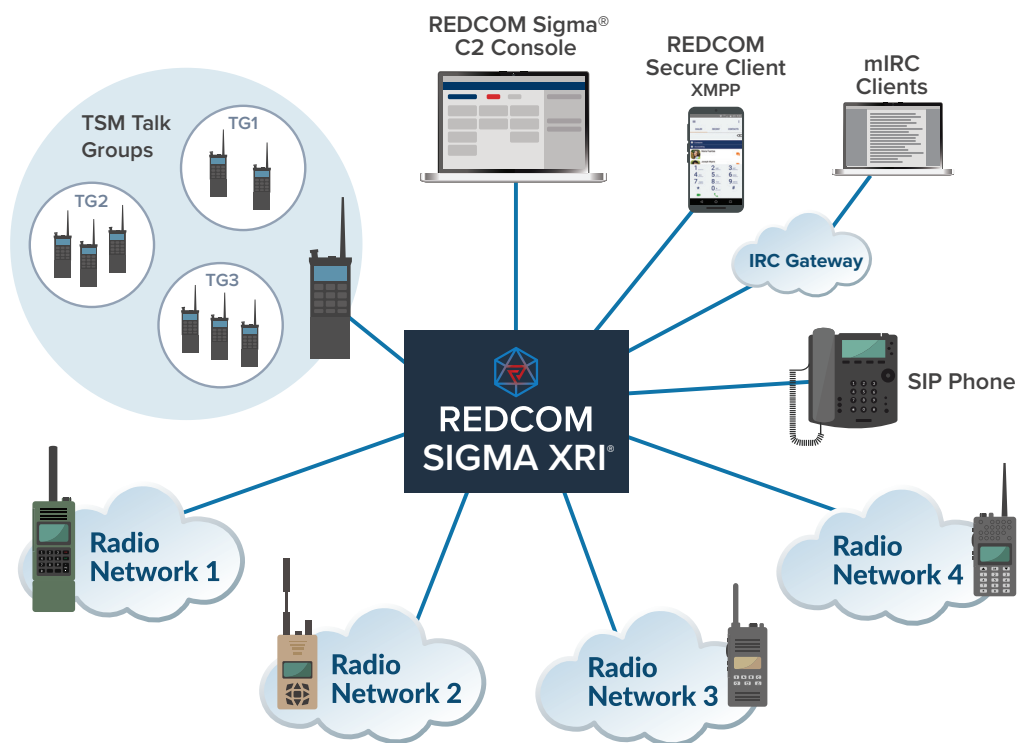# REDCOM SIGMA® XRI-400

Increase interoperability & mobility | Reduce training & lifecycle costs

Low SWaP C2 for the USMC

REDCOM Sigma® XRI is a Small Form Factor Command and Control (C2) platform with voice, video, chat, radio interoperability, and an integrated console. Sigma XRI empowers the USMC with the capability to talk across the spectrum to disparate communications devices, while also reducing manpower, lowering end item cost, and conserving training resources.

Maximum interoperability

REDCOM Sigma XRI combines the proven capabilities of REDCOM Sigma software with technology that bridges the gap between radios from multiple military units and Joint/Coalition forces. With the Sigma XRI, radio users on any end device or frequency can seamlessly communicate over multiple networks, including IP, LTE, SATCOM, UHF, VHF, HF, and TSM. Sigma XRI enables disparate units, branches, and nations to quickly communicate within a common C2 platform, eliminating the hurdles brought on by traditionally incompatible communications devices and systems. With Sigma XRI, the USMC can easily connect to endpoints and partner systems without having to purchase or implement expensive gateways.

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Empowering operations in DIL environments

In disconnected, intermittent, and low-bandwidth (DIL) environments, REDCOM Sigma XRI can be employed as a stand-alone C2 platform. This enables continuity of operations if communications to higher headquarters or supporting echelons become interrupted or compromised.

Reducing radio requirements at COCs

Sigma XRI can maintain radio connectivity to nearby or remote entities, enabling COCs to maintain communications even when other transports are torn down. The platform also limits the number of radios required in a COC with Patched and Monitored connections. Sigma XRI will also reduce the radio requirements at the tactical level.

Optimized for mobility

Sigma XRI was developed to be resilient to hard shutdowns and power up in under two minutes. The flexible nature of REDCOM Sigma XRI also allows for the use of various mediums in order to pass mission critical information to any user. Communications can be fully operational within minutes, enabling Marines to secure a tactical advantage by maintaining mobility at all times. As a low-SWaP device, Sigma XRI enables the USMC to maintain communications on-the-move, whether that be on foot or mobile patrol for the GCE, Air Support for the ACE, or even a supply run by the MLG or CE.

REDCOM Sigma® XRI-400 measures just 8.4 x 5.75 x 2.6 in and weighs 2.6 lbs.

Reducing lifecycle costs

Intuitive user interface & reduced training requirements. Sigma's intuitive web-based interface reduces training ramp-up time, without the need to learn a command line interface. The interface is easy to navigate, highly customizable, and quick to set up. This helps eliminate the USMC's reliance on industry field service representatives, and enables quick deployment. The current USMC Cisco CuCM training takes on average ten full days. Sigma XRI has been demonstrated to the USMC on live networks with just two days of training.

Simple licensing. The currently accepted licensing model for CuCM is cumbersome and in many cases cost-prohibitive. REDCOM makes licensing easy by removing the requirement altogether and delivering an appliance that is ready to be configured and deployed minutes — not hours or days — after receipt.

Reduced hardware/software footprint. The current Cisco solution does not meet the full voice, video, and chat requirements for the USMC without the addition of ancillary servers or virtual servers, thus increasing the cost of both hardware and software. Sigma XRI-400 delivers the following features in a single low-SWaP appliance: Call Control, Conferencing, DHCP Server, AS-SIP, radio gateways, transcoding, and a C2 Console.

Interoperability with legacy devices. With a standards-based approach, REDCOM Sigma works with the existing deployed base of Teo and Cisco handsets. REDCOM developed a process to convert these phones from the Cisco proprietary SCCP protocol to SIP protocol and added support for existing calling features. This results in a cost savings for the USMC by avoiding the rip and replace of tens of thousands of handsets.

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