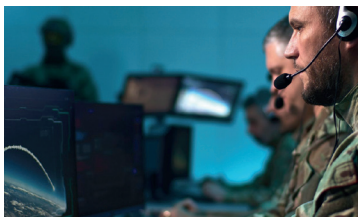# VITEC solutions for Defence and Security Markets
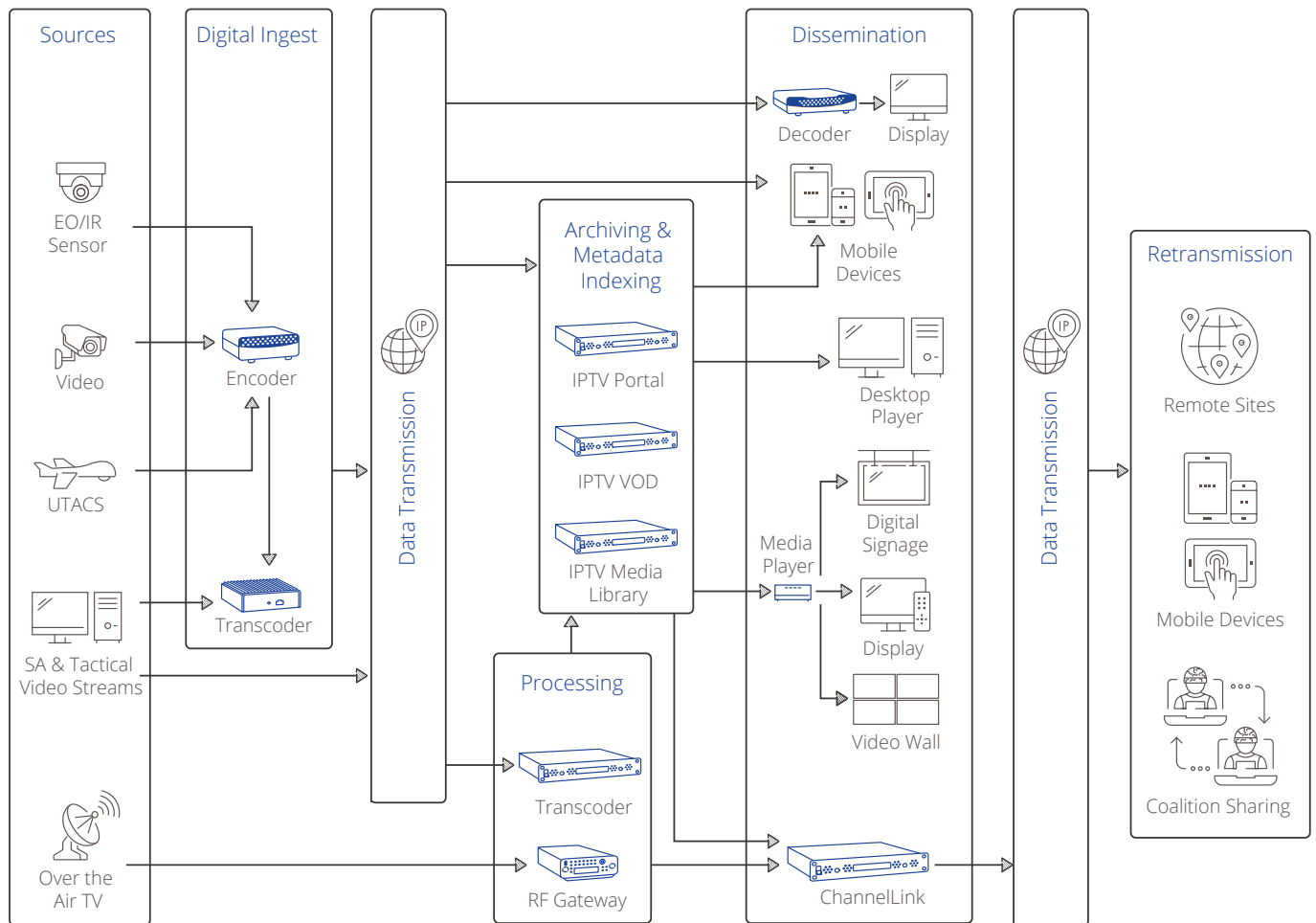
TARGET 3

Designed for mission-critical applications, VITEC's solutions facilitate decision-making and faster response to operational challenges and are designed to enhance Defence and Security workflows by ingesting, disseminating and viewing high-resolution video and critical MISB/STANAG compliant metadata across any network.

VITEC's cutting-edge solutions deliver real-time and on-demand HD and 4K video along with KLV metadata over IP, any time, anywhere, over any data network to Command and Control Centres, Forward Operating Bases and Last Tactical Mile Users.

Mission critical video can be viewed on multiple platforms such as video walls, computers and portable devices for analysts, key decision makers, ground forces and other observers.

NATO OTAN | AES-256 ENCRYPTION | SSL SECURE TRANSACTION | RMF | TAA COMPLIANT · IN COMPLIANCE WITH THE TRADE AGREEMENTS ACT

Processing and Products

VITEC's products support the most advanced video formats including HEVC, with Adaptive Bit Rate on the Fly, up to 4K resolution, whilst ensuring ultra low latency dissemination, encryption and stream protection, providing image quality even on problematic data connections.

VITEC's battle-proven video solutions allow Defence and Security stakeholders to easily disseminate both live feeds and recorded content in various bit-rates optimised for any available IP network links.

Organisations can leverage existing IP infrastructure to distribute ISR (Intelligence, Surveillance, Reconnaissance) video to local, remote and in-theatre users. Using smart integration with IT security systems and existing domain policies enable system administrators to regulate access to video content, dynamically eliminating the need for complex firewall and access control settings.

VITEC's range of solid state enclosure, portable encoding appliances also deliver high reliability in a rugged, MIL STD certified, low power consumption, fanless design and are designed to operate in the most extreme environments. VITEC's small form factor encoders are installed on platforms from UAVs to forward reconnaissance vehicles and tactical units to quickly capture video data and deliver it seamlessly over wireless, IP radio, satellite and even cellular phone connections.

All of VITEC's portable encoders support KLV MISB 0601 and 0902 as well as KLV / STANAG 4609 metadata injection from serial, SDI or IP connections. This is ideal for pairing of tactical data with associated video, increasing the information available to all parties involved.

VITEC's transcoding solutions ensure that legacy workflows can be maintained, streams can be delivered to various end points in a format that is both secure and optimised. This extra processing also ensures interoperability between coalition partners and federal stakeholders alike.

VITEC's range of chassis based, rack- mounted solutions are also used to allow for seamless sharing across distinct separate secure networks, while maintaining all relevant metadata, without compromising security.

Archiving and Dissemination

VITEC provides IPTV solutions that are designed to process, index, search and share video and information that is being streamed or obtained from recorded missions. This system integrates seamlessly with existing and new network storage devices for archiving video files, still images, critical metadata and users' notes in a central repository on-premise or in a private cloud. The system retains video files in their original format, as well as in HTML5 proxy versions, which are more bandwidth-effective for dissemination in today's broadly distributed IT environment requiring quick and easy access to content anywhere, any time including federation of multiple sites.

Archives can be maintained for specified time periods, and video clips spliced to create compilations encompassing full mission areas and time-lapse views of targets of interest. VITEC's integrated IPTV and Digital Signage platforms support user-selected mosaic views of 1,4 or 9 concurrent video feeds on a single screen. Selected metadata can also be displayed on-screen, without altering the original video in any way.

With basic mark in and mark out tools and time-synced annotations, analysts have the ability to collaborate with mission commanders.

The IPTV System can determine which users see what information and analyse user activity, access rights, content and video distribution workflows. Access privileges and single sign on options can be easily defined based on existing Microsoft Active Directory and ensures that information is only seen by authorised users with secure AES 128/256 bit encryption.

VITEC Customers

VITEC's multi-domain solutions are currently deployed by security forces and governments worldwide, including the US Army, US Air Force, Joint Task Forces, MDA, SOCOM, USNG, NASA, UK MoD, Canadian DND, Australian MoD, and other global defence forces.

The VITEC Advantage

Flexibility
Able to ingest any source and disseminate to any playback device, enabling coverage of the Last Tactical Mile.

Scalability
Encoding and transcoding ranging from small form factor, single channel appliances up to multi source rack mounted configurations.

Quality
Best in Class, HEVC HD and 4K resolution at the lowest bandwidth consumption.

Latency
Prime market leader in sub frame latency solutions.

Interoperability
Certified and compliant to meet demanding challenges across the world stage of defence and security, enabling coalition sharing with ease.

Reliability
From Solid State appliances to 24/7 operation solutions with options for redundancy.

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