PESA SECURA®
USE CASE
Distributed Multi-Location VTC Rooms

SECURA®

MISSION VIDEO SYSTEM For VTC Rooms
Extending Capabilities and Security

VTC Use Case For SECURA®: SECURA® controls all video and audio feeds from multiple authenticated disparate sources to all authenticated destinations for video teleconference (VTC) rooms. It works in tandem with traditional VTC applications such as Teams, Zoom, Cisco and others. SECURA® is VTC vendor agnostic.

VTC rooms with SECURA® can be implemented as an independently siloed VTC room, combined or virtualized multiple VTC rooms, and when connected to the government network or secure cloud, VTC rooms can secure video with globally distributed VTC rooms.
Note: Multi Domain and Cloud capabilities requiring HEVC shipping Q4 2024.

Additional Capabilities Provided by SECURA® For Traditional VTC Rooms

1) Physically separates PC's from being directly inside the VTC conference room. Isolating the physical hardware and its SIPR/NIPR/JWCS connections to sensitive networks from the actual room separates users from sensitive physical equipment. VTC participants have no access to network cables and physical network ports.

2) Every signal, including video, audio, and HID devices (keyboard, mouse, CAC etc) is connected as AES256 encrypted flows to and from the secured PC's located in the secured room. Currently without Secura, video and audio connections are "raw" signals within a VTC room with exposed USB ports.

3) Central or Individual Room Control option provides implementation flexibility. The control system can operate distributed rooms with redundancy from a central location, remote, or the control system can operate within siloed separate VTC rooms.

4) Matrix control of Signals is done from an Operations Center. The control system can configure for the mission (can be stored and re-used). An unlimited number of VTC scenarios can be configured and implemented by the command center, subject to policy.

5) Smooth Transition Strategy from older VTC Codecs to new codecs. As PESA SECURA® is independent of the VTC codec, a transition strategy can be implemented without disrupting user environments.

6) With all VTC equipment secured in a separate room or location, the conference room is very clean. Limited equipment in the room itself.

7) Connect additional cameras and microphones in or separate from the conference room, with encryption, to the VTC application, IP-scalable.

8) Additional Video sharing. Video signals can be connected to share within the room in concert with sharing functions in Teams. Other PC video or other asset video contribution can be shared in the conference.

9) SECURA® can be implemented across multi domain and multi cloud environments (Q4 2024) utilizing Multiple Independent Levels of Security (MILS) implementation.

SECURA®
VTC Capabilities

❑ AV over IP Mission Video System (MVS) with Keyboard-Video-Mouse (USB) In One System

❑ Integrates with traditional VTC Systems, such as Teams, Zoom, Cisco and others.

❑ Support Of Up To 4Kp60 4:4:4 High Quality Video

❑ Low Latency End-To-End Distribution Of < 1ms From SECURA® Transmitter To SECURA® Receiver

❑ Multiple Independent Levels Of Security (MILS), Scalable To 100's of Levels

❑ Provisional CMVP NIST Certified FIPS 140-3. Upgrade from 140-2

❑ CNSA (Suite B) Compliant

❑ AES 256-bit GCM Encryption for All Data Flows (Video, Audio and HID Devices)

❑ SECURA® Integrated Solution Uses COTS Switches (Arista, Cisco, or Others)

❑ Multi-Factor Authentication (MFA) and Mutual Authentication (mTLS both ends), with Advanced Key Certificate And Token Management For All Endpoints and Connections (TLS 1.2)

❑ Architected For Zero Trust Environments

❑ Mezzanine Codec Shipping Now

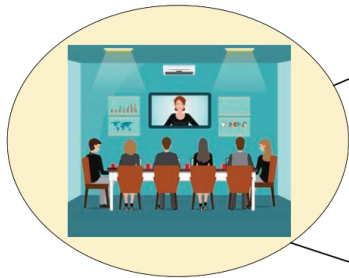**Website:** www.pesa.com
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TRADITIONAL VTC ROOMS

PC's are usually in the VTC room allowing access to Physical PC Device

Secret VTC Room
1. PC's
2. Mouse/Keyboard
3. Control Panel to switch video, audio and USB
4. Enterprise Ethernet Switch

Classified VTC Room
1. PC's
2. Mouse/Keyboard
3. Control Panel to switch video, audio and USB
4. Enterprise Ethernet Switch

No mutual TLS for Control

No Encryption for Video, Audio and USB DATA

VTC Operations Center
Operations Assistance Team

Unclassified VTC Room
1. PC's
2. Mouse/Keyboard
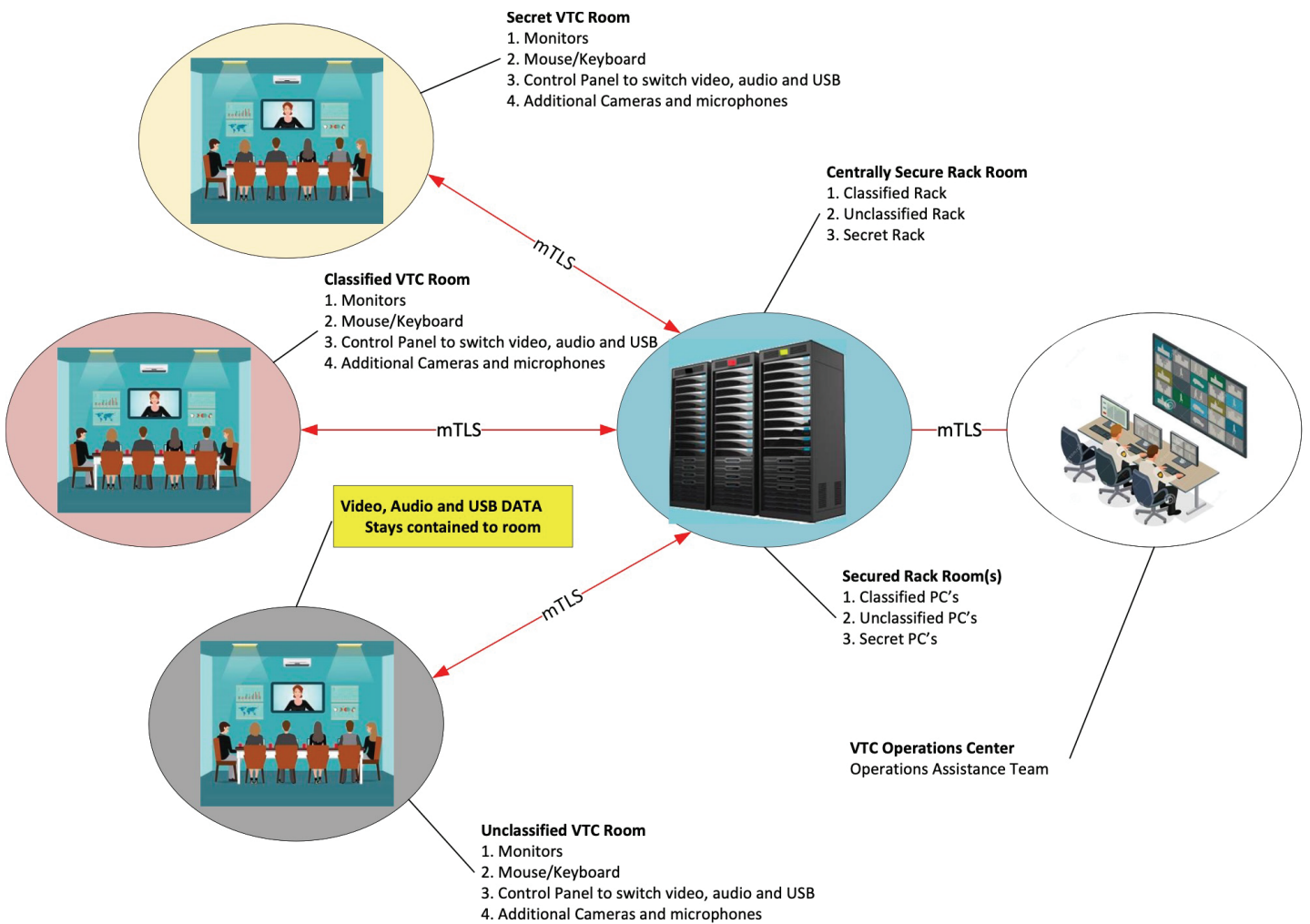3. Control Panel to switch video, audio and USB
4. Enterprise Ethernet Switch

PESA

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VTC ROOM ENHANCED BY SECURA®

Secret VTC Room
1. Monitors
2. Mouse/Keyboard
3. Control Panel to switch video, audio and USB
4. Additional Cameras and microphones

Centrally Secure Rack Room
1. Classified Rack
2. Unclassified Rack
3. Secret Rack

Classified VTC Room
1. Monitors
2. Mouse/Keyboard
3. Control Panel to switch video, audio and USB
4. Additional Cameras and microphones

mTLS

Video, Audio and USB DATA Stays contained to room

Secured Rack Room(s)
1. Classified PC's
2. Unclassified PC's
3. Secret PC's

VTC Operations Center
Operations Assistance Team

Unclassified VTC Room
1. Monitors
2. Mouse/Keyboard
3. Control Panel to switch video, audio and USB
4. Additional Cameras and microphones

SECURA®
VTC ROOM ENHANCED BY SECURA®
WITH CDS IMPLEMENTATION

Classified VTC Room
1. Dedicated Listener Devices

3rd Party Approved CDS
(Video, Audio)

Video/Audio

mTLS Control (Class)

Classified Control

DATA DIODE

mTLS Control (Unclass)

Unclassified Control

Dedicated CDS devices within each domain can be connected by the CDS using SEPARATE control blocks for each half of the diode connection.

Unclassified VTC Room
1. Dedicated Sender Devices