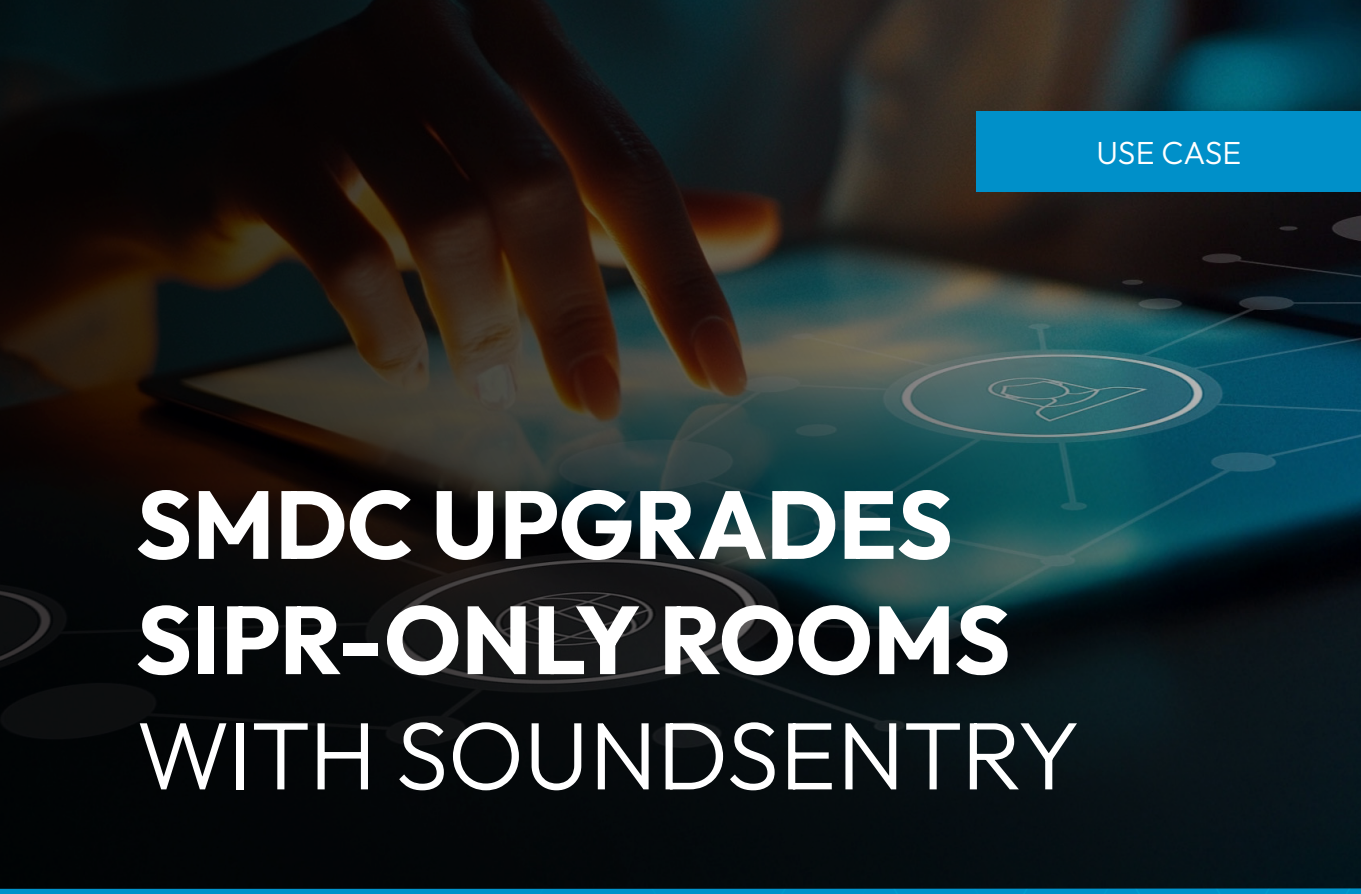

USE CASE

SMDC UPGRADES SIPR-ONLY ROOMS WITH SOUNDSENTRY

HighSecLabs
Highest Security Solutions

HLT38720 Rev 1.0

TABLE OF CONTACTS

1. Overview 4
2. Challenges 4
3. Solution 5
4. How it Works 6
5. Results 7
6. Outcome Summary 7

SMDC Upgrades SIPR-Only VTC Rooms into **Multi-Class Collaboration Spaces with SoundSentry**

How High Sec Labs' SoundSentry transformed single-classification VTC rooms into flexible, hardware-secured multi-domain collaboration environments, at roughly half the cost of alternative approaches.

1. OVERVIEW

A customer within SMDC needed to modernize several SIPR-only VTC rooms to support multi-classification collaboration while maintaining secure separation between networks and preserving a practical room workflow.

Instead of deploying separate room systems for each classification, SMDC selected High Sec Labs SoundSentry to convert these rooms into multi-class collaboration spaces using a secure, hardware-based architecture.

Result:

A more flexible collaboration environment supporting both SIPR and NIPR workflows, with an estimated deployment cost approximately 50% lower than an alternative proposal that did not include HSL technology.

2. CHALLENGES

- Rooms limited to SIPR-only VTC, with no support for multi-classification workflows
- Needed secure network and peripheral separation across classification levels
- Required NIPR collaboration (Teams and similar) alongside SIPR VTC in the same space
- Existing proposals required duplicated room resources per classification
- High deployment cost and integration complexity of alternative approaches

3. SOLUTION

SMDC selected **SoundSentry** from High Sec Labs to transform the rooms into secure, multi-class collaboration spaces while preserving a familiar conferencing workflow and reducing duplicated equipment.

SoundSentry Core Components

- **HSL Ultra Mini-Matrix Meeting Room KVM:** simultaneous view and control of SIPR and NIPR sources
- **FS11USB2 Videobar Diode:** hardware-isolated videobar emulation and secure assignment
- **HSL Smart Power Ports:** RS-232-controlled power sequencing per workflow
- **HSL RS-232 Switcher:** routes control commands to appropriate room devices
- Existing VTC/collaboration endpoints retained; no need to rip-and-replace existing endpoints
- RS-232 room control logic coordinates switching, assignment, and sequencing

4. HOW IT WORKS

- SIPR and NIPR sources connect to the Ultra Mini-Matrix Secure Meeting Room KVM.
- The FS11uSB2 Videobar Diode securely emulates and controls videobar connectivity, allowing the videobar resource to be assigned to the selected workflow.
- RS-232 control coordinates room behavior, including source selection, device assignment, and switching logic.
- The RS-232 Switcher routes control commands to the appropriate room devices.
- The Smart Power Ports provide RS-232-controlled power management as part of the room switching/control sequence.
- KVM outputs feed the room's collaboration/VTC path, enabling authorized source content to be routed within the secure collaboration workflow.
- The same room supports both NIPR collaboration sessions and SIPR VTC sessions while reducing the need for separate operator-facing systems per classification.

5. RESULTS

Operational Outcomes	Cost & Deployment Outcomes
Multi-class collaboration in a single room **environment**	Reduced duplicated room equipment
Hardware-based separation of signals, peripherals, and control paths	Lower installation and integration effort
Improved operator usability through **multiview**	Simplified control system architecture
Integrated switching and power sequencing	Lower lifecycle support burden

6. OUTCOME SUMMARY

SMDC successfully converted SIPR-only VTC rooms into **secure multi-class collaboration** spaces using **HSL SoundSentry**, enabling both SIPR and NIPR workflows with shared room resources, secure hardware-based separation, and substantially lower deployment cost.

SoundSentry enabled SMDC to modernize SIPR-only VTC rooms into secure multi-class collaboration spaces, reducing duplicated room resources and delivering an estimated ~50% lower deployment cost versus an alternative approach.

www.highseclabs.com

High Sec Labs (HSL) develops high-quality cyber-defense solutions in the field of network and peripheral isolation for protecting national assets and infrastructure.

The company, headquartered in Or Akiva, Israel, was founded in 2008 and has a second manufacturing site in the United States.

High Sec Lab's roots are deeply embedded in the defense and commercial industries developing cyber protection solutions. Among its customers are some of the world's leading governments and defense organizations as well as commercial companies such as banks, healthcare providers, and national infrastructure companies.

HighSecLabs
Highest Security Solutions

© 2026 HighSecLabs Ltd. All rights reserved. All trade names are trademarks or registered trademarks of respective manufacturers listed.
Specifications are subjected to change without prior notice. Patents: www.highseclabs.com/patents/. HLT38720 Rev 1.0