

# AFRL

## Voice & Video Cross Domain Solution

*Enabling Secure, Real-Time Communications for the Warfighter*

### WHAT IS V2CDS?

V2CDS delivers secure, real-time Voice over Internet Protocol (VoIP) communication and conferencing with point-to-point video capability across two domains. V2CDS maintains the security assurances necessary to protect sensitive information between multiple security enclaves. Using a VoIP phone, users can make two-party direct and multi-party conference calls, allowing users across two security networks to communicate simultaneously.

In addition, V2CDS includes video support that enables users to initiate, run and securely close point-to-point videophone calls for cross-domain communications. This solution authenticates users and maintains an acceptable security posture, while simultaneously maintaining quality point-to-point video capability.

### WHAT BENEFITS DOES V2CDS PROVIDE?

- One-to-one Voice Calling
- Audio Teleconferencing
- One-to-one Video Call, including High Definition (1080p)
- Room-to-Room VTC
- Integrates with Existing COTS VoIP Infrastructure and Phones
- Security Classification Banner and Announcement
- One Phone on Desk for Single and Cross Domain Calls

### WHAT SECURITY FEATURES DOES V2CDS HAVE?

V2CDS is compliant with the NCDSMO Raise-The-Bar (RTB) guidelines and maintains the security assurances necessary to protect sensitive information between multiple security enclaves. Unlike other Cross Domain Solutions, V2CDS filters not only the packet headers, but also filters the audio and video media payloads. to filter not only packet headers, but also the media payload V2CDS authenticates users and enforces strict security policies, while simultaneously maintaining quality point-to-point video capability.

V2CDS includes:

- RTB Phase 1 compliant architecture
- Security Classification Banner
- Media Security Filters for Audio & Video to prevent covert channels

### WHAT IS A CROSS DOMAIN SOLUTION?

Government information systems are connected to a variety of networks, each controlled by different security policies. These domains are isolated from each other, typically to protect sensitive/ classified information and network resources. A Cross Domain Solution enables users to securely access or share information between these differently classified networks.

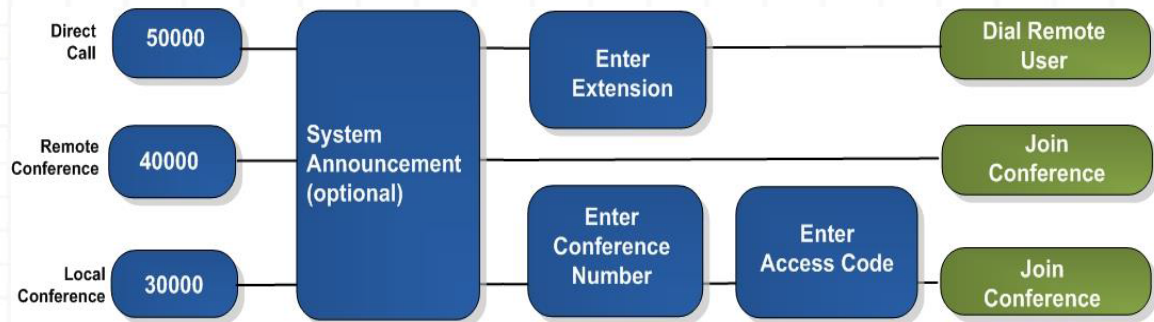
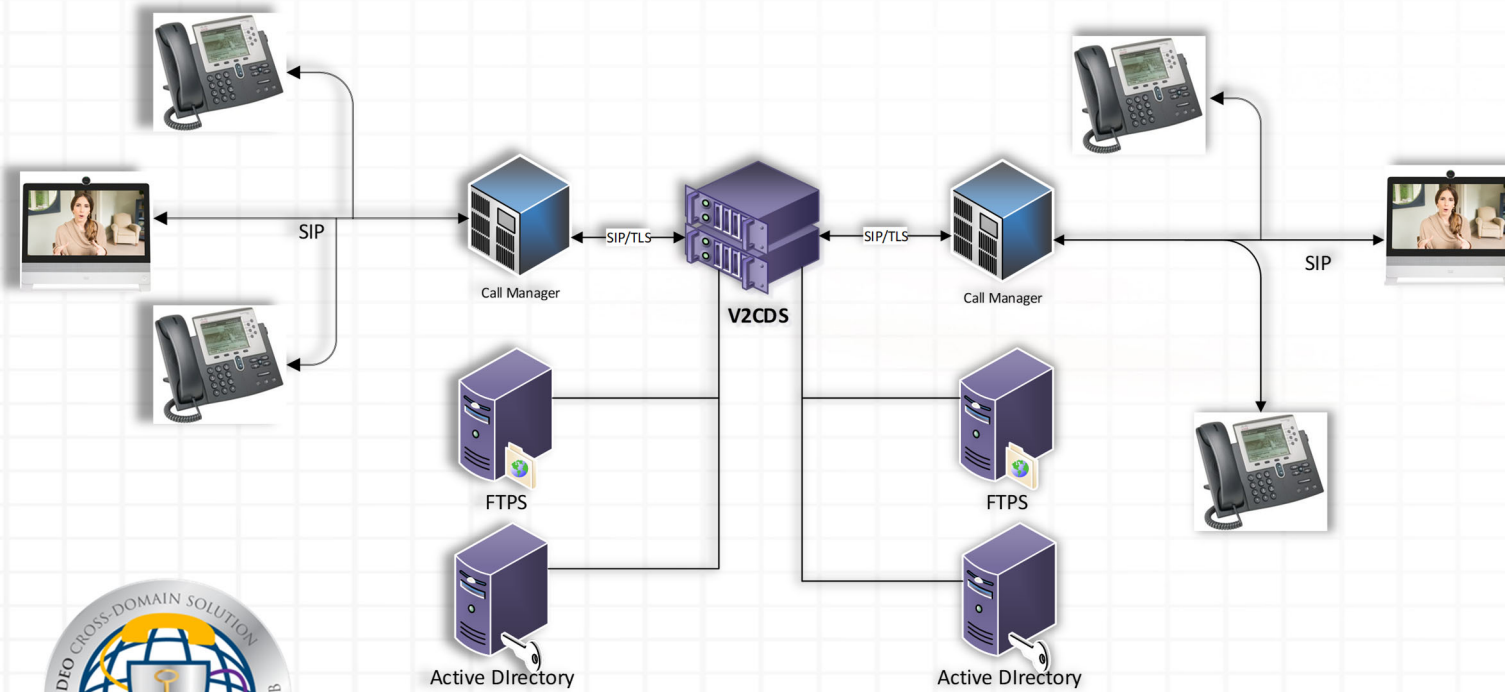


### History

The **C**ross-domain **C**OLlaboration **T**echnology (CCOLT) Program Management Office (PMO), hosted by the Information Handling Branch at the Air Force Research Laboratory (AFRL/RIEB), creates solutions for secure single domain and cross-domain sharing of information, to enable effective collaboration in multiple types of environments.



# THE AIR FORCE RESEARCH LABORATORY



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<https://intelshare.intelink.gov/sites/afrl-idhs/web/ccolt/index.html>

<https://rie.afmc.af.smil.mil/ccolt>

<https://www.rome.ic.gov/ccolt>

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