Freeport Technologies Enterprise Room Control provides built in security modeling which greatly simplifies the deployment and enforcement of security policies in a multi-domain environment without custom programming

Freeport's Audio Visual (AV) system software Enterprise Room Control (ERC) was developed using an object-oriented programming language: Microsoft C#. It was designed as a simplified and modern software platform which provides scalability and maintainability in an environment that has been historically limited in both of these areas by proprietary AV programming languages and their associated hardware.

Highly Scalable

ERC is a highly scalable and comprehensive software platform which provides a simplified deployment that is capable of being upgraded and expanded without the need to incur costly programming efforts. The system design is configured in the software – future changes or additions to the system design will not require revisions to the room control software source code; instead the system software can be reconfigured using a built in web interface.

Designed from the ground up to handle the simplest of rooms to the largest command/operation centers, ERC utilizes a common graphical user interface (GUI) for managing and maintaining system configurations. Pre-configured system templates provide simplified setup across users, roles, and system features and functions.

Minimizes Custom Development

ERC eliminates the time and expense required to develop custom AV software while providing an advanced feature set with security related policy enforcement. In addition, ERC supports an unlimited number of client interface devices (computer, touch panel, tablet, etc) which can be used to control single or multiple systems without the need for expensive, proprietary AV controllers and touch panel devices.

ERC Features

Easy to Use

An intuitive, shallow user interface (Web-Based or Desktop Application) spans all system types and is configurable to display only the relevant system capabilities and functions

Lower Cost of Ownership

Eliminates expensive proprietary AV controllers and touch panels by using standard PC servers and low cost touch screen devices; reduced hardware and maintenance costs

Manufacturer Neutral

Manufacture-neutral software ensures deployed hardware assets have life expectancies driven by needs

Centralized Control

Multiple AV systems controlled and managed through a centrally located server

Remote Facilitation

Remotely facilitate and control a room system and monitor status of hardware components

Reliability

Supports full redundancy with failover between multiple ERC servers

Licensing

Invest only in the system licenses you need and add licenses to the same ERC server as new systems are deployed

ERC User Interface

Features and Functions

- Shallow GUI interface
- Mode selection (Presentation, Audio Conference, Video Conference, System Off)
- Network/System classification selection
- Automated source selection
- Source transport controls, volume control and mute
- Independent display control
- Microphone control and status
- Audio call control and status
- Audio caller volume control and mute function
- Audio recent calls list, redial
- Audio directory access and management
- Video call control and status
- Video caller volume control and mute function
- Video recent call list, redial
- Video directory access and management
- Camera selection and control (pan, tilt, zoom) including 6 user pre-sets per camera
- Advanced video call options including standard codec menu features and navigation
- Master volume control
- Manual source to destination routing (any source to any display or speaker zone)
- Favorites manager (save, name, and recall favorite audio and video routes)

Security Risk Mitigation

ERC provides built-in configuration tools that apply a variety of security related principles in relation to the system design and functional requirements of the AV system. When applied, these configuration tools have the potential to eliminate AV security related risks.

Supports Local and Enterprise Systems

ERC can control single or multiple AV room systems at the local level or from a single server at the enterprise level. Each system is configured and stored on the ERC server detailing the room components and capabilities that are being managed. System configurations can be saved and exported/imported for backup and restoration.

Compatible with Multiple Control Devices

The ERC user interface is accessed using a wired touch monitor, tablet, mobile device, or through desktop/laptop computers. Each client interface registers with the server and provides only the room features and functions that have been authorized by the system's configuration file. ERC stores client interface access rights for all AV sources, displays and associated functionality. The credentials are used to determine which AV room systems a client interface can control. In addition, individual room components (media players, video codecs, etc.) and room functionality (audio or video conference mode, classified network access, etc.) can be enabled or disabled through touch panel access rights.

For a public demo of the overall capabilities of ERC please visit:
http://ercdemo.freeporttech.com/ErcWeb/EnterpriseRoomControl.aspx?username=erc

Product Specifications

Device Control and Management

- Display Devices
- AV Control Systems
- Video Matrix Switchers
- Image Processors
- Multi-Viewers
- Audio Matrix Mixers and Processors
- Audio Amplifiers
- Video Codecs
- VTC and Security Cameras
- Media Players
- Television Tuners
- Document Cameras
- Lighting and Shades
- Function Devices (Infrared, Serial, I/O Relay)

Security

- Secure appliance-based architecture
- Access Control
- Password/PIN Protection
- Mode Selection
- Source and Destination Classification

System Management

- Room configuration manager for system setup and configuration changes
- Direct device commands for troubleshooting and manual testing of components
- Room and device statistics
- ERC Message viewer for monitoring and troubleshooting of hardware components
- Role-based permission levels
- Policy-based room / resource controls

Server Hardware Requirements

- X86 or X64 1.5 GHz or higher multi-core processor
- 4 GB RAM

Server Software Requirements

- Windows Server® 2008, or 2012
- Microsoft SQL Server® 2008, or 2012

Network Client Requirements

- Wired touch monitor w/ video input or any device with an HTML5 compatible web browser

Warranty and Support

Service and support agreements provide technical telephone support, onsite troubleshooting, and software updates as needed. Please contact your Freeport sales representative for more details: sales@freeporttech.com.

About Freeport Technologies

Freeport develops and manufactures innovative AV products designed to maximize security in a multi-domain environment. We have extensive experience with classified and unclassified audio visual (AV) systems, video conferencing networks, and unified communications. Our TS/SCI cleared engineers produce hardware and software commercial off the shelf (COTS) products that facilitate turnkey systems that are secure, cost effective, and easy to maintain, upgrade and support. These systems include mobile solutions, conference rooms, training rooms, and large command and control centers.