

System Architecture

Mission Support Design

- Command & Control Security System for Jails and Prisons
- Database Centric – Can Interface with Inmate Systems & Court Systems
- Unlimited Control Consoles
- Supports Remote Monitoring & Central Control Backup Operations

User Maintainable Open Architecture

- Open System Design Allows IT Staff to Maintain and Update
- Table Driven Configuration
- No PLCs to Program

Secure and Efficient Operation

- Queuing in Priority and Time Order for Rapid Response
- Safely Open and Secure 20 Doors per Minute per Operator
- Optimize Staffing with Modes to Direct Control of Areas to Selected Consoles

Low Risk Operation

- Intuitive Interface
- Auto Selected Video and Intercom Encourages 100% Identity Verification

Tried and True – Easy to Use

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Open Systems Design

PRESTO is designed for use in a modern security architecture using open system and TCP/IP networks. A typical implementation is shown in the diagram on the next page. PRESTO runs on a standard rack mounted server under Windows server operating system and utilizes Microsoft SQL Server as the operating database.

The server hosted PRESTO software manages all aspects of the control system by periodically polling field devices and security subsystems for status and sending back commands based on operator inputs. There is no PLC in this system, only Ethernet compatible controllers. All control logic is within PRESTO and driven by table data.

The control station hosted PRESTO software provides the user interface for operation running under standard Windows XP or Vista operating system. The PRESTO software takes control of the console PC and will not allow operators to use normal PC functions which might otherwise compromise system security and integrity.

New Construction and Retrofit Applicability

PRESTO is suitable for new construction and renovations as well as hybrid new/old systems. For new construction, we recommend using all modular digital IP video, intercoms and paging to significantly simplify the installation, configuration and maintenance while reducing costs. Likewise, we strongly recommend using new modular components for locking control and discrete I/O. These new modular components require no engineering design, only determining the quantities and specifying sufficient rack space to hold them.

Designed for Modular Architecture

PRESTO was designed as the central control component in a modular security system architecture. In this architecture, high speed TCP/IP networks communicate between the modular system components. There can be any number of components and they can be located anywhere on the network. This flexibility allows rapid deployment of emergency control rooms and the operational flexibility to delegate and return control to a remote console as conditions change.

Modular Architecture Advantages

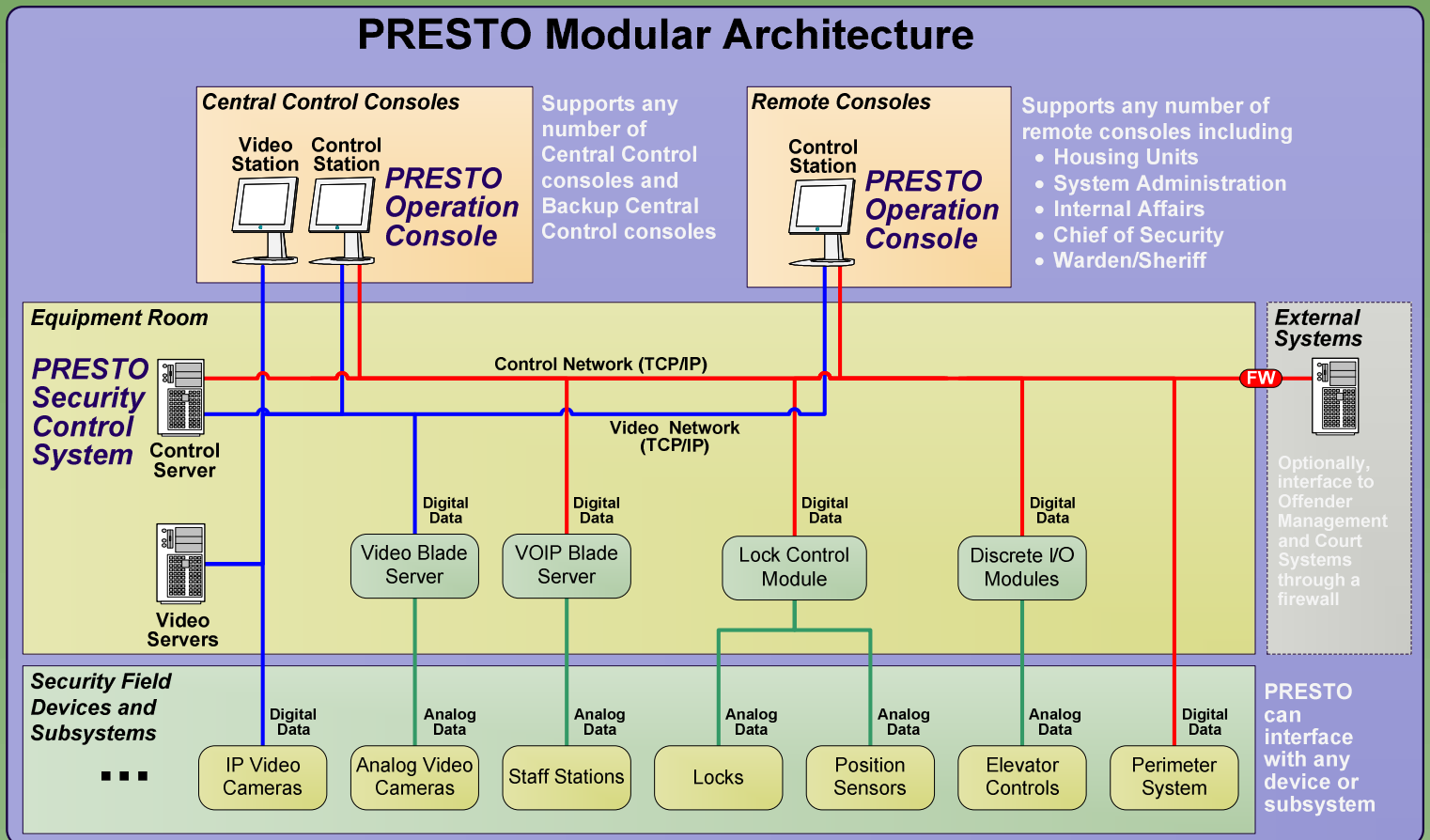
True modular components are totally self contained and can be snapped together to form very large and topographically complex systems without the need for engineering. And with Commercial-Off-The-Shelf (COTS) modules now available, only the quantities, location and routing of the interconnections need to be defined. This allows a modular security system to be 100% designed and specified in the bid package. Given the cross couplings of security specifications with other trades, this eliminates trade confusion, in bidding, construction and closeout. Most significantly, it allows all the trade work on all systems to begin simultaneously instead of waiting months for an approved security system design and missing the window to embed conduit in poured concrete.

Open System Design Benefits

- ✓ Lower Costs
- ✓ Improved Maintainability
- ✓ Easy Future Updates
- ✓ In-house Supportable

Entire system is built with standard IT tools and commercial-off-the-shelf (COTS) products

- Configurability – Expandability – Interoperability – Maintainability



Mission Support Design

- Database centric design
- Unlimited Control Consoles
- Supports remote monitoring & Central Control backup operations
- System mode controls to easily direct requests and alarms to consoles for operation or emergency scenarios
- Can Interface with Offender Management Systems & Court Systems

User Maintainable Open Architecture

- Open system design allows IT Staff to maintain and update
- Table driven configuration
- No PLCs to program

Software Tools You Know

- Microsoft Visual BASIC and SQL Server
- NET Architecture

IT Hardware You Trust

- Standard servers and console controls
- Standard switches and network infrastructure

Durable Industrial Control Hardware

- Lock Control and discrete I/O modules
- Intercom controller and blade servers

Standard Correctional Field Devices

- Cameras, intercom stations, door position switches for example

Supports Security Subsystems

- IP video systems, Perimeter systems, Fire systems for example