

DesignOps Design, Commissioning, and Operations Application

Symetrix establishes a higher standard with a comprehensive Design, Creation, Configuration, Control, Operations, and Management application for complete Audio, Video, and Control system deployment.

OVERVIEW

Designed from the ground up with advanced software design incorporating contemporary web technologies, the software reimagines every aspect of audio video control workflows and provides a dramatic new level of speed, ease of use, capabilities, and innovation.

DesignOps provides detailed site design, configuration and programming of Symetrix Cognio smart systems and managed devices, customized user interface creation, reusable elements, offline emulation, diagnostics, system security, and control with Symetrix and third-party systems.

DesignOps software is more efficient in addressing what really matters in design with more flexibility to customize and optimize systems for the best performance and user experience.

EFFICIENT DESIGNING

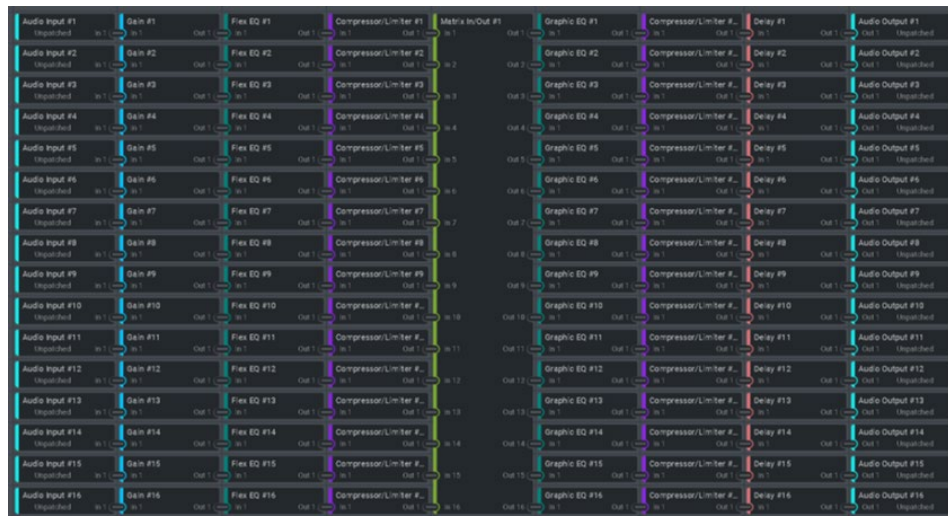
Software-First System Design- Allocate system resources independent of underlying hardware for continual adaptability to changing needs with scalable resources on demand.

Software-Driven Scalability- Scale smoothly from designing a small space with just a few components to the largest of sites enabling completing projects faster and easier.

Patented Software Workflows- Design sites using a wire-free process with a grid, spreadsheet style methodology. Eliminate repetitive tasks, reduce manual effort and accelerate timelines resulting in projects taking less time and reducing costs.

Signal Flow Optimizations- Design systems to flexibly move audio and control signals needing less hardware to reduce costs. Create full systems for different spaces without the need for a traditional DSP that include signal processing, AVoIP audio channels, and control in various types of smart Cognio hardware systems.

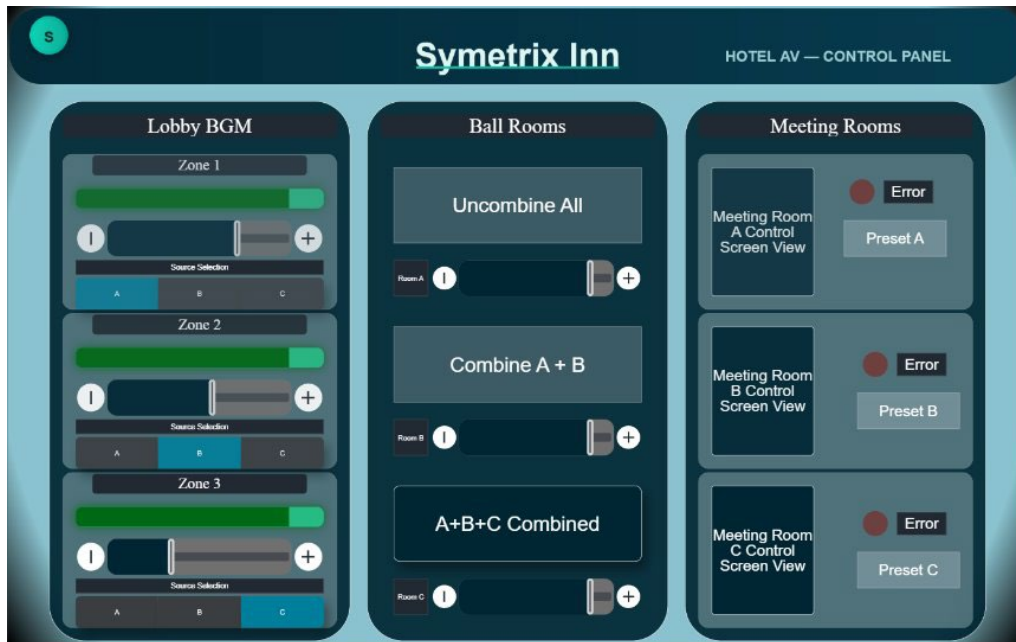
Segmented Designs- Create spaces with audio and control signal distribution that are reusable in and across projects. Design spaces and signal flows first, then allocate hardware as needed.



CONTROL SCREEN CREATION

Attractive, Code-Free Control Screens- Create customizable, vector-based control screens that are unique to user requirements and are visually engaging without writing a single line of code or relying on specialized third-party design software. Build multi-panel interfaces with built in navigation and without having to duplicate common controls. Update control screen designs with just a single click.

Custom Themes- Define sets of styles once, create a library of interface assets and reuse them across projects or share with team members.



AVoIP INTEGRATION

AV over IP Audio Channels- Networked audio is available everywhere across all Symetrix smart systems and managed devices manage transmit and receive channels of audio from few to many via the Dante IP audio protocol on a Gigabit network for system design flexibility. These channels can be routed between physically separate hardware units using Dante Receive and Transmit modules, keeping designs manageable while providing a mechanism to build huge multi-unit processing architectures.

Network I/O Manager- Configure the Dante network audio buses, set the operating mode of the Dante ports, and manage Dante I/O modules.

SYSTEM OPERATIONS

Comprehensive Operations Toolset- Ensure flawless performance weeks or years in advance of installations, reducing on-site visits as well as troubleshooting and commissioning times.

Operation Mode- Powerful commissioning, diagnostics, management, and monitoring functionality with real-time status, full system metering and detailed, searchable diagnostics and event logging.

Offline Emulation- Use signal generation to emulate signal processing and control functionality in real time without being connected to hardware for no limits site design off site and offline.

SYSTEM CONTROL

Universal Device Control - through an open API and support of all modern protocols, eliminates the need for restrictive and costly dedicated control processors and provides full ecosystem intelligence. Cognio produces engaging AV and Control projects by connecting third-party devices, control systems, and monitoring platforms to route signals, assign end points, control devices, and more.

Connectivity- In addition to communications with various Symetrix and third-party products, DesignOps can transmit strings using TCP/IP, or UDP/IP to control third-party devices or use external TCP/IP signals to trigger internal functions.

Control Choices- End user control options include Symetrix TC- Series touchscreens and W-Series controllers, xIO endpoints, end user devices, along with support for third-party control systems such as Crestron and AMX via a flexible JSON RPC control API.

LUA Drivers- Consistent driver model for Dante and non-Dante Devices. Control via UDP, TCP, HTTP, SSH, and more.

WORKFLOW FUNCTIONS

Re-use at Every Level- Implement proven components and templates across projects, dramatically reducing design time minimizing errors, and producing consistent results. Create and clone modular themes, segments, and site elements to use again and again on different projects.

Signal Processing- All classes of audio processing modules for signal routing and shaping are provided with easy connecting, replacing, and adding in the grid design interface.

Presets- Set a number of parameters to a pre-determined state at once. Most controls in a system can be stored in presets. These controls include faders and buttons. Presets can be recalled via panels, switches, user devices Control Screens, or by third party controllers.

Security- Manage use and access of Cognio hardware, control screens, and user devices. Strong access controls limit end-user access to just those control aspects that are permitted. with disabled unused services (no Telnet/FTP/TFTP). Security is enhanced with default End-to-End Encryption (TLS with certificate validation), encrypted disk images secure boot, signed firmware, and secure updates via SFTP.

Compatible Symetrix Products:

Smart Systems

C100 Processor Server

C20 Processor

C10 Processor

TC- Series Touchscreens

Managed Devices

xIO XLR Endpoints

xIO Bluetooth Endpoints

W-Series Remotes

xIO Expanders