Symetrix

COGNIO™
PLATFORM

Your Next-Generation
AV and Control Platform.
Intelligent. Scalable.

Cognio gives AV professionals the power to design, deploy, and scale smarter, without complexity or compromise.

Cognio's revolutionary distributed intelligence and innovative design and operations software, delivers unprecedented ability to create the systems of the future.

Advanced capabilities put more power in your hands to deliver on expectations and budgets.

More Capabilities.
Less Hardware.

Cognio's distributed platform implementation delivers unprecedented design flexibility while reducing hardware requirements, cutting costs without compromising reliability.
By leveraging software-driven architecture, you get powerful systems that scale efficiently and cost less than traditional hardware-centric solutions.

Expand Easily.
Operate Confidently.

Scaling your AV environment shouldn't mean complexity. With Cognio, every device works the same way, every workflow feels familiar, and expansion never requires additional control hardware. Grow from a handful of rooms to hundreds—without retraining, retooling, or breaking your budget.

Design Smarter.
Deploy Faster.

Cognio's patented DesignOps software workflows eliminate repetitive tasks, enable reuse at every level, and provide offline emulation, so you can design, validate, and deploy systems in record time without sacrificing quality.
By streamlining complexity and reducing errors, Cognio helps you meet tight deadlines, lower labor costs, and deliver flawless results faster than ever.

Control Anything.

With intuitive tools, polished designs, and seamless device compatibility, Cognio lets you deliver professional results faster, without complexity or compromise.

Create stunning, modern control screens without writing a single line of code or relying on specialized third-party software.

Cognio Deliverables

Less Hardware, Less Cost

Distributed platform architecture offers an alternative to dedicated AV and Control processors which reduces hardware dependency and substantially lowers upfront costs while maintaining system performance.

Hardware Dependancy & Upfront Cost

Dedicated (Traditional)　　　　　　　　　　Distributed (Cognio)
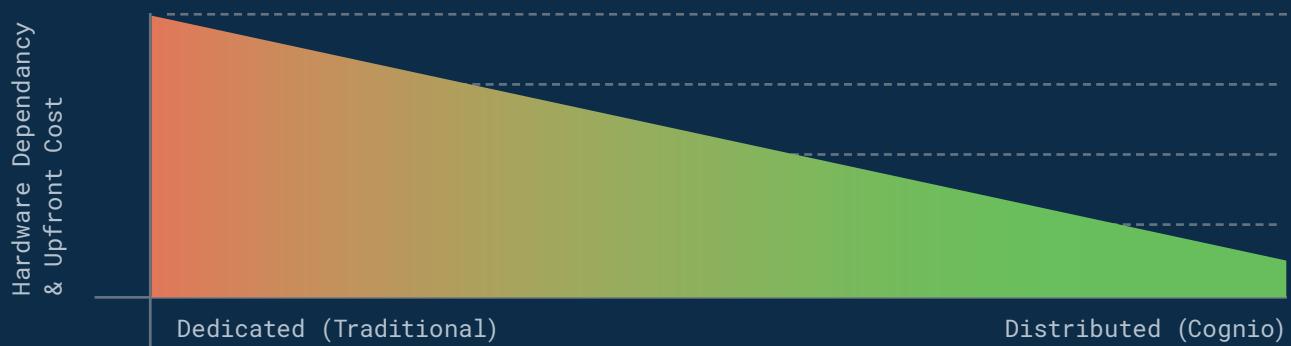
Next Generation Extensibility

Cognio's distributed intelligence makes every device smart, empowering AV systems with unmatched flexibility. Features and capabilities can be upgraded across the entire network instantly through simple software updates, today or in the future.
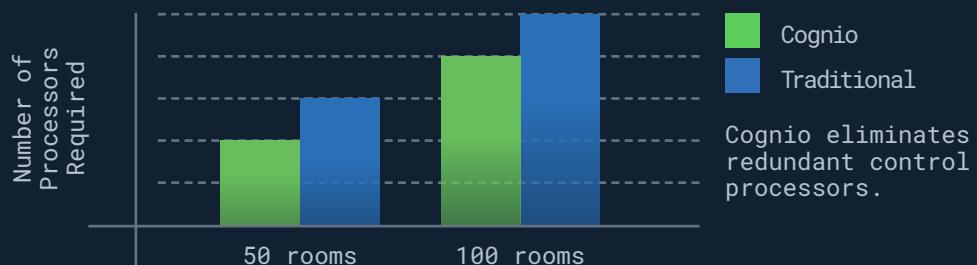

Cognio

Traditional

Time and Effot

Scale With Software

Distributed intelligence implementation puts embedded intelligence in every Cognio-enabled device so control, channel, and processing functionality can scale through simple software updates as more devices are added without adding costly processors to save in expansion costs and reduce downtime.
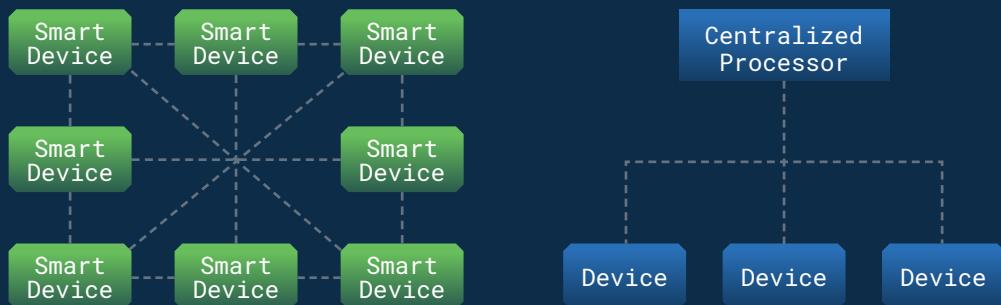
Design for Efficiency

The design flexibility integrated into Cognio optimizes resources by minimizing redundant components to reduce installation complexity and overall hardware footprint, resulting in significant cost savings and more efficient systems.

Cognio
Traditional

Cognio eliminates redundant control processors.

Number of Processors Required

50 rooms   100 rooms

Reduce Effort, Gain Time

Cognio DesignOps' software offers patented workflows that remove repetitive tasks, reduce manual effort, and accelerate project timelines.

Cognio Project

Traditional Project
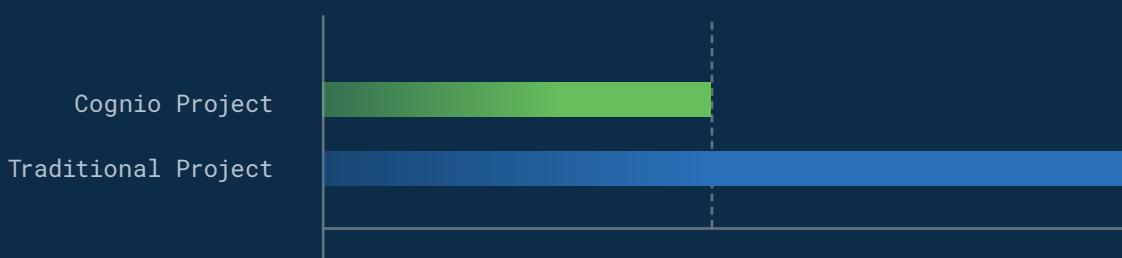
Cognio Solutions

Enterprise Standardization Across Multiple Sites

Deploy consistent AV systems globally while reducing CapEx and operational complexity. Large organizations need uniform workflows and minimal re-training for hundreds of rooms and spaces.

Higher-Education Multi-Building Campus Response

Standardize AV across classrooms and lecture halls with limited budgets and tight academic schedules. Seasonal refresh cycles and semester deadlines require rapid deployment and future-ready flexibility.

Retail & Hospitality Chain Rollouts

Replicate AV systems across hundreds of locations with consistent branding and minimal onsite expertise. Frequent openings and high brand standards demand high-performance solutions that are repeatable and cost-effective

Large Event or Conference Rapid Setup

Deploy high-performance AV support quickly for large-scale events without sacrificing reliability or aesthetics. Short setup windows and premium expectations require polished user experiences and interfaces.

Hybrid Workplace Transformation

Adapt AV systems for evolving collaboration models without re-training or hardware swaps. Frequent reconfiguration of meeting spaces is a necessity for hybrid work environments.

Managed Services & Remote Commissioning

Reduce site visits and finalize AV systems remotely to meet Service Level Agreement requirements. Service providers need tools for remote validation, monitoring, and system updates.

Cognio Differences

1 Distributed Platform Architecture

Enables decentralized system design, reducing reliance on centralized hardware and lowering overall hardware requirements.

→ Plan centralized processing, distributed processing, or hybrid combinations of both.

→ Reduce the waste with under-utilized systems by deploying just the right size and amount of hardware elements.

→ Access signal processing, AVoIP channels, control, and bring your own device connectivity everywhere.

→ Incrementally add processing, channels, and control with hardware elements that closely match requirements.

→ Develop site files and signal flow segments in advance without selecting specific hardware.

→ Optimize server room resources/loading with complete flexibility. Cognio lets you adapt rack space, power, and cooling demands effortlessly while placing processing and I/O exactly where you need them, in any configuration.

Cognio Differences

2 Patented Software Workflows

Streamline design, control, commissioning, and management with automated tasks, reuse at all levels, and offline emulation, cutting time and complexity.

→ Work with a grid-based workflow canvas similar to a spreadsheet with a wire-free methodology.

→ Divide and split designs with segmented signal flows and control.

→ Template and clone parts of designs for reuse to similar rooms and locations.

→ Utilize real-time emulation of Signal Processing and Control functionality off-line without being connected to hardware.

→ Run processing in emulation mode on a PC to see and hear actual audio moving through designs in real-time for assurance of correct flows to validate and tune designs before deploying hardware.

Audio Input #1
Unpatched   In 1

British EQ #1 In 1 Out 1	Compressor/Limiter #1 In 1 Out 1	
British EQ #2 In 1 Out 1	Compressor/Limiter #2 In 1 Out 1	
Audio Input #3 Unpatched In 1	British EQ #3 In 1 Out 1	Compressor/Limiter #3 In 1 Out 1
Audio Input #4 Unpatched In 1	British EQ #4 In 1 Out 1	Compressor/Limiter #4 In 1 Out 1
Audio Input #5 Unpatched In 1	British EQ #5 In 1 Out 1	Compressor/Limiter #5 In 1 Out 1
Audio Input #6 Unpatched In 1	British EQ #6 In 1 Out 1	Compressor/Limiter #6 In 1 Out 1
Audio Input #7 Unpatched In 1	British EQ #7 In 1 Out 1	Compressor/Limiter #7 In 1 Out 1
Audio Input #8 Unpatched In 1	British EQ #8 In 1 Out 1	Compressor/Limiter #8 In 1 Out 1

Site	All Control Panel Groups	Signal Flow Segment 1

Unspecified Cognio Device #1
0.0.0.0

VISUAL OBJECTS

Frame

I/O (6)

Audio Input

Audio Output

Control Input

Control Output

Tone Generator

Noise Generator

GAINS (3)

Gain

Panner

VCA

MIXERS (5)

Matrix In

Matrix In/Out

Matrix Out

Mixer

Matrix

AUTOMIXER (4)

Gated Automixer Leader

Gated Automixer Follower

Education   01-23 08…

C20-Processor-17E5B4   10.4.3.12   01-23 08…   1%
Managed Devices (0)   Control Panel Groups (1)
+ Place a Managed Device   Education
                                                 + Add a Control Panel Group
+ Place a Cognio Smart Device

Hotel   01-23 08…

C20-Processor-17E5B4   10.4.3.12   01-23 08…   1%
Managed Devices (0)   Control Panel Groups (1)
+ Place a Managed Device   Hotel
                                                 + Add a Control Panel Group
+ Place a Cognio Smart Device

Event Center   01-23 08…

C20-Processor-17E5B4   10.4.3.12   01-23 08…   2%
Managed Devices (0)   Control Panel Groups (1)
+ Place a Managed Device   Event Center
                                                 + Add a Control Panel Group
+ Place a Cognio Smart Device

Symetrix

Symetrix delivers powerful AV processing and control solutions through an innovative ecosystem that transforms systems and accelerates project delivery. By enabling teams to work smarter, Symetrix helps create exceptional results that delight customers, making complex AV and control projects faster, better, and more reliable from start to finish.

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Explore
Cognio Platform