Composer® Design, Configuration, and Control Application

Symetrix Composer is a multi-functional application that combines the necessary tasks and processes to successfully deploy audio/ video/ control solutions into any environment quickly and easily.

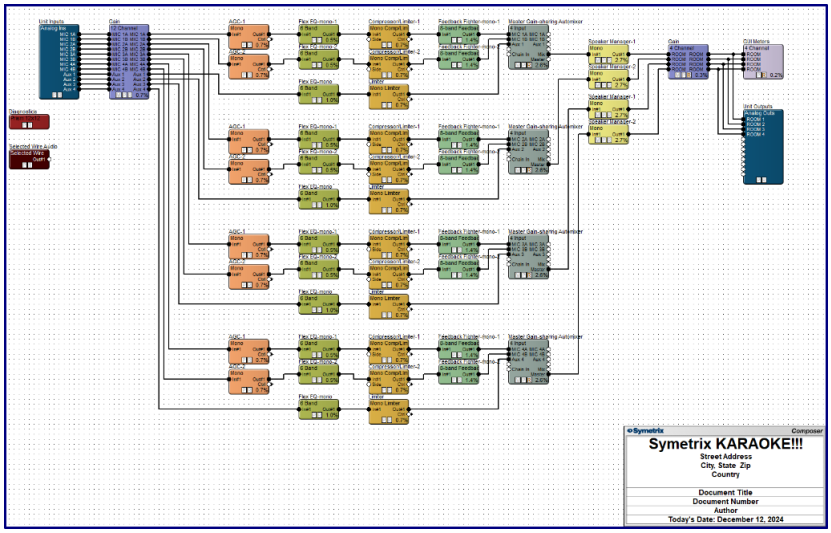
OVERVIEW

Composer provides end-to-end configuration of Symetrix digital signal processors, customized user interface creation, event scheduling, preset controls, local and remote logic output programming, DSP and control security, integration of Symetrix and third-party control systems, and detailed site design.

COMPREHENSIVE DESIGNING

Composer is a Windows application, based on CAD technology, with an intuitive drag and drop style interface that enables audio, video, and control system designers to define digital media processes in a straightforward programming environment. Designs generated by designers are quickly compiled and downloaded to target hardware with a single button press. Composer's fast, fluid navigation accelerates site file design with over 600 proven DSP modules. Users can select any number of processes needed to perform a particular job on a module by module basis.

The connections between modules are implemented by "linking" the memory locations of different modules with Composer maintaining a "Net List" or connection list between processing objects. With powerful, easy-to-use system programming, a complete end-to-end DSP signal path can be designed using this single app.



SOLUTION INTEROPERABILITY

Audio signal routings, DSP modules, and control signal processing are at the sole discretion of the user. Systems are designed to perfectly match specifications and conform as requirements change or evolve. All classes of audio processing modules for signal routing and shaping are provided. Application-specific modules address special purpose requirements like conferencing and room combining.

Efficiently manage components with batch firmware updates to upgrade multiple devices sequentially with a single action, update firmware directly from Composer, and view important details such as network names, firmware status, MAC and IP addresses, device types, and firmware versions.

DANTE INTEGRATION

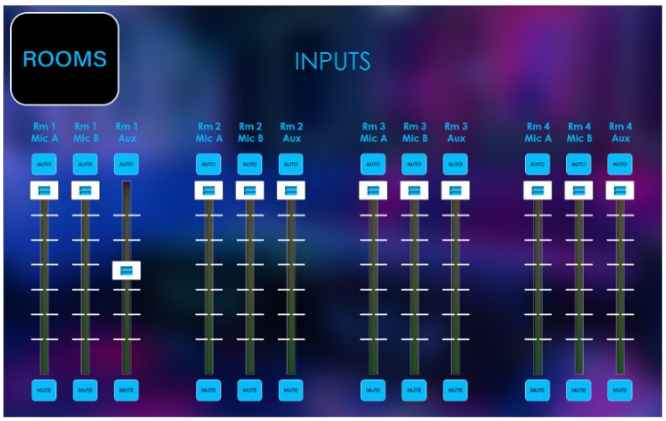
Connections are not limited within a single hardware unit. Users can easily manage 64 transmit and 64 receive channels of audio, or even more depending on which DSP is being used down to 1x1 on some endpoints via the Dante IP audio protocol on a Gigabit network for system design flexibility. These channels 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. Users can push updated designs to all units on a network at once.

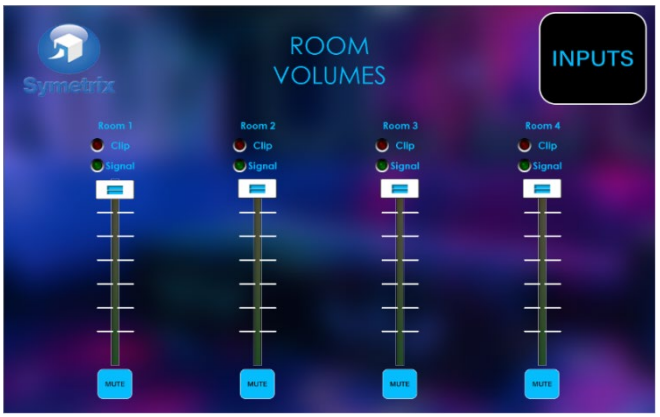
All Symetrix Composer-programmed DSPs are compatible with Audinate's Dante Domain Manager (DDM) network management software that enables user authentication, role-based security, and audit capabilities for Dante networks. DDM brings IT practices to AV, making audio and video networking more secure, more scalable, and more controllable.

The Network I/O Manager configures the Dante network audio buses, sets the operating mode of the Dante ports, and manages Dante I/O modules.

INTERFACE CREATION

The SymVue Graphic Control System is an elegant add-on component for Symetrix systems included with the Composer application that provides tools to easily create specific graphical user interface pages, called Control Screens in minutes, for real-time adjustment and day-to-day operation of Symetrix systems by facility technical staff, or other non-technical end-users. Attractive, easily accessible and familiar screens can be created and tested offline without any code writing. Control Screens are exported from Composer to the SymVue IP-based control system designed to run on the Symetrix Control Server and Windows-compatible devices. Virtually any browser-enabled computing device can connect to Control Server and control Symetrix DSPs, accessories, and select third-party audio and video devices.





WORKFLOW FUNCTIONS

Presets

Presets provide a way to 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, Control Screens, or by third party controllers.

Scheduling

The Event Scheduler allows for scheduling of presets by time and day providing a way to automate routing, source selection, and volume changes to account for special events, holidays, or other automatic predetermined configuration needs.

Logic

Access local and remote logic output programming on Symetrix IP DSP systems to change states based on control signals.

Security

Manage use and access of Symetrix IP DSP’s, control screens, and panels. Advanced security features allow end-user access to just those control aspects that are permitted.

SYSTEM CONTROL

Composer manages all aspects of audio, control, and security for Symetrix IP digital signal processor systems. In addition to communications with various Symetrix components through logic chains driven by internal audio or logic signals, Composer can transmit strings using RS-232, TCP/IP, or UDP/IP to control third-party devices or use external RS-232, RS-485, or GPIO, TCP/IP, UDP/IP signals to trigger internal functions.

End user control options include Symetrix' ARC wall panels, ARC-WEB browser-based remotes, Control Server, Control expander, T-Series and W-Series remotes, xIO endpoints, SymVue custom user interfaces, GPIO, and support of third-party controllers such as Crestron and AMX.

Composer integrates with a wide range of third-party products to route signals, assign end points, control devices, and more.

Compatible Symetrix Components:

D100 IP DSP Server

Radius NX IP DSP

Prism IP DSP

Edge IP DSP

xIO XLR Endpoints

xIO Bluetooth Remotes

xIO USB Endpoint Connection

T-Series Touchscreen Remotes

W-Series Remotes

ARC Panels

ARC Web Interfaces

Control Server

xControl Expander