

Powerful Tools That Provide Unification Across Independently Operated Systems



Middleware is a piece of software that helps drive unification across technology systems. This solution allows two distinct systems, equipment, or applications to communicate through use of an Application Program Interface (API). As AV systems and technologies continue to play a significant role in business communication, the need for middleware solutions to support integration increases.

Scheduling & Resource Management

In addition to programming and supporting software, Control Concepts develops middleware solutions that help to deliver a more seamless experience for technology managers and end users, driving unification across systems within their organization.

Our middleware solutions specifically support scheduling and resource management needs and span multiple applications and users across many industries including education, healthcare, and corporate. We offer pre-developed solutions at a fixed cost as well as custom development services priced per requirement. We also offer extended-support and maintenance agreements to accommodate future needs.

Features and Benefits

Our scheduling and resource management middleware solutions allow users to access schedule and meeting information from resident scheduling software and populate signage touchpanels and/or trigger AV-related events in meeting rooms or classrooms.



When Control Concepts began the AMX middleware project, the AMX team told its healthcare client to expect a turnaround time of a couple of months. Instead, Control Concepts custom development had preliminary testing ready to go in three weeks.

We recognizes the fast, quality turnaround as an asset to the AMX/Control Concepts relationship and to the relationships that manufacturers maintain with their customers.



— Justin Kennedy, Product Manager, AMX by Harman

Our solutions enable scheduling information and room booking details to be shared on signage touchpanels outside the room, while allowing rooms to be remotely configured for planned meetings. This ultimately saves time, improves efficiency, and enhances usability of a meeting space as well as the technology.

We currently work with AMX Resource Management Suite (RMS), Crestron Fusion, and *Dean Evans EMS*. We have also supported Asure Resource Scheduler. In addition, we continue to identify and evaluate other future collaboration opportunities.

The Crestron Fusion/EMS Scheduling Interface

Control Concepts built a new EMS software scheduling interface for the Crestron Fusion Enterprise Management Platform. The interface utilizes the Crestron Fusion API and EMS API Web Service to facilitate communication and exchange scheduling data between Crestron Fusion and EMS scheduling software.

A plug-in, designed for ease of use and flexibility, uses the appointment management features of the Fusion API and enables users to synchronize Crestron Fusion location schedules with EMS. The interface provides appointment management features of the Fusion application to help synchronize Fusion location schedules with EMS.

The Fusion API enables users to add rooms in the Fusion application to schedule, and display daily room schedules and appointment details. Through the interface, users can create ad-hoc meetings directly from the touch panel and save those to the EMS hosted services.

The AMX/EMS Scheduling Interface

Control Concepts also built an interface module for the RMS enterprise and EMS API Web Service to facilitate communication as well as to exchange scheduling data between RMS and EMS scheduling software. The RMS enterprise provides remote management and scheduling capabilities for AV assets and building systems.

These middleware solutions are available for purchase at a fixed price which includes implementation support with an option for maintenance and support extensions.

Please contact us at projects@controlconcepts.net to learn more about how we can work with you to develop customized solutions that address your organization's systems needs and enhance ROI.



Crestron recognizes Control Concepts middleware development as providing an important "value add" for the company's products. Whether Crestron encounters a customer that "wants a driver as soon as the new product is issued to the market, or a customer that has a large corporate client with a hard deadline, Control Concepts is a trusted Crestron choice for driver development and programming services for Crestron Fusion and other products.



– **Dominick Accurso, Manager, Crestron Integrated Partner Program**