

TECHNICAL DATA SHEET

DS0115 rev 21

ASPECT®-Studio



OPERATING SYSTEM

Windows® 11

Windows® 10

HARDWARE REQUIREMENTS

Intel® based Processor @ 2GHz or higher
(dual or multi-core recommended)

Available Ethernet connection

ASPECT®-Studio provides a graphical programming tool experience like no other for configuring ASPECT® applications. Acting as an integrated development environment for ASPECT® products, ASPECT®-Studio contains a complete library of logical and graphical “widgets” representing the common tools that are used to engineer sophisticated control strategies for a complete control system and graphical user interface solution.

Using this highly intuitive software environment, users create and define all necessary elements for a project – including network device and point programming, global control sequencing, historical trending, alarming, scheduling, as well as rich graphical user interface pages. Rapid engineering capabilities can be leveraged to minimize labor intensive steps. This includes mass editing options, import and export of networked devices and points, and the ability to create custom Device and Point templates.

As a project is created, you have the ability to evaluate your work through each step of the engineering phase using simulated data, as well as the ability to communicate with defined networks, devices and their associated points. Complete testing prior to the deployment of a project can also be performed using a local simulation of the ASPECT® environment. At commissioning time, ASPECT®-Studio reduces labor for technicians by automatically generating an HTML5 UI for all defined network devices, allowing smart phone and tablet users to gain access to the energy management system.

FEATURES & OVERVIEW

COMPLETE LIBRARY OF ELEMENTS

- Supplied elements include more than 300 pre-defined functions across multiple categories, including: Logic, Math, Time, as well as specialized functions for database and protocol-specific capabilities
- Complete library of design-based widgets for interacting with data from the energy management system

POWERFUL SIMULATION ENVIRONMENT

- One-click toggle between simulated and live data; generic or user-defined data at a per-point basis if needed
- Work with live data from the energy management system while engineering when needed. Test your work in a localized version of ASPECT® prior to deployment

SUPPORT FOR JAVASCRIPT

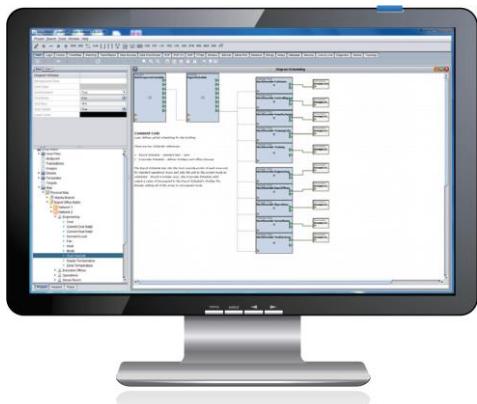
- Client-side line-by-line programming support provides an alternative approach for complex sequences
- Leverage existing knowledge of JavaScript to create unique sequences

RAPID ENGINEERING CAPABILITIES

- Perform mass editing, duplication, and definition of network devices. Create device templates including points, trend definitions and other features for common equipment on a project
- Create reusable components allowing you to define your own standard code libraries for future work
- Import and export information in .XLS format for editing in popular spreadsheet programs

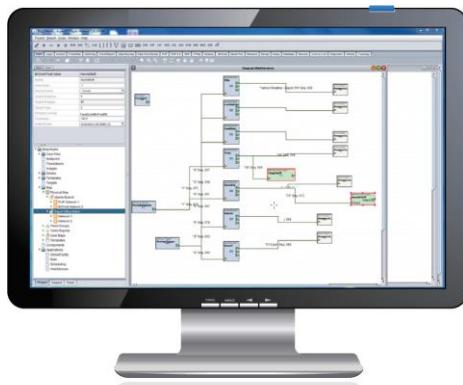
AUTO-GENERATION OF HTML5 ENVIRONMENTS

- Using defined information, ASPECT®-Studio will auto-generate an HTML5 UI, allowing smart devices to access device, point and historic data (e.g. trend, alarm, reports, etc.)
- Requires minimal to no extra configuration to enable
- Works with mobile devices & desktop browsers that support HTML 5
- Supported by all ASPECT® solutions with the exception of 3.0
- support for original ASPECT®-Matrix hardware



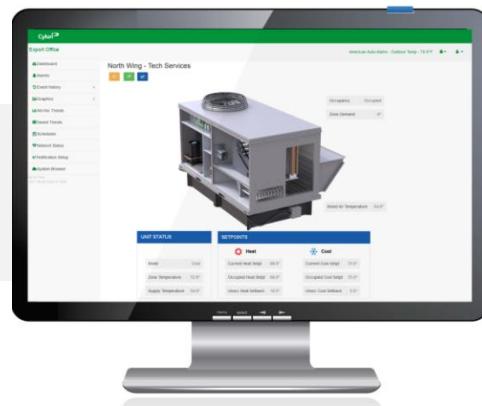
Using Cylon Auto-Matrix's next generation block programming language ViPR (Visual Programming Resource), any control scheme can be accomplished by simply linking blocks together in a flow-based method. This approach allows even novice programmers to design applications without having to write and debug line-by-line programming.

For advanced programmers, Cylon does support client-side based JavaScript blocks to allow free programming of sequences.



ASPECT®-Studio includes many intuitive features for easy programming, including a natively built-in simulation environment for testing applications prior to deployment, as well as high-level inspection features for finding and troubleshooting information in large projects.

ASPECT®-Studio is used to develop both global, area control logic (including alarming, trending, scheduling, interlocks, etc.), as well as rich graphical user interface pages viewable with any standard web browser across local area networks, wide area networks or even the internet (appropriate security measures required, such as VPN)



SYSTEM ARCHITECTURE

