ECLYPSE™ Series

Connected IP and Wi-Fi Product Series and Accessories

Overview

The ECLYPSE series is a range of connected BACnet/IP controllers and accessories that are used to control a wide range of HVAC equipment and other applications.

The ECLYPSE series offers IP Ethernet connectivity as well as Wi-Fi capabilties. The solution is complemented with ENVYSION, a web-based graphics design and visualization interface.

Applications

The ECLYPSE Series can be used for:

☐ Equipment control

☐ Small building applications

☐ Larger and multi-location building applications and integration with EC-Net^AX

Features & Benefits

Connectivity

The different types of connections supported by the ECLYPSE series of controllers and accessories are the following:

IP wired connection

Internal switch with two Ethernet ports allows the controllers to be wired in a star or daisy-chain topology. With a daisy-chain topology:

☐ Fewer wire runs to a centralized switch are required, therefore achieving installation and cost reduction.

☐ A laptop can be connected to the 2nd Ethernet port for direct programming, configuration, and commissioning using EC-*gfx*Program or ENVYSION.

IP wireless (Wi-Fi) connection

The following types of Wi-Fi connections are possible when using the ECLYPSE Wi-Fi Adapter:

DISTECH CONTROLS™

Innovative Solutions for Greener Buildings™

- Wi-Fi Client - Connection to the building's existing Wi-Fi network or to another controller's Wi-Fi Hotspot or Access Point.
- Wi-Fi Access Point - extending the building's wired IP network to your "client" devices, such as other controllers.
- Wi-Fi Hotspot - Allows a direct connection to the controller using a mobile device or laptop, for faster, easier system configuration, commissioning and servicing.
- Wi-Fi Mesh - Wi-Fi mesh network topology increases network reliability and robustness and allows for a larger wireless coverage area.

Both IP wired and wireless (Wi-Fi) connection

The availability of both Ethernet ports and USB ports for the Wi-Fi Adapter, allows for simultaneous wired IP and Wi-fi communication on a same controller, allowing you to choose and combine.

Connect from anywhere

Control technicians, facility managers, occupants, and others can easily connect to the system, on-site or off-site, using the different available tools:

- ENVYSION to create and view the graphical interface
- EC-*gfx*Program to create custom control sequences
- *my*DC Control to view, edit, and configure system operating parameters

IP Communication

- Increased speed and improved handling of numerous trend logs that enable applications such as advanced analytics that require a large amount of data.
- Faster response when programming, configuring, creating and viewing graphics, and upgrading your system.

## ENVYSION - Web-based Graphic Design and Visualization Interface

ENVYSION is an HTML5 web-based graphic design and visualization interface. It is used to create and view interfaces ranging from a single equipment to a complete building management interface.

ENVYSION can be embedded in an ECLYPSE Connected System Controller or hosted on EC-Net[AX]. It consists of the ECLYPSE Studio for designing graphics and ECLYPSE Viewer for viewing graphic pages.
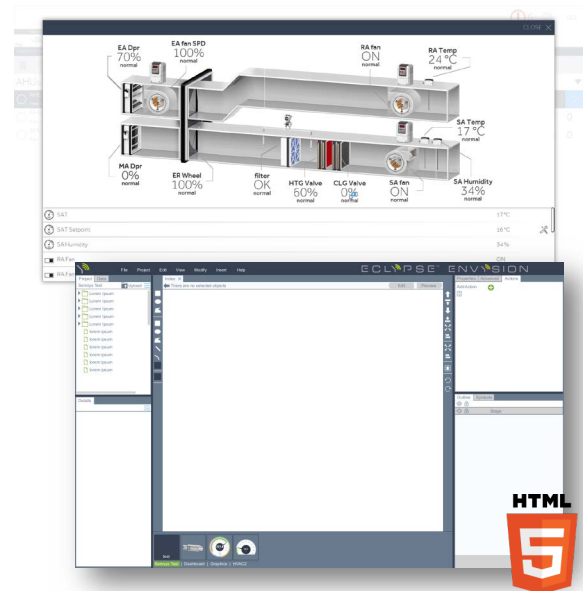
Equipment Control System Architecture

This example shows a single Connected System Controller controlling the equipment (boiler, large AHU, etc.). The different users (building owner, technician, end user) can access the system on-site using the IP wireless connection (Wi-Fi Adapter configured to Wi-Fi hotspot) or IP wired connection with tools such as ENVYSION, EC-*gfx*Program, and *my*DC Control. Off-site access is also available through the Internet using the same tools.
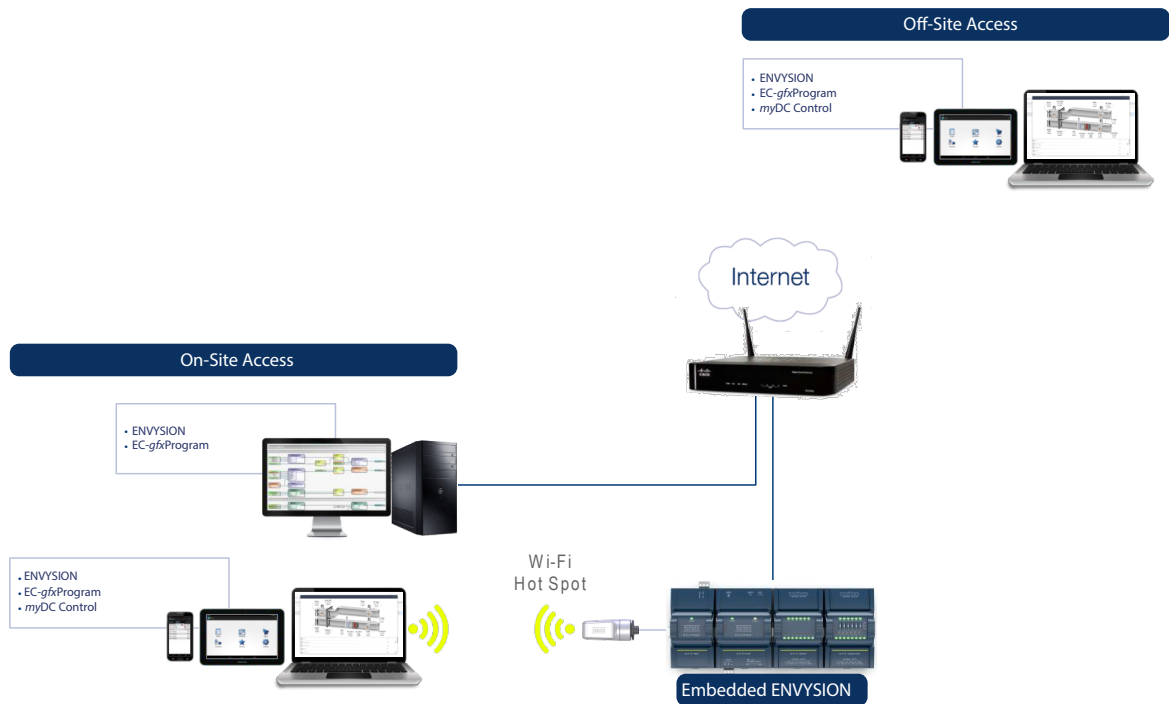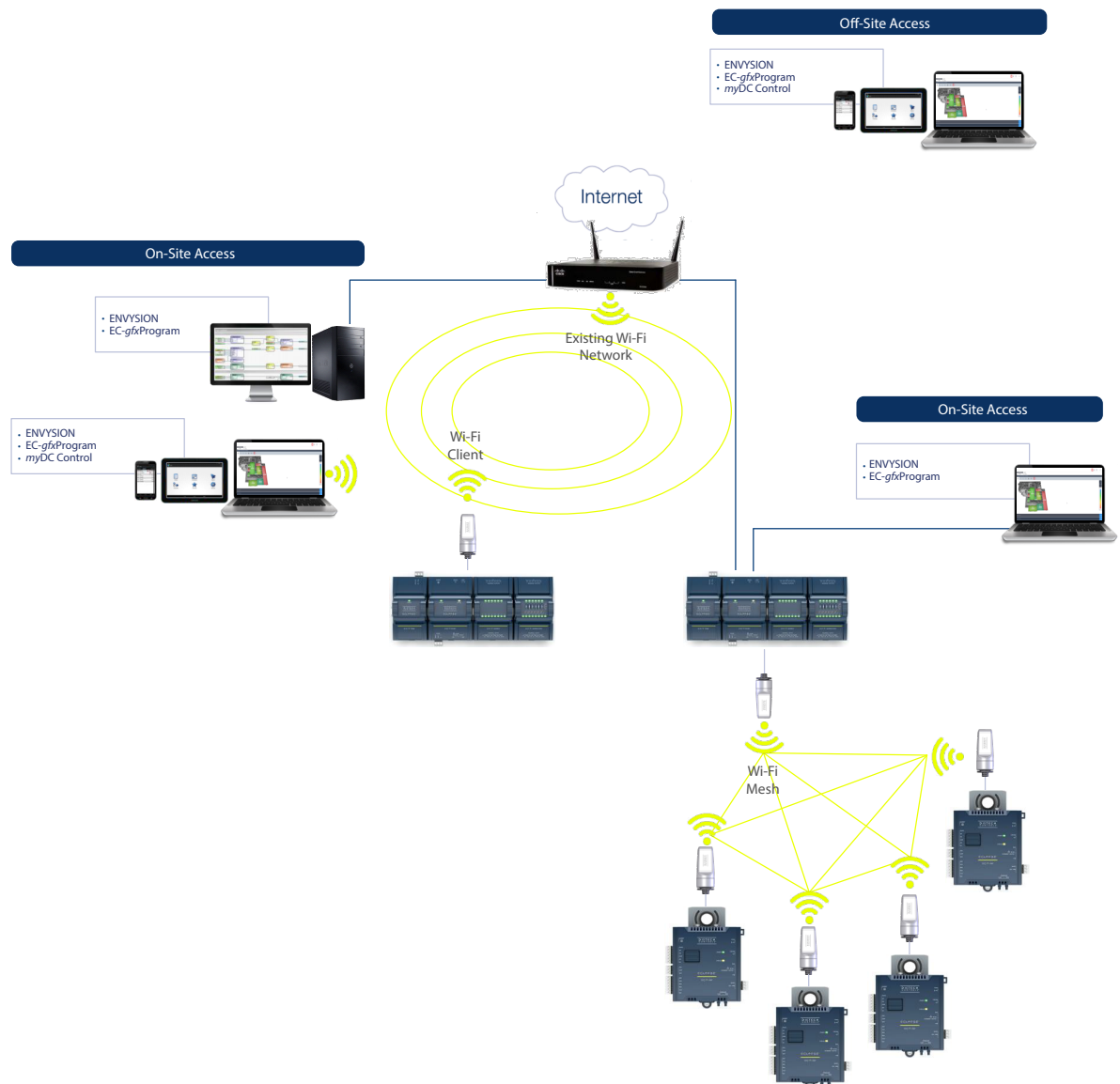
Small Building System Architecture

This example shows two Connected System Controllers and multiple Connected VAV Controllers throughout the building:

☐ A Connected System Controller to control the equipment (boiler, AHU, etc.)

☐ A Connected System Controller with multiple Connected VAV Controllers for a VAV system.

Building owners, control technicians, and end-users can access the system on-site using the IP wireless connection (Wi-Fi Adapter configured to Wi-Fi client) or IP wired connection with tools such as ENVYSION, EC-*gfx*Program, and *my*DC Control. Off-site access is also available through the internet using the same tools.
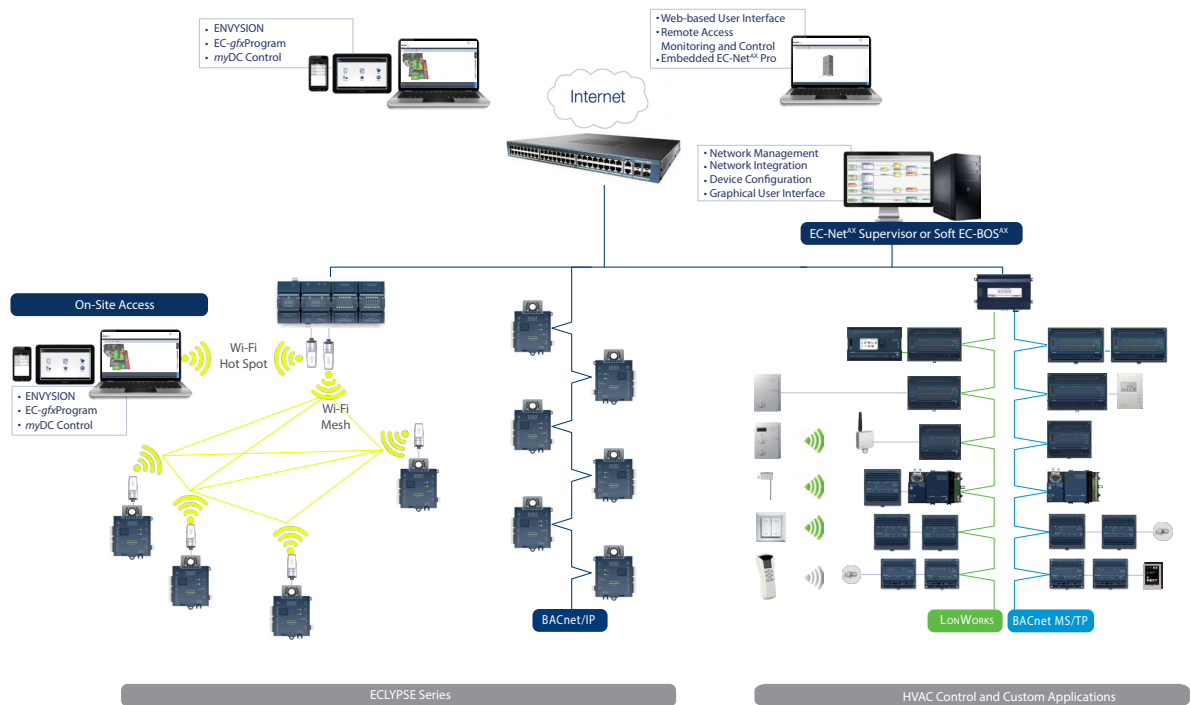
Medium/Large Building System Architecture

This example shows a Connected System Controller, multiple Connected VAV Controllers, and an EC-BOS^{AX} throughout the building:

- ☐ The Connected System Controller with multiple Connected VAV Controllers for an AHU with VAV system.

- ☐ The EC-BOS^{AX} integrates different BACnet, LON, and other communicating devices.
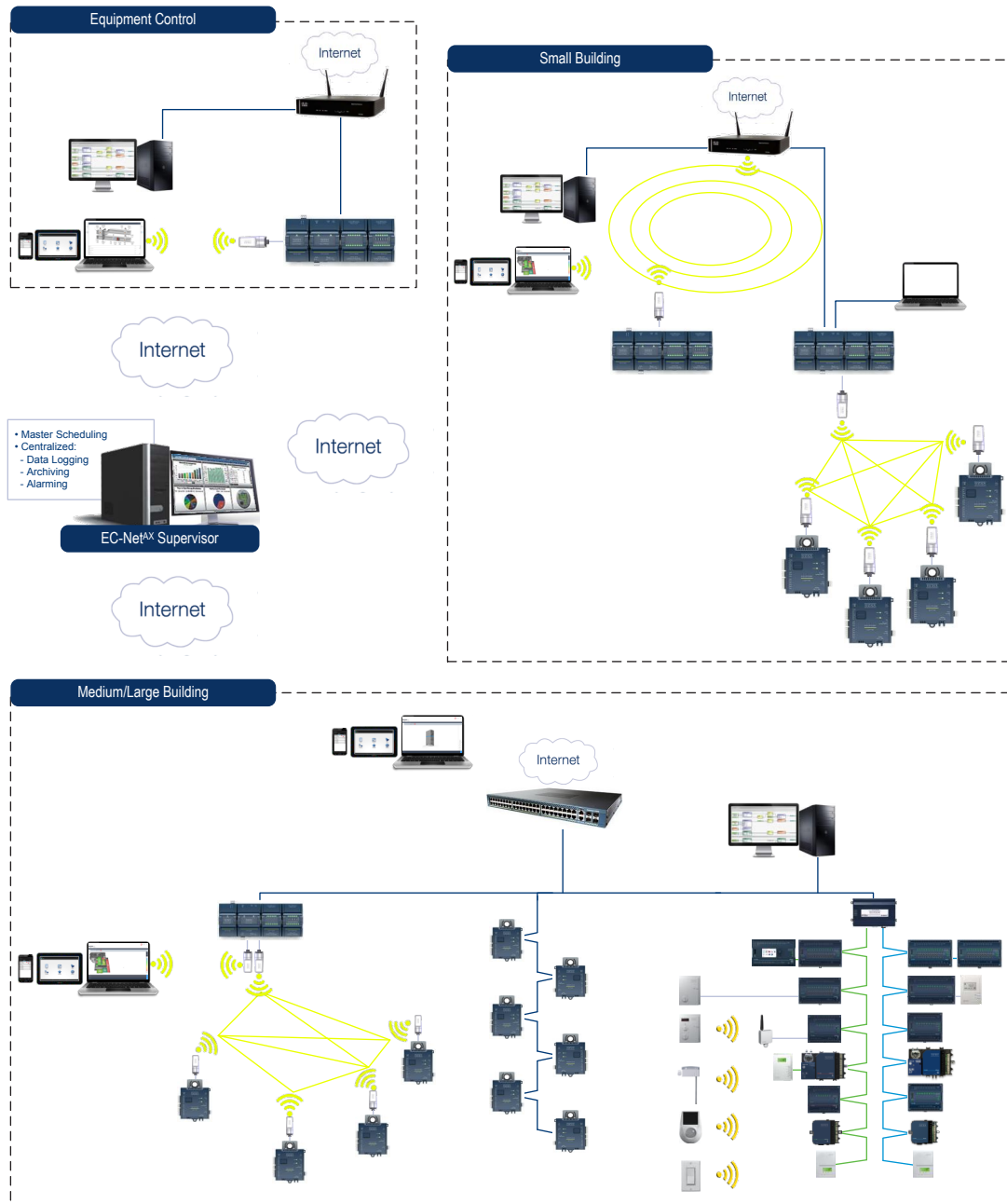
Network management is done through EC-Net^{AX} Supervisor.

Building owners, control technicians, and end-users can access the Connected System Controller and Connected VAV Controllers on-site using the IP wireless connection (Wi-Fi Adapter configured to Wi-Fi hotspot) or the entire system using the IP wired connection with tools such as EC-Net^{AX} Supervisor, ENVYSION, EC-*gfx*Program, and *my*DC Control. Off-site access is also available through the internet using the same tools.

Multi-Location System Architecture

This example shows multiple buildings connected to the Internet and integrated using the EC-Net^AX Supervisor for network access and management.