FIN|STACK 5.1 Update
and the F200 Edge Controller

J2 INNOVATIONS
A Siemens Company

Agenda

- FIN Stack 5.1 at a glance
  - Dashboard Builder App
  - FIN Network – Multi instance architecture
  - KNX IP Connector
  - Edge2Cloud enhancements
  - FIN BTL certification
- F200 Device
  - Overview
 - Loading a License
  - How to order

FIN Stack has built-in apps for a simplified approach

Haystack Tagging

Haystack 4 Foundation

FIN Stack is built on the latest Haystack 4 standards allowing for more detailed data and more informative interface

High Productivity Tools

Workflow Improved

With the easy use of tagging, creation and implementation of interface components can be delivered quickly and easily.

Powerful Integration

Multiple Integration Options

Standard open options such as BACnet, Modbus, KNX with many advanced options (SQL, XML, REST, and MQTT)
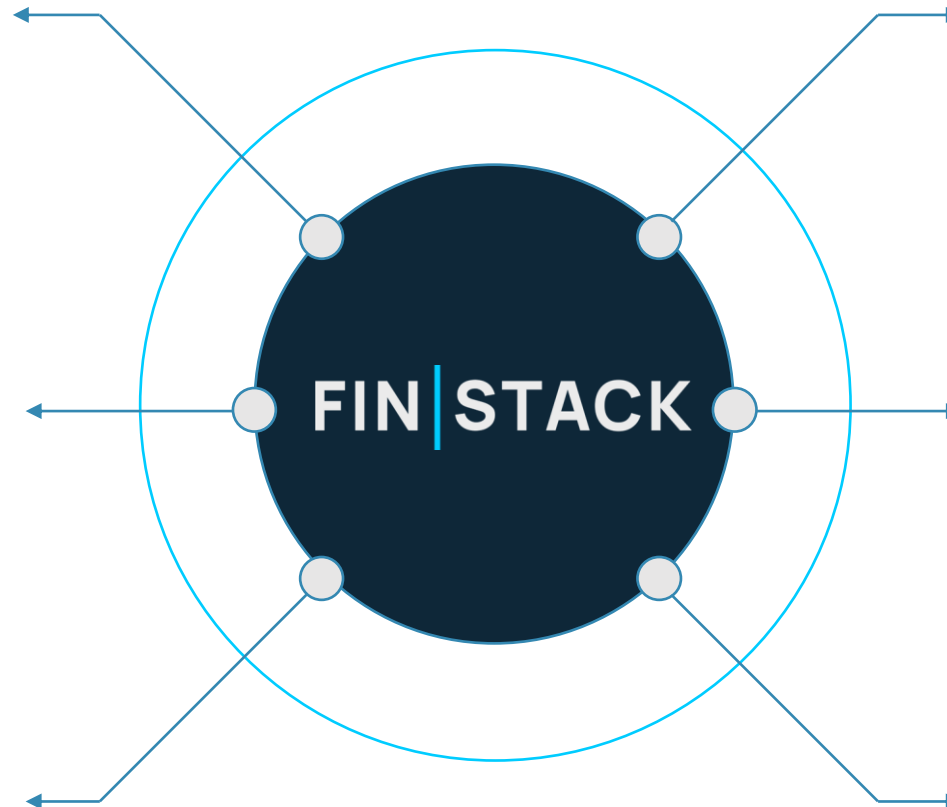
FIN|STACK

Web Responsive & Mobile Friendly

HTML5, Web Responsive Design

Created using HTML5, FIN Stack can be viewed on a laptop, desktop, tablet, or smartphone with no additional app required

Template Wizard

Embedded Wizard Discovery

FIN Stack templates streamline the device discovery process by importing graphics, programs, and documentation at a single click

Advanced Graphics & Dashboards

Appealing Vector Graphics

Crisp, 2D and 3D graphics libraries that contain water-side systems, air-side systems, labs, and dashboard components to bring insight to the facility
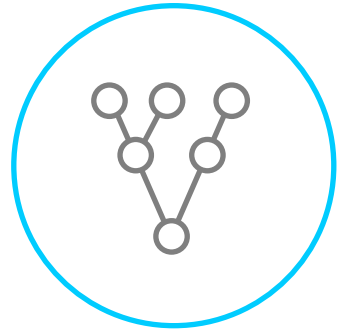
FIN Stack 5.1 enhancements and new features

Dashboard Builder

Create your own data-driven dynamic dashboards

FIN Network multi-instance architecture

View your FIN sites and instances through one view

KNX Connector

An all-new KNX IP Connector for seamless integration

BTL certification

FIN is OWS (Operator Workstation) compliant

Edge2Cloud enhancements

From access tokens, to multi-lingual access, and more

Dashboard Builder App

- Get improved dashboard views for data-driven smart building, smart equipment and IoT at your fingertips.

- Simply use the app's grid to resize, add and remove a range of new dynamic dashboard widgets to get more from your data. Easily select your data from the Equip Tree - from site, to floor, to point.

- Widgets include: Charts, history, weather, gauges, values, map view, floor plan and equipment graphics.

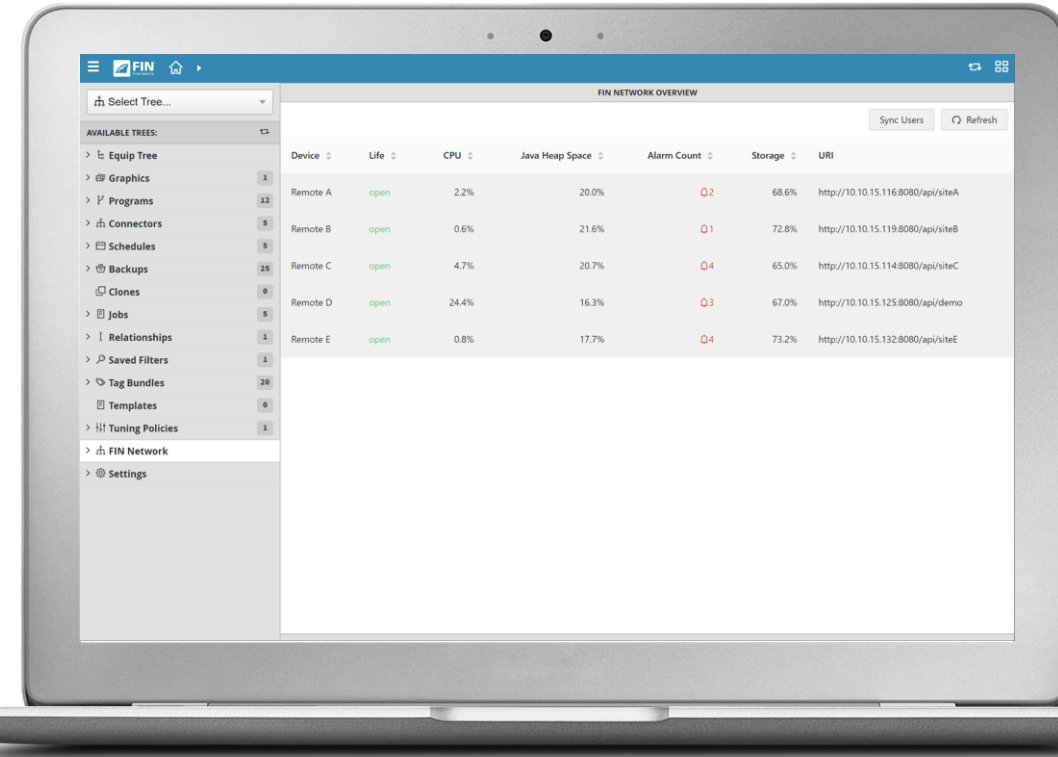# FIN Network – multi-instance architecture
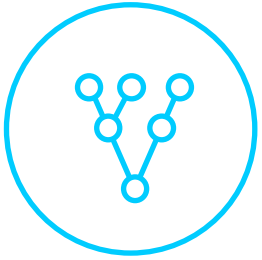
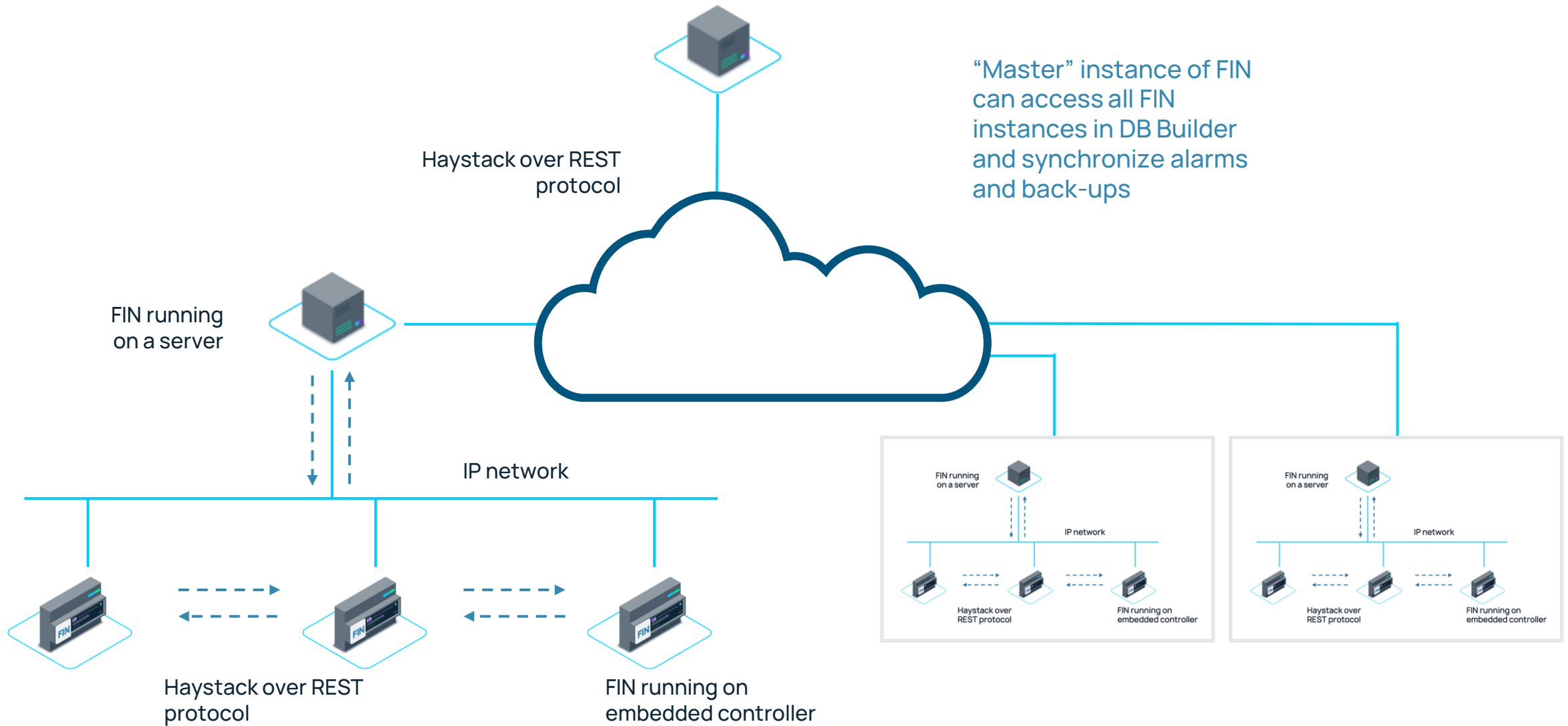## Streamline management of sites with many instances of FIN

Add all your FIN instances via connectors to the new FIN network tree in the DB Builder App. Once added you can view all your devices, whether local or remote, and drag and drop them. You are able to view and edit records of each without having to log on to each device separately – saving time and resource!

This is especially useful if, for example, you want to bring in data from remote devices to your server enabling the creation and visualization of dashboards (with the new dashboard builder of course!)

With FIN Network, not only can you sync histories but you can sync alarms, backups, and users

FIN multi-instance system architecture

Haystack over REST protocol

"Master" instance of FIN can access all FIN instances in DB Builder and synchronize alarms and back-ups

FIN running on a server

IP network

Haystack over REST protocol

FIN running on embedded controller

FIN running on a server

IP network

Haystack over REST protocol

FIN running on embedded controller

FIN running on a server

IP network

Haystack over REST protocol

FIN running on embedded controller

KNX IP Connector

Take your smart building or smart equipment to a new level of sophistication by bringing the capabilities of FIN Framework to KNX-enabled devices. The KNX IP Connector for FIN provides seamless integration with KNX devices.

The KNX connector software module is able to read a KNX project file and present all the KNX points/group addresses available in an installation within the FIN open platform. The automatic configuration allows engineers to seamlessly integrate and supervise the KNX components, along with other devices and systems that use other protocols. FIN Framework acts as the global system controller and/or building automation supervisor.
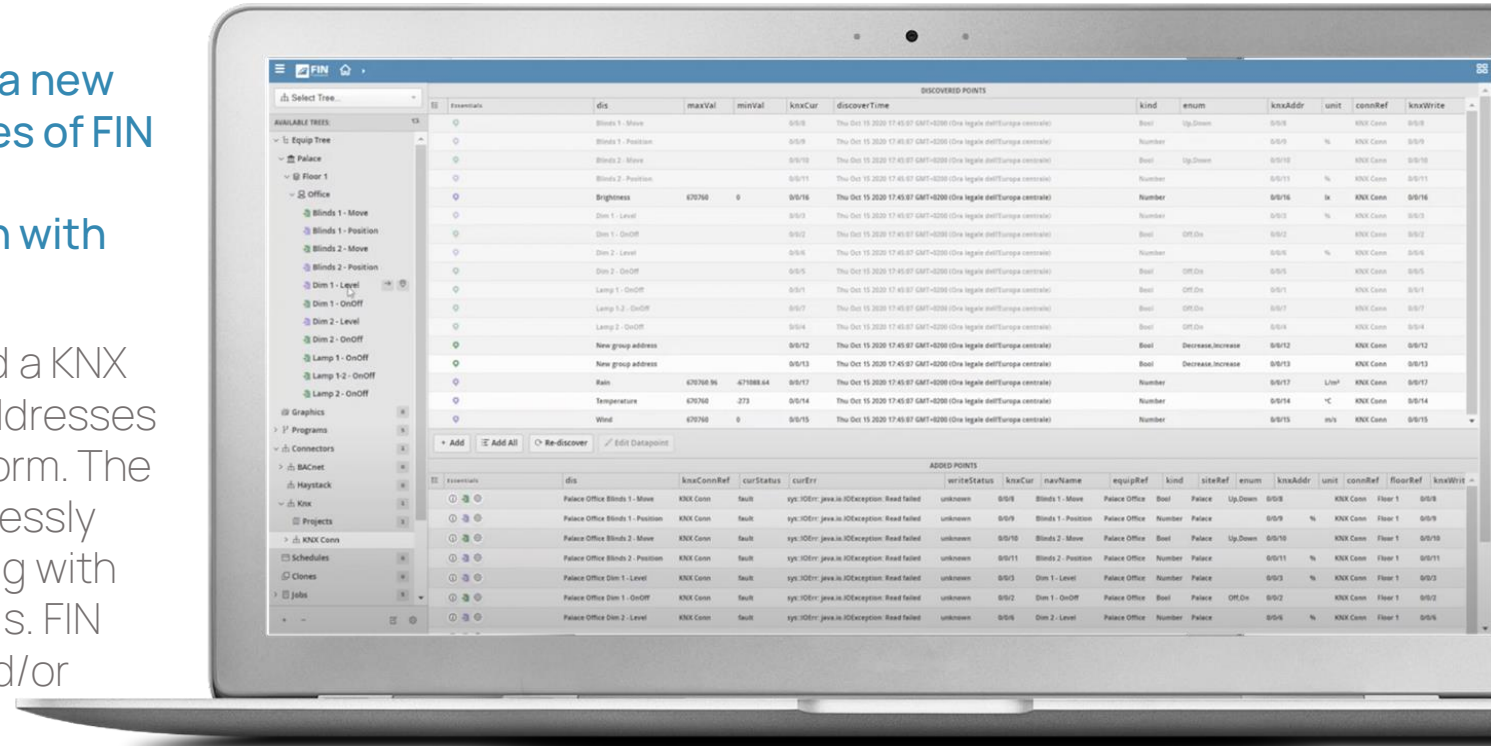
Edge2Cloud enhancements

A range of enhancements have been added to our revolutionary Edge2Cloud technology, including:

- Access tokens to allow FIN instances to communicate via the internet with one another and 3rd party systems

- Open API for secure communication with 3rd party cloud applications

- Access available in multi-languages

- Update site color markers

- Access dashboards
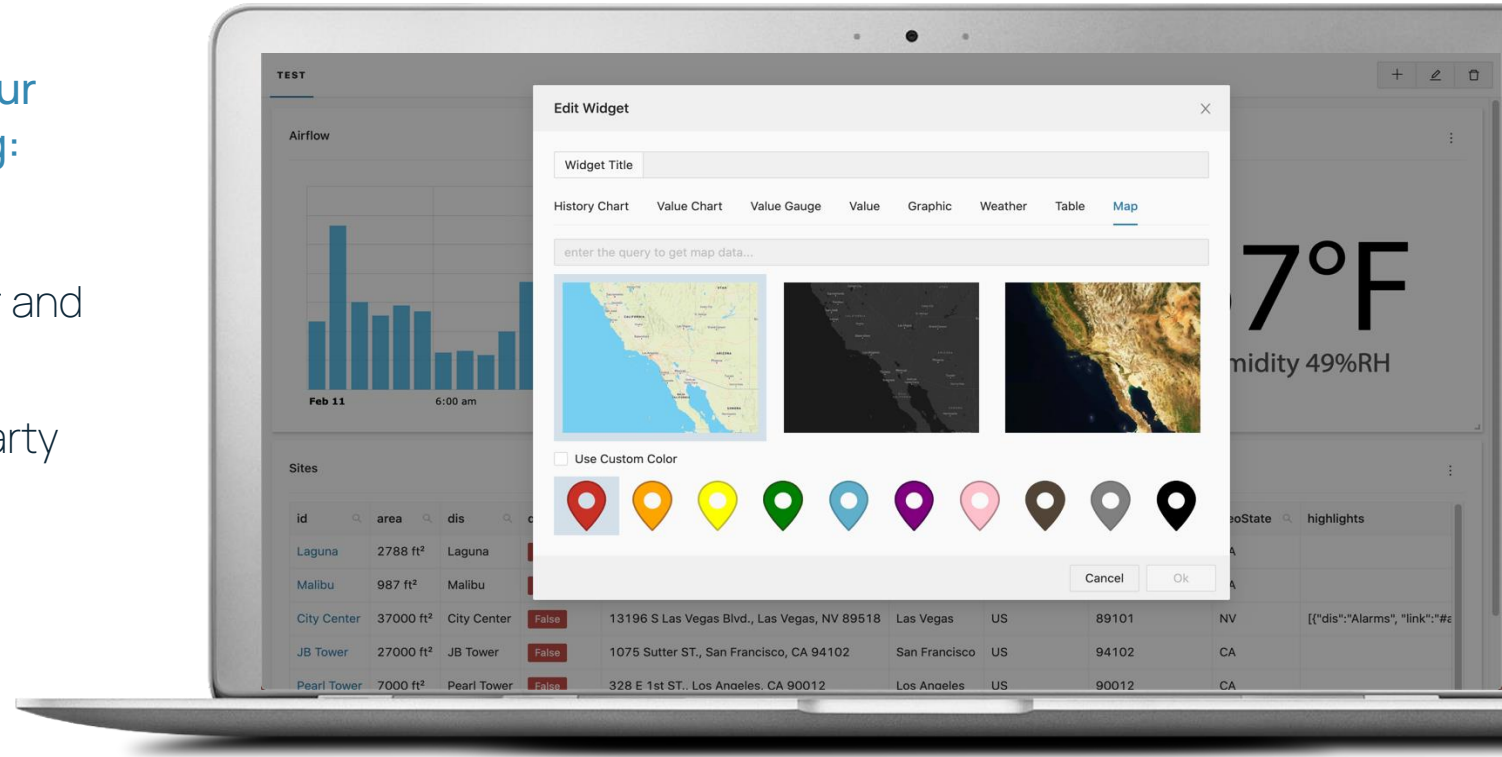
FIN BTL certification

- FIN Framework 5.1 is BTL OWS (Operator Workstation) compliant which provides more support and visibility of BACnet properties and objects as part of the BACnet protocol

Training support

https://finstitute.j2inn.com/courses/fin5-1-NewFeatures

The FINstitute has a new courses to support our partners with content covering the new FIN 5.1 features.

- The course is presented as a series of labs that supplement the FIN Technicians class

- The existing FIN Technicians class has also been updated to include the new content

FIN 5.1 New Features

FIN 5.1 introduces some exciting new applications and capabilities. The course will provide an update to the FIN 5 Technicians training. The topics include FIN Network, Dashboards, DB purge / sync, User security updates, and new BACnet 5.1.

Enroll for free

Course curriculum

1	Introduction and Preparation
2	Create a New Project
3	FIN Network
4	Dashboards
5	DB Records - Synchronize and Purge Settings
6	User and Security
7	BACnet in 5.1
8	New KNX Connector
9	Edge to Cloud and License Server
10	Next Steps ...

Introducing the F200

F200 Overview

J2 Innovations have launched the F200 Edge Controller – ideal for those that require a bundled hardware and software package:

- Complements existing hardware options and Fit4FIN program

- F200 provided with FIN Stack for distributors in North America and the UK,

- Ideal for mid-market applications such as schools, offices and hospitals, as well as multi-instance applications in larger projects

- Siemens manufactured hardware with guarantee

- Additions such as the RS-485 port support coming with future release

Why choose F200?

Quick and easy installation

- Fits easily into a control cabinet

- No extra IT infrastructure required

- Step-by-step installation guide and J2 support

Easy to use

- No need for additional servers

- Can be used with any FIN framework on FIN application suite

- Easy commissioning with FIN's fully browser-based interface

Powerful edge controller

- Ideal for mid-market and multi-instance applications such as schools, offices, hospitals...

- Up to 5000 data points

- Combine with FIN Framework, and application suites

High quality

- Siemens manufactured

- Comes with guarantee

What the F200 can do

Connect

Ideal for mid-market applications and multi-instance applications, the F200 can connect:

- HVAC
- Meters
- Sensors
- Lighting
- Renewables
- EV chargers

Much more

Manage

- Local edge management of smart buildings and devices
- Remote secure access with FIN Edge2Cloud technology
- Easy to apply software updates remotely via Siemens cloud

Multi-protocol support

- Supports various protocols, e.g. BACnet IP, Modbus IP, and KNX IP
- Supports Ethernet and 4G* connectivity
- Partners can develop additional connectors as required

* via a 4G dongle; will require some development work to implement

F200 position in system architectures

Remote secure access via FIN Edge2Cloud

Fully browser-based user interface for engineering and operation

Secure access via local network

Fits perfectly in control cabinet

F200 at a glance

Dual Switch LAN Port   24 Volt AC/DC

WAN Port   USB interface
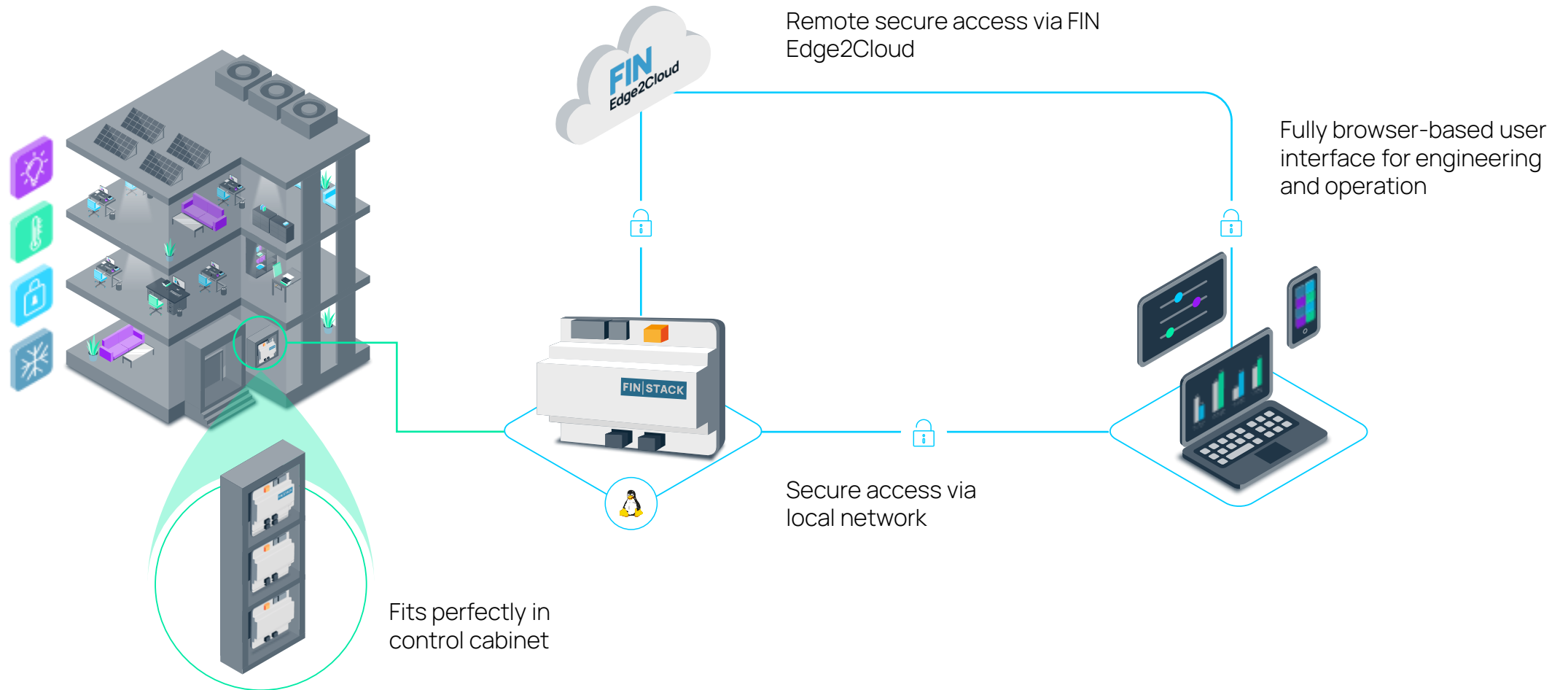
RS-485 ports
(optional, for future release)
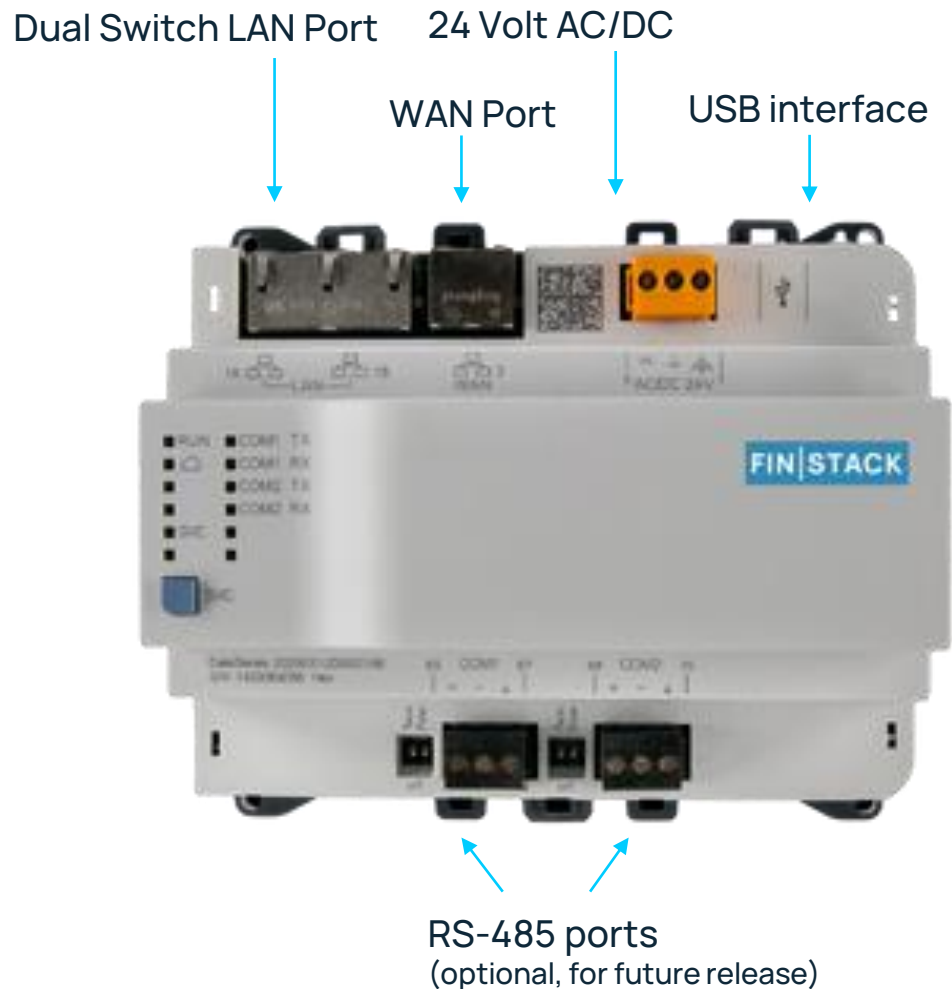
Protocols

Haystack over RESTful, BACnet IP Modbus TCP, SNMP, KNX iP and others

Datapoint capacity

Up to 5,000 Data Points

History capacity

Can be licensed up to 1,000 CAPs

Supported browsers

PC or Laptop: Chrome, Firefox, Safari and Edge

Mobile: Safari or Google

USB interface

For 4G dongles (requires custom connector)

Network connection

Dual Switch LAN: Field Network Devices

WAN Port: public facing Network (ISP)

How to upload

Loading a License

Uses Siemens Horizon for device provisioning
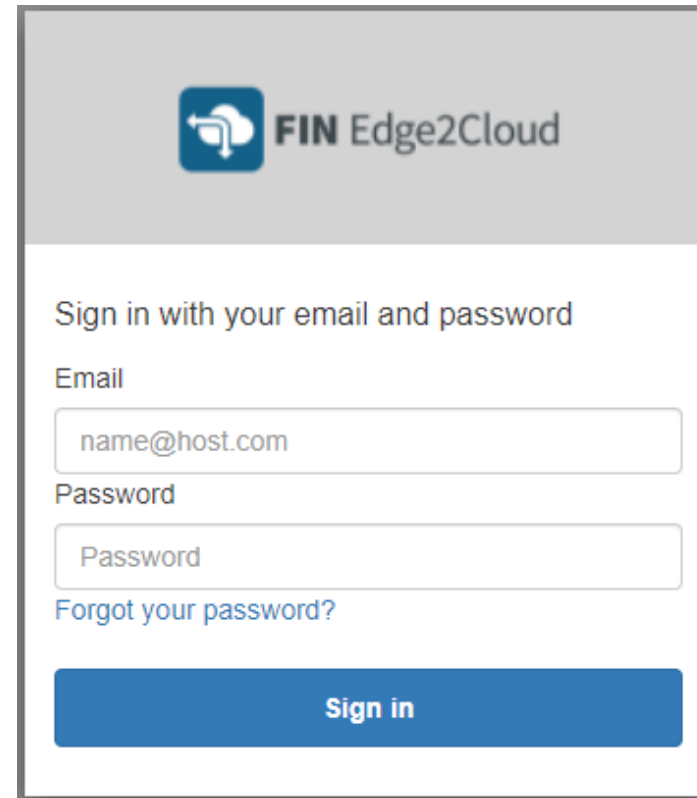
Utilizing Edge2Cloud we can access the Host ID and apply the Licenses remotely.

Download Licensing guide

Licensing the F200

Complete this procedure add a license to your F200 through Edge2Cloud.

1. Use the following link to access Edge2Cloud: https://portal.e2cloud.io/
2. Enter your credentials to sign in.

FIN Edge2Cloud

Sign in with your email and password

Email

name@host.com

Password

Password

Forgot your password?

Sign in

Further information

Find out more about the F200 Edge Controller and hardware options for FIN Framework and FIN Stack:

- F200 webpage

- Hardware compatibility guide (Fit4FIN program)

- F200 blog

- PPT slides

Download F22 data sheet

Download installation guide

How to get started - **placing an order:**

FIN Stack Distributors

FIN Framework is available globally via multiple OEM partners. In North America and the UK it is also available under the FIN Stack brand via distributors. Our distributors provide sales and technical support. Increasingly our distribution partners also provide product training on our behalf.

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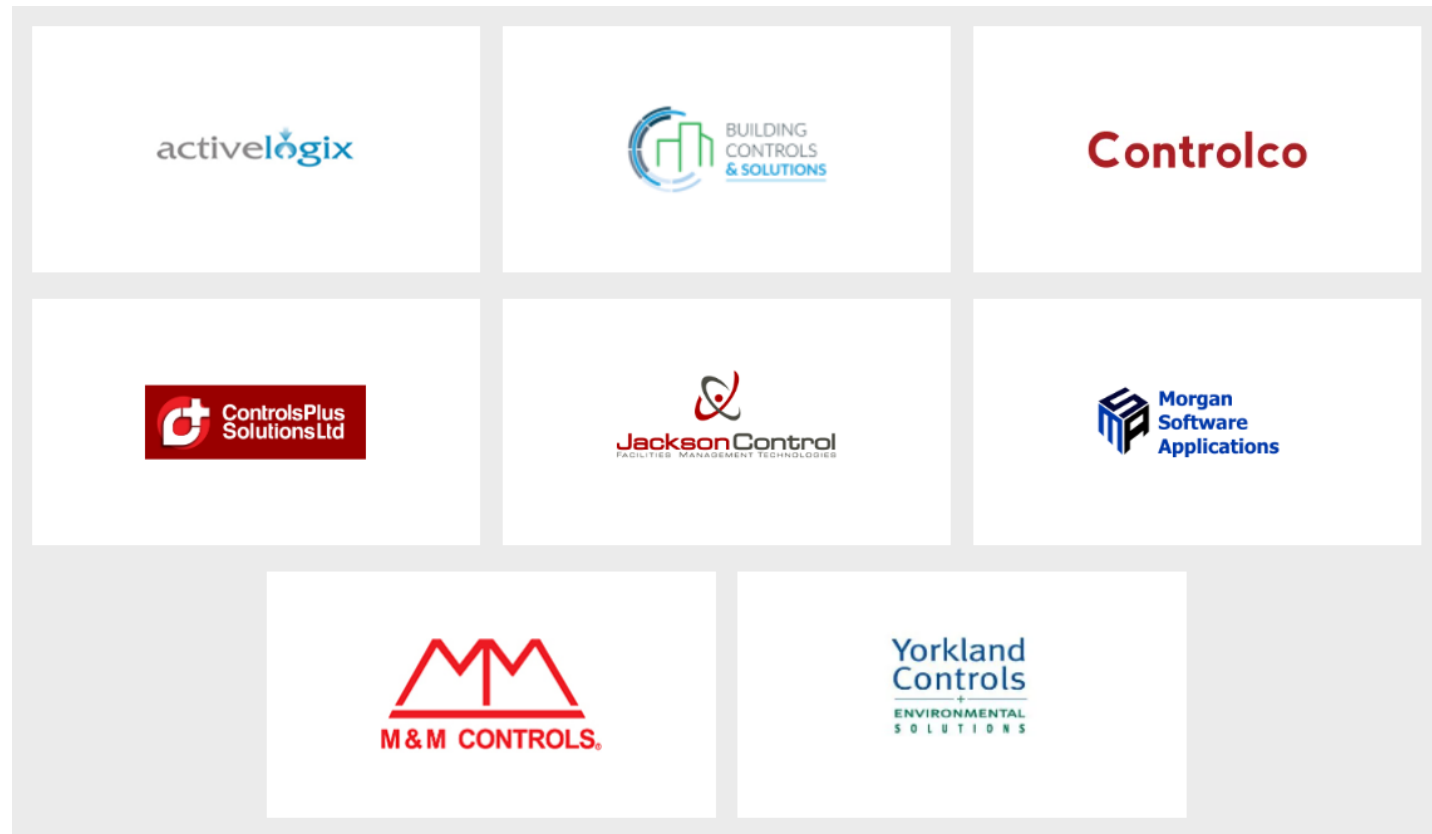
Jeremy Wolfe
Vice President Sales America
jeremyw@j2inn.com
+1 (470) 390-6839

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