

Simplicity
in technology.

Top-down Niagara System: Cloud, Controllers, Edge Devices.

Simplicity
in technology.

Hello! We are



iSMA CONTROLLI

Simplicity
in technology.



Pawel Szarmanski
Solution Product Manager

Solutions overview.

Multi-site Building Management



BMS Software



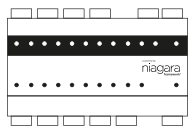
Cloud & Analytics Software

Niagara Analytics

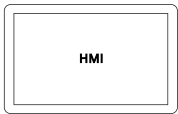
Building Management System



Integration Controllers

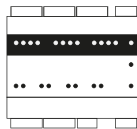
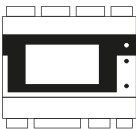


Hybrid IoT Controllers



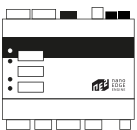
HMI Panels

HVAC and Plant Control



Advanced Application Controllers

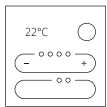
Comfort Management



Zone Controllers



Light & Blind Controllers



Wall Panels

Solutions overview.

Gateways

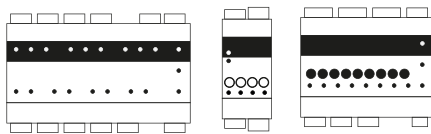


Metering Gateway

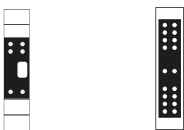


Wireless Gateways

I/O Modules

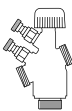


Multiprotocol I/O Modules

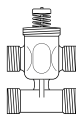


Modbus I/O Modules

Control Valves



PICV



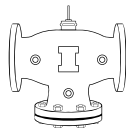
Zone Valves



Ball Valves

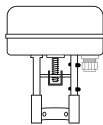


Butterfly Valves



Globe Valves

Actuators



Linear



Rotary

iSMA CONTROLLI

in Niagara Community



Locations.



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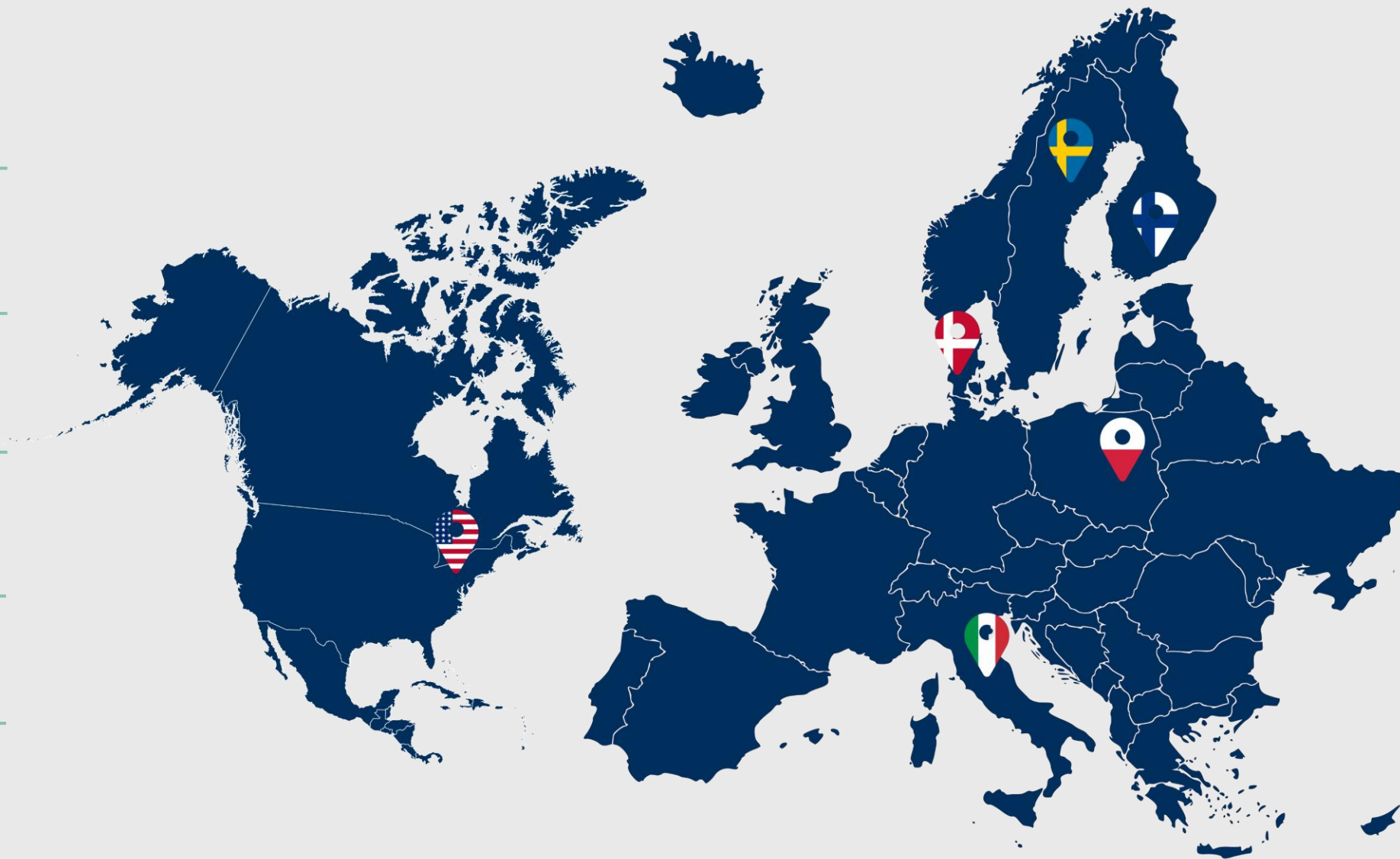
iSMA CONTROLLI Finland Oy

Museokatu 30 C31,
00100 Helsinki, Finland



iSMA CONTROLLI US

14321 WINTER BREEZE DRIVE
SUITE 29
MIDLOTHIAN VA
23113
Mobile: 804-750-4643



Worldwide Reach

Sales through sole distributors in more than 50 countries

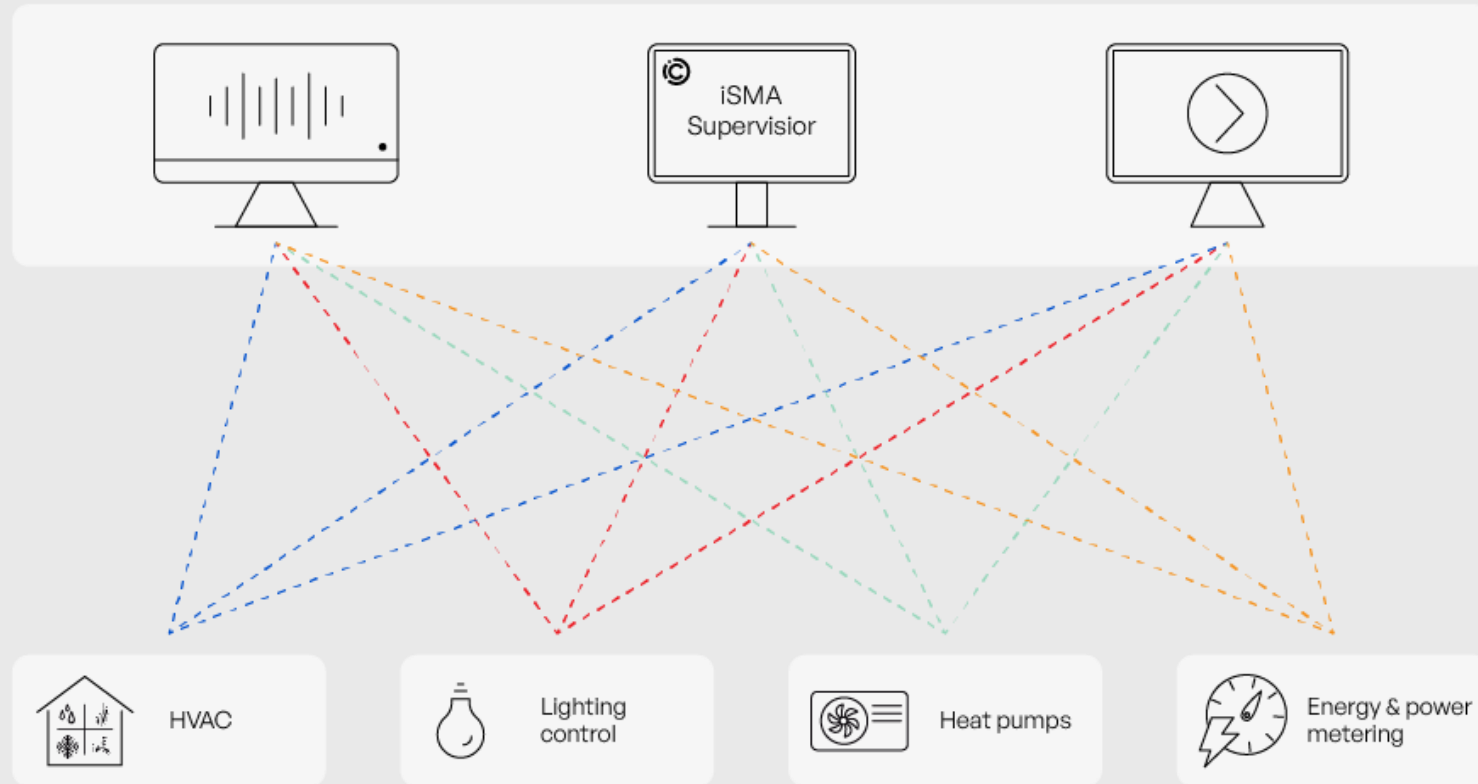


What does the Niagara
Framework solve?



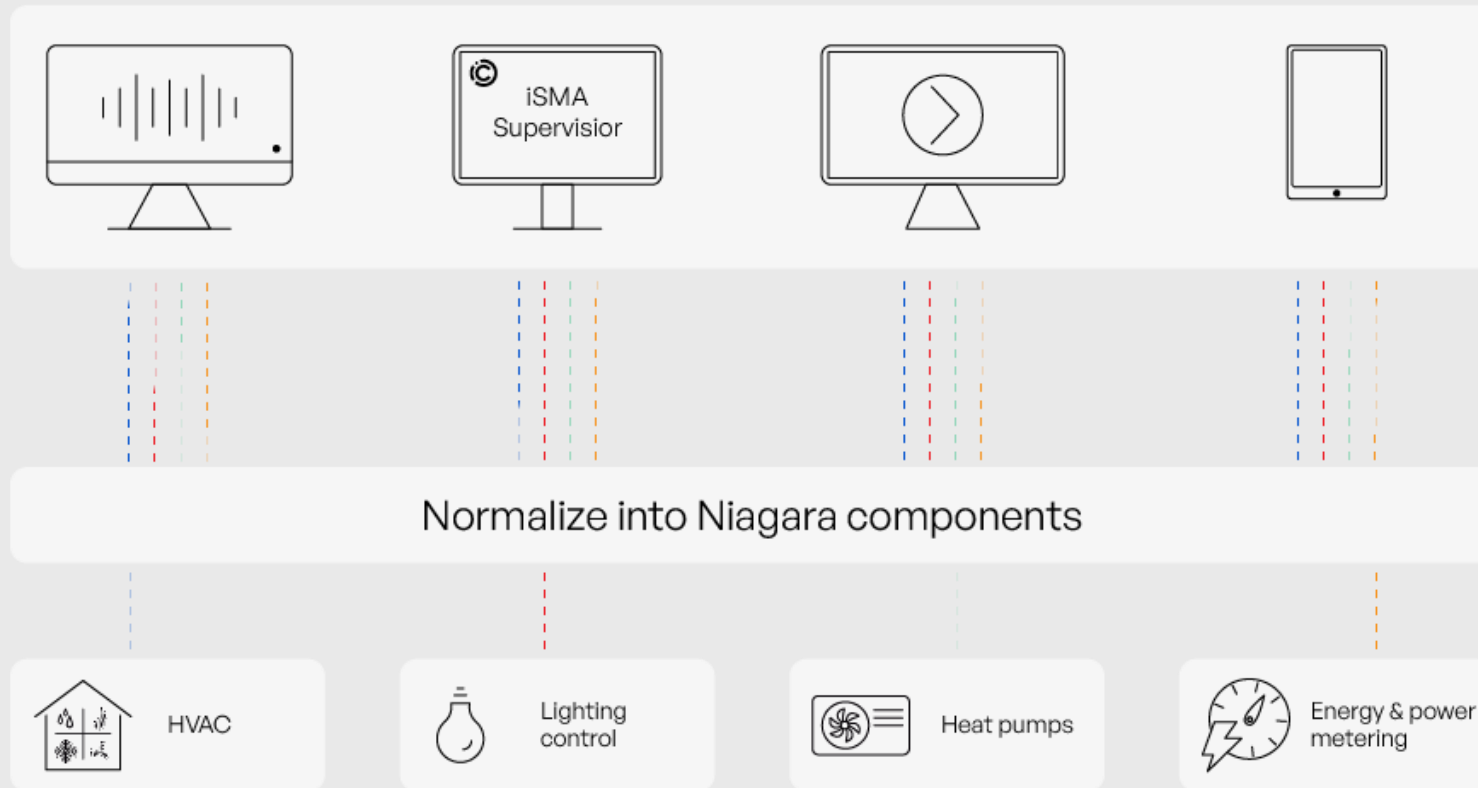
What does the Niagara Framework solve?

N to N

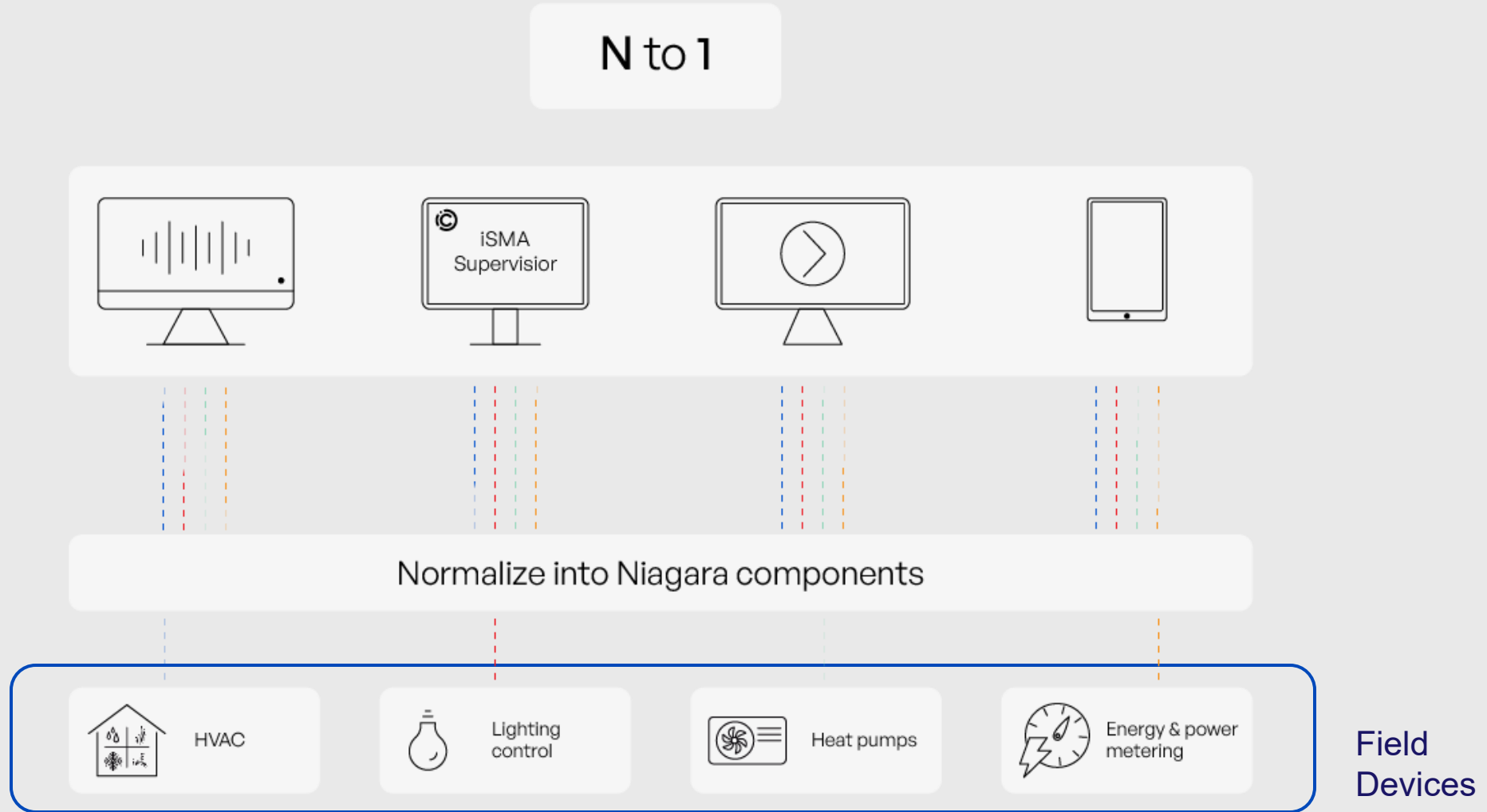


What does the Niagara Framework solve?

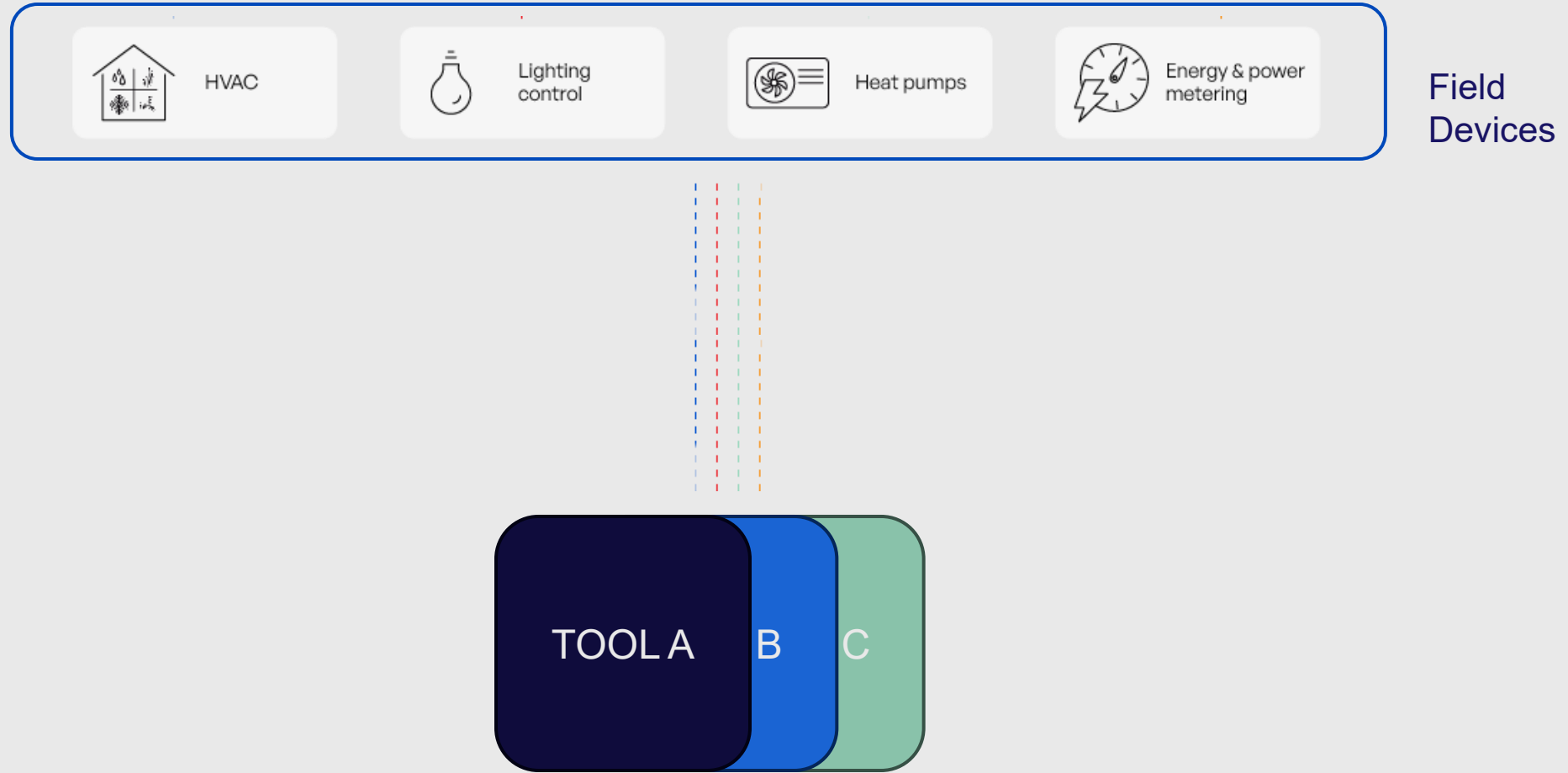
N to 1



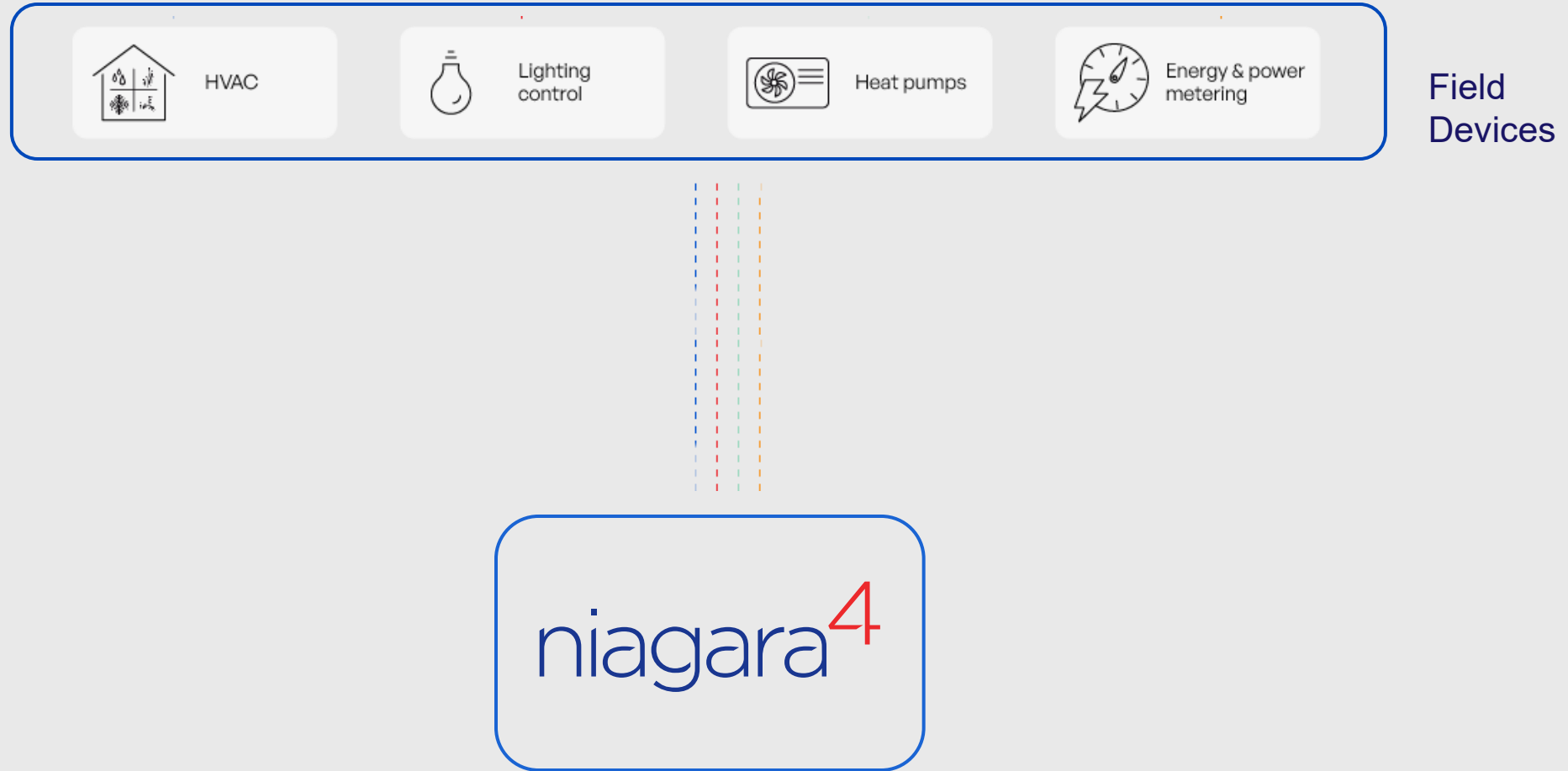
What does the Niagara Framework solve?



Field Devices



Field Devices



Unified Niagara Architecture from Field to Cloud

Key Benefits:

- 01 **Shorter** Learning Curve
- 02 **Faster** Programming & Commissioning
- 03 **Easier** Troubleshooting

Unified Niagara Architecture



Unified Portfolio for Niagara Community

4.15.1 Now Available!



iC Workbench

Native support of all iC products



iC Niagara Expansion Pack

Installation Wizard for any Niagara Workbench

4.15.1 Now Available!

Unified Portfolio for Niagara Community



iC Workbench

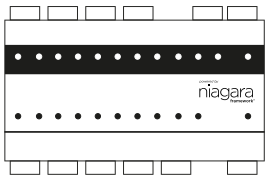
Native support of all iC products



iC Niagara Expansion Pack

Installation Wizard for any Niagara Workbench

Powered by Niagara Framework Controllers



MAC36
Hybrid IoT Controllers

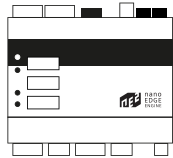


JACE
Integration Controllers

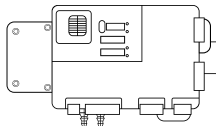
Niagara-enabled Controllers



RAC18-IP
Room Application Controller

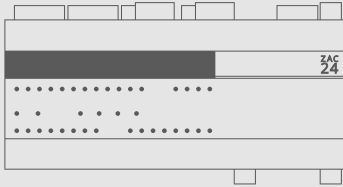


VAV14-IP
Variable Air Volume Controllers

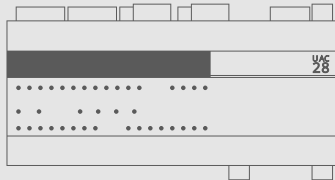


Coming soon products

ZAC24-IP
Zone Application Controller

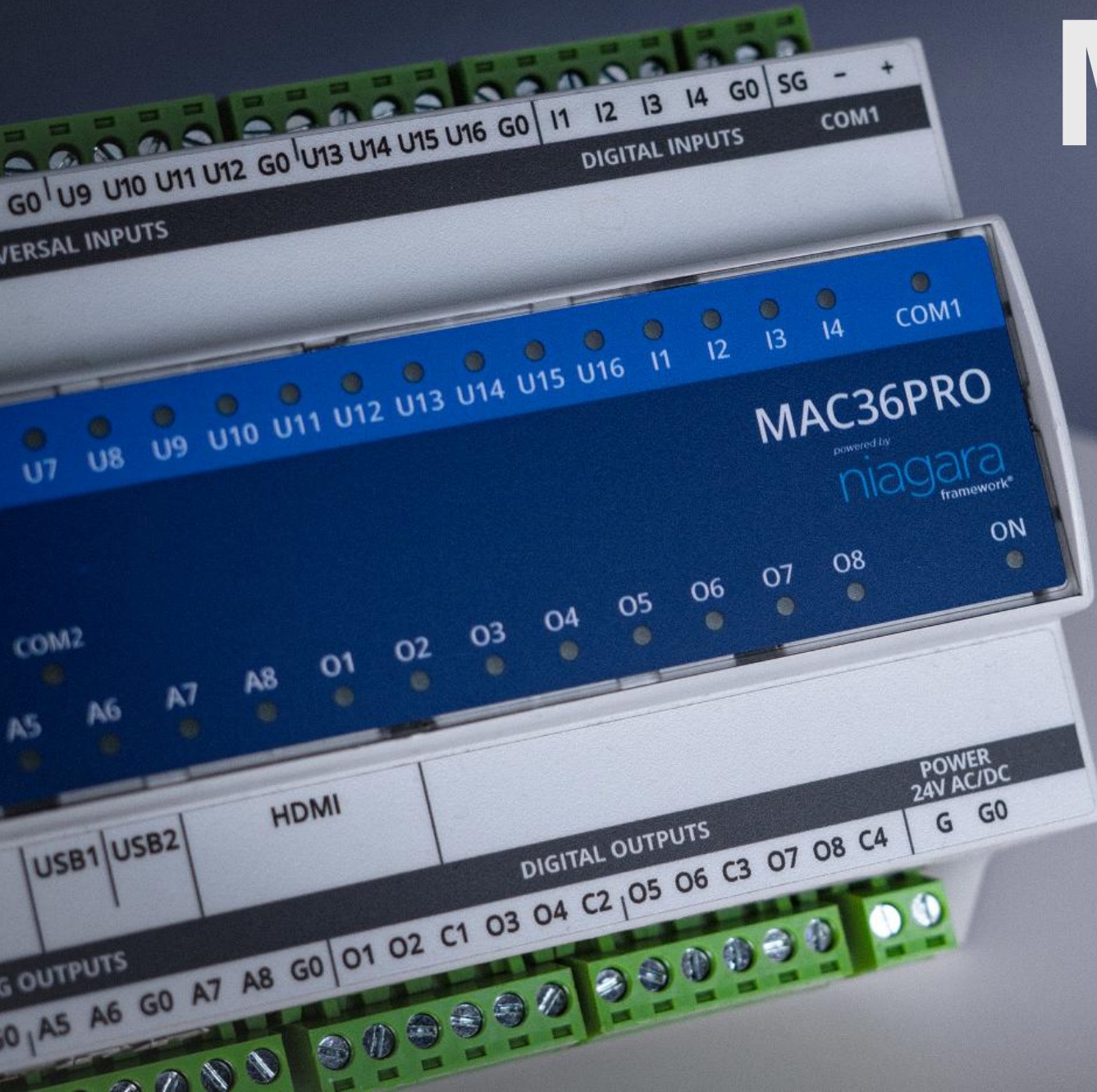


UAC28-IP
Unitary Application Controller



MAC36PRO

The most powerful controller
powered by Niagara
with 36 I/Os.



powered by
niagara
framework®

MAC36NL

Basic Information



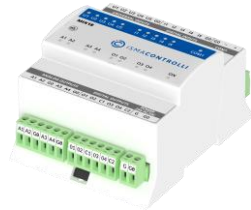
36 I/Os

niagara⁴

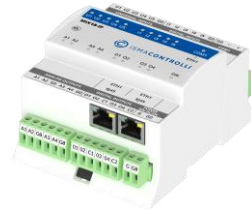
I/O Expansion

MIX Family

MIX18



MIX18-IP



MIX38

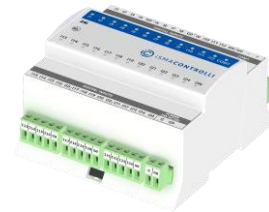


MIX38-IP

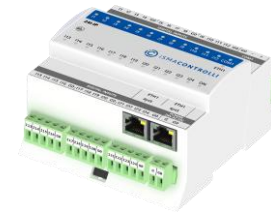


MAX Family

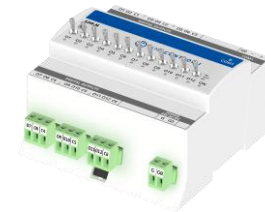
MAX24I



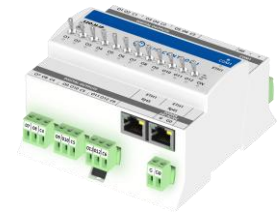
MAX24I-IP



MAX120-H



MAX120-H-IP



MINI Family

8I



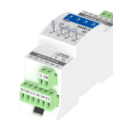
8U



4I4O-H



4U4O-H



4U4A-H



4O-H



4TO-H



8I-IP



8U-IP



4I4O-H-IP



4U4O-H-IP



4U4A-H-IP



4O-H-IP

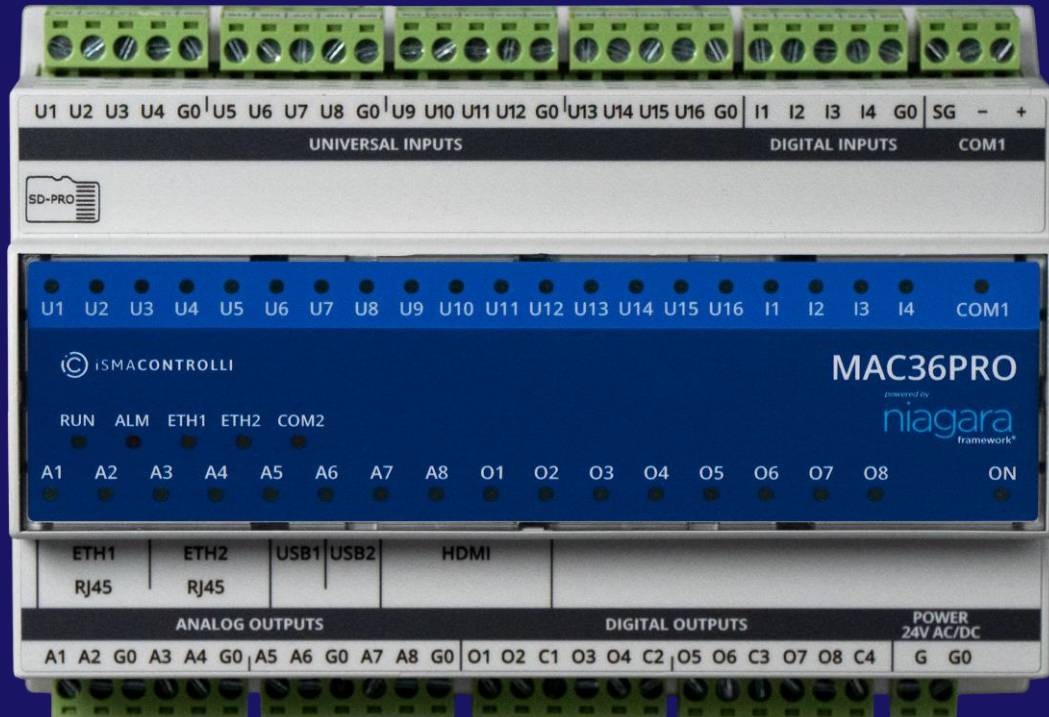


4TO-H-IP



Now available for MAC36

Fully supported using Niagara 4.13U2 and up!



niagara
recover™

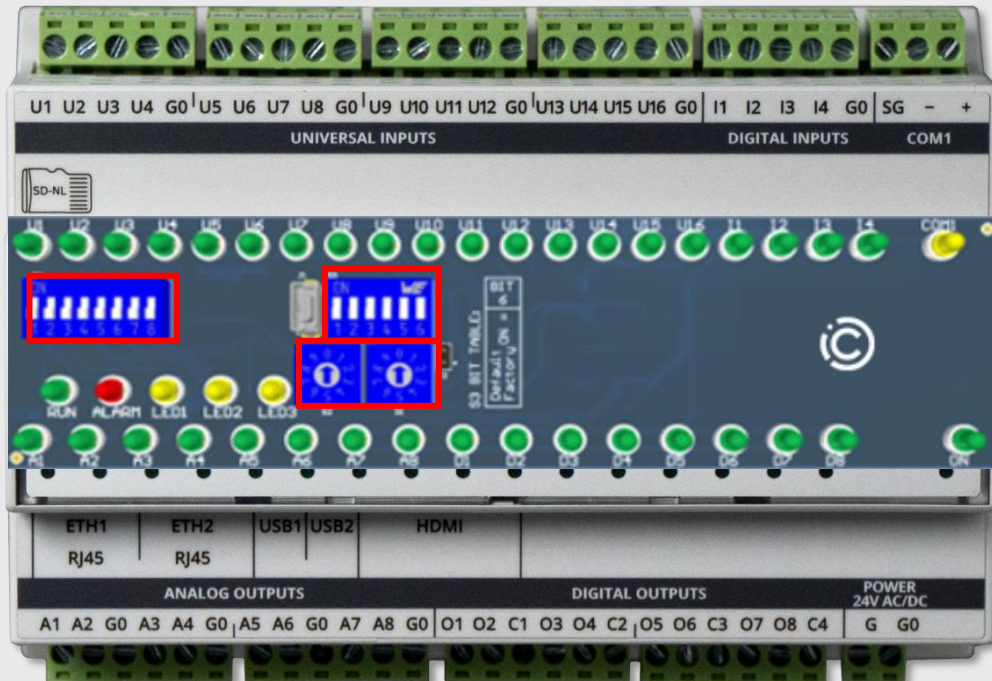
niagara
cloud SUITE™

niagara
remote™

niagara
data service™

MAC36

Programmable DIP and Rotary Switches



Fully programmable:

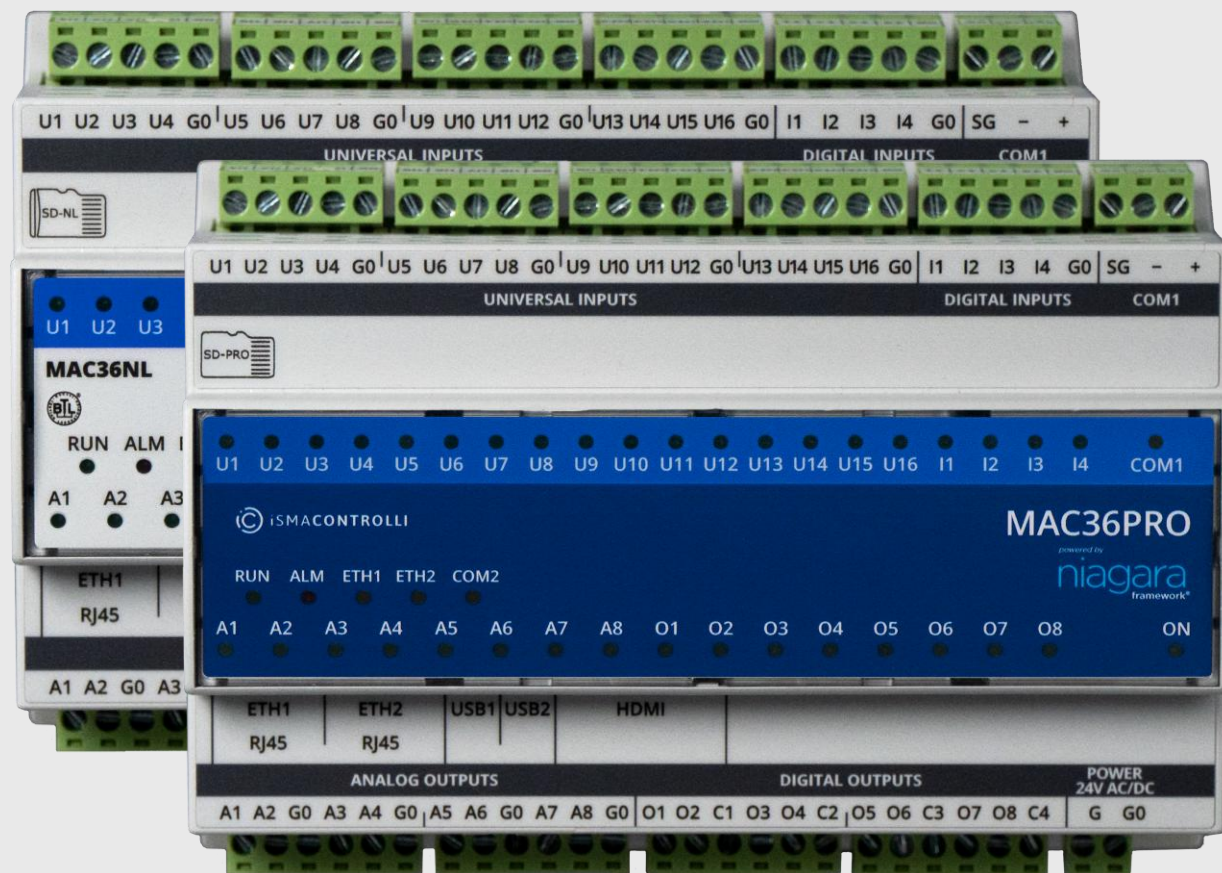
- Dip Switches
- Rotary Switches

Why?

- Use integrated switches as a part of an application
- Set device configuration without logging into the station
- Adjust parameters of the application with DIP switches
- Reduce the labor costs
- Reset controller to default settings with 6th DIP Switch

MAC36

Continuous Update process



niagara⁴

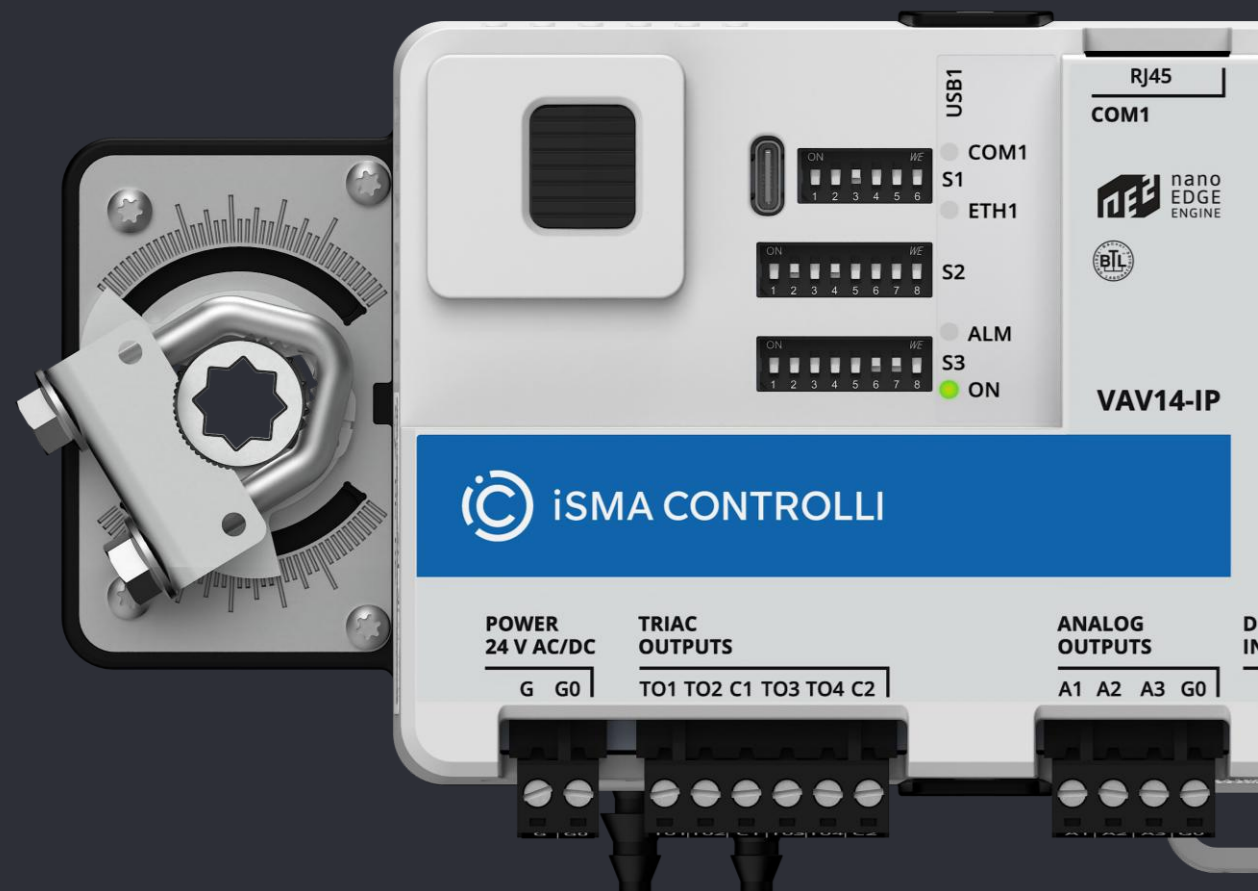
Powered by Niagara N4 Framework

Supported versions of Niagara N4.4 N4.6, N4.7, 4.8, 4.9, 4.10
(LTS), 4.11, 4.12, 4.13U2, 4.14

4.15.1 Now available!



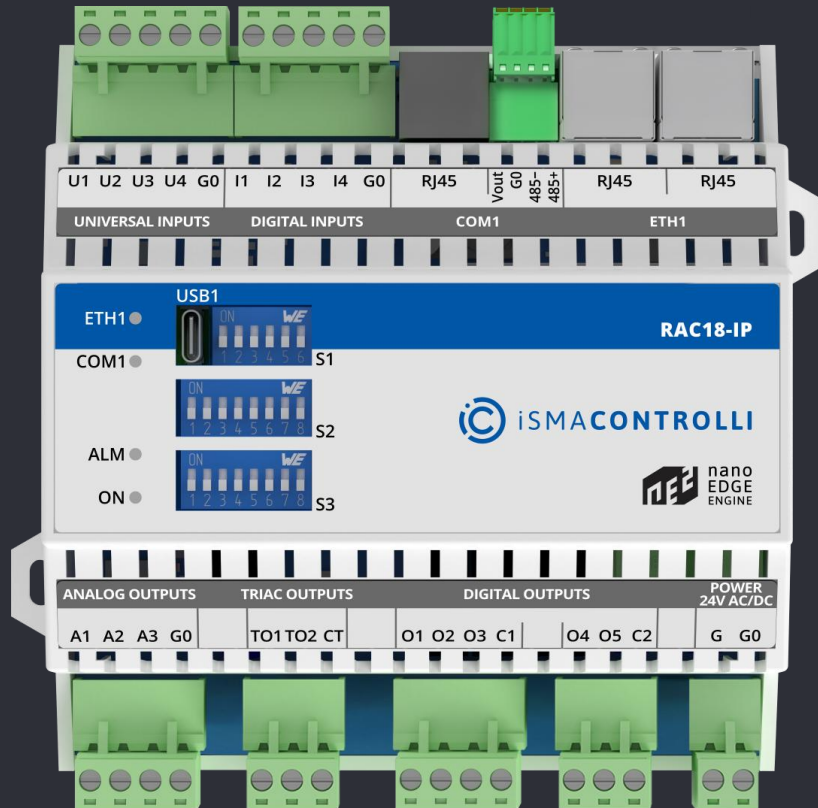
Niagara-enabled Controllers



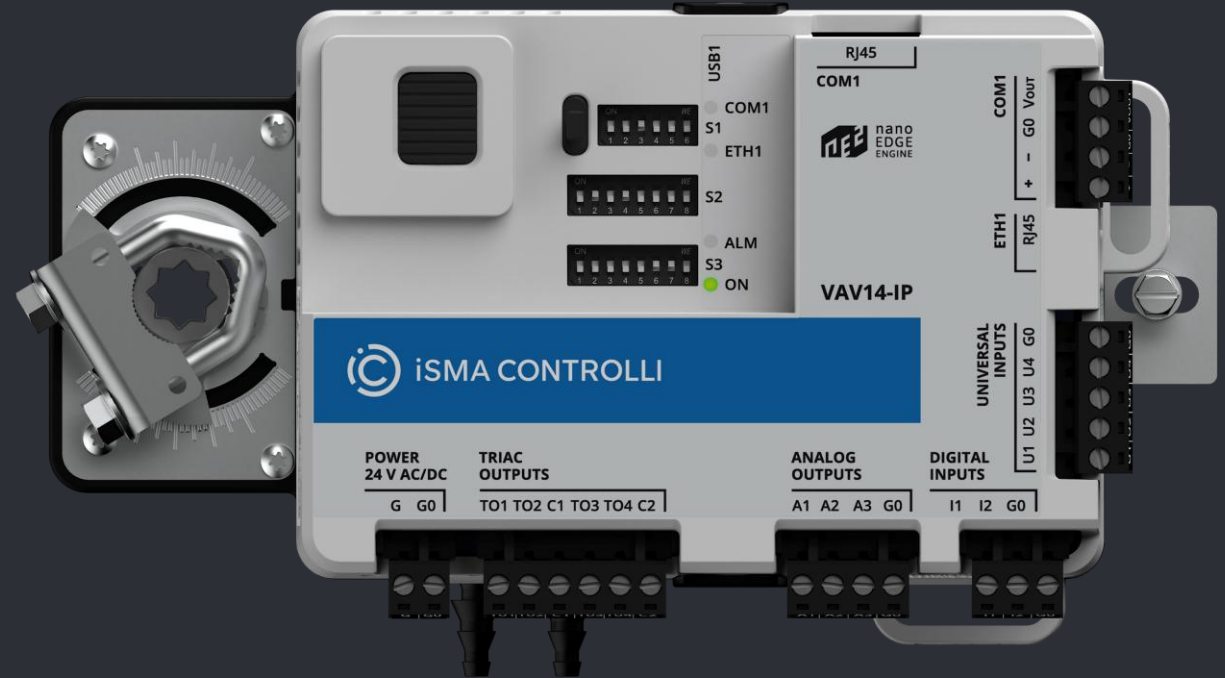


Real-time programming on your terms.

Program from scratch or customize your controller application instantly, in real time, using block programming on a wire sheet.



RAC18-IP



VAV14-IP



RAC18-IP

FCU / RTU / HVAC – Freely programmable



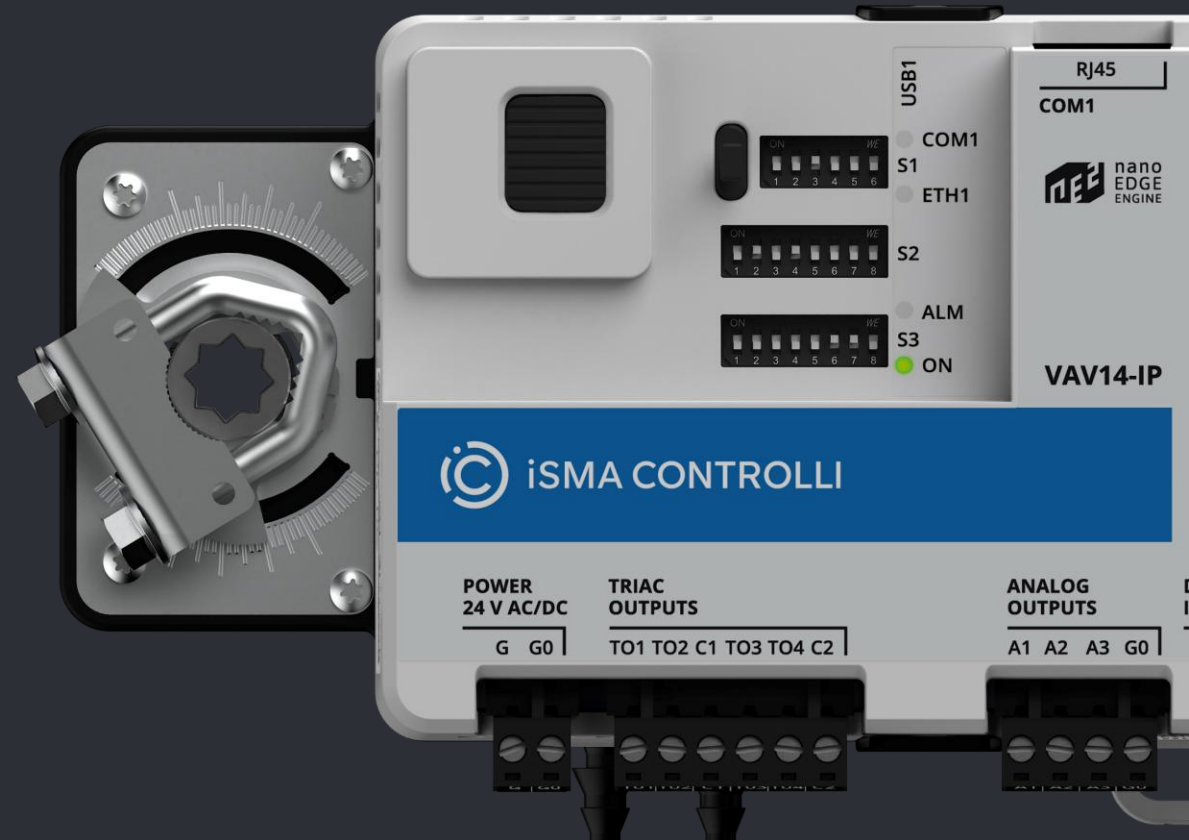
Real-time programming on your terms.

Program from scratch or customize your controller application instantly, in real time, using block programming on a wire sheet.



VAV14-IP

Pre-installed VAV application
Freely programmable





Real-time programming on your terms.

Program from scratch or customize your controller application instantly, in real time, using block programming on a wire sheet.



Coming soon



ZAC24-IP
Zone Application Controller
24 I/O
DALI-2



UAC28-IP
Unitary Application Controller
28 I/O
up to 3 RS485



Smart Actuator
IP based actuator

The **nano EDGE ENGINE** is our ultra-lightweight Niagara-enabled software platform

Key Features:

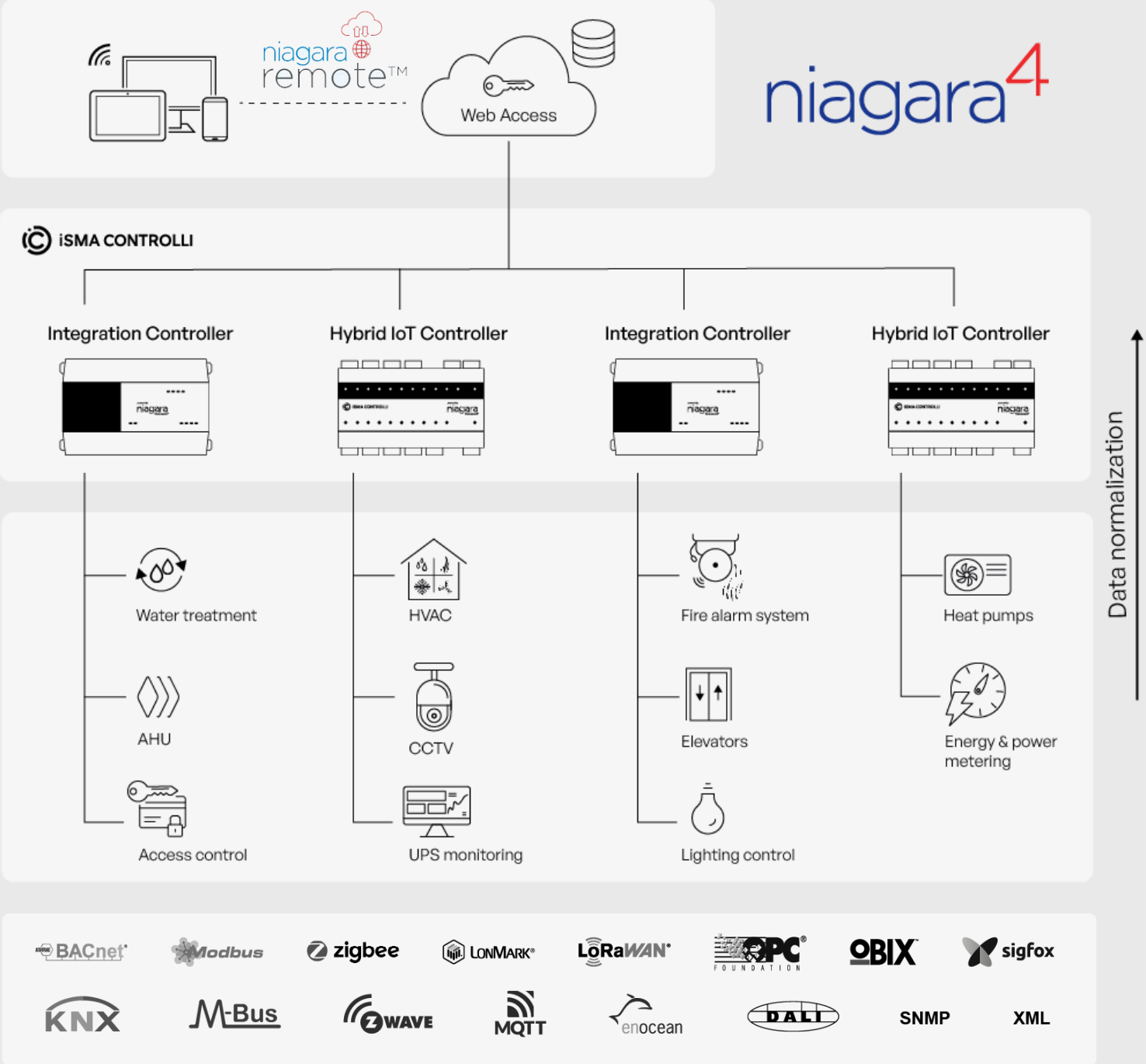
- 01 Freely programmable using Niagara Workbench
- 02 Cycle-driven applications
- 03 Native Modbus/BACnet data exposure
- 04 Modular with libraries
- 05 License-free
- 06 Free of charge tools
- 07 Constantly updated and improved



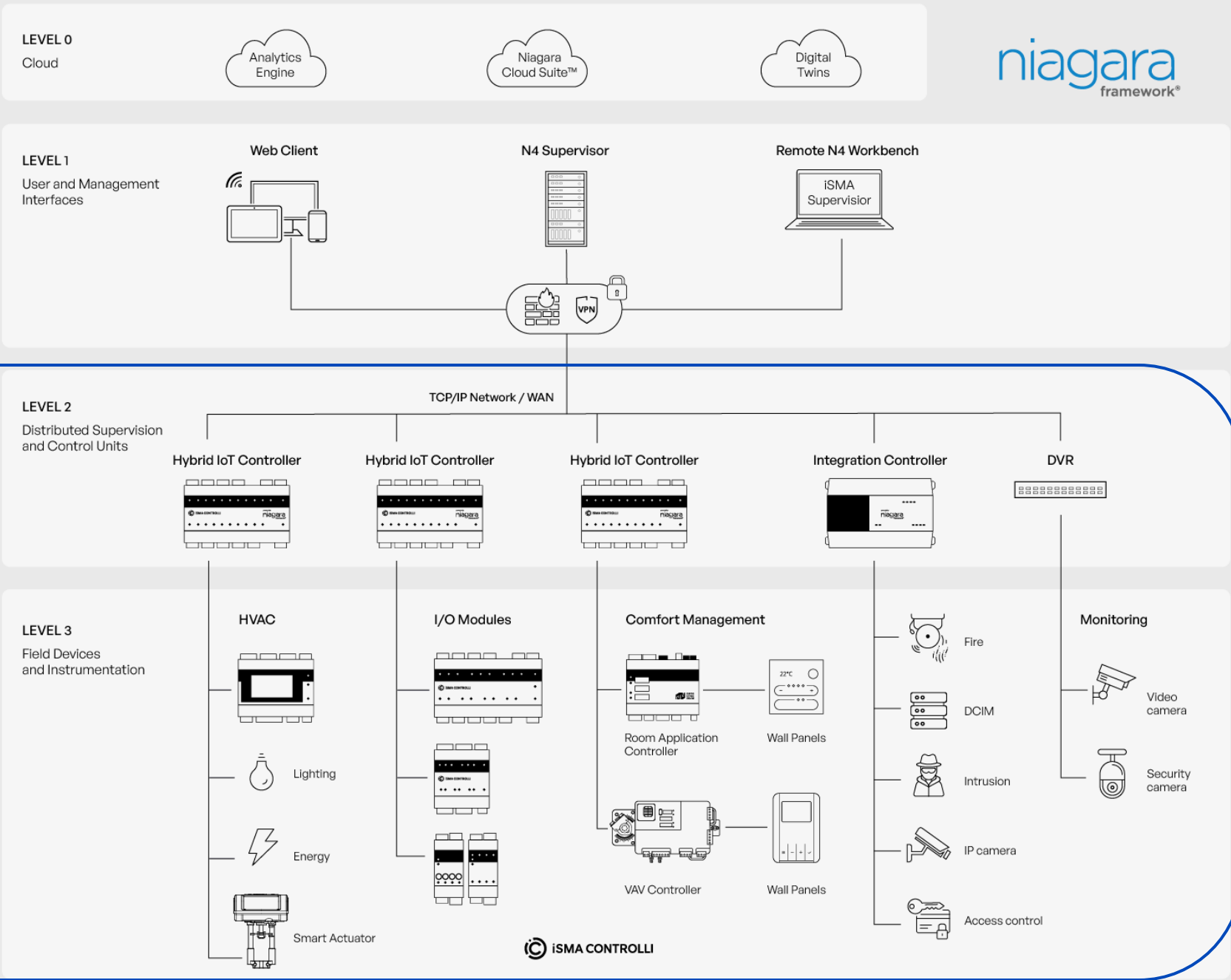
Application Examples



Standard System Architecture



Unified Niagara Architecture



Any
niagara⁴
Workbench

Local Backups

As part of the station



Backups are stored in the shared folder of a Niagara Station

The screenshot displays the Nano Backup Manager interface. The left sidebar shows a navigation tree with the following structure:

- Nav
 - ismalNano
 - nanoEdgeEngine
 - backup
 - Backup_27640513_20240715_102459.116
 - Backup_27640513_20240715_102460.116
 - Backup_27640513_20240715_102461.116
 - Backup_27640513_20240715_102462.116
 - Backup_27640513_20240715_102463.116
 - libraries
 - os
 - Nav
 - px

The main panel displays two tables of backup information:

Local Backups

Backup Name	Timestamp	DeviceModel
Backup_27640513_20240715_102459.116	10:25 AM	RAC18-IP_SN27640513
Backup_27640513_20240715_102460.116	10:25 AM	RAC18-IP_SN27640513
Backup_27640513_20240715_102461.116	10:25 AM	RAC18-IP_SN27640513
Backup_27640513_20240715_102462.116	10:25 AM	RAC18-IP_SN27640513
Backup_27640513_20240715_102463.116	10:25 AM	RAC18-IP_SN27640513

On Device Backups

Backup Name	Timestamp	DeviceModel
Backup_27640513	2024-07-15T10:17:49.478	RAC18-IP_SN27640513

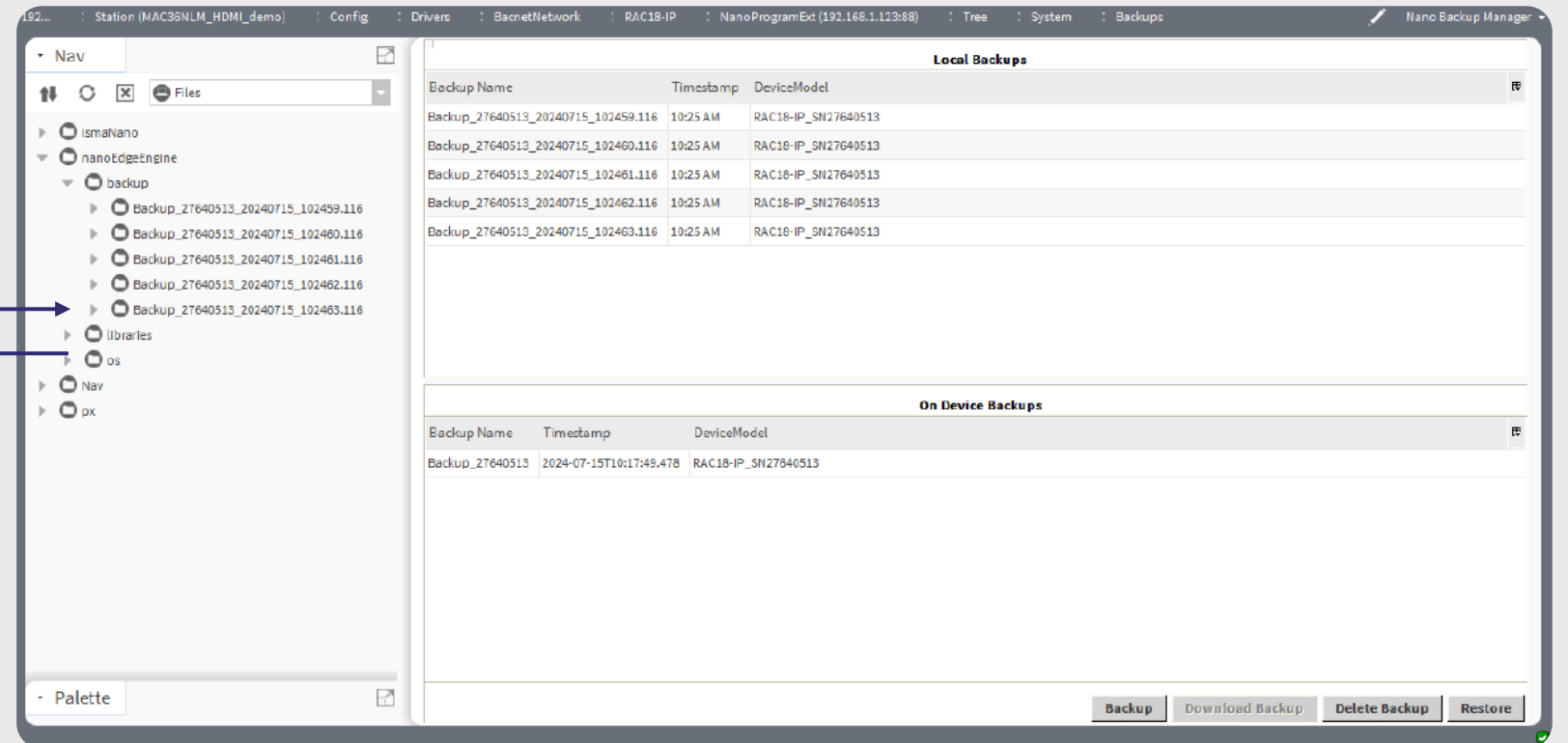
At the bottom right, there are four buttons: Backup, Download Backup, Delete Backup, and Restore.

Remote Backups

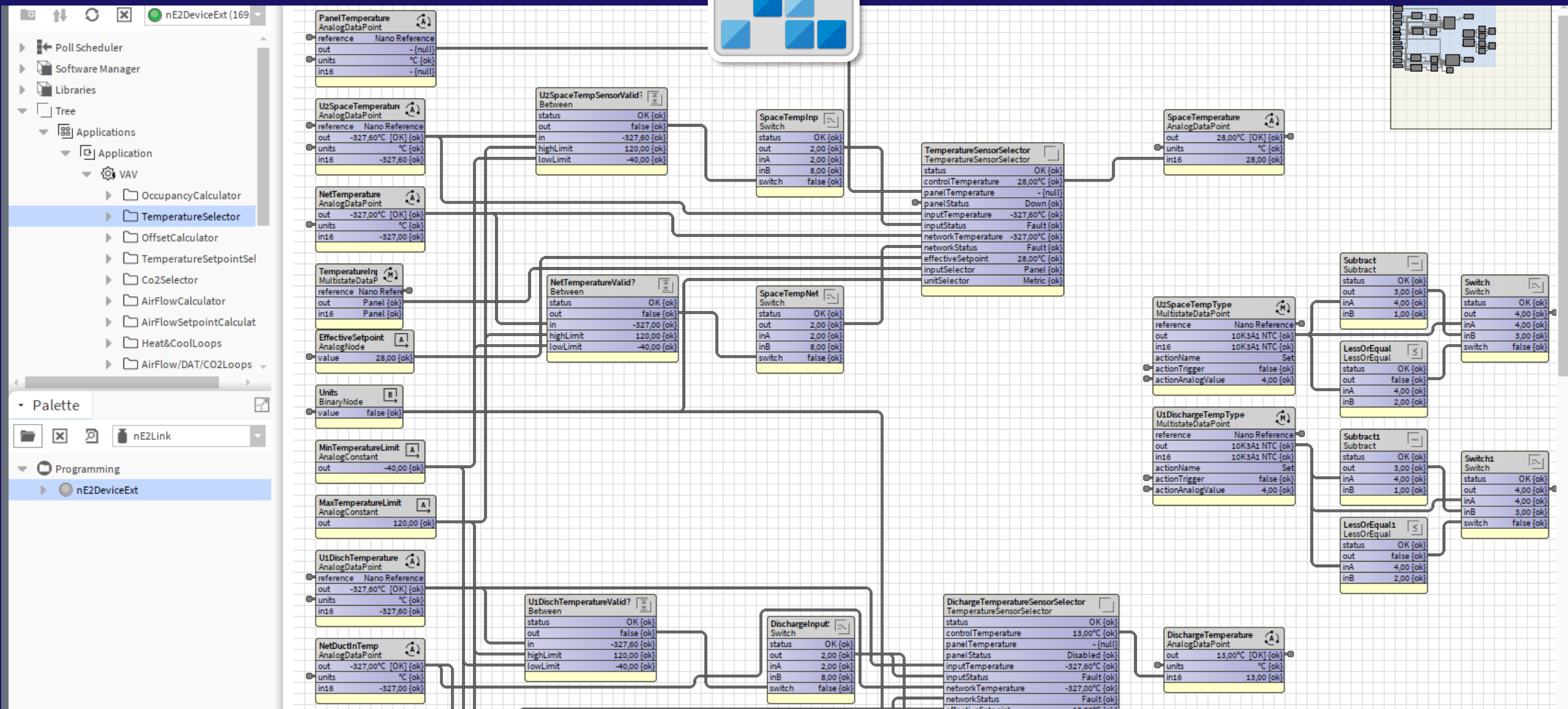
Using Niagara Recover

Backups are stored in the shared folder of a Niagara Station

niagara
recover™



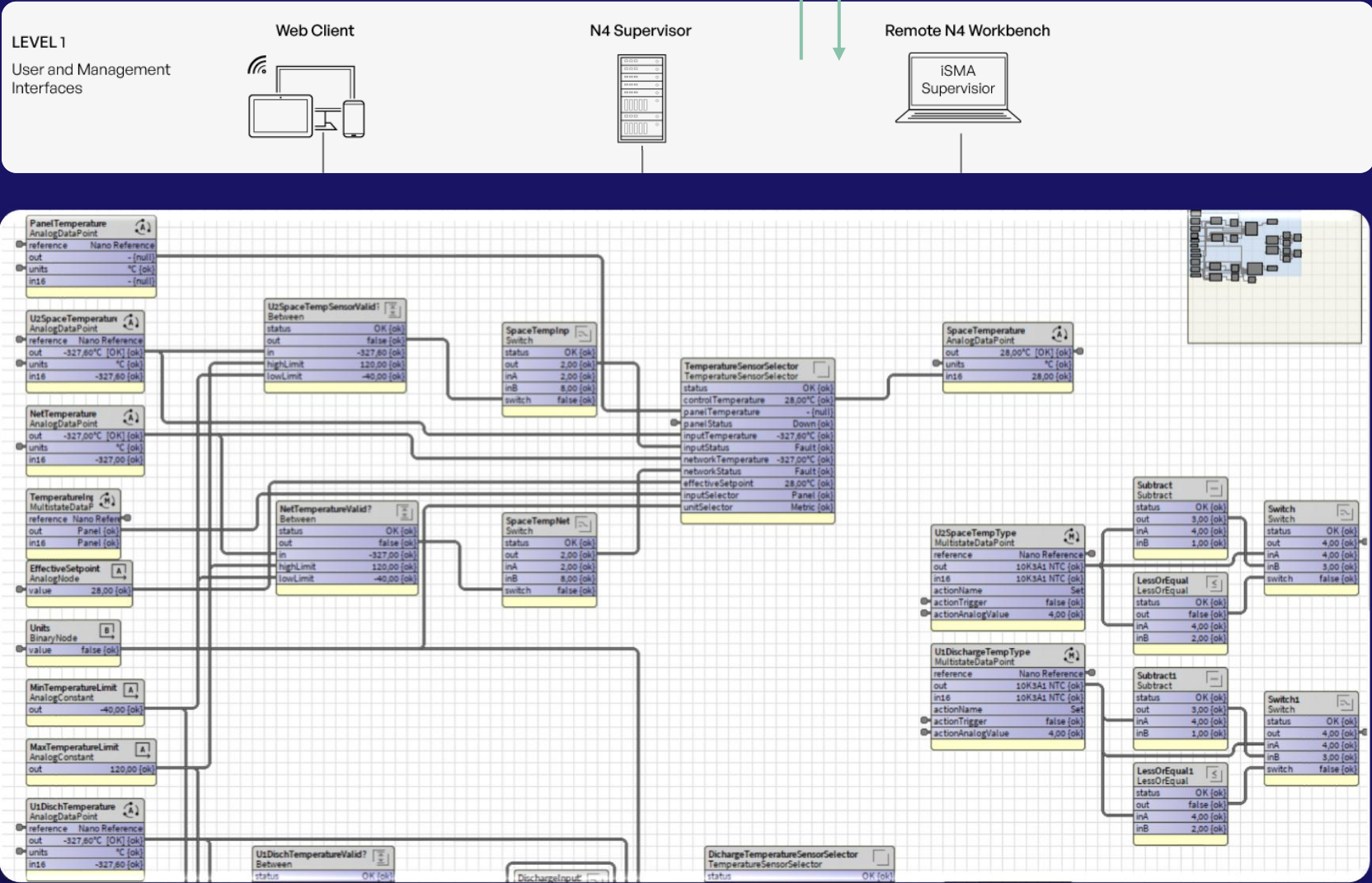
A 4x4 grid with a red number 4 in the top-left cell. Blue squares are located in the following cells (row, column): (1, 2), (1, 4), (2, 3), (3, 1), (3, 2), (3, 3), (4, 1), (4, 2), (4, 3), and (4, 4).



VAV Controller Application

Access through N4 station using Niagara Remote

niagara
remote™



Thank you



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pawel.szarmanski@ismacontrolli.com

Scan the QR code



The right partnership can change everything.
Let's talk.