



CONNECTING
THE WORLD

The logo features the text 'NF 23' in a large, white, sans-serif font. The 'NF' is positioned above the '23'. The text is centered over a dark blue globe with a grid of latitude and longitude lines. The globe is enclosed within a light blue circular border. The entire graphic is set against a dark blue background with a subtle network of white lines and dots.

NF
23

CONNECTING
THE WORLD



oneSIGHT
SOLUTIONS



Jason Bennett

*Solutions and Design
Integration Specialist*

TRIDIUM

Agenda

hello

Agenda

- The Niagara Community
- Introduction to Reflow
- Key Features
- Benefits to System Integrators
- Benefits to End Users
- Community Enrichment
- Training and Support
- Contact Information and Demo

Niagara Community

hello



Niagara Community



- The Niagara Community is a global network of developers, integrators, and users utilising the Niagara Framework for building automation and control systems.
- It fosters collaboration, knowledge sharing, and innovation among stakeholders in the building automation industry.

Niagara Community



- Members include system integrators, software developers, building owners, facility managers, and technology vendors.
- The community provides a platform for networking, professional development, and staying up-to-date with industry trends.

Introduction to Reflow

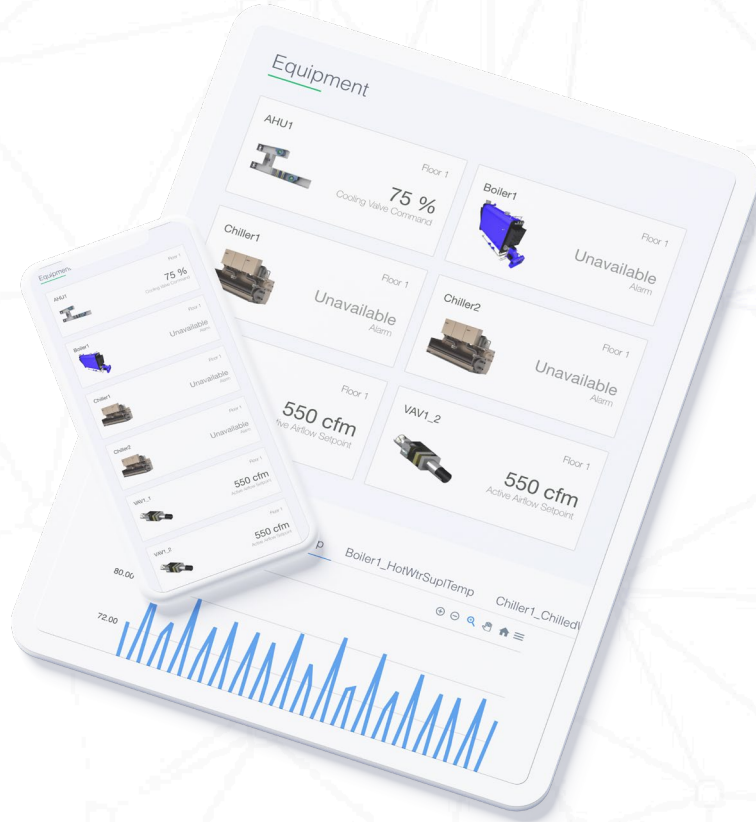
hello

Tech Specs – A few details to be aware of...

- Requires Niagara 4.6 or later
- Compatible with JACE 8000 equivalent or Web Supervisor
- Reflow inherits Niagara's Security model
- Module size of 8.5MB
- Weather & map features require an internet connection



Overview of Reflow



- Reflow was designed to make creating equipment graphics, floor plans, and dashboards a quick and easy process.
- Histories, Schedules, and Alarms work instantly, with zero configuration needed. This saves time on projects while making your work look amazing, giving you a competitive advantage.

Reflow and the Niagara Community

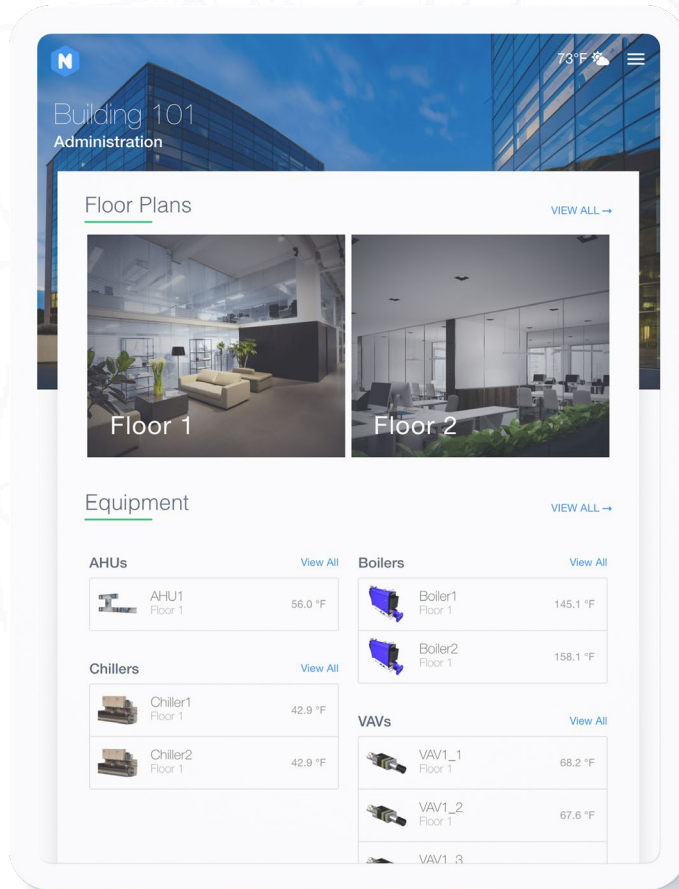


- Reflow enriches the Niagara Community by offering one solution giving the system integrator “one hat” to help manage those first impressions and enhance user experience, improve building performance, and facilitate client collaboration.
- Reflow empowers system integrators and end users within the community to create smart modern dashboards, more efficient buildings and helps contribute to the growth and success of the Niagara Framework.

Key Features

hello

Key Features

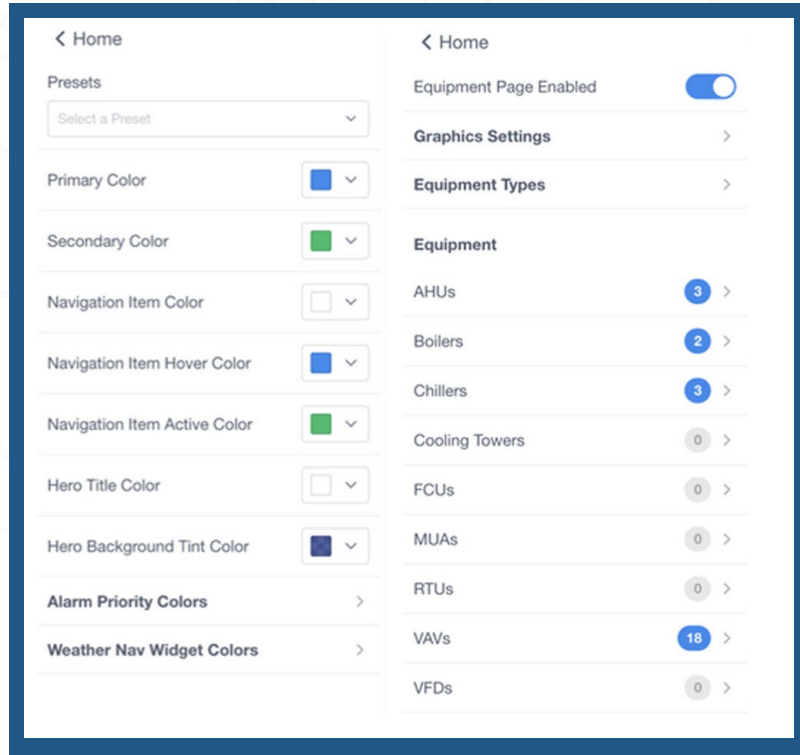


- Responsive is built-in
- Enhanced user interface and visualisation capabilities
- Modern dashboards with simplified reporting and alarm monitoring functionalities
- Fully featured graphics and floor plan editor for scalability and flexibility for those diverse projects with multiple devices

Benefits to System Integrators

hello

Benefits to System Integrators



- Reduced development time and effort
- Streamlined no coding process (on/off) (drag and drop)
- Access to a growing library of pre-built dashboard widgets
- Increased collaboration opportunities



Benefits to System Integrators

1000+

Host IDs Licensed to date

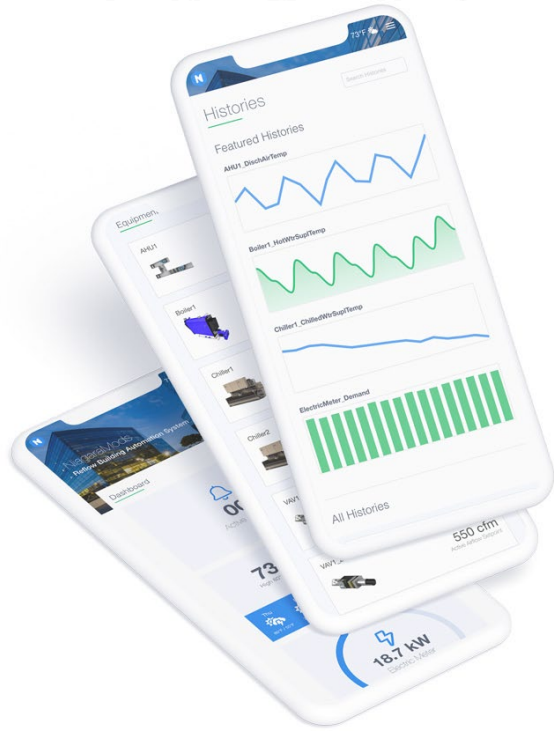
30%

Savings per project
potential

Benefits to End Users

hello

Benefits to End Users



- Enhanced building performance and energy efficiency overview
- Improved overview of occupant comfort and well-being
- Real-time monitoring and data-driven decision-making (at the work-face)
- Easy customisable dashboards and visualisations
- Cost savings through optimised system operation

Versatility and Scalability

hello

Versatility and Scalability



- Configuration Backup
- Built-In Documentation
- Free updates and bug fixes
- Unlimited Buildings & Floorplans
- Easily scale up your sites by adding more devices
- Addons to supercharge Reflow

Community Enrichment

Community Enrichment

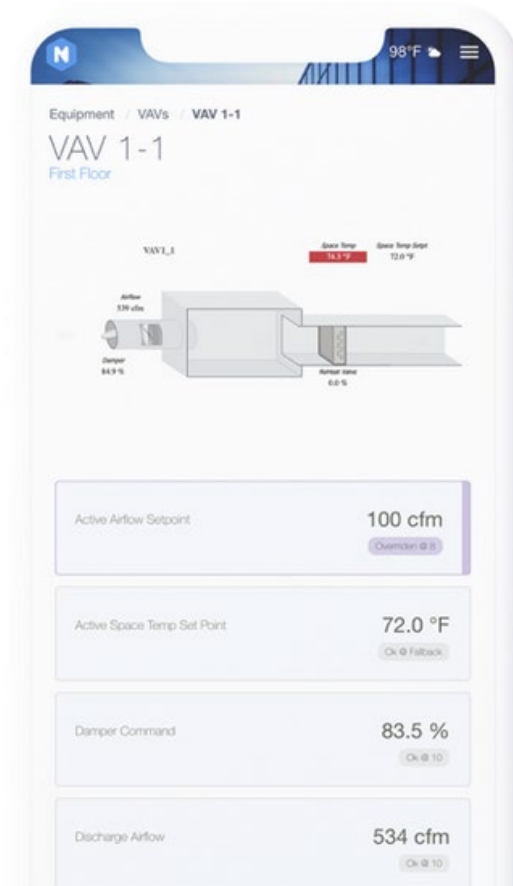


- Encourages collaboration and knowledge sharing
- Promotes innovation and better creativity
- Fosters a supportive ecosystem of system integrators and end-users
- Expands the capabilities and reach of the Niagara Framework

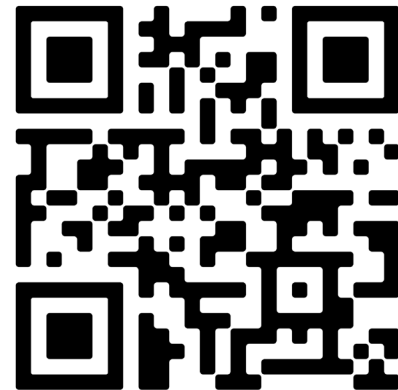
Training and Support

hello

Training and Support



- Built-In documentation
- One Sightsolutions Support Team
- OneSightTV YouTube Channel
- <https://www.youtube.com/@OnesightTV>



SCAN ME

Contact and Demo

hello

Contact

- Please see us at stand R4 and R5
- [contact sales@onesight.solutions](mailto:sales@onesight.solutions)



oneSIGHT
SOLUTIONS



CONNECTING
THE WORLD

The background of the slide is a complex, abstract geometric pattern. It consists of numerous triangles of various sizes, some of which are 3D and appear to be floating or layered. The color palette is primarily shades of blue and purple, with some lighter, almost white, areas where the triangles overlap or are recessed. The overall effect is a dynamic, crystalline structure.

Smart Building Integration with Niagara

80%

of our lifetime we spend in buildings.

40%

of global energy consumption
relates to buildings.

75%

of all buildings
are rated
energy
inefficient

80%

of all buildings
do not have a
monitoring &
control system



Conflict situation

Europe is built

Majority of buildings is not controlled, monitored and energy optimized

Old technology

BMS in the buildings is often outdated, not used or comes with an unfriendly UX

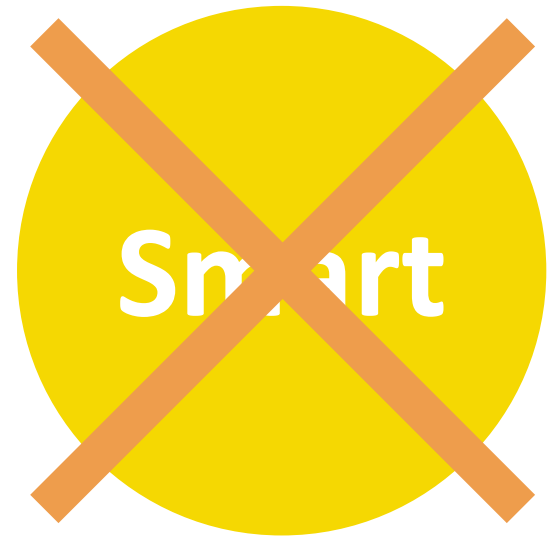
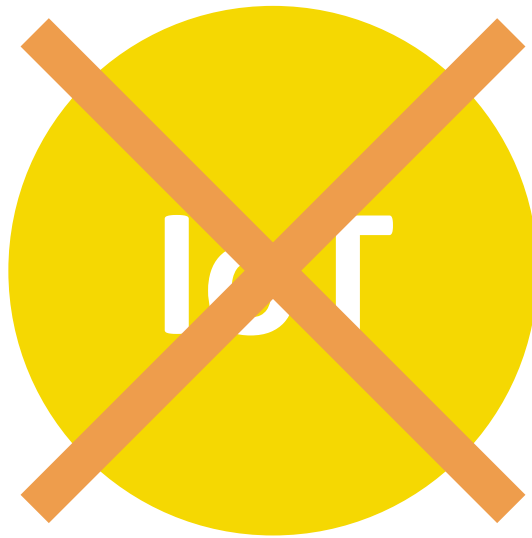
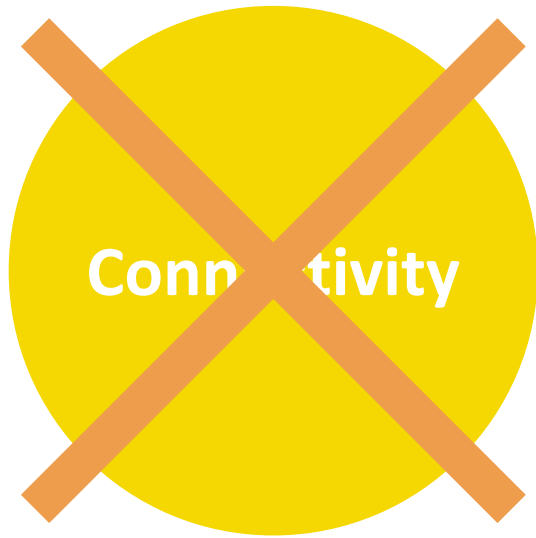
Slow renovation rate

Only 0.4 – 1.2% of the real estates in the EU is renovated every year

Digitization is demanded, but the technology used is outdated. We are not ready for a digital future with data democratization yet.



The solution?



No standartized protocols
No data democratization due to silo systems
No interface to existing systems





The solution!



**Adaption to the real
user needs and focus
on UX**

**Reflection of typical
use cases by
experience**

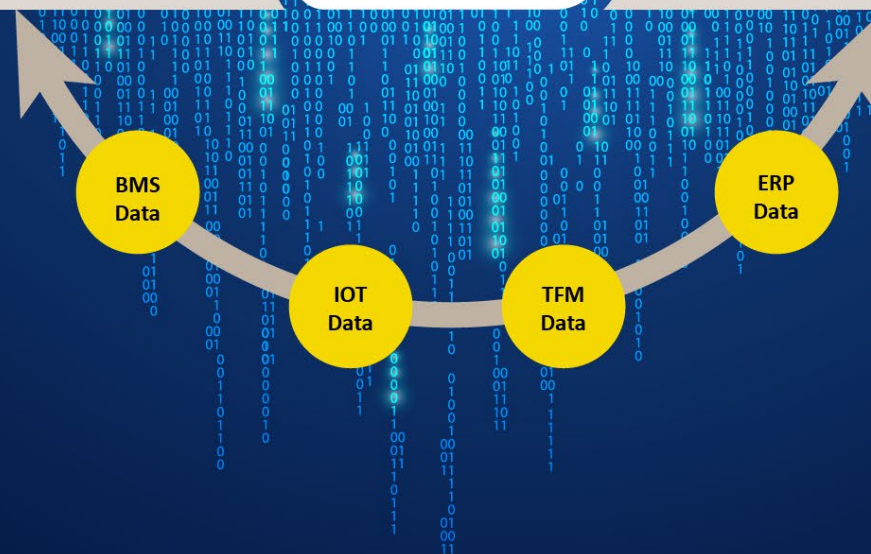
**Deployment through
building system
experts**



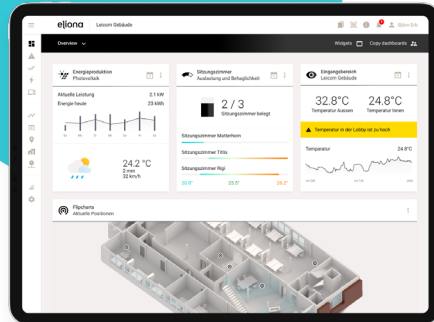
The digital twin

eliona

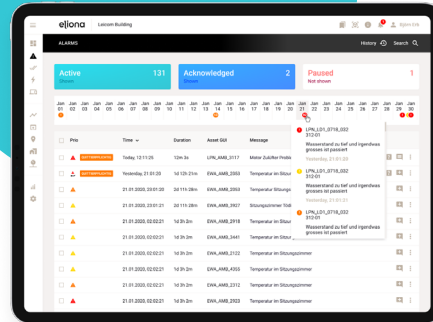
as data supplier



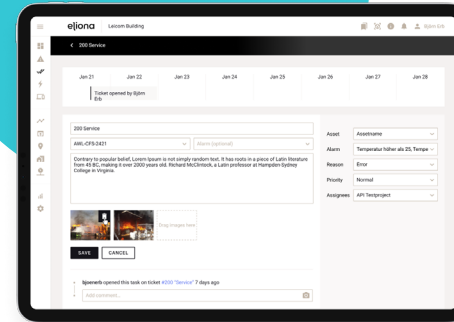
Data visualisation
with individual
dashboards



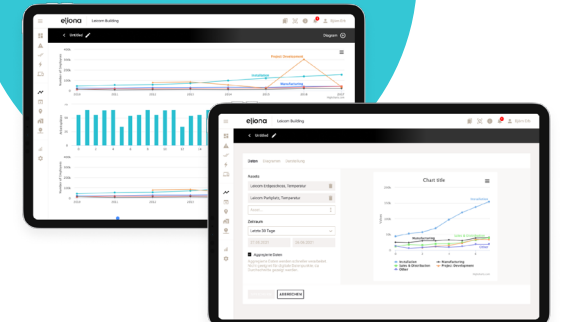
Central, rules
based alarming
& escalation



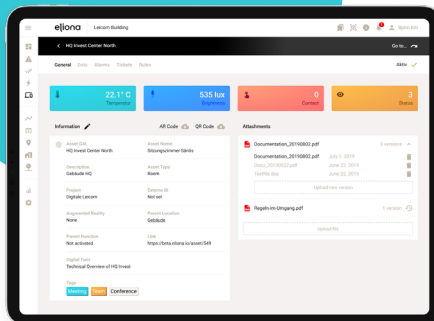
Ticketing



Historical data,
analysis &
reporting



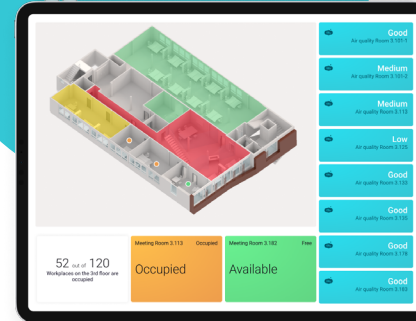
Asset & document
management



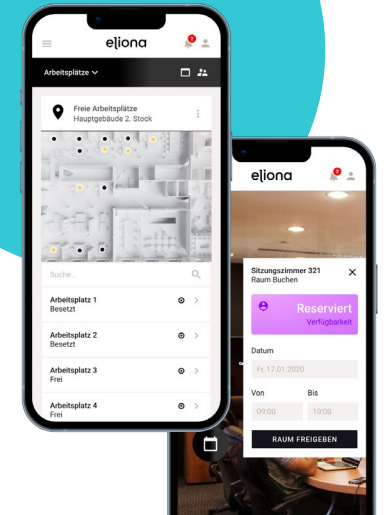
Map view in 2D,
3D and BIM



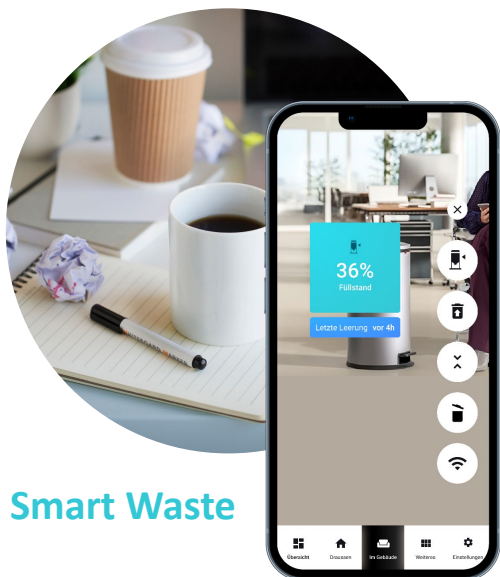
Views



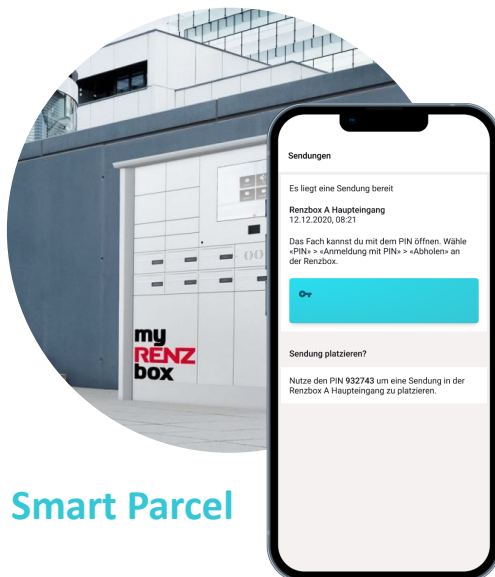
Smart Assist



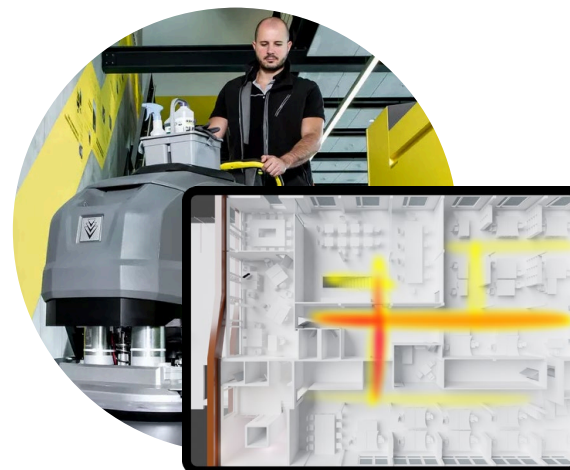
And you can easily **add IoT use cases** through our partner network, to **increase operational performance** of your property and staff



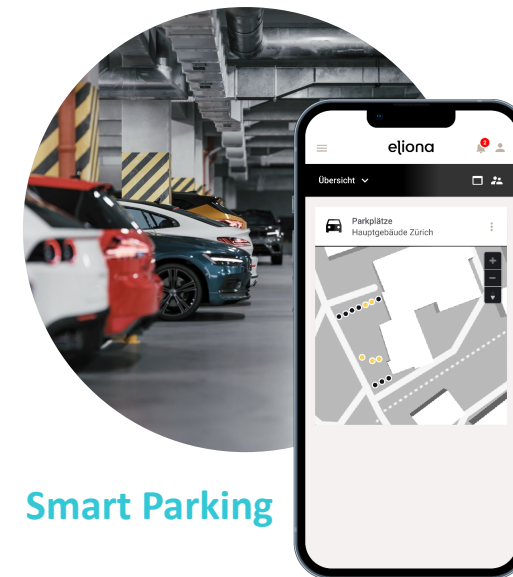
Smart Waste



Smart Parcel



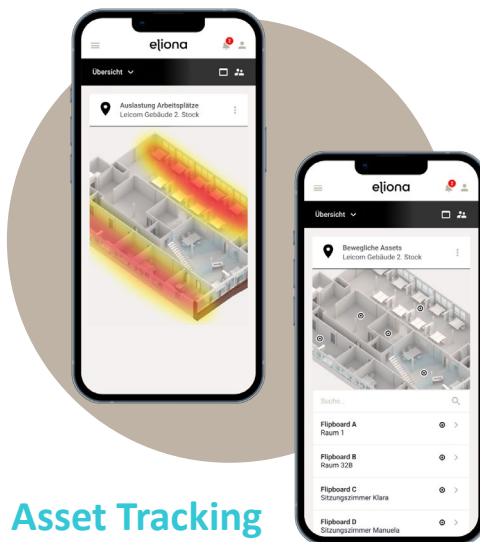
Smart Cleaning



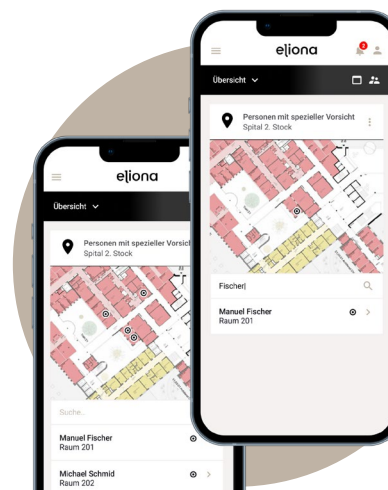
Smart Parking



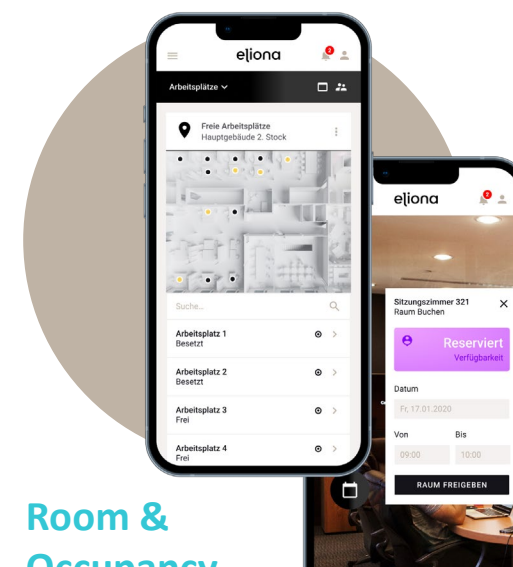
Smart Locker



Asset Tracking



People Tracking



Room & Occupancy Tracking

All this only one fingertip away ...



Based on
open IT,
BMS & IoT
standards

Public &
private
cloud or on
premises

Highly
scalable in
size and
function

Performant,
adaptive &
global

Easy to use,
focus on UX

Easy
engineering
with no /
low code

Cyber
secure by
design

... for you as a System Integrator



1

Order your Eliona
Cloud instance



2

Create your project
and set up the
users



3

Map your Niagara[®]
station with your
Eliona instance and
load the data in
your project



4

Engineer your
Eliona project with
trends, alarms,
dashboards, views
and visual
elements like
floorplans, digital
twin with **real time
data**

Smart Building has never been easier!

Demo
request

Mail me: christian.heim@eliona.io
or visit **eliona.io**





CONNECTING
THE WORLD



Ged Tyrrell
Group CEO



Josh Sykes
Associate Director





TYRRELL BUILDING TECHNOLOGIES GROUP

43



IoT and Automation Products,
R&D, Distribution and Training



Master System Integrator,
Maintenance and Support



Smart Building, Analytics and
ESG Reporting Platform

Tyrrell Building Technologies is a PropTech SaaS analytics,
IoT/Automation, and engineering business helping clients optimise
building performance reduce running costs and achieve their ESG goals.





WSP is a leading engineering and professional services consulting firm with over 66,000 passionate people globally. We help our clients achieve their ambitions by providing strategic advice, technical expertise, and a passion for impactful results.



SMART BUILDING TECHNOLOGY, ENABLEMENT AND BENEFITS



SECTION TOPICS

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1.UDMI

2.DBO

3.DAQ

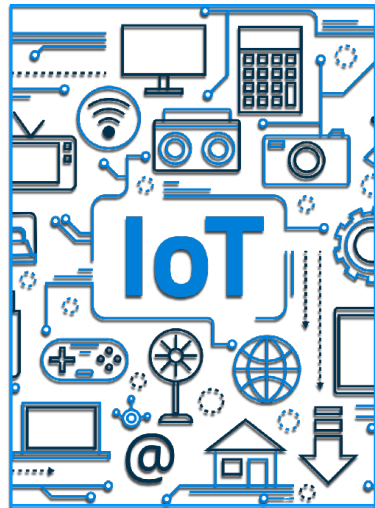
4.Project Examples



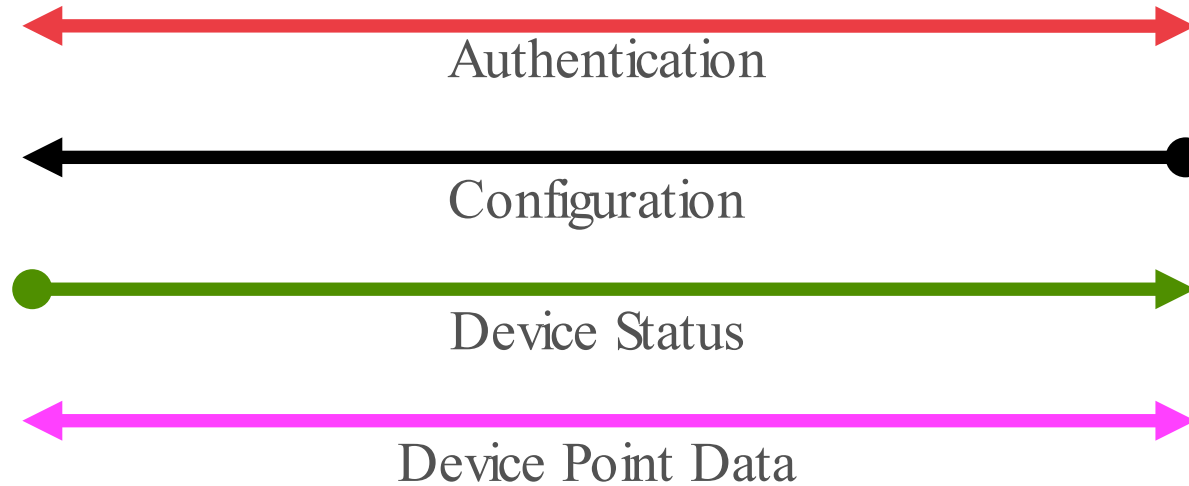
UDMI

47

Universal Device Management Interface



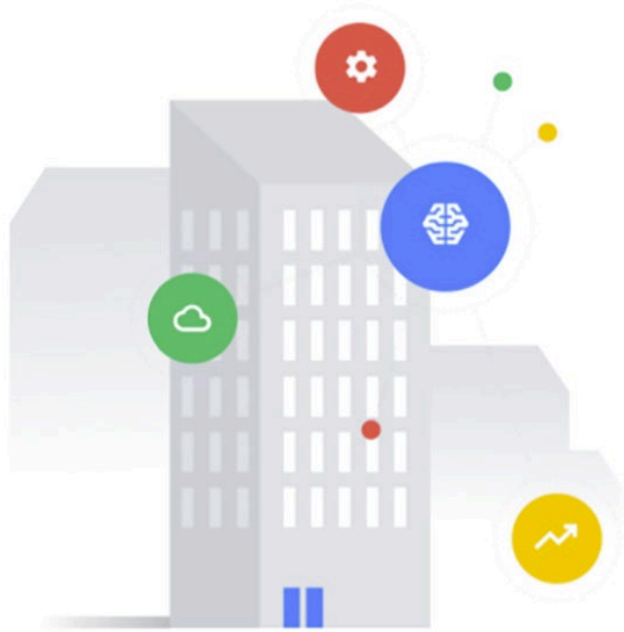
Devices



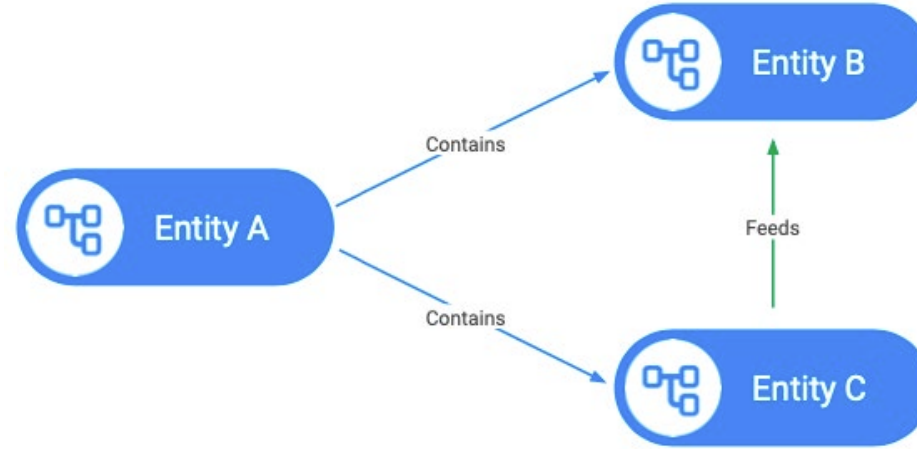


DBO

Digital Buildings Ontology



- Entities
- Entity Types
- Properties
- Relationships



Relationship Example



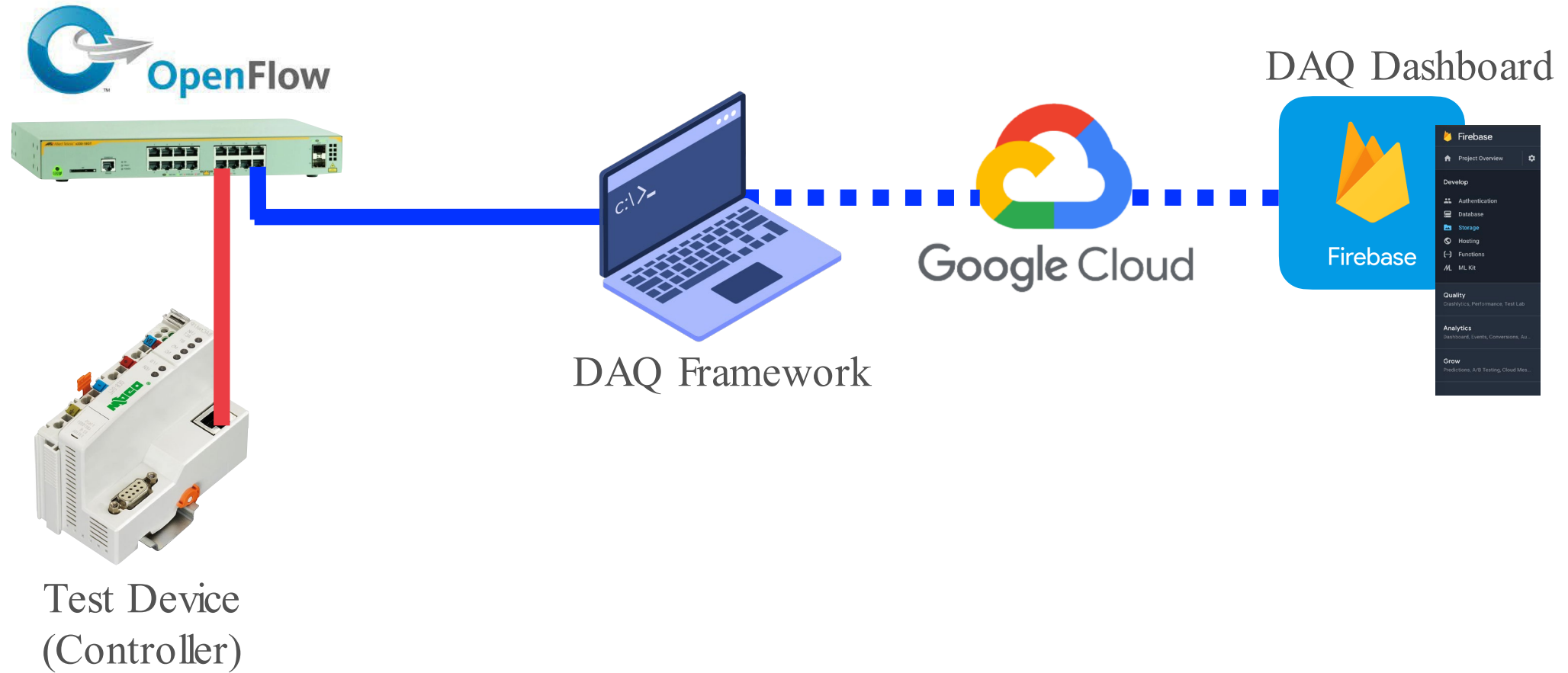
Real World 'Entity' Example



DAQ

Device Automated Qualification

49



PROJECT EXAMPLES

50



The above example point name (field) has combined the following subfields:

1. **max** – Aggregation subfield
2. **discharge** – Descriptor subfield
3. **air** – Descriptor subfield
4. **temperature** – Measurement subfield
5. **setpoint** – Point type subfield

The following subfields have not been used:

- Aggregation descriptor because max isn't an aggregation descriptor
- Component because air temperature isn't a component entity
- Measurement descriptor because temperature isn't a measurement descriptor. A wet-bulb temperature.

VALIDATION

The validation procedure shall:

- Expression matching



5.2 POINT INSTANCE NAME (point.name)

DEFINITION

A human readable control point name.
Master system integrator or specialist subcontractor.

ORIGINATOR

FORMAT

The format shall align with the [telemetry fields](#) defined in the [Google Digital Buildings Project](#).
Each field consists of a group of subfields in a specific order:

Where:
([<agg_desc>](#))? – Aggregation descriptor subfield; optional; can only be used once in conjunction with an aggregation subfield
([<agg>](#))? – Aggregation subfield; optional; can be used multiple times
([<descr>](#))? – Descriptor subfield; optional; can only be used once
([<component>](#))? – Component subfield; optional; can only be used once
([<meas_desc>](#))? – Measurement descriptor subfield; optional; can only be used once
([<meas>](#))? – Measurement subfield; required; can only be used once
([<pointtype>](#))? – Point type subfield; optional; can only be used once
([<num>](#))? – Numerical identifier; optional; can only be used once

EXAMPLES

An extensive list of subfields can be found [here](#).
The example below is taken from [DBO Module 1 Lesson 4](#).

max discharge air temperature setpoint

Verical
Project No.: 70090575
Tel Aviv

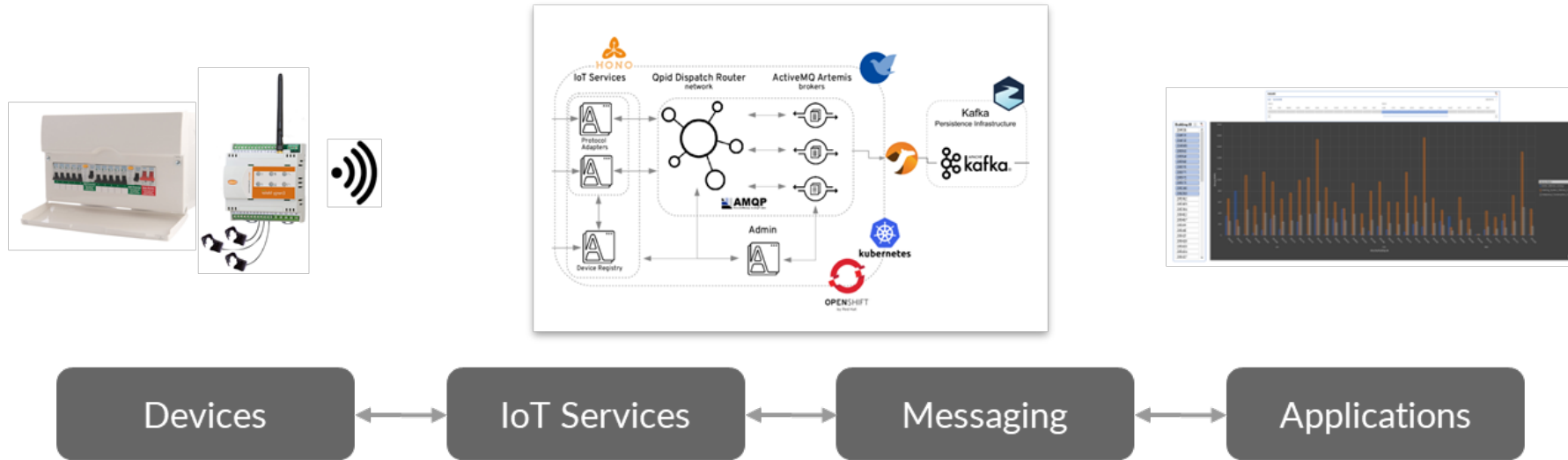
Verical
Project No.: 70090575
Tel Aviv





PROJECT EXAMPLES

51



579

Homes Monitored

7371

Unique Data Streams

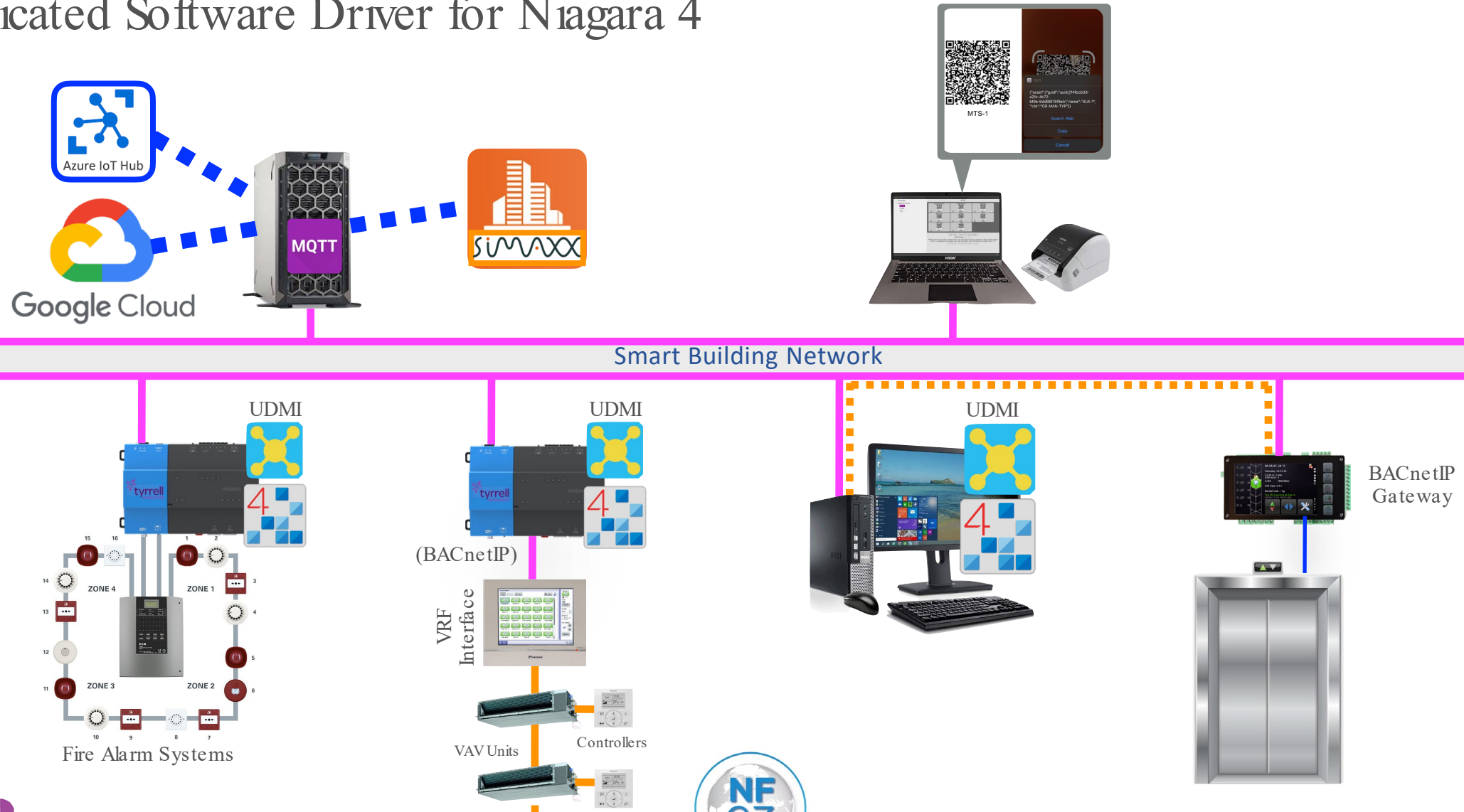
500 million +

Data Points Collected

UDMI GATEWAY

52

Dedicated Software Driver for Niagara 4

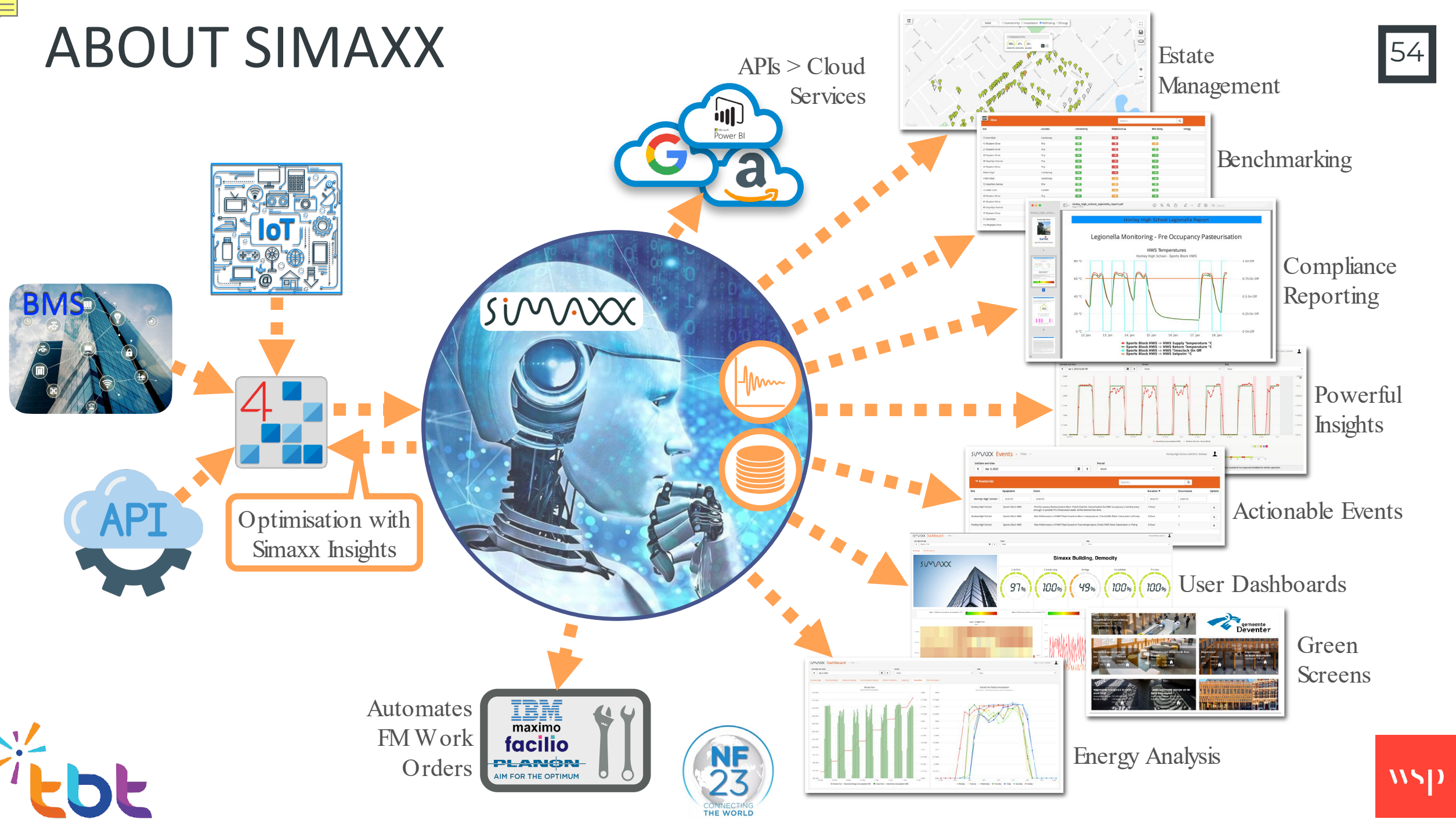




simx

ESG MADE EASY

ABOUT SIMAXX



APIs > Cloud Services

Estate Management

Benchmarking

Compliance Reporting

Powerful Insights

Actionable Events

User Dashboards

Green Screens

Energy Analysis

Optimisation with Simaxx Insights

Automates FM Work Orders



SIMAXX DAQ AND S-DAQ

Device Automated Qualification

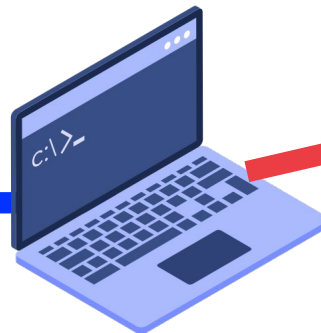
55

Simaxx DAQ App



Test Device
(Controller)

SDAQ Framework



SSL



Simaxx Device Qualification - Qualification - NSI - HNK Antareslaan, Hoofddorp

Reports

Search...

| Date | Model | Mac Address | Qualified |
|----------------|---------------|--------------|-------------|
| M/d/yy h:mm a | search | search | search |
| 29/12/22 21:15 | UPRL-JEZ | dca632ba6707 | QUALIFIED |
| 21/12/22 04:22 | Model ZK-322 | fc694782224e | UNQUALIFIED |
| 20/12/22 10:55 | Model A-IVCTP | 1c697a02fe87 | QUALIFIED |
| 1/1/23 18:02 | MKLLI-89-VV | fc6947822244 | PENDING |

Metadata data for device UPRJ-JEZ

Unqualified Pending Qualified

Input type: Ad Hoc Configuration

W.W. Grainger

M & M Control

UPRJ-JEZ

John Doe
Emily Smith
Michael Johnson

Onboarding device

Equipment Model: UPRJ-JEZ

Name (BONS): UPRJ-1000-001

Name (Human Readable): UPRJ Cooling System

Supplier: W.W. Grainger

Equipment Manufacturer: M & M Control

Serial number: 1000-01-2021-12345

Date of manufacture: 01/01/2020

MAC address: 12:34:56:78:9A:BC

Software version: 1.0.0

Machine readable identifier (GUID): Bee7c82e-5a41-4f9d-ab69-c8b4f0c2d3e4

Human readable identifier: UPRJ-1000-001-2021-01-01

Network configuration records (IPv4, IPv6, DHCP capable, 802.1X etc.): IPv4: 192.168.0.10
IPv6: 2001:db8:85a3:0000:0000:0a2e:0370:7334
DHCP capable: Yes
802.1X: No

Save Cancel

DAQ scan report for device 88c9b3d067e9

Report summary

| Category | Test Date | Result | Other |
|----------|-----------|--------|-------|
| Other | 8 | N/A | 2020 |

System Row (Full) Skip

| Expectation | pass | fail | info | fail |
|-------------|------|------|------|------|
| Other | 12 | 17 | 2 | 1 |

| Block | Test | Category | Expectation | Notes |
|-------|-------------------|----------|-------------|--|
| pass | test-network-10g | Other | Other | |
| pass | test-network-10g | Other | Other | target |
| skip | check-network-10g | Other | Other | No device id |
| skip | check-network-10g | Other | Other | No device id |
| skip | check-network-10g | Other | Other | No device id |
| skip | check-network-10g | Other | Other | No device id |
| skip | check-network-10g | Other | Other | No device id |
| pass | test-network-10g | Other | Other | ADP packets received. This packet was sent as a frequency of 100 Hz (1000 packets received). |
| info | test-network-10g | Other | Other | ADP packets received. This packet was sent as a frequency of 100 Hz (1000 packets received). |
| pass | test-network-10g | Other | Other | target reached |
| info | test-network-10g | Other | Other | Device MAC address is 88c9b3d067e9 |
| pass | test-network-10g | Other | Other | Manufacturer: Not found for address 88c9b3d067e9 |
| pass | test-network-10g | Other | Other | Full duplex mode detected |
| pass | test-network-10g | Other | Other | Link is up |
| pass | test-network-10g | Other | Other | Speed auto-negotiated successfully. Speed is 1000000000 bps |
| pass | test-network-10g | Other | Other | Device switch DNS response and resolves host names |
| pass | test-network-10g | Other | Other | Using NTPv4 |

DAQ Device Test Reports



SIMAXX DAQ AND S-DAQ IMPLEMENTATION

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Q MILEGROUP

- ◎ 350,000 sq ft Grade A offices
- ◎ 190-room hotel
- ◎ 40,000 sq ft provisional retail
- ◎ Smart Building provision
- ◎ Full systems integration
- ◎ Unified data schema



EBMS IOT CONTROLLER

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Unrivalled Capability with **intel**.

- Elkhart Lake Fanless Dual core 1.3 GHz
- 16GB DDR RAM
- 32GB eMMC
- Intel Edge Controls for Industry (ECI) with virtualisation and deterministic control

Fastest
Ever
Boot
Time

Fully Featured Expandable Hardware

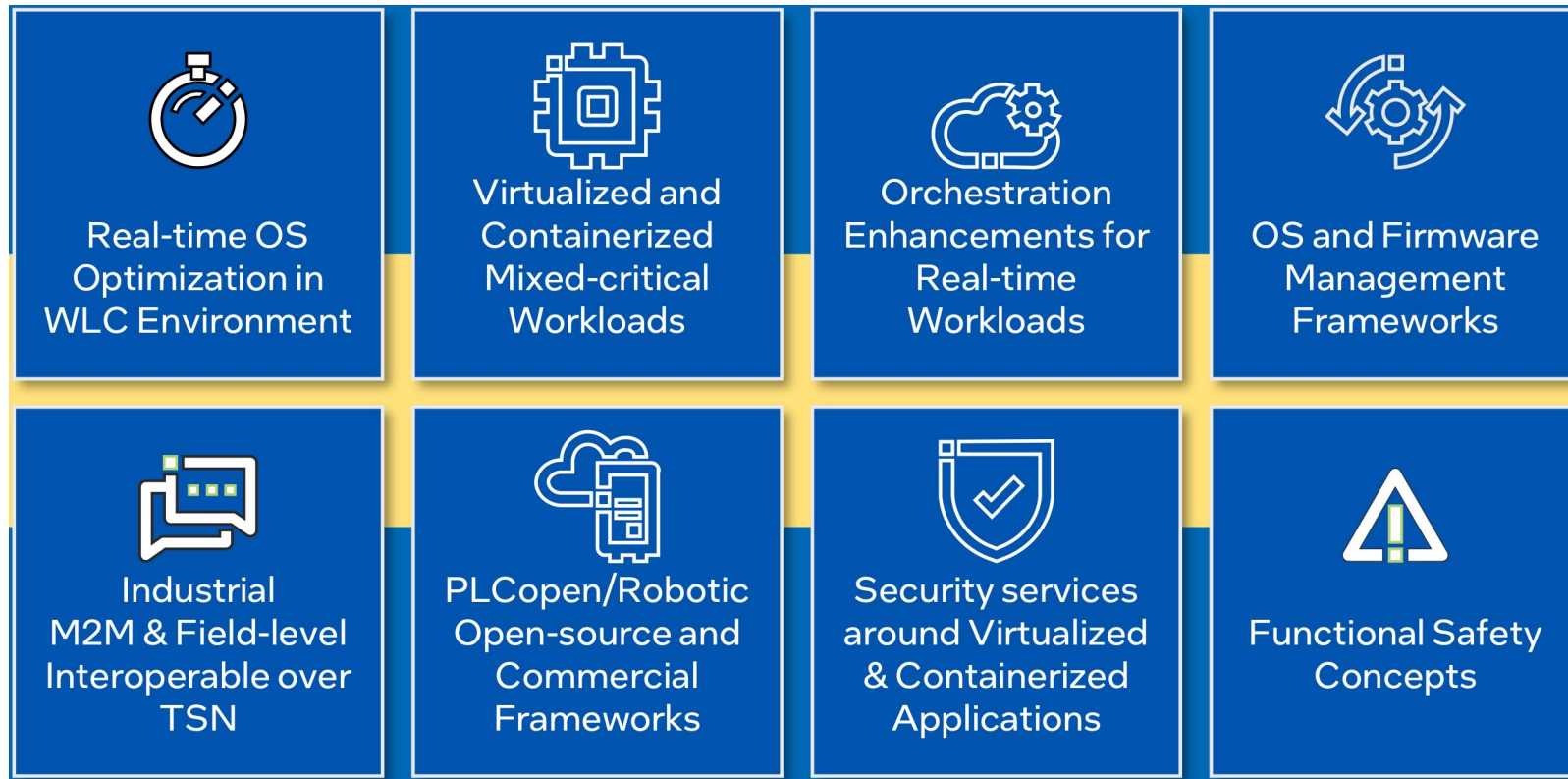
- 8 x Universal Outputs
- 4 x 230VAC 2Amp Relay Outputs
- 6 x Universal Inputs and 6 x Digital Inputs
- 2 x Ethernet Ports
- 2 x USB3.0 Ports
- 2 x RS485 Ports
- 1 x Side RS485 IO Module Connector
- 1 x RS232 Port
- Expansion up to 93 External I/O
- M.2 Option Slot



INTEL CAPABILITY FOR SMART BUILDINGS

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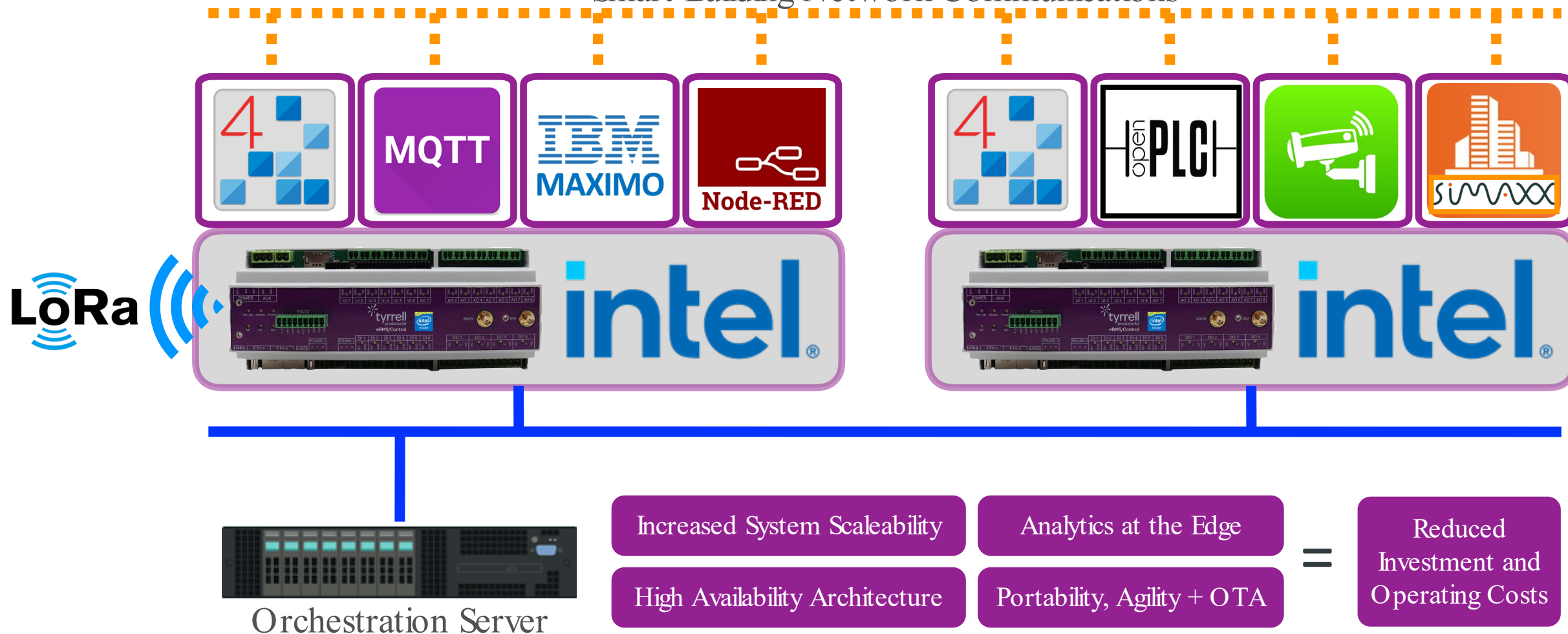
intel® Disruptive capability through Convergence of OT and IT



UNRIVALLED CAPABILITIES

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Smart Building Network Communications





Ged Tyrrell
Group CEO



Josh Sykes
Associate Director





CONNECTING
THE WORLD

LINKSPER

Introduction to the Independent Data Layer

Version 1

VAYANDATA

Niagara Developer for >10 years

Appliance Architect for multi-sites

Specialized on tasks automations and data structuration



Toolbox for Niagara

Active Toolset

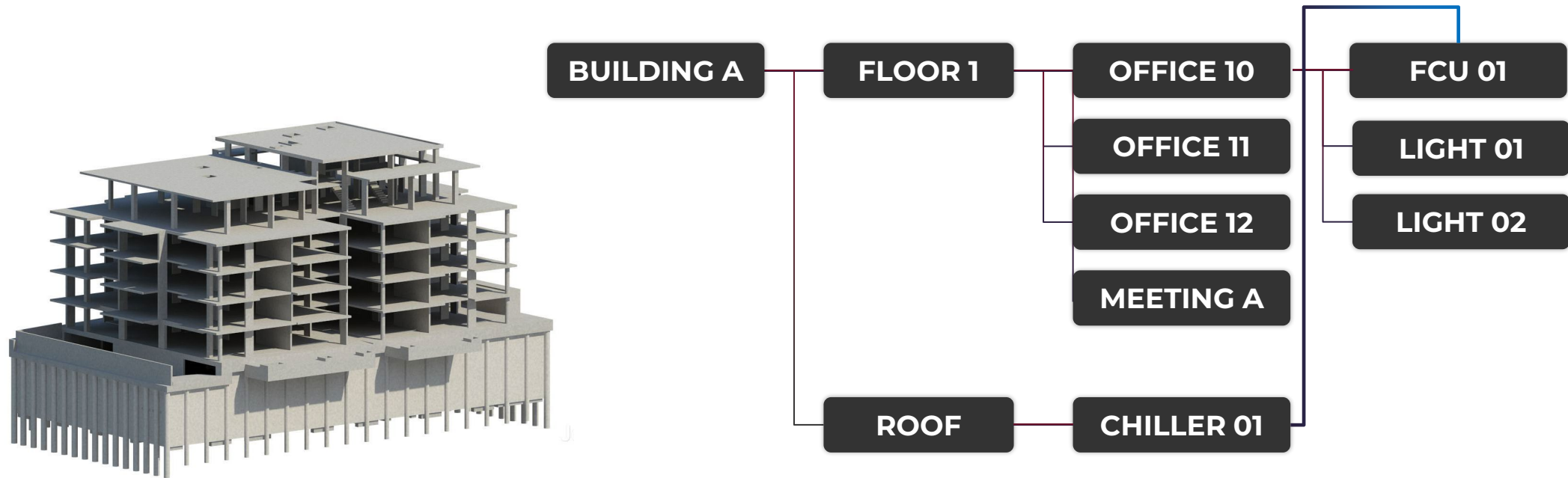
Independent Data Layer

LINKSPER



Data Modeling

Creating Digital Models

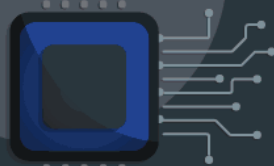


BOS Apps



Console

Explore and monitor BOS data



IoT Manager

Monitor and onboard new IoT devices



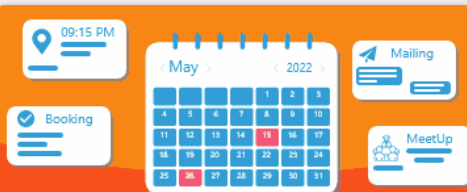
Supervision

Control and monitoring building's equipment



Dashboards

Explore energy and zone dashboards



Bookings

Manage meeting rooms reservations



Performance monitoring

Monitor Center and Hub instances in real-time



Fiix CMMS

Maintenance Management Software

écowatt

EcoWatt

Electricity weather forecast

| Equipment Integration

How to scale integration while structuring Data?



Easy integration at scale

LINKSPER

S

BOS Apps



Console

Explore and monitor BOS data



IoT Manager

Monitor and onboard new IoT devices



Supervision

Control and monitoring building's equipment



Dashboards

Explore energy and zone dashboards



Bookings

Manage meeting rooms reservations



Performance monitoring

Monitor Center and Hub instances in real-time



Fiix CMMS

Maintenance Management Software

écowatt

EcoWatt

Electricity weather forecast

Designed by VayanData
v2.0.50.0

| Building a highly structured database

TO DO

Automated Hierarchies Builder

LINKSPER

S

BOS Apps



Console

Explore and monitor BOS data



IoT Manager

Monitor and onboard new IoT devices



Supervision

Control and monitoring building's equipment



Dashboards

Explore energy and zone dashboards



Bookings

Manage meeting rooms reservations



Performance monitoring

Monitor Center and Hub instances in real-time



Fliix CMMS

Maintenance Management Software

écowatt

EcoWatt

Electricity weather forecast

Designed by *VayanData*
v2.0.50.0

Leveraging the highly structured data

LINKSPER

S

BOS Apps

Console
Explore and monitor BOS data

IoT Manager
Monitor and onboard new IoT devices

Supervision
Control and monitoring building's equipment

Dashboards
Explore energy and zone dashboards

Bookings
Manage meeting rooms reservations

Performance monitoring
Monitor Center and Hub instances in real-time

Fiix CMMS
Maintenance Management Software

EcoWatt
Electricity weather forecast

Connecting to 3rd parties



Analytics



BIM Maintenance



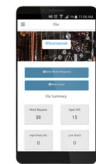
Workplace app



Dashboard & KPI



CMMS



Embedded connectors

Linkspær includes native connectors



Easy connectors deployment

LINKSPER

S

BOS Apps



Console

Explore and monitor BOS data



IoT Manager

Monitor and onboard new IoT devices



Supervision

Control and monitoring building's equipment



Dashboards

Explore energy and zone dashboards



Bookings

Manage meeting rooms reservations



Performance monitoring

Monitor Center and Hub instances in real-time



Fiix CMMS

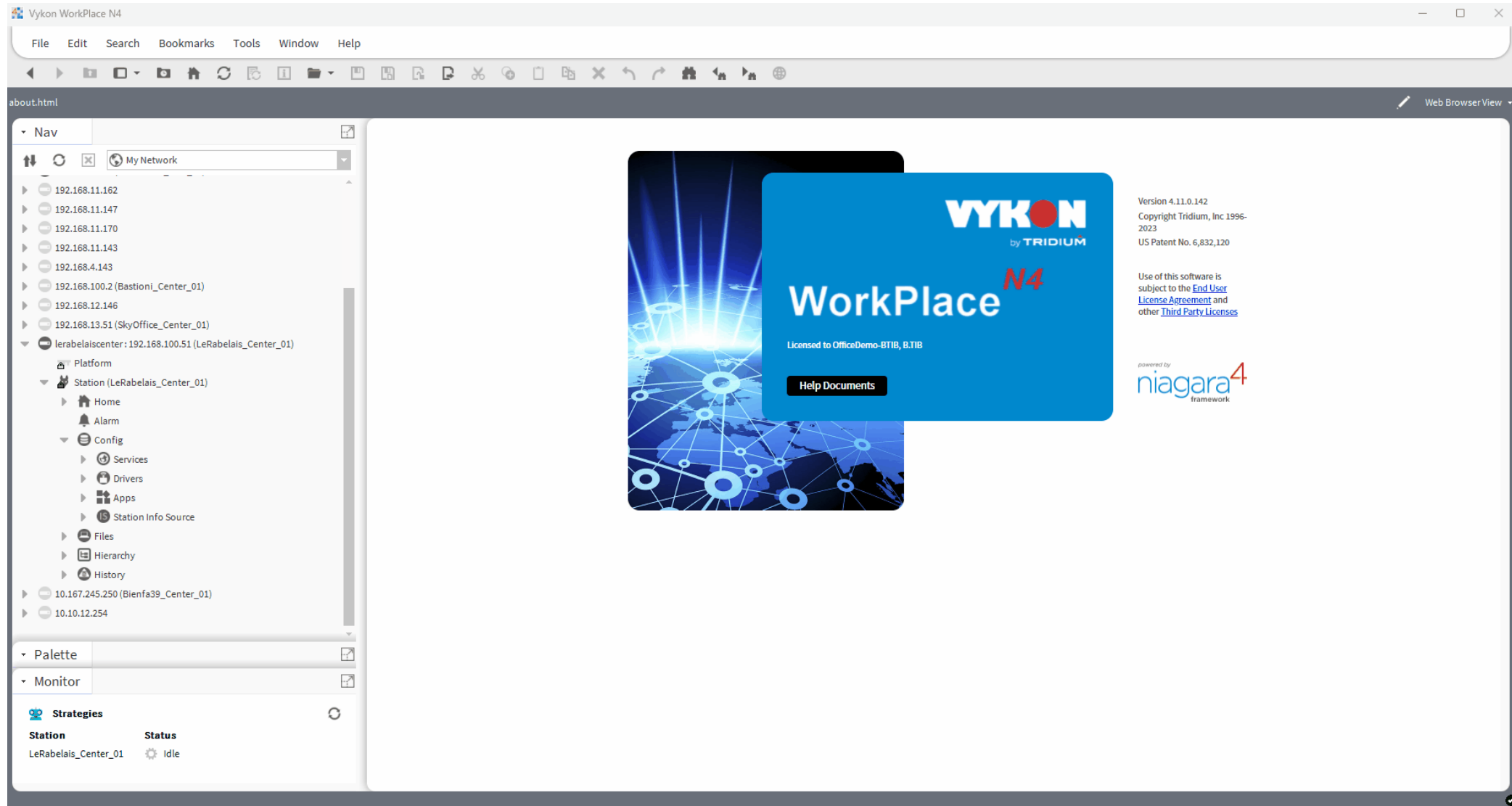
Maintenance Management Software

écowatt

EcoWatt

Electricity weather forecast

All of it is built in the Niagara Framework!



QUESTIONS?





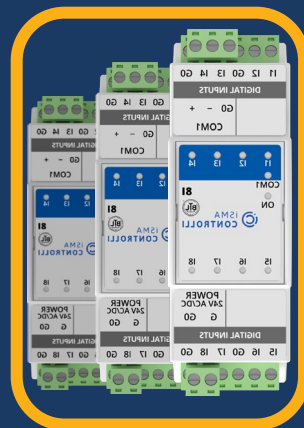
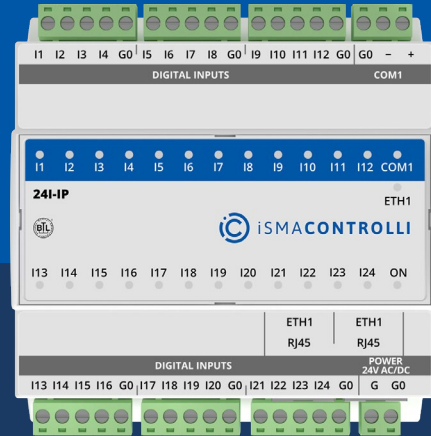
CONNECTING
THE WORLD

Innovative Community Solutions
by iSMA **CONTROLLI**

Niagara Forum 2023

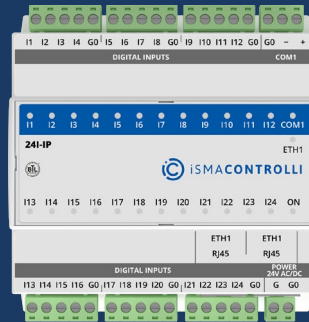


The new MAX Multiprotocol I/O Modules with seamless Niagara integration



$3 \times 8I = 1 \times 24I$

$3 \times 8I \text{ IP} = 1 \times 24I\text{-IP}$



Available now!

3x

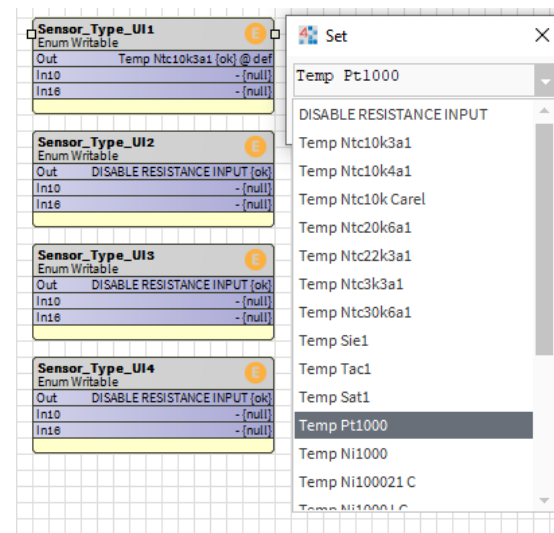
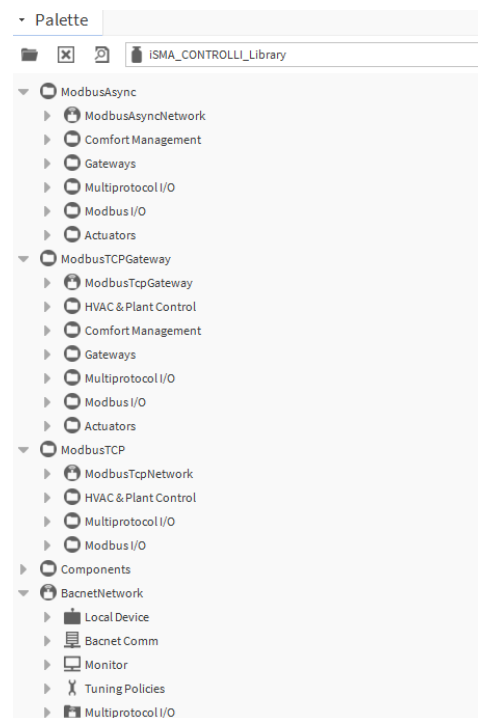
Faster installation
Easier to maintain
Less cabling

The same great features!





Facilitate the configuration and integration of iSMA CONTROLLI products in Niagara with a single, complementary Niagara module.



powered by
niagara
framework®

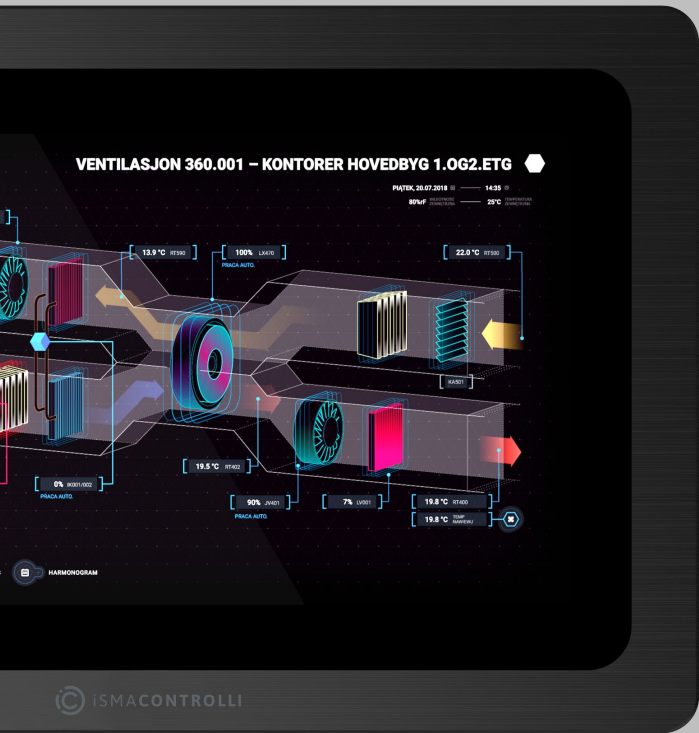
MAC36

Hybrid IoT Controllers

powered by
niagara
framework®



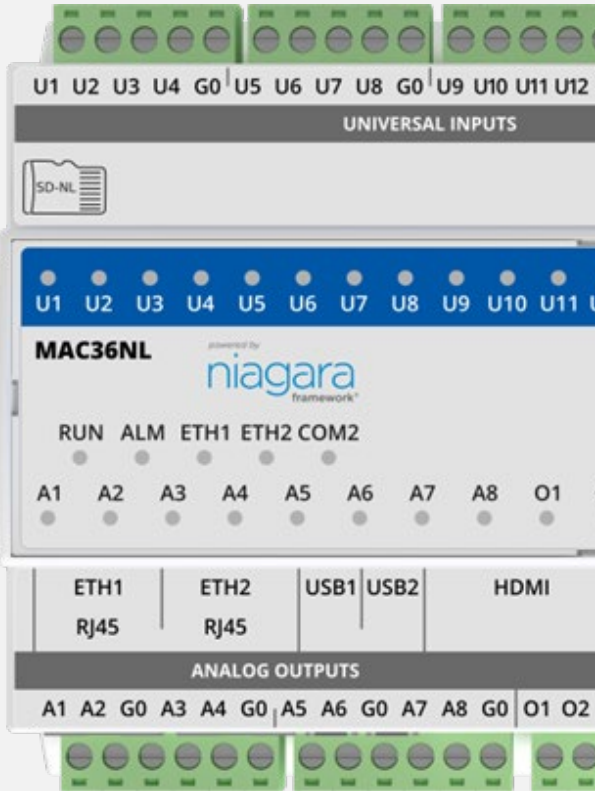
Award Winning Solution
MAC36NL as a mini-BMS platform



ControlTrends Awards 2020
The best product in the IoT Product of the Year category at the American ControlTrends Awards.

BCIA Awards 2021
The finalist in the Technical Innovation of the Year - Products category of the 2021 Building Controls Industry Association (BCIA) Awards.

AHR Expo Innovation Awards 2022
The best product of the Building Automation Category of the 2022 AHR Expo Innovation Awards.





MAC36NL

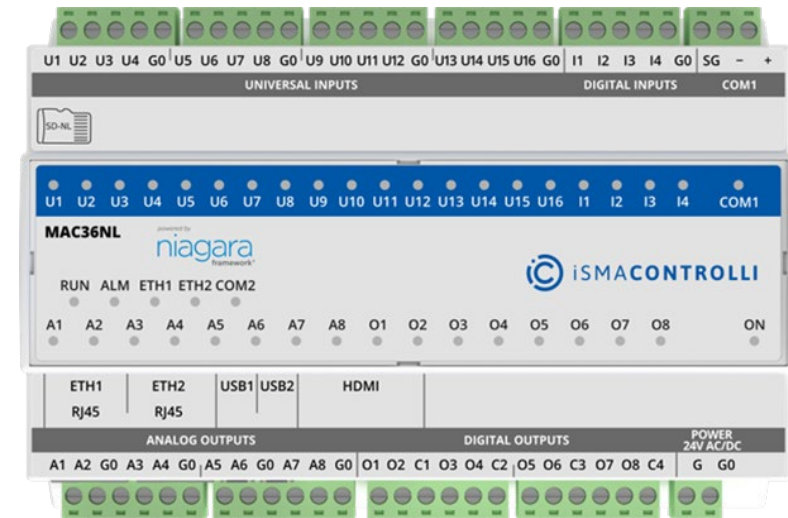
Continuous Update process

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.**

Coming soon N4.13!



powered by
niagara
framework®



HDMI

USB





MAC36PRO
Future of mini-BMS

Coming soon...

MAC36PRO

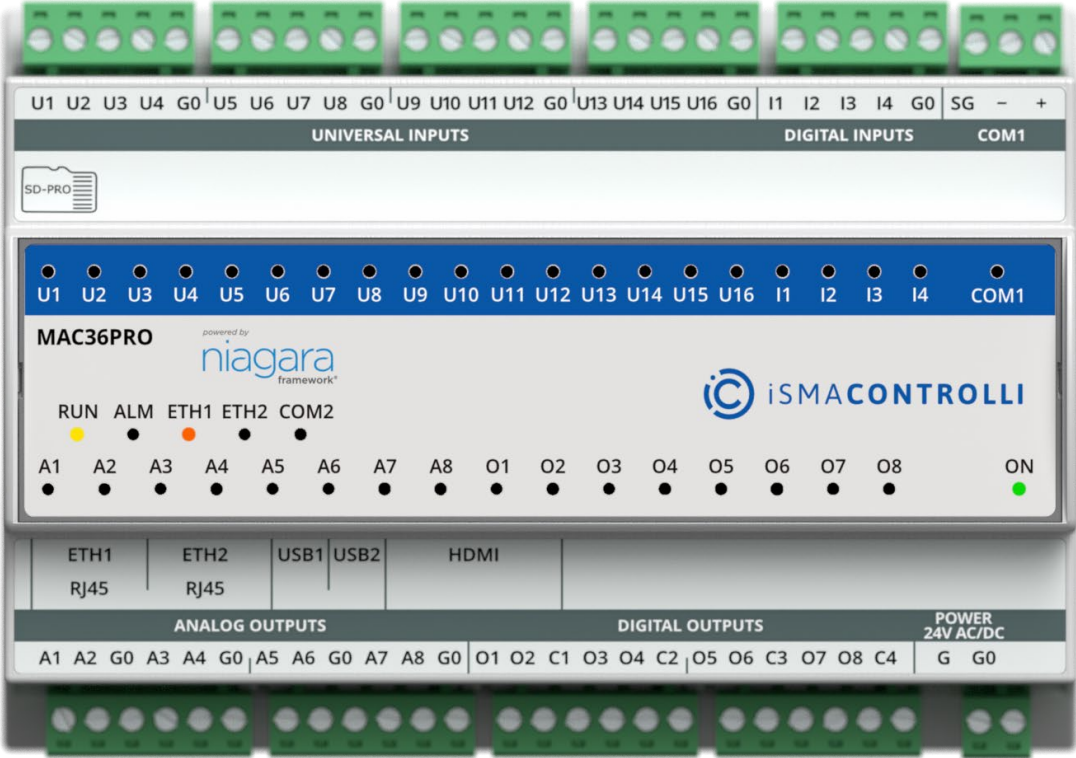
The fastest Hybrid IoT Controller powered by Niagara

Improved HDMI performance
Working with an HDMI screen as efficient as on a PC workstation.

Powerful Quad-core processor
Improved support of Niagara Framework’s latest functionalities.

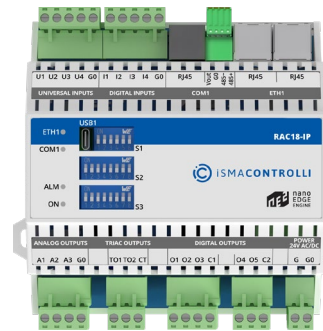
Increased memory and storage
More space and better efficiency during commissioning, programming, and end-use.

Be ready for the new Niagara features
Artificial Intelligence, Machine Learning, IoT Connectors, Web wiresheet 2.0.



High-end technology for embedded devices in the building.

The IoT-ready **nano EDGE ENGINE** provides unprecedented capabilities for a microcontroller-based device and takes them to the next level.



Smart Edge devices



Smart Field devices



Smart controllers

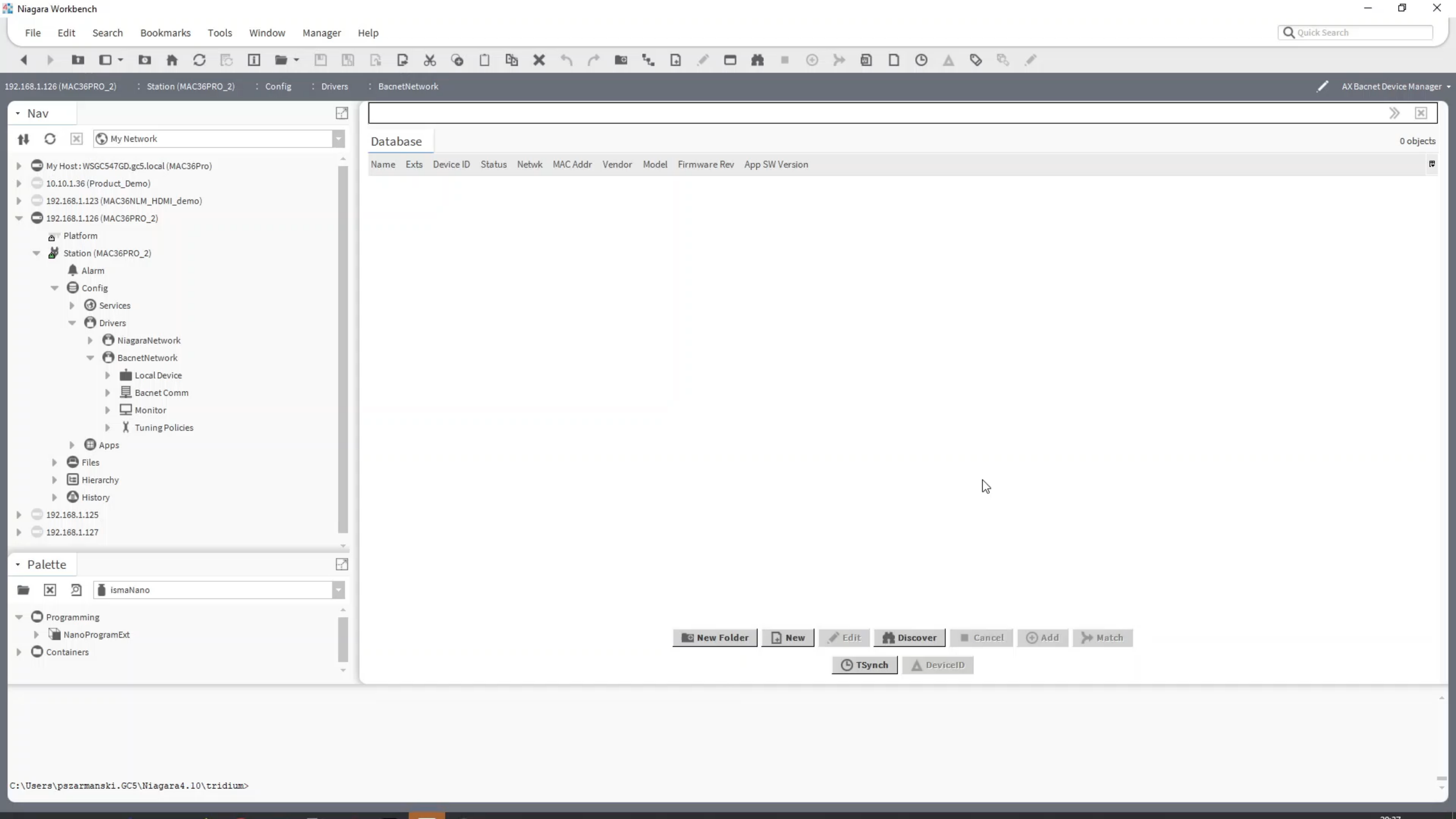
Experience real-time programming
of **nano EDGE ENGINE** devices
directly in **Niagara Framework**.

- Real-time programming using Workbench
- Plug'n'play experience
- Native support for all **nE²** components
- One tool for integration, programming and maintenance



enabled with

niagara⁴



Nav

- My Network
 - My Host: WSGC547GD.gc5.local (MAC36Pro)
 - 10.10.1.36 (Product_Demo)
 - 192.168.1.123 (MAC36NLM_HDMI_demo)
 - 192.168.1.126 (MAC36PRO_2)
 - Platform
 - Station (MAC36PRO_2)
 - Alarm
 - Config
 - Services
 - Drivers
 - NiagaraNetwork
 - BacnetNetwork
 - Local Device
 - Bacnet Comm
 - Monitor
 - Tuning Policies
 - Apps
 - Files
 - Hierarchy
 - History
 - 192.168.1.125
 - 192.168.1.127

Palette

- ismaNano
- Programming
 - NanoProgramExt
- Containers

Database

| Name | Exts | Device ID | Status | Netwk | MAC Addr | Vendor | Model | Firmware Rev | App SW Version |
|------|------|-----------|--------|-------|----------|--------|-------|--------------|----------------|
|------|------|-----------|--------|-------|----------|--------|-------|--------------|----------------|

New Folder New Edit Discover Cancel Add Match TSynch DeviceID

Innovative Community Solutions by iSMA **CONTROLLI**

Thank you
Pawel Szarmanski

iSMA CONTROLLI S.p.A.
pawel.szarmanski@ismacontrolli.com





CONNECTING
THE WORLD

NETIX.AI
THE SMART MOVE



YOUR IoT & AI SOLUTIONS PARTNER

Distribution

Products & Technology

System Integration/ Services

Exenture^{Global}

TEKNOWARE[®]

NETIX.AI
THE SMART MOVE

Global
ODS



WHO WE ARE

NETIX.AI is an **IoT & AI** based automation solution provider, leverages its innovative strategies, analytic algorithms and brand agnostic solutions to transform your facilities into safe and sustainable edifices.



INNOVATION AND SUSTAINABILITY

OUR SOLUTIONS

- IoT and AI Solutions for Buildings & Industrial
- Enterprise Solutions
 - iCCCC – SaaS based Command Control Center
 - Property Management Platform
 - Asset Management Platform
 - Energy Management Platform
 - Facility Management Platform
- Leading the BMS Transformation – Legacy System Upgrades
- Smart Cities - Connected Buildings & Remote management
- iIBMS – intelligent Integrated Building Management System
- Smart Meters, Smart Thermostats & Gateways
- NETIX.AI Sustainability Financed Solutions



NETIX – IoT & AI SOLUTIONS PROVIDER

Legacy System Upgradation



ESTEEMED BANK - 11 BUILDINGS
INTEGRATION

Enterprise Solutions



CITYWALK - 15 BUILDINGS INTEGRATION

Remote Connectivity



AL WASL - 93 BUILDINGS INTEGRATION OVER RF
NETWORK OVER 50 sqKm

Right To Repair



MAZAYA - 3 TOWERS INTEGRATION



Our Financed Models

*TRANSFORMING TODAY TO CREATE
A BETTER TOMMOROW*

At NETIX.AI, we aim at providing flexibility to meet the expectation of the customer. We offer a wide range of customized fully financed models by taking into consideration the potential savings of the facility.



POPULAR MODELS

➤ iIBMS as a Service - 3 Year Contract*

Under this model, NETIX.AI will finance the IoT, Automation and/or BMS Transformation solutions, offering the upgrades as an individual service for the facility. The customer will enter into a monthly fixed amount re-payment plan with NETIX.AI, for a contract duration of 3 years. The re-payment amount will be agreed by both parties and will include the cost of the solutions, commissioning and annual maintenance fees.

➤ iIBMS & Energy as a Service – 5 Year Contract*

In the scenario that higher savings can be achieved at the customer's facility through the implementation of other energy conservation measures, NETIX.AI will undertake the financing and commissioning of all the conservation measures, including the Netix IoT, Automation and/or BMS Transformation solutions. The re-payment amount will be agreed by both parties and will include the solutions, commissioning and annual maintenance fees of NETIX.AI Platform and other energy upgrades as suitable to the facility.

➤ BMS & Energy Upgrades on Shared savings model – 10 Year Contract*

This model includes the implementation of a full-fledged Energy Savings contract, based on the potential savings of the facility. NETIX.AI will undertake the complete financing of the project, both in terms of CAPEX and OPEX. NETIX.AI has in-house engineering strengths, enhanced by reliable manufacturers of various solutions. Re-payment of the upgrades will be made based on the performance of the project, with energy and other building OPEX savings to be split between both parties at pre-agreed ratios.

What is the **NIX** product?

A **connectivity platform** to simultaneously collect actual process, machine, and shop floor data from multiple sources, (pre-) process, store, and forward to multiple internal and external third-party applications and services.

-Enables **remote monitoring**, and quick decision-making and provides **data feed** to any **dashboarding** tools and **advanced analytics** applications.

Benefits



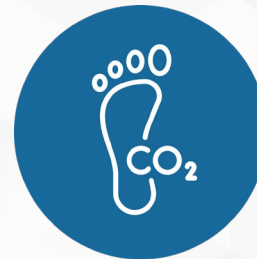
Realtime Energy
Monitoring and
Production visibility



Insight driven
Decision making



Improved line/machine
asset utilization



Reduction in
Carbon Footprint



Resilient and compliant
modern architecture to
support 24 x7 operations



Automation integrated
(PLC, IoT..)



The **NIX** platform offers the following abilities:

CREATE YOUR OWN DATA MODEL

NIX platform provides a framework for you to define your equipment, materials, processes, and the relationships between them

COLLECT YOUR PLANT FLOOR DATA

NIX connects to your equipment and existing industrial historians, collecting time series and event data from your plant floor using the configuration of the central data model.

INTEGRATE YOUR BUSINESS SYSTEMS

Your business uses more than just time series data. When you connect other data sources like your ERP and quality systems into your configuration, **NIX** “stitches” them together in the model removing inefficient data silos

BUILD OR DEPLOY YOUR USE CASE APPLICATIONS

“Headless” backend for manufacturing that provides all your data through one API.

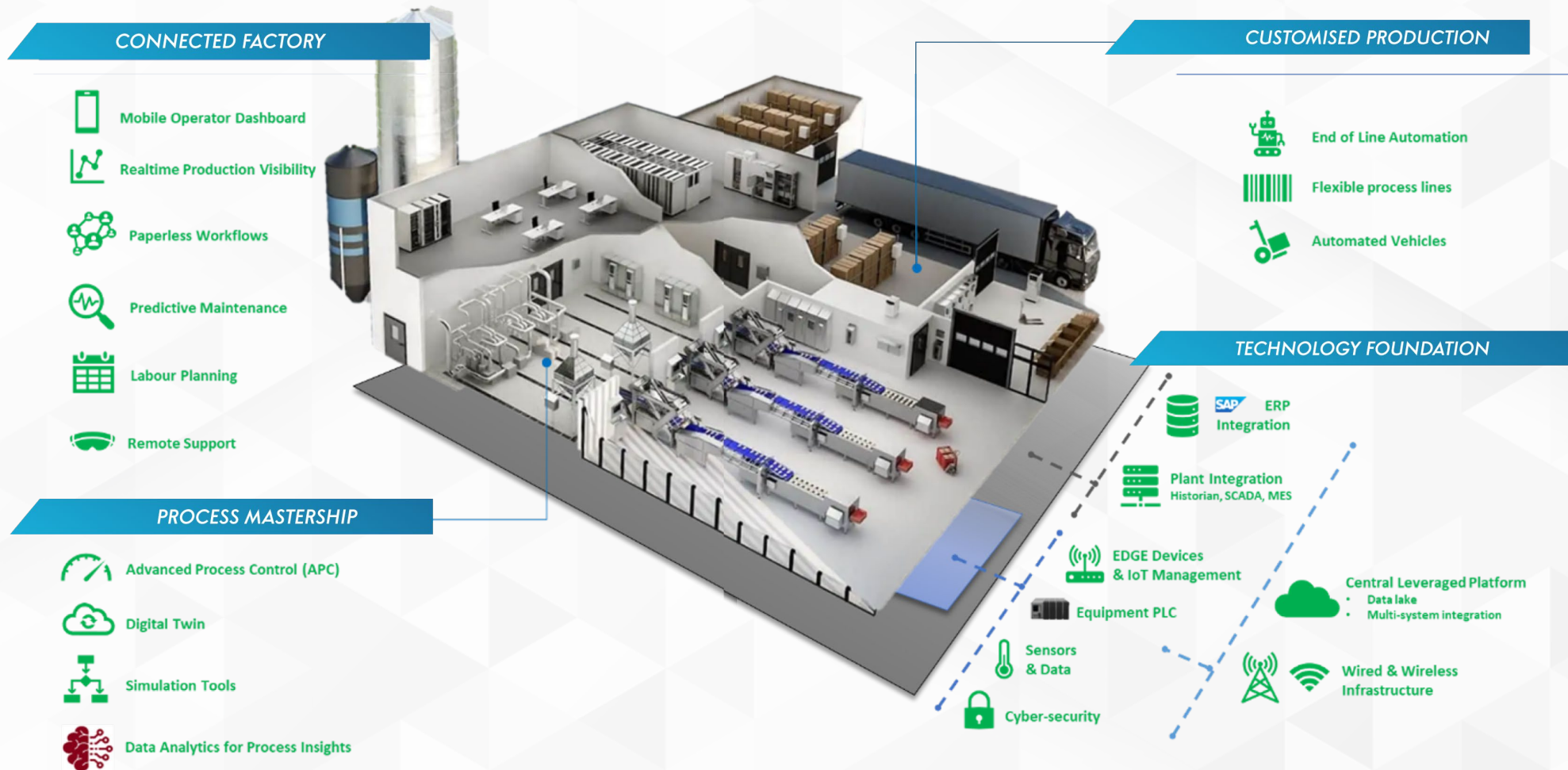
You can buy, customize pre-built applications, if they suit your business or build your own.

SCALE YOUR SYSTEM

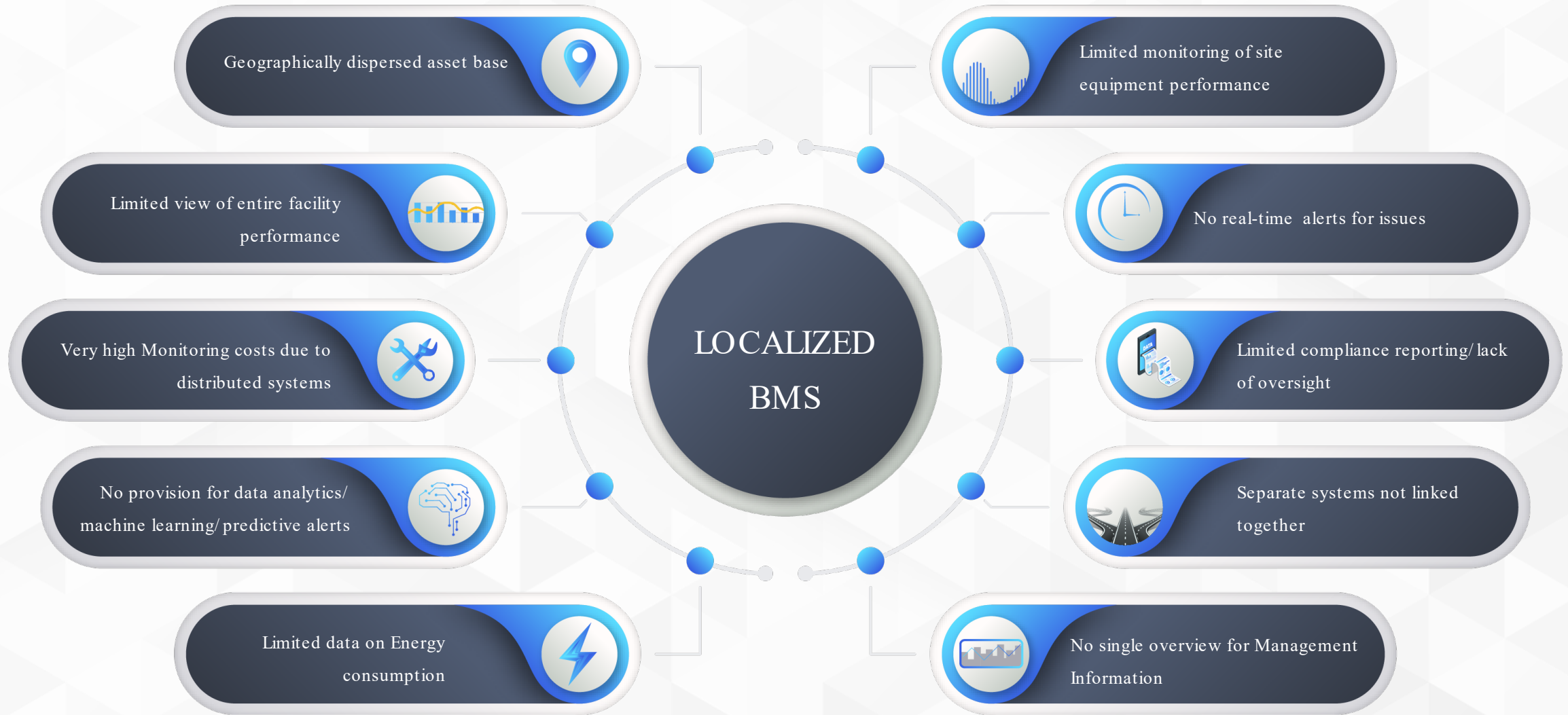
NIX is built to provide infinite horizontal scaling without adding servers and license costs



Digital Connected Factory



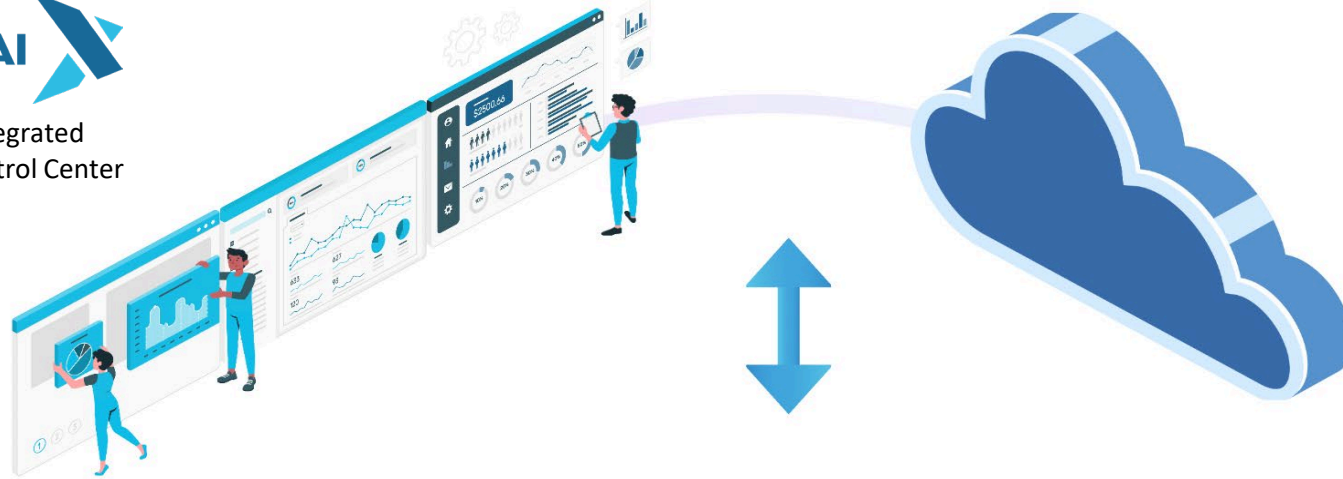
Challenges for Multiple Property Owners



NETIX.AI SOLUTION



Intelligent integrated
Command & Control Center

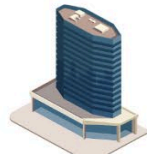


SaaS NETIX.AI Platform Hosted
on the Hybrid Cloud

Dedicated Client TCP/IP Network



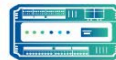
HONEYWELL



SIEMENS



JOHNSON
CONTROLS



SCHNEIDER
ELECTRIC



TREND



NETIX.AI
THE SMART MOVE



Machine Learning & AI

- > Automatic equipment analysis
- > Increases efficiency and reduces maintenance & energy costs

Predictive Maintenance

- > Creates Algorithms to initiate proactive maintenance
- > Generates Automatic Work orders based on events

KPI/Dashboards

- > Defined KPIs for Operational control
- > Provides report KPIs, Historical analysis & trends

Remote Alarm Management

- > Creates Algorithms to initiate proactive maintenance
- > Generates Automatic Work orders based on events

Operations & Control

- > Take over control of systems remotely to operate as per SME advice
- > Ability to change setpoints
 - > Maintenance histories
 - > Past potential problems
 - > MTBF / MTBR

NETIX.AI



Easy Access

- > Access to Community Management team anytime, anywhere
- > Easy and quick access to information for key decision making

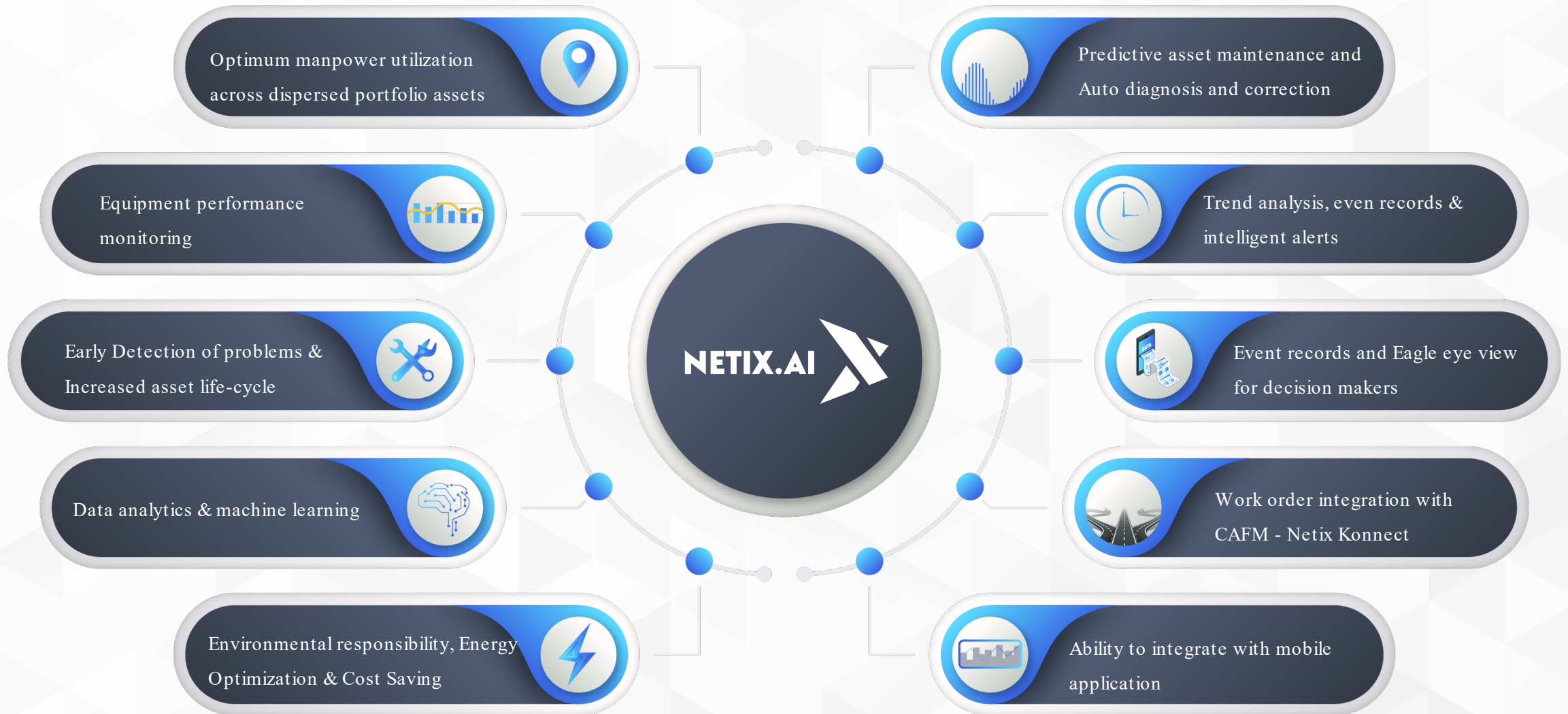
Future Provisions

- > Provision to connect all other building systems like Access control, CCTV, Fire Alarm etc.
- > Provision for predictive customer management

In-depth auto diagnosis

- > Identifies cause of alert
- > Identifying potential problems
 - > Identifying remedies
- > Sends full information to the CMMS system for technician reference

NETIX.AI Deliverables





Real-time Fault Detection and Diagnostics

Optimize your operations with fully automated, context-aware monitoring

Real-time Alarm Management

- AI & ML driven alarm correlation and real-time diagnosis
- Intelligent false alarm differentiation and root cause analysis

Intelligent Workflow Automation

- Extensive FDD + asset rule library for simple and complex conditions
- Smart workflow Engine to automate complex use cases
- Real-time condition/threshold based monitoring for improved asset life

Energy Performance Analytics & Reporting



Portfolio-wide centralized insights

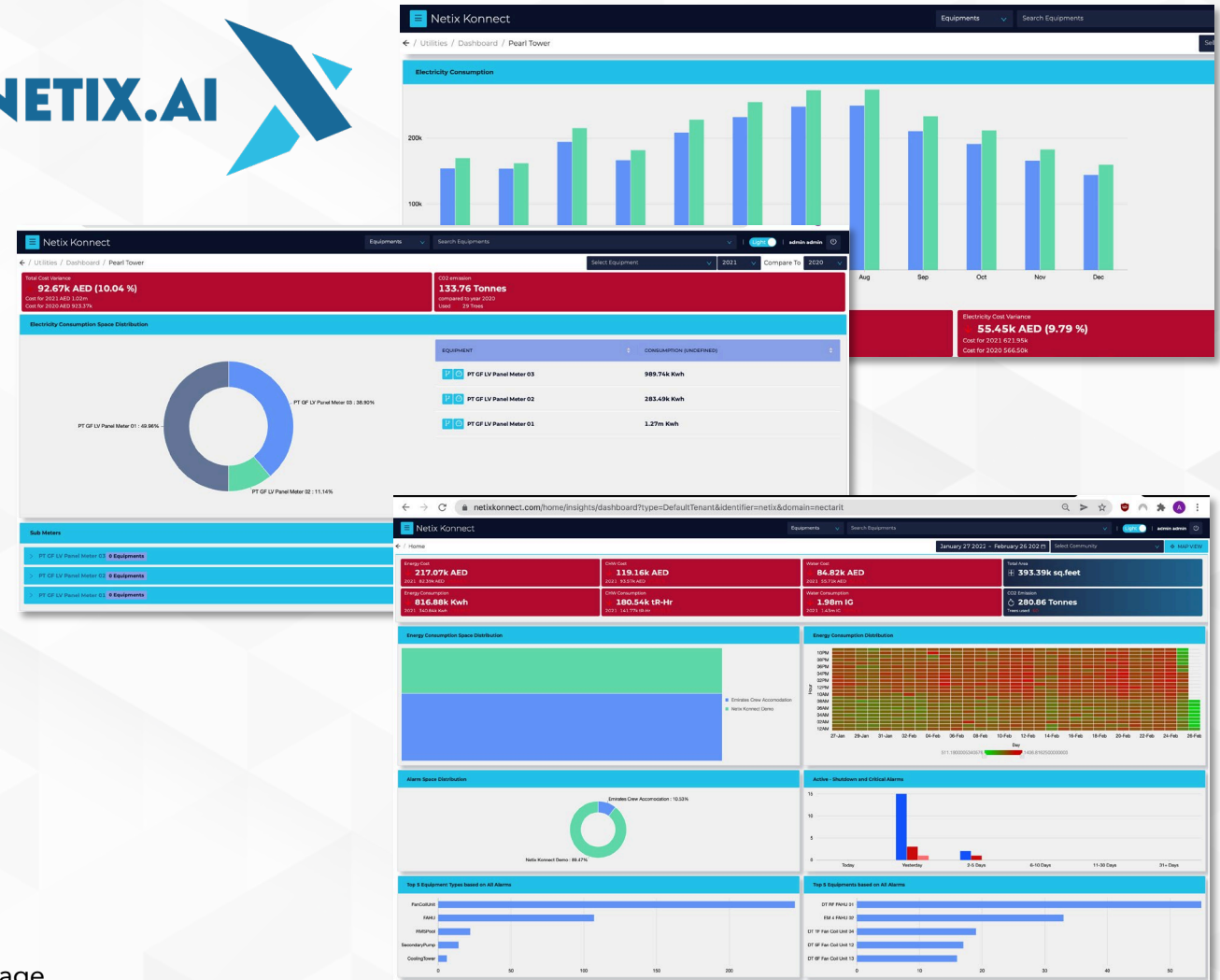
- Live metrics and insights on portfolio-wide centralized dashboards
- Baseline comparison to track ideal asset and energy performance across portfolio

Drill-down Performance

- Drill-down and peak energy analytics with consumption heatmaps
- EnPI based regression analysis and performance benchmarks

Fully customisable Dashboards and Reporting

- Intuitive UI to customise and create widgets or reports on your own
- User-defined text, image and readings based cards
- Role-based sharing of dashboards with operators and supervisors on same page



ACHIEVE

TRUE SUSTAINABILITY

WITH NETIX.AI

DRIVING ESG WITH NETIX.AI

ENVIRONMENT SOCIAL GOVERNANCE



40-50%

Reduction on
Building
Operational
Costs

10-15%

Reduction
on Building
Energy
Profiles

80%

Reduction on critical
breakdowns using
predictive condition
algorithms

30-40%

Enhancement of
manhour utilization
through fault
detection
diagnostics



Reduced manpower related OPEX



Reduced
Energy Costs



Reduced FM
costs



Optimised
Manpower



Detailed
Records



Monitored Equipment
Performance

The above statistics are site-specific and liable to vary.

NETIX.AI
THE SMART MOVE



SUCCESS STORIES



ODS Global, NETIX.AI Platinum Partner, is successfully managing the preventive maintenance of the BMS across multiple properties from EMAAR portfolio. Being a NETIX.AI Platinum Partner enabled ODS Global to be a vendor neutral service provider.

- ⇒ Optimized operations and enhanced the performance output of BMS & ETS across 30 plus Communities, 5 Master Communities serving 20,000 villas and close to 200 buildings. The platform currently hosts 40k assets & 400,000 data points managing optimization of assets and energy efficiency.
- ⇒ Maintaining 5 different brands of BMS with equal efficiency and approach, similar to the manufacturer's guidelines:
Honeywell | Siemens | Trend | Johnson Controls | Schneider
- ⇒ Managed and undertaken to upgrade systems with as little intrusion as possible, enabling a seamless transition at minimal cost.
- ⇒ Improved life cycle of the DDC controllers and field peripherals, helping in reducing downtimes of the BMS.



SUCCESS STORIES



When ODS Global started the project, as NETIX.AI Platinum Partner, multiple towers had their BMS systems offline. ODS has successfully managed to bring the systems back, online, with minimal cost impact to the client. This enabled DAMAC to save a considerable amount on the energy bills of these properties.

- Optimized operations and preventive maintenance for 30 buildings
Performed maintenance for 7 different brands of BMS, resulting in streamlined and centralized asset management.
- Honeywell | Alerton | Siemens | Sauter | Saia Burgess | Schneider | Centraline
- Improved the life cycle of fixed assets.



SUCCESS STORIES



ODS Global, NETIX.AI Platinum Partner, won the upgrade and maintenance of 3 Mazaya Towers' buildings, where the client saved 75% of their costs since they didn't have to replace the complete system, by upgrading to Netix Solutions instead.

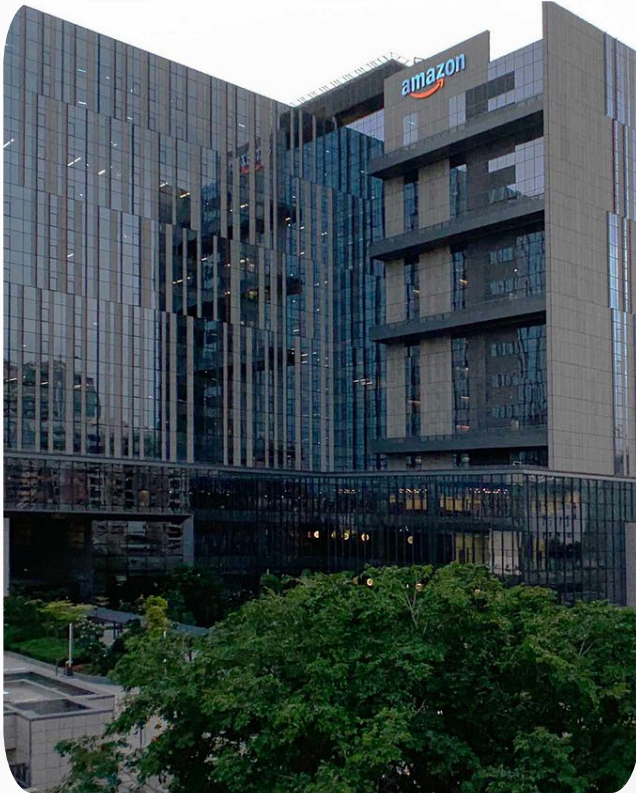
- » Integration of all the systems and assets of three towers onto the AI-powered intelligent integrated Command and Control Centre; maintenance of the same.
- » Achieved proactive, organized and systematic management of energy use in all three towers.
- » Transformed facilities into smart connected building system.



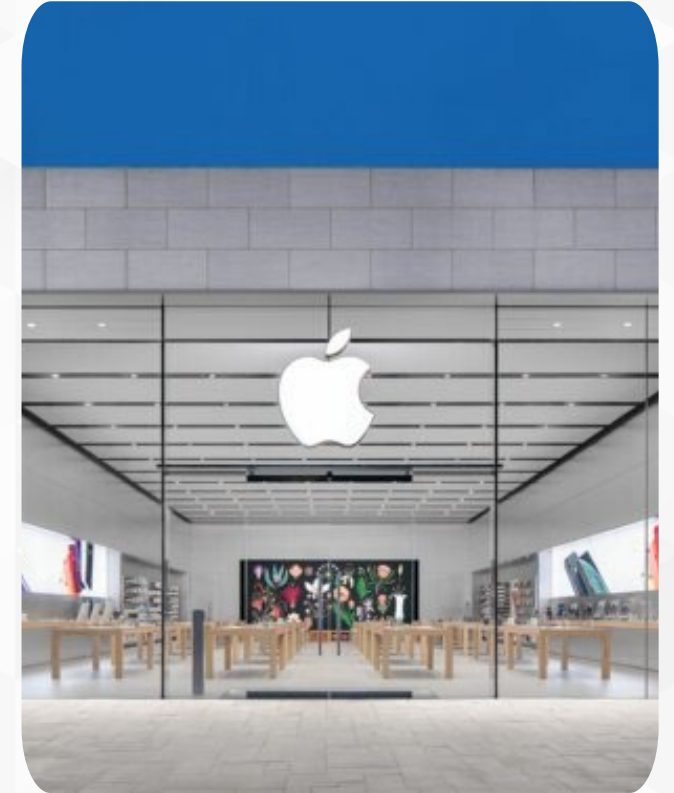
SUCCESS STORIES



SUCCESS STORIES



amazon.in



KEY REFERENCES UAE



First Abu Dhabi Bank, Abu Dhabi,
UAE



Mazaya Business Avenue, Dubai,
UAE



City Walk, Dubai,
UAE



Al Jaddaf Residence, Dubai,
UAE



Tadawul Tower, Riyadh,
KSA



Emirates Airlines Staff Accommodation, Dubai, UAE



DWC Headquarter Building, Dubai,
UAE



Masdar City, Abu Dhabi,
UAE



Darwish Tower, Doha,
Qatar



Mirdif City Centre, Dubai,
UAE



93 Al Wasl buildings, Dubai,
UAE



Etisalat Digital 77 buildings, Dubai,
UAE



OUR CLIENTS

citibank

Google

||| MERAAS

JLL

تداول
Tadawul



Schindler



DAMAC

CBRE

MAERSK
LINE

كتارا
katara

HDFC BANK

amazon

||| MERAAS

تداول
Tadawul



Standard
Chartered



Masdar
A MUBADALA COMPANY

Deutsche Bank



ascendas



اتصالات
etisalat

مترو دبي
Dubai metro



STC

NETIX.AI
THE SMART MOVE



NETIX.AI
THE SMART MOVE



The Netherlands - HQ

Beechavenue 115, 1119RB, Schiphol-Rijk,
Tel: +31 6 85436139

Canada

46 Annual Circle, L6X 2M2
Brampton, Ontario
Tel: +1 514 582 9868

Dubai

Suite No. 404-410, Diamond Business Center,
Block A, Arjan, South Barsha
Tel: +971 4 580 2129

Abu Dhabi

Office No. 703, Silverwave Tower
P.O. Box: 37072, Mina Road
Tel : +971 2886 4748

India

Office Unit No.411, V Times Square, Sector 15
CBD Belapur, Navi Mumbai,
Tel: +91 22 4968 7447



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