

WEBGARAGE.

The next-generation BEMS platform.



From building automation to building intelligence.



INTEGRATE

Open protocols



CONTROL

Advanced logic



ANALYSE

Valuable data



SCALE

From 1 to "N" sites

Based on the **FIN Framework** by J2 Innovations – native Haystack 4.0


webgarage

COSTER

THE CONTEXT

Buildings have become data platforms.

And traditional systems are no longer sufficient.

The European **Green Deal**, the **EPBD** Directive, **ESG** targets and pressure on energy costs are redefining the value of properties.

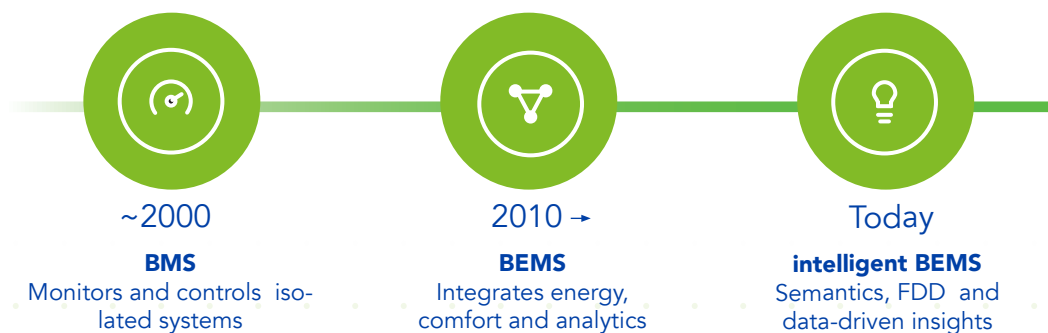
It is no longer enough simply to control a system: today, it is necessary to collect data, contextualise it and transform it into concrete operational decisions.

Old BMS systems were designed to monitor and control.
Today's buildings must adapt, **optimise and support business strategy**.
We need tools that are up to the task.

THE PARADIGM SHIFT

Isolated systems	➔	Integrated digital ecosystems
Scattered data	➔	Structured, queryable ontologies – AI-ready
Reactive maintenance	➔	FDD and predictive analytics
Invisible consumption	➔	Measurable KPIs for every stakeholder
Complicated access	➔	Secure remote access, zero IT overhead

THE EVOLUTION OF BUILDING CONTROL



● Green Deal EU

● EPBD Directive

● ESG objectives

● CRREM

THE PLATFORM

The next-generation BEMS platform.

Monitoring, control, analysis and optimisation within **a single, modern architecture.**

This is **Coster Group's** advanced BEMS platform, based on J2 Innovations' **FIN Framework** — the only building automation architecture entirely based on Haystack 4.0 semantic tagging. Every data point is natively contextualised, interoperable and ready for advanced analytics, without the need for manual data mapping.

CORE FEATURES



Fully web-based monitoring

Accessible from any browser, without the need for a client installation



Dynamic scheduling

Centralised calendars with multi-site mass propagation



Energy monitoring & KPI

Time series, trends, period-on-period comparisons



FDD — predictive maintenance

Fault Detection & Diagnostics integrated into the platform



Smart Alarms

Event management, escalation, multi-channel notifications



Customisable dashboards

Technical, energy and managerial views based on the same database



OPEN PROTOCOLS

● BACnet

● Modbus

● KNX

● MQTT

● OPC-UA

FLEXIBLE INSTALLATION

● Linux controller

● Win / Linux / mac OS server

● Cloud

ONE DATABASE, MANY STAKEHOLDERS

The same data. Different views. Better decisions.

Haystack 4.0 and the semantic data model eliminate **information silos**.

A SINGLE HAYSTACK 4.0 SEMANTIC DATABASE SIX ROLE-BASED VIEWS, NO DUPLICATION.



Maintenance Engineer

Prioritised alarms, fault history, FDD for individual equipment



Facility Manager

Comfort by zone, scheduling, centralised multi-building supervision



Property Manager/ CFO

Asset value, CRREM compliance, automated ESG reporting



Energy Manager

Energy KPIs, benchmarking against previous periods, EPBD-ready reports



Multi-site Manager

Aggregated view of all sites, performance comparisons, single-point drill-down



System Integrator

Rapid commissioning with a wizard, AI-assisted tagging (–80% time), open APIs

UNCOMPROMISING CUSTOMISATION

Customisable control logic

White-label graphics

Role-based dashboards

Open REST and Haystack APIs for third-party integrations

THE ARCHITECTURE – FROM THE SENSOR TO THE WALLET

From the very first sensor to thousands of buildings.

A single platform, **three levels of operational maturity.**

WebGarage is a flexible solution, a scalable architecture that grows with your organisation.

Start with monitoring alone, add control and logic when you're ready, and scale up to a multi-site portfolio with aggregated views and granular detail.

LEVEL 1 - MONITOR & IDENTIFY

Connect existing systems via edge devices. Collect data, identify anomalies and consumption patterns. No hardware replacement required — compatible with legacy systems.

LEVEL 2 - CONTROL & OPTIMISE

Add Coster actuators and controllers (Y Series, ZBC). Enable control logic, advanced scheduling and energy optimisation. The same platform — more power.

LEVEL 3 - MULTISITE & AGGREGATE

Connect all sites via **Edge2Cloud**. Aggregated view with the ability to drill down to individual points. Benchmarking across sites, centralised reporting, decisions based on real data.

Monitoring



LEVEL 1

Building Automation



LEVEL 2

BEMS Webgarage



LEVEL 3

THE ECOSYSTEM – HARDWARE AND SOFTWARE WORKING IN HARMONY.

Webgarage at the center. Coster ecosystem all around.

Hardware, firmware and software designed to work together — **right from day one.**

Coster Group is an European manufacturer with a complete, integrated supply chain: from micro-actuators to programmable controllers, from commissioning tools to the BEMS platform.

Every component communicates natively with WebGarage.

THE COMPLETE COSTER SUPPLY CHAIN



X Series

Residential & commercial.
Plug & play. 40,000+ installations per year.



Edge Computing

IP edge computing with network segregation and embedded WebGarage.



Y Series

Multi-site & medium-sized HVAC.
The benchmark for multi-site systems.



I/O Modules

I/O expansion, LoRa sensors and actuators, meters, sensors. Modular architecture.



Z Series

Advanced BACnet.
CosterDiagram or CosterCAD.
No limits.



WebGarage

The BEMS that orchestrates the entire Coster ecosystem. No limits.

● Coster CAD

● Y / Z Series

● Webgarage

● Cloud

COSTERCAD + COSTERTOOLS SUITE = SMART COMMISSIONING

Visually design HVAC logic – no lines of code required. Validate in real time, generate technical documentation, and deploy to controllers. Result: commissioning up to 30% faster and zero configuration errors.

SECURITY – SECURE BY DESIGN

Connected to the world. Secure by nature.

Uncompromising OT/IT security

Connected buildings are targets for cyber-attacks. WebGarage is designed with security as an **architectural principle**, not as an add-on: every layer of the stack, from the edge to the cloud, implements enterprise-grade standards.



Software Secure by Design

Hardened architecture, signed updates, no open ports by default.



Edge2Cloud Secure Tunneling

Certificate-based outbound connection. No public IPs, no VPNs, no IT. Up and running in minutes.



Secure user access

Granular role-based access control. Each user sees only what they are authorised to see, even across multiple sites.



OT/IT Network Segregation

The edge physically separates the plant network from the corporate network — zero cross-contamination.



Enterprise MFA + SSO

Multi-Factor Authentication and Single Sign-On with Active Directory, SAML and OAuth2. One identity for all sites.



Multi-site inter-instance tunnels

Instances from different sites communicate via secure, authenticated tunnels — without dedicated networks.

END-TO-END SECURITY CHAIN



Building · OT
Plant network



Edge · Tunnel
Outbound TLS



Cloud + Users
MFA · SSO · RBAC

No public IP · no VPN · no IT involvement

GET STARTED TODAY

Build the smart buildings of tomorrow.

For over 50 years, Coster Group has been developing building control technologies. Today, with **WebGarage** and the **FIN Framework**, it brings this expertise into the data age — offering the most comprehensive, scalable and secure platform on the European BEMS market.



40K+

active installations



30%

reduced engineering
lead times



50+

years of experience



100%

open protocol

APPLICATIONS

Corporate

Retail

Hospitality

Education

Healthcare

Industry

Public Sector


webgarage

COSTER

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