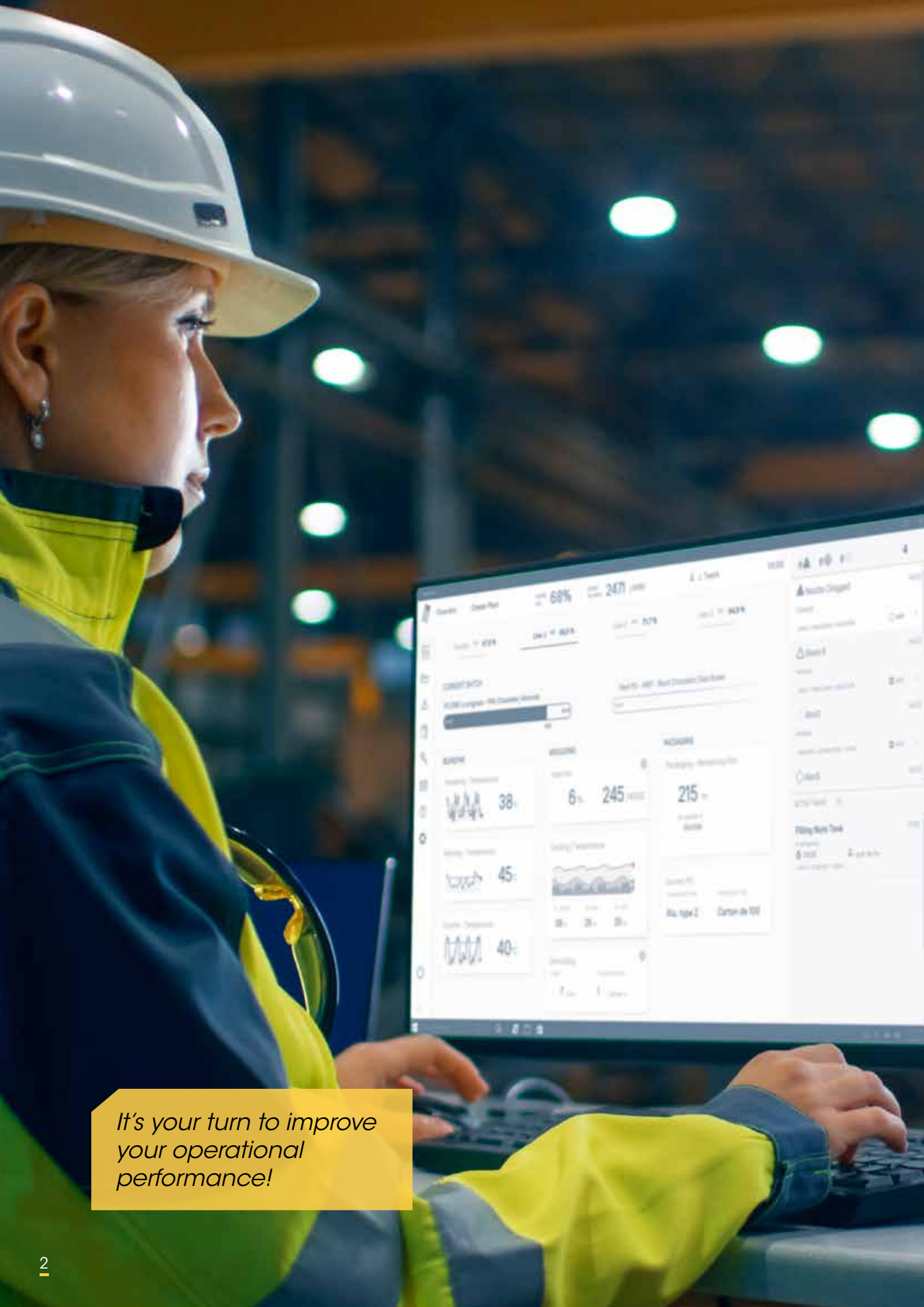


## Manage your installations

Use a real-time data platform built to meet your needs

Hypervision / SCADA





*It's your turn to improve your operational performance!*

## Increase your competitiveness with a proven SCADA solution

Acclaimed for its rich array of functional capabilities, robustness and scalability, **Panorama E2** is ideal for creating customized **Hypervisory/SCADA applications**. This real-time data platform has proven its worth in the development of a large number of industry applications. These range from the management of conventional installations to the running of complex industrial and scientific facilities that require very high levels of safety and security.

Today, more than 60,000 Panorama licenses are in use worldwide.

## Optimize your operating costs

### A robust and scalable SCADA platform

Acting as the backbone of your technical information system, Panorama E2 allows you to collect and process your operational data to ensure you optimize the **operation** and **management** of your **installations**.

From the very beginning, Codra has engaged on a daily basis with its customers and partners. Our philosophy is to develop software that meets the requirements of the highest level. We are constantly working to improve our products in order to **support our customers over the long term and build relationships based on trust**.

By choosing Panorama E2, you are making the choice of **quality** and **durability**.

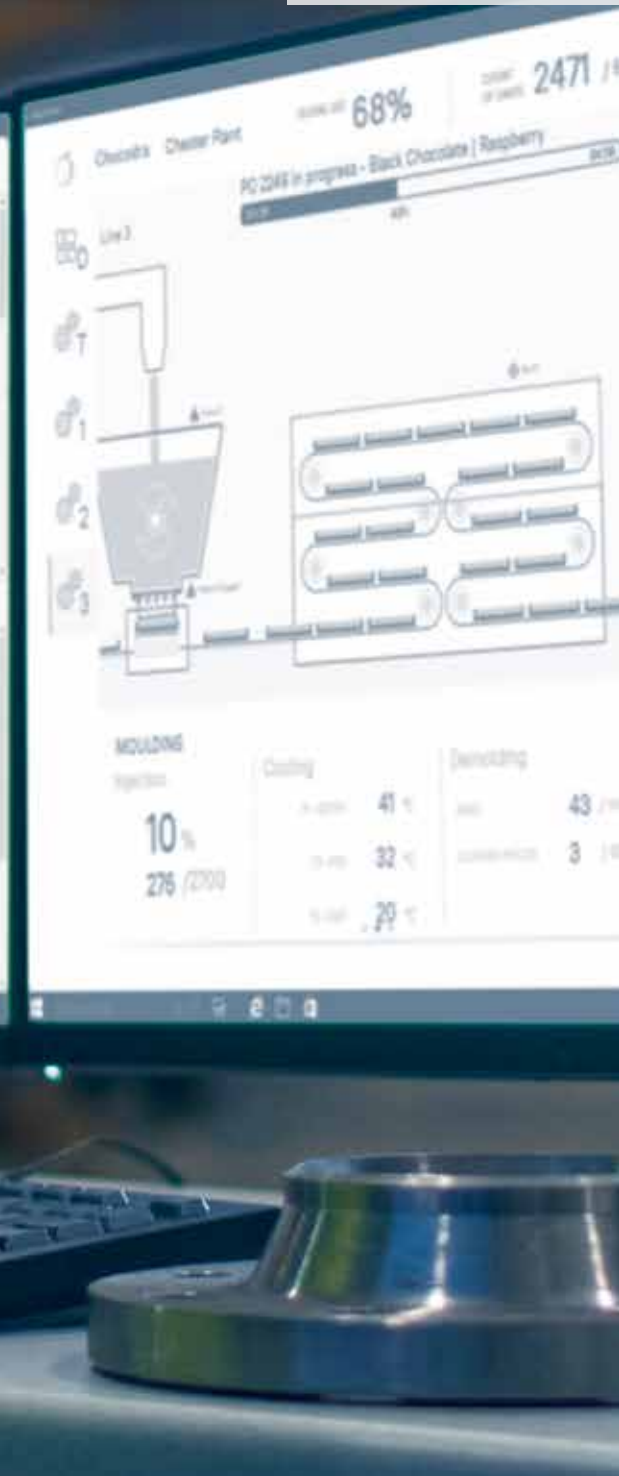
### Our R&D teams work according to 2 guiding principles

#### Support innovations

of our customers by developing new functionalities that allow them to create applications in line with their operational requirements.

#### Guarantee the forward compatibility

of our products in order to safeguard your investments without restricting your creativity.





### ■ BMS & FM

Tertiary, industrial buildings, hospitals, sports complexes, data centers, energy monitoring, BMS/FM/BEMS



### ■ ENERGY

Production, transmission, distribution, oil & gas, electricity, renewables



### ■ TRANSPORTATION

Trains, trams, metro, waterways, motorways, tunnels, ports & airports



### ■ INDUSTRY

Aerospace, materials, chemicals, food processing, pharmaceuticals



### ■ NUCLEAR

Production, storage, environmental monitoring, reprocessing



### ■ DEFENSE AND RESEARCH

Naval, infrastructure, test beds, closed environments, health, laser control



### ■ WATER

Drinking water, wastewater, water treatment and flood management





## SCADA applications that adapt to your needs

Whether your applications are simple or complex, whether you have a hundred variables to manage or several million I/Os, Panorama E2 will adapt to each requirement. Because the software is designed to be **fully configurable**, you control the design of your applications **from start to finish**.

Addressing your needs from production control and monitoring, to facilities or building management (FM/BMS), infrastructure management or installation security, **whatever your sector of activity**, Panorama E2 is the multidisciplinary solution designed to meet your SCADA requirements.

*Secure your production  
assets and boost your  
productivity*

**Panorama E2** is aimed at  
all application sectors

# Interoperability and cybersecurity: two sides of the same coin

## Open up your systems

System interoperability has become a major challenge when trying to improve the productivity and quality of products and services.

### Open to third party systems

Panorama E2 interfaces **easily** with **third-party** solutions and unifies your information systems. With MES, ERP, GIS, CCT, CMMS, etc., there are a host of IT solutions offering functions that are complementary to those of a SCADA system. You can create and implement Panorama E2 plugins (User Classes) and **converge these information flows** to form an **integrated** control and management system..



### Hardware agnostic

This open principle equally applies to the automation equipment continuously at work throughout your plant and infrastructure. To give you maximum flexibility in your hardware decisions, Panorama E2 is **independent of hardware manufacturers** and is completely hardware agnostic. This means that any **PLC, RTU** or even **IoT-connected objects** will communicate natively with your SCADA application using standard protocols.

## Panorama Suite

We want to take you further in harnessing the value of your operational data. Panorama E2 is an integral part of a software suite including a **Data Historian** solution: Panorama H2, and a **Communication Front End**: Panorama COM. Panorama Suite therefore offers you an end to end solution covering data acquisition, equipment management and plant optimization.



*A solution backed by state-level certification*

## Secure your installations

As a key challenge for the 21<sup>st</sup> century, **cybersecurity** is central to Codra's **product strategy**. Thus, the French National **Cybersecurity Agency** (ANSSI) **awarded** the company with the **Qualification** for the SCADA part of its Panorama software platform. This process enabled Panorama E2 to obtain First-Level Security Certification (CSPN). These results are a guarantee of **product's robustness**, but also of manufacturer's **competence** and **commitment**.

Henceforth, with Panorama E2, right from the design stage, a range of SCADA-related cybersecurity functions are at your fingertips, to easily and effectively integrate into your cyber strategy. Protect your most critical management systems using native mechanisms: **confidentiality** (encryption), **integrity** control and event **traceability**.

Codra has also set up a **CSIRT** to provide a dedicated, rapid and appropriate response to cybersecurity issues.

# Applications designed for the front line

Whether you are an operator, supervisor or manager, you can adapt your SCADA control and management to your business and your processes.

Based on an object model, you are free to design and implement your applications to :

- Reduce your design costs,
- Simplify and speed up your developments,
- Drive down your operating costs,
- Facilitate the creation of scalable applications,
- Maintain your systems operation.

Freedom to create all or part of

## + Expand

your component library and instantiate its objects when building your applications.

## + Structure

your application according to the geographical or functional arrangement of your installation, and build it according to your operational constraints.

## Features



### IHM Desktop/Web

- Mimic layouts
- Animated graphic symbols
- Geo-SCADA



### Acquisition

- Real time
- Non-real time
- Time stamping at source



### Edge computing

- Local SCADA systems
- Centralised Hypervision
- Remote management



### Deployments

- Standalone
- Client/server
- Private cloud



### Remote Control

- Remote access
- Intranet/Extranet
- Asset management tool



### Telemetry

- Remote sites
- Alerts
- On-call function



### Alarms

- Event management
- Data history
- On-stream logs



### Object oriented technology

- Model, reuse, instantiation
- Fast implementation
- Upscalable applications



and reuse  
your developments

### + Design

your own HMI's with ease using the powerful, responsive design engine.

### + Create

generic object templates (pumps, valves, ventilation systems, etc.) and configure your own specific business components.

## Panorama Studio

Simplify life for your technical teams. Provide them with a single configuration workshop to create and update all your Panorama applications.



#### Mobility

- KPIs
- Mimics
- Remote control
- Alarms / On-call features



#### Diagnostics

- Application control
- Trends
- Archive Player



#### Automate

- Calculations
- Automatic generation
- Auto document



#### User profiles

- Active Directory
- Access rights
- Business profiles



#### Hypervision / Security

- Embedded video / audio
- Access control
- Intrusion detection



#### Critical applications

- Redundancy / resilience
- Application distribution
- Simulation



#### Agile architectures

- Distributable
- Scalable
- Edge computing



#### Cybersecurity

- Authenticity
- Integrity
- Confidentiality

# Empowering you to create innovative applications

## Panorama E2, the cornerstone of OT/IT convergence

Digital Transformation, Industry 4.0, BIM for operation, Digital Twins, all these approaches have one thing in common: the convergence between field-oriented systems (OT) and information from higher-level data processing systems (IT).

As a genuinely hardware-agnostic real-time data platform open to third-party systems, **Panorama E2** is positioned as a pivotal tool for OT/IT convergence.



Transform your traditional SCADA application into the **backbone of your information system**.

This will open the way to a whole new scope of optimizations: energy savings, cost reduction, new services that can be harnessed across the value chain, etc.



## Take up the IoT challenge

**IoT** means you can now ramp up your data acquisition capacity at a lower cost. **Converge** this new information flow with your real-time data in a single management application. Plus, you won't need a third-party platform to implement your **IoT project**.



Digitize and deploy your sensors, collect their data and manage it all in a single solution: **Panorama E2**. Your system will support the native integration of **LoraWan** networks, **Sigfox**, the **MQTT** protocol, etc., to name just a few examples.

## Web HMI or Mobile App, innovation at hand

As an effective complement to your traditional SCADA system, the **Web HMI** and the **mobile application** offers a brand new **user experience** in the SCADA world. Whether your role is as an operator, team leader or production manager, you can access all the relevant information you need at any time, in the field. Visualization, real-time control, KPI monitoring, and so on... Harness all the benefits of this "thin client" and the feature-rich technology that is built into your mobile devices (GPS, photo, QRcode, etc.).

**True innovations within easy reach.**



*By using Panorama E2,  
you lower your total cost  
of ownership!*



## HMI designed to enhance the user experience

Crafting simple and effective HMIs is an essential step in the development of any high-performance **management system**. With Panorama E2, you deliver value for your operators by tailoring the front end interface to their activities and profiles.

- Create HMIs that your users can relate to by combining **ergonomics** and **user experience**: mimics, alarms, notifications, on-call features, trends, performance monitoring, KPIs, etc.
- Design efficient and effective SCADA applications thanks to a graphics engine supporting custom **UX/UI design**.

## Is your architecture evolving?

As a **standalone, distributed, Edge** or **Private Cloud** application, Panorama E2 offers great deployment flexibility. Choose the option that best suits your needs.

**Load balancing, server redundancy, Edge Computing, centralised Hypervision**, whatever your choice of architecture, it can be resized at any time without compromising the initial design of your Panorama application.

Panorama E2 is a solution that can be implemented in a wide range of contexts. Whether as a local application in standalone mode, for managing geographically dispersed sites or for controlling multiple complex installations with high availability constraints, Panorama E2 adapts to each operational requirements.

Our experts, trainers and support teams are here to support you throughout your project to enable you to harness the full power of Panorama E2.

## Why choose a Panorama Maintenance Contract?

### Improvements and new features

Through a Panorama Maintenance Contract (Extended Support and Software Warranty or CMP), you benefit upon their release from the latest developments, innovations and hot-fixes. Benefits include the latest new features, all natively open to third-party systems, as well as implementation of new communication protocols and support for new standards, etc.

### Security can't wait

Computer technologies are evolving, hardware is changing, vulnerabilities are emerging all the time. Cybersecurity is a strategic issue not only for operators of Critical National Infrastructures but also for all companies involved with preserving their operational and production assets. Our close collaboration with ANSSI and key centers of expertise means we are committed to being at the frontline in terms of vigilance in this area. By subscribing to a Panorama Maintenance Contract you will benefit from each and every security update for our software.

### High-tech and state-of-the-art

In addition to unlimited access to technical support, the Panorama Maintenance Contract is an ideal way to support your hardware and software upgrades. By subscribing to the extended support and warranty, you will be assured of staying at the forefront of key new developments. The very best way to maintain a high level of system availability and safeguard against obsolescence.

To contact support:  
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**« When you deal with Codra,  
you deal with the manufacturer »**

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