Panorama E² V7

INDUSTRIAL SCADA PLATFORM
Optimize your performances
Panorama E² is a real-time SCADA solution that easily adapts to the needs of many customers. This software framework addresses all areas of business and in particular the following project types:

- Production management and monitoring,
- Building management,
- Infrastructure supervision,
- Site security.

Its open platform can be used to interface with third-part systems (GIS, video surveillance, etc.) simply. Its historical openness is closely linked to our continuous approach to cybersecurity, thus providing the strongest possible application integrity.
Multi-Industry Solution

The Panorama E² platform has a proven track record on simple, conventional facilities as well as on managing industrial and scientific facilities with very high-security and complex requirements.

With more than 30 years’ experience, Codra has developed a SCADA solution that caters for the specific requirements of different industries (Chemical, Pharmaceuticals, Petrochemicals, Food-processing, Oil and Gas, Energy, Water and Environment), and which also meets the demands of infrastructure operators (Buildings and Transport).

Panorama E² is at the heart of many varied applications. It exchanges data with all the other applications that operate in your business (Maintenance, ERP, etc.).
For more than 30 years, Codra has developed complete industrial SCADA platforms.

Its flagship solution, Panorama E², provides host infrastructure and common services on a single scalable platform to form the bedrock of an industrial information system that incorporates all the basic services for data collection, processing and distribution within an enterprise, such as:

- Modelling
- Connection
- Execution
- Historization
- Visualization
- Analysis and optimization
- Redundancy/Load distribution

Panorama E² is built entirely on object-oriented concepts and offers many features as standard, plus it will readily take on board your own user developments.

Panorama E² Features

Object-oriented

Object programming is central to the Panorama design. Plant equipment (comprising: graphics, functions and operator interactions, pre-configuration, etc.) are modelled - from simple to the most complex. Once a component library has been created, the copy and instantiation functions allow you to:

- Create and re-use graphic and functional components,
- Simplify and accelerate application development to reduce development costs,
- Simplify in-service application maintenance and reduce runtime costs.

Modular, scalable architecture

Panorama E² works with single workstation applications and with more complex applications - multi-workstations that are geographically dispersed or present acute availability issues. Distributed and central applications are developed in exactly the same way. Load distribution, server redundancy, etc., whichever architecture you choose, Panorama E² guarantees a very high application performance and lets you change your architecture at any time without compromising your initial developments.

OPC UA certification

Codra Panorama E² was one of the first SCADA solutions (HMI/SCADA) to attain OPC-UA Client and Server certification from the OPC Foundation.

OPC UA is both a powerful and secure interface, and is a communication protocol devised to share real-time data, history and event logs between systems and applications. The OPC Foundation certification laboratory applies a comprehensive set of tests to verify that each product meets the strictest specifications. These tests are benchmarked against the best implementation and interoperability practices.

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Technology support

Panorama E² keeps pace with Microsoft’s “Current Branch for Business”, .NET platform and other developments.

The latest technology developments are regularly integrated to ensure your installations benefit from enhanced stability, security and performance.

Codra’s Microsoft GOLD Partner certification guarantees users fast-track responsiveness to system infrastructure changes.

Panorama E² Features

- Application confidentiality
- Integrity control
- Authentication
- Traceability
- Integrated security
- Reporting
- Reviews
- KPI
- OEE
- Virtual machine
- Centralised maintenance
- Back Office / Data Centre environments
- Calculations
- Scripts
- Automatic generation
- Import-Export
- Techno Ready
- Microsoft
- IP v6
- Online modification
- Application control
- Trends
- User management
- Active Directory
- Access rights
- Planning
- Redundancy
- Application distribution
- Simulation
- GEO-SCADA
- The Geo SCADA function integrates the interactive maps of Google Maps, Google Earth or Open Street Map in the Panorama E² HMI.

IOT ready

Panorama E² supports real-time information and data exchanges, originating from all types of devices found in the field, and via all types of networks - IP, Serial, PSTN, Wi-Fi, 4G, IOT networks: SigFox, LoRa, etc.

A multi-protocol, multi-interface and multi-network software suite, a Panorama based solution readily adapts to any technology revolution such as the huge arrival of connected devices.
Codra is committed to sustaining the quality and longevity of our Panorama software. We constantly introduce changes and improvements over time in order to support our customers.

Today, version 7 comes with major new features and 60 improvements to existing features – bringing a new experience of operational efficiency and performance to Panorama.

Cybersecurity
IT security has always been a core focus for Codra. From today, the Panorama Suite benefits from Cybersecurity functions implemented in conjunction with the French government working party on cybersecurity for industrial systems. Through Panorama Suite 2017, you will protect your applications with the help of native mechanisms for confidentiality (encryption), integrity and authenticity control.

Version 7 of Panorama E2 makes security easy to factor in by providing a new guide to configuring Panorama and its environment (Windows, etc.) as well as improved traceability of security events.

Multilingual Application
Codra offers a new approach to language management, such that developing and maintaining multiple languages in one application becomes very easy. The development time and the risk of errors are thus dramatically reduced.

Communication protocols
The new protocols integrated into Panorama E2 come with tools that help the configuration and generation of applications that optimize development times by automating specific tasks.

IEC61850
Native integration of the IEC61850 communication protocol; the international communication protocol for electrical installations.

LonWorks
Coupled with the LNS server (LonWorks Network Services), LonWorks is a technology based on the Echelon protocol dedicated to BMS/FM/Remote I/O.

In Panorama E2 v7, there’s also:
- My Panorama License Provider: a license manager in the Codra Cloud
- Copyright protection of reference applications
- Alias file management for MODBUS OPC items
- Optimization of BACnet, SNMP, MODBUS and telemetry functions
- A more intuitive, accessible and fast development environment

Panorama Mobile
Codra offers a new user experience with its application for Android & iOS.

From the field, mobile operators will access relevant information: visualization of the process, equipment status, notification and management of alarms, on-call services, etc. This data can be geo-positioned too.

Now that the era of industry 4.0 and Smart Cities is upon us, it is time for remote operators to become “connected” operators.
Codra treats its customers as real partners to help them operate, maintain and upgrade their Panorama systems.

The annual Panorama Certified Integrator (PCI) contract is devised for integrators wishing to develop a Panorama application in the best possible way. It offers the following advantages:

- software development licenses for all functions,
- technical support services on new projects,
- access to the Codra technical web site,
- training services,
- references on the Codra website, meaning that end users can quickly identify which partners are best suited (geographical location, specific business area) to implement Panorama systems for them.

The PLATINIUM PCI accreditation is given to PCI integrators who meet training and experience criteria, and who have been audited by Codra – which is a pledge of excellence for end-users.

The Panorama Certified Maintenance program (PCM) is intended for end users or integrators wishing to extend the software warranty of Panorama products thus ensuring the longevity of their SCADA applications.

References

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