SNCF
Factory of the Future program

TRANSPORTATION

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Under its **"Factory of the Future"** strategy, SNCF - the French national railway operator - is committed to integrating the latest **Industry 4.0** technologies at all of its technical sites. The e.SNCF team is responsible for upgrading and modernizing the ten industrial Technical Centers committed to a process of continuous improvement. The **Panorama SCADA software** has been selected for this major project which is nationwide in scope.

Aim

SNCF has chosen Panorama E2 as their platform for collecting all the data relating to the **management of their Technical Center buildings** and the **maintenance of their rolling stock**, in order to subsequently unify this data into a **national Hypervision system**.

Solution

Each Technical Center is equipped with a **local SCADA system** which provides for:

- Operation of **production facilities** (including machinery, test beds, etc.),
- **Facilities Management** and **Building Management Systems** - FM & BMS (lighting, heating, opening of windows and doors, etc.),
- **Consumption management** (electricity, gas and water) for improved **energy performance**.

On top of that, a Hypervision consolidates all the data from the Technical Centers, giving SNCF the ability to use relevant indicators to drive **operational performance**.

Benefits

- Gain nationwide vision through an **OPC UA certified Hypervision**.
- Benefit from a **secure environment** thanks to **ANSSI-certified cybersecurity** mechanisms.
- Acquire remote data in the framework of the facility upgrade program by collecting data from **IoT sensors**.
- Develop a **library of SNCF reference objects**, to ease SCADA application design by capitalizing on accumulated experience and knowledge. This library of components also allows for greater standardization between Technical Centers and within the Hypervision system.
- Leverage SCADA capabilities with real-time data processing and analytics to drive productivity and deliver **predictive maintenance** capabilities.

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