



CANAUX DE PARIS

Safer remote control of lock gates thanks to Panorama software

The City of Paris owns and maintains a network of 130km of navigable waterways for the supply of nondrinking water, freight transport and pleasure boating. This network is made up of several canals, including the Canal Saint-Martin and the Canal Saint-Denis.



Objectives

Project to modernise equipments, remote control and CCTV systems on the parisian canals.

1. Ensure continuity of the SCADA service without stopping river traffic
2. Adapting to the specific features of the existing system and to potential future additions
3. Contribute to the overall security of the IT system



PARIS

Integrated by IP2i

PLATINUM



Structures

23 lock chambers
4 movable bridges
4.5km Canal St-Martin
6.6km Canal St-Denis
300,000 m³ of water per day



Traffic 2023

5137 boats
98,267 passengers
688,064 t of materials



Equipment

200 fixed/dome cameras
87 water level probes
30 km of fibre optics





Implementation

- To ensure the safety of its structures and users, the canal department choose Panorama software for the remote control of lockgates and movable bridges.
- The facilities are managed from 4 control centres, with operational and on-call teams on duty 24 hours a day, 7 days a week.
- The equipment is controlled using a step-by-step logic (as opposed to a fully automated cycle logic) to ensure greater reactivity when it comes to securing the structures.



The telecontrol application

Technical staff are able to manage all systems and equipments to:

- visualise structures to remove any doubts,
- manage remotely the lock gates and movable bridges controled by PLCs,
- control the diversion bays.

The operators were able to take part in drafting the functional analysis. The HMI (Human Machine Interface) was modelled on the previous system to ensure continuity of use. Ergonomic improvements have nevertheless been made, such as the magnifying glass effect for better vision.

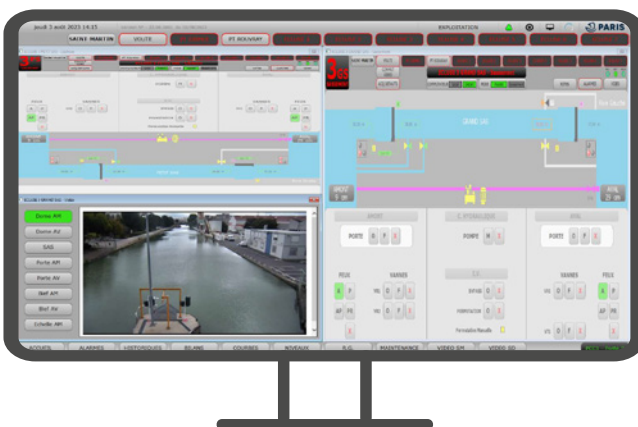
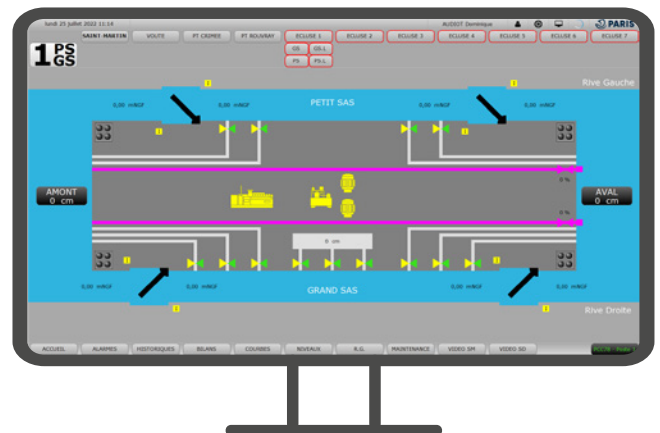
Equipped with an open, interoperable platform, the canal service can anticipate future changes to their system and develop their application.

As Panorama E2 is qualified and certified by the French National Cybersecurity Agency called ANSSI, the City of Paris benefits from the highest standards of cybersecurity for its application.



Benefits

- Easy to get to grips with the application
- Improved operator responsiveness
- Improved safety for the structures and users
- Enhanced cyber security for systems and equipment



Panorama enables the City of Paris to rely on reliable, robust software to ensure the safety of its structures and users. If I had to choose again, I'd make the same choice.

Francis CLERBOUT
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The canal department of the City of Paris