

VNF

WATER

Integrator
Actemium Paris Transport

Voies Navigables de France (VNF) is responsible for the management, operation, modernization and development of 6,700 km of navigable rivers and canals and more than 4,000 structures including locks, navigation dams and canal bridges throughout France.

For a project of this scale, VNF relies on a river management information system in which real-time knowledge of the network is an absolute requirement in order to regulate and monitor the navigation of commercial and pleasure craft through the network.



Aim

To have a single nationwide Hypervision platform offering a global and simplified vision of river traffic, position of vessels, status of the canal's navigational structures (locks, swing bridges, sluices, etc.), status of network communication facilities (availability of video streams, system operation, etc.).

Remote operation of a number of navigational structures from a control center.



Solution

VNF made the choice of the Panorama platform for its Hypervision application and located it at VNF headquarters in Béthune. Several control-command stations are tied in with the Hypervision and these are located on canal sections including one at Gambenheim. This particular station is unique in France, with a permanent lookout and crisis center supervising and monitoring all events and activity along the cross-border stretch of the river between Basel and Lauterbourg on a 24/7 basis. The control-command stations can be made autonomous from the central server in the event of any network loss by switching to a degraded mode.

In view of its complex architecture, VNF opted for a robust, future-proof industrial application. With the prospect of adding round-the-clock control-command stations, it was critically important to choose a scalable software solution also combined with high-level graphical usability necessary for extensive use of Panorama's geo-scada function (OpenLayer map display).



Customer Benefits

Network operators are able to remotely control the navigation infrastructure from a single location in centralized mode. Wall monitor display gives a clear and detailed view of traffic and navigation conditions.

Begun in 2014, the project is being rolled out on a continuous basis, with new canal sections to be added over the course of 2020 and into the coming years.

