

Hem, a French commune with a population of just under 20,000, currently has 350 municipal service agents. Their activities are broad and diverse with one sole aim: to meet the citizens' needs. As a dynamic local authority, Hem has focused all its skills and know-how on realising its regional development plan for decades.



SUMMARY

Client	Hem town council - Ville-hem.fr
Sector	Administration
Location	Hem (59)
Challenge	Managed network infrastructure:
Solution	DXS 3400-245C and DGS 1510-28X switches
Results	Improved productivity, network scalability, network management

Hem town council initiated a project to extend its town hall and bring it into line with current standards. Now, after 2 years of work, the building has been totally refurbished to the latest standards, and also benefits from a whole new network architecture and security system, as well as new IT equipment, so that the town council can now provide its citizens with digitised services and user support even outside of office hours.

Challenge

The town's IT network, infrastructure and servers did not meet current technical requirements. The cable network and IT infrastructure were outdated and very heterogeneous and no longer satisfactory for the citizens' needs. It was clear from this analysis that we needed to install equipment that was homogeneous, scalable and secure and that met current standards. Because the town hall was not the only building to be fitted with new equipment, we needed to guarantee homogeneity across the whole of our network. To this end, we issued an invitation to tender specifying our current constraints and above all our vision for our future infrastructure.

Solution

The systems integrator ALYANCE based in Marcq en Baroeul, a D-Link partner chosen as part of the public works contract, supported us throughout the project. They provided technical support with implementation and setup as well as the dynamism needed to successfully realise this huge project.

The town council's network core is fully equipped with Top-of-Rack 10 gigabit DXS-3400 managed switches. It is connected to each of the 9 sub-distributors via two fibre-optic cables (1 data and 1 voice). The sub-distributors consist of a stack of DGS-1510 switches. In order to guarantee performance and security, some switches are set up with one single data VLAN to which the data fibre-optic cable is connected, while the VOICE fibre-optic cable is connected to the switches set up with 3 different VLANs: WI-FI, PRINT, VOICE. All the cables from the sub-distributors to the workstations are CAT7 copper connecting cables to ensure scalability of the network with speeds up to 10Gbps.

Results

Thus far, we are seeing a clear improvement in our network. It is currently running at 1 Gbps instead of 100 Mbps, which is the speed we had before the total overhaul of the network. It is extremely easy for our agents to use on a day-to-day basis and also for the IT service, in terms of both administration and management. The market leads us to expect that our operation will continue to grow.

Products & Services

Network infrastructure:

- 5 DXS-3400-24SC switches
- 40 DGS-1510-28X switches



DXS-3400-24SC



DGS-1510-28X