Metropolis and City of Perpignan

A strategic digital transition plan to address the connectivity needs of citizens, visitors and municipal employees

INDUSTRY: GOVERNMENT
COUNTRY: FRANCE

SOLUTION: CLOUD COMMUNICATIONS
AND UNIFIED COMMUNICATIONS

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Enterprise

Alcatel-Lucent Enterprise and NextiraOne (NXO) France have joined forces to deliver a network infrastructure to help the metropolis and the city of Perpignan modernize their public administration.

The metropolitan area and city of Perpignan in France is known for its dynamism and innovation. The area now has 270,000 inhabitants, 1,100 employees and 36 municipalities, including the city of Perpignan with its 12,000 inhabitants and 2,400 employees. In order to be as close as possible to the citizens and to provide optimal interaction an effort has been made to share financial, technical and human resources.

Since 2016 the metropolitan area and city of Perpignan have been engaged in a project to modernize its public administration in order to simplify the sharing of information systems between the communities.

A reliable and efficient system and network infrastructure

The development of new infrastructure was the first project under the digital transition programme. The objective was to facilitate the sharing of the two local authorities information systems.

The solutions deployed were required to meet certain technical constraints, including network recovery times in the event of a hardware failure. The best solution was to deploy a data center and a high-availability network core in the city's two computer rooms, as well as a very high-speed metropolitan loop throughout the country.
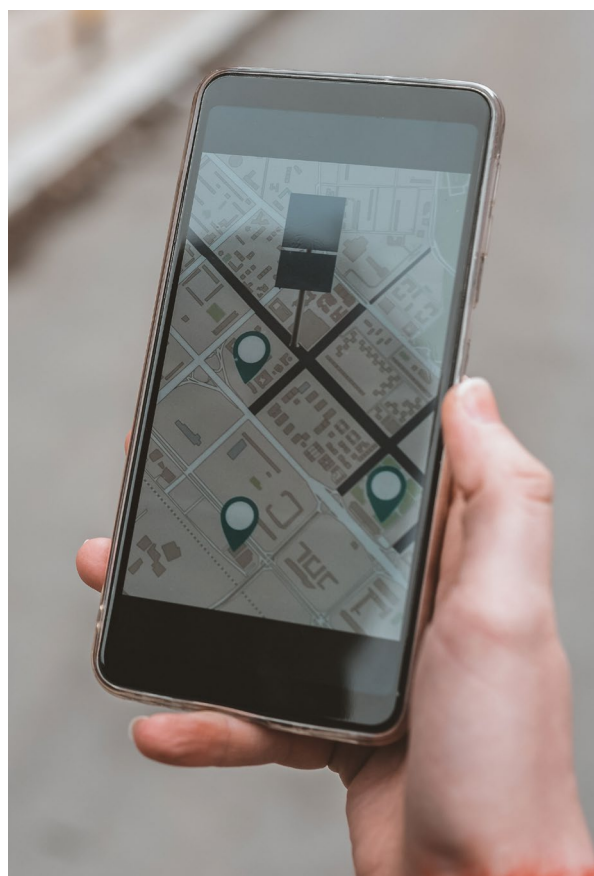
Alcatel-Lucent Enterprise solutions were selected to meet the metropolis' needs. The Alcatel-Lucent OmniSwitch® 6900 Stackable LAN Switch and the Alcatel-Lucent OmniSwitch 6860 Stackable LAN Switch technologies offer high performance, extremely low latency and high network reliability. They have the ability to meet very high bandwidth demands. The Alcatel-Lucent OmniPCX® Enterprise Communication Server allows employees to make calls from anywhere, from any device, while ensuring high network availability.

 "In addition to the physical LAN, MAN, WLAN, robust, resilient, high-performance infrastructure, Alcatel-Lucent Enterprise deploys and innovates solutions for communities. The metropolis and city of Perpignan now have a solid foundation for their smart city project. To coordinate these ensembles in an open ecosystem, we rely on the strong skills of our partner NXO."

Michel Pieraldi – Account manager - Alcatel-Lucent Enterprise.

❝ **Our ambition is to develop the digital component of the inner city to boost the centre of Perpignan. We want to provide new services to simplify the life of Perpignan residents and set up a community cloud that meets the needs of the city's 36 municipalities.** ❞

ELBAN CHEIBANY – DIGITAL DIRECTOR, METROPOLIS AND CITY OF PERPIGNAN

NXO France, a regional operator and network infrastructure solutions integrator was responsible for the integration, operations monitoring, and team training on the solutions.

"In addition to the availability and performance objectives set by the digital department of the metropolis and city of Perpignan, it also wanted to implement a DEVOPS approach."

This approach brings together the two key functions of the IT enterprise department: Developer teams (dev) and systems operations teams (ops).

"In this context, NXO's role was to support the teams on the new technologies, methodologies and tools needed to implement the innovative infrastructures."

Gilbert Moisio, Senior Consultant, Network Infrastructure and Methodologies, NXO

In addition to building a reliable and high-performance system and network infrastructure, Alcatel-Lucent Enterprise also contributes to the delivery of city content. ALE also develops applications for citizens and tourists based on the Alcatel-Lucent Rainbow™ Communications Platform as a Service solution.

A solid foundation to develop the smart city project

The new system and network infrastructure provides additional communication and collaboration services that have already been deployed to meet the internal needs of both communities. The metropolis and city of Perpignan are currently conducting a series of pilot projects to share access between the municipalities.

In the short and medium term, the network has been designed to allow the smart city to be developed. The first objective is to provide an innovative set of services to simplify the daily lives of Perpignan residents and visitors. A second objective is to revitalize the city centre while developing the digital component of the project. Finally, the metropolis of Perpignan plans to set up a community cloud to meet the needs of the 36 municipalities.

"This new infrastructure has enabled us to simplify the sharing and administration of our information systems, as well as to secure our two Data Centers through the implementation of a business continuity plan. We were able to deploy new services such as videoconference, IP deskphone and IoT for our internal needs and for the needs of users. Alcatel-Lucent Enterprise digital infrastructure, communications and collaboration technologies and NXO's expertise in these technologies have enabled us to achieve our objectives without any particular constraints."

Jean-Luc Hamelin, Head of Digital Infrastructure Services, Metropolis and city of Perpignan

CHALLENGES
- The metropolis and the city of Perpignan wanted to modernize their system and network infrastructure in order to meet internal and external needs. They wanted to revitalize the city centre and provide new services.

PRODUCTS
- Alcatel-Lucent Rainbow™
- Alcatel-Lucent OmniPCX® Enterprise Communication Server
- Alcatel-Lucent OmniSwitch® 6900 Stackable LAN Switch
- Alcatel-Lucent OmniSwitch 6860 Stackable LAN Switch

SOLUTIONS
- Cloud Communications
- Unified Communications

BENEFITS
Technical:
- The Alcatel-Lucent OmniAccess® Stellar WLAN integrates with existing infrastructures and offers ease of deployment
- The solution, which is fully redundant, provides continuity of services to citizens
- Deployed solutions to provide secure data centers through the implementation of a business continuity plan
- Simplification of the sharing and administration of information systems

User Experience:
- Deployment of new services such as videoconference, voice and IoT for internal and user needs
- New uses and content with the Alcatel-Lucent Rainbow solution for Perpignan residents, tourists and municipal employees

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