

The Saint-François-Xavier Academic Grouping relies on Nuclias Cloud for Wi-Fi infrastructure redesign



The College-Lycée-Prépa grouping at Saint François-Xavier de Vannes located in Morbihan is a secondary and higher education establishment housing 1,600 pupils from the sixth grade up to preparatory classes for major universities.



SUMMARY

Client	Academic Group Saint François-Xavier
Sector	Private education
Location	Vannes (56)
Challenge	Wi-Fi network infrastructure
Solution	Switches Wi-Fi access points Nuclias Cloud administration
Results	Easy deployment and scalability. Wireless network performance. User-friendly administration solution.

Challenge

In 2019, management decided to carry out an IT audit to modernise an outdated, disparate network infrastructure, which is characterised by numerous slowdowns.

Saint François-Xavier seeks a wireless solution to address new educational practices: firstly, to allow pupils and teachers to use any equipment on the establishment’s network (BYOD – Bring Your Own Device), and secondly, to make the use of digital tablets more widespread.

The entire project was driven by 2SIA – an integrator of the EURABIS Group whose services range from equipment supply to full IT management, and D-Link’s sales and pre-sales teams.

A solution that addresses the facility’s strong architectural constraints and performance requirements.

Establishment requirements include a high-performance network infrastructure and reliable and fast Wi-Fi that adapt to a restrictive architecture set up in a historical building. The choice is D-Link’s **Nuclias Cloud** for its flexibility, ease of deployment and performance.

“The 2SIA proximity integrator and the D-Link manufacturer were able to master the technical constraints linked to the specific nature of the buildings. The support and partnership work confirmed the choice of equipment and the survey of Wi-Fi coverage,” says **Anne LE GAC**, IT manager at Saint François-Xavier.



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Solution

The complete overhaul of the IT network was carried out in several steps. The first step was to replace and upgrade the existing wired infrastructure to render it stable, efficient and secure. The flexibility of the **NUCLIAS Cloud** solution then made it easy to deploy the 95 Wi-Fi access points distributed throughout the school so that all teaching staff and pupils could take advantage of the new practices in digital teaching.

*“Updating the wired infrastructure has given us a solid basis from which to deploy new digital uses (BYOD, tablets, laptops) seamlessly through **NUCLIAS Cloud**. Besides its performance and scalability, it is the perfect solution in this environment: it is easy to deploy and ensures optimal coverage in historic buildings that feature strong architectural constraints, especially thick walls.”* **Anne LE GAC**.

On the management side, **Nuclias** can be administered and supervised via a simple and intuitive web interface accessible from PC, tablet or smartphone, through the various wireless networks available to pupils and teachers.

“The new network at the Saint François-Xavier establishment has been fully operational since the start of 2021. Wi-Fi works so well that since its introduction, demand has been steadily increasing! To deal with this, the establishment must add two new fibre access points in order to adapt the Internet bandwidth to usage requirements”, adds **Cédric JAMARD**, Director of 2SIA.

Following the integration of the warning system equipment (ring tones, loudspeakers, PPMS - Plan Particulier de Mise en Sécurité microphones – (Specific Precautionary Safety Measures Plan), the establishment also intends to rely on this new network architecture as a whole to vehicle future video surveillance data and the IP telephony project.

Products & services

Network infrastructure:

- x3 DGS-3130 Series Stacked Switches
- x33 DGS-1510 series switches
- x95 DBA-1210P access points
- Nuclias Cloud administration

