

# Centralizing Operations For Management

Having a large campus, it was difficult for SNDT University to manage its decentralized network. With Dax's campus wide LAN solution deployed by Glodyne, networking within the campus has become simpler for this women's university

Established in 1916, by Maharishi Dr Dhondo Keshav Karve, Shreemati Nathibai Damodar Thackersey (SNDT) Women's University, Mumbai today has become a symbol of excellence in higher education for women. The university is committed to the cause of women empowerment through access to education, particularly higher education, through relevant courses in the formal and non-formal streams. Keeping its resources in mind, SNDT wanted to connect its operations within its campus, and was looking for an effective solution for connecting the total network of its university where 75,000 students get enrolled every year. SNDT also needed a solution, which would enhance the quality of education it provides.

Chennai-based networking solutions company Dax network suggested SNDT to go for Campus Area Network (CAN). The company selected its authorized Dax solution provider (ADSP)—Glodyne Technoserve, a the system integrator, for deploying the solution.

Subashini Prabhakar, Chief

Technology Manager, Dax Networks informed that Dax has completed many projects in the education vertical and this prompted it to extend its services towards SNDT.

## Decentralized environment

As a huge university it had the basic infrastructure in place for their educational purposes. However, it was not a centralized one and the issue SNDT faced was maintaining the whole decentralized infrastructure. Both Dax and Glodyne studied the network requirements and their study helped them in understanding the level of computerization required for the deployment of campus LAN. "We worked out a first level plan that included linking 750 nodes under LAN connectivity on a centralized architecture," informed Sharadchandra Rege, Senior VP—Sales and Marketing, Glodyne Technoserve.

Dax helped Glodyne initially for the site survey and to study network requirements. Then, it assisted Glodyne for drawing a comprehensive design for the project deployment. Keeping the complexity of the project in

mind, Dax prepared its ADSP for the project deployment before hand. "Prior to the project, we trained Glodyne on products installation and other areas. Since Glodyne had Dax-certified engineers, they were able to carry out the implementation smoothly," Prabhakar informed.

The whole set-up of campus LAN included Gigabit wired network for connecting 750 nodes, wireless access, Internet access through routers, for which, Dax supplied high-end switching, wireless and structured cabling solution.

network uptime. The network was made scalable with the convenience of wireless for mobile users enabling them to be a part of the campus LAN and share the resources.

## Solutions deployed

Dax has deployed DX-5749XGS at the core (L3 10/100/100 switch with 4SFP) and DX-5026MG at the edge (2 1000 TX port and 2 open slot switch) along with DX-915ABO wireless access point and



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challenge as providing IMS service is our core strength and that's what we do. In addition, over the years, we have built a strong relationship with SNDT and therefore we understood their IT infrastructure easily," said Rege.

Subashini Prabhakar, CTO, Dax Networks also felt that apart from finalising the requirements, Glodyne didn't face any challenges. "Even there, Dax assisted Glodyne to overcome the challenge by helping out in understanding the requirements," she informed.

On the completion of the project, Sudha Jagadish, COO, Dax Networks said, "Dax would like to thank Glodyne Technoserve for being instrumental in this achievement. In Dax's 20-year networking experience in India, education has been an important focus vertical for the company. SNDT is a very significant success, and Dax will continually support the growth of this university with its high-end, cost-effective networking solutions."

## Client response

Speaking on the significance of the project SS Mantha, Pro Vice Chancellor, SNDT University said, "We constantly strive to provide our students with the best facilities. With Dax's feature-rich and advanced networking solutions, we will be able to enhance the quality of our educational offerings. We are also looking at deploying similar CAN in our other campuses in Pune, Palghar and Ahmedabad."

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## HIGHLIGHTS OF THE SOLUTION

- Flexible two-tier network design allowing higher bandwidth management and redundancy in the network
- Gigabit backbone connectivity ensuring better throughput management between nodes connecting switches and servers
- Cat 6 cabling system ensuring future-proof infrastructure investment.
- 20-year certified structured cabling system, which provides hassle free, tech-savvy backbone connectivity.
- This solution comes with an integrated high-end switching campus-wide Wi-Fi network with 100 percent interoperability and compatibility
- Dax's solution comes with a comprehensive three-year warranty and low TCO

## Design of the project

Glodyne was given the task of completely centralizing the operations and enhancing the quality of education at SNDT. As a first step of the design, Glodyne had to take a survey on the campus and for that, it had deputed additional resource, as SNDT has a huge campus and it couldn't utilize its own resources alone. Post this survey, it identified the need-based infrastructure requirements and presented the report to SNDT for approval. Then along with Dax, Glodyne prepared the design.

The combined network design ensured that the campus had a fully managed network resulting in better control over the huge network set-up including fault detection and quicker convergence thus guaranteeing 99.99 percent

Cat 6 cabling solution for this set-up. While DX-5026MG was deployed to improve LAN operating efficiency with high performance, DX-915ABO took care of the enhanced wireless services.

The whole project involved multiple phases, which included deployment of campus LAN in various campuses of SNDT in Mumbai and in out-station locations, and providing WAN connectivity between multiple campuses across cities. As of now, the campus LAN has been implemented in the Churchgate campus and parts of Juhu campus.

## Challenges

During the deployment, Glodyne hardly faced any challenges and it was a smooth sailing all along. "We didn't face any major