STRENGTHENING CAMPUS CONNECTIVITY WITH A COMPREHENSIVE NETWORKING SOLUTION AT GOA UNIVERSITY



Strengthening Campus Connectivity with a Comprehensive Networking Solution at Goa University

CASE STUDY

Name : **GOA UNIVERSITY**

Industry : **EDUCATION**

Location : **GOA**

OVERVIEW

A modern university campus relies on a robust networking infrastructure to support academic activities, administrative operations and digital services. From classrooms and computer laboratories to libraries and administrative departments, reliable connectivity is essential to ensuring seamless access to information and communication across campus.

DIGISOL supplied a comprehensive range of Active and Passive networking solutions to support the infrastructure requirements of Goa University.

CLIENT REQUIREMENT

With multiple functional spaces across the campus, Goa University required networking infrastructure capable of addressing varied connectivity needs.

Classrooms and lecture halls required reliable network access to support digital learning and connected teaching environments. Computer laboratories needed dependable connectivity for academic applications and practical sessions, while libraries required network access to facilitate digital resources and research activities.

Administrative offices and departmental facilities required consistent connectivity for day-to-day operations, data exchange and communication. Auditoriums and other shared spaces also called for suitable network infrastructure to support their connectivity requirements.

THE OUTCOME

The deployment highlights DIGISOL's capabilities in catering to the diverse networking requirements of large educational institutions.

Through a comprehensive portfolio spanning Active and Passive networking, DIGISOL supported the development of essential connectivity infrastructure for Goa University's institutional environment.

The project stands as an example of DIGISOL's ability to deliver a broad range of networking solutions for complex institutional requirements.

THE DIGISOL SOLUTION

DIGISOL provided an extensive range of Active and Passive networking solutions to address these requirements.

The solution incorporated structured copper cabling and fibre optic connectivity, supported by a range of networking accessories and termination components. On the Active networking front, the portfolio included managed, unmanaged and PoE switches to cater to different network distribution and connectivity requirements.

Together, these solutions provided the essential networking components required to support the university's institutional infrastructure.

IMPLEMENTATION

The deployment involved substantial quantities of networking products across multiple categories. During the last five years alone, supplies included over 1,85,000 metres of Cat6 UTP cable and more than 10,000 armoured fibre cables.

The deployment also included over 2,500 units each of keystone jacks, surface-mount boxes, single-port faceplates and dual-port faceplates.

On the Active networking front, supplies comprised more than 30 managed switches, 25+ DG-GS1008DG unmanaged switches, 5+ DG-GS1024E unmanaged switches and 5+ DG-GS1510PL managed PoE switches. Additional managed switches were also supplied beyond these estimates.

The accompanying Bill of Materials highlights the breadth of DIGISOL products supplied as part of the deployment.

GOA UNIVERSITY / BILL OF MATERIALS (BOM)

1 DGC-SC6U4F-3GB	2 DGF-CAS2OUSH-06 & 12	3 DGC-RJ1UC6-3	4 DGC-PC6UMGY-1L/2L/3L	5 DGC-KS6UWH-C	6 DGC-PP6U2L-1C	7 DG-GS1528
CAT6 Cable 23 AWG 305 MTRS	6 & 12 Core Armoured Fibre Cable	DIGISOL RJ45, UTP Plugs	CAT6 Patchcords 24AWG	Keystones	Patchpanels	Managed Switch
Qty: 185000+ MTRS	Qty: 10,000+	Qty: 1,000+	Qty: 1,800+	Qty: 2,500+	Qty: 80+	Qty: 30+

8 DG-GS1008DG	9 DG-GS1024E	10 DG-GS1510PL	11 DGC-SBXXXXX-A	12 DGC-FPXISMSX-B	13 DGC-FPXDMSX-B
Unmanaged Switch	Unmanaged Switch	Managed PoE Switch	DIGISOL Surface Mount Box, White	DIGISOL Faceplate (1 Piece), Single Port, W/O Shutter	DIGISOL Faceplate (1 Piece), Dual Port, W/O Shutter
Qty: 25+	Qty: 5+	Qty: 5+	Qty: 2,500+	Qty: 2,500+	Qty: 2,500+

Note: The above quantities are based on the project BOQ and not independently verified Digisol supply quantities.