

DXN Modules as a Cable Landing Station – Timor Leste



Background

Timor Leste, one of the youngest countries in the world and fastest-developing digital hubs in Southeast Asia, required an advanced Cable Landing Station (CLS) to support the growing demand for internet connectivity and global data access. As a country positioned strategically for subsea cable deployment, Timor Leste was seeking a scalable, robust, and efficient CLS solution that could grow with future digital infrastructure demands.

Objective

The primary objective was to design and deploy a Cable Landing Station as a full turnkey solution to ensure timely delivery and a well-executed project. Given the remote location, the project required a prefabricated, modular solution that could be rapidly deployed and withstand the harsh coastal environment. Timor Leste's requirements also included energy efficiency, minimal environmental impact, and ensuring compliance with international standards for data transmission reliability.

Solution

DXN expertise in state-of-the-art modular solution, offering a prefabricated Cable Landing Station (CLS) that met the scalability, durability, and efficiency needs. DXN's modular design allowed for rapid deployment, with the ability to scale, leveraging designs used for large telco companies. The system was pre-engineered in DXN's production facility and shipped to the site for swift on-ground delivery practises.

Key features included:

- Environmental Durability: Engineered to withstand the coastal environment, ensuring longevity and reliability.
- Energy Efficiency: Optimised for power usage efficiency (PUE), reducing operational costs.
- Compliance: Built to meet international telecommunications standards for reliability and data protection.



"DXN's modular solution allowed us to go live quickly with a fully functional Cable Landing Station, positioning Timor Leste as a crucial hub for global connectivity."

– Telecommunications Project Lead, Timor Leste

Case Study

Outcome

DXN successfully delivered a scalable and energy-efficient Cable Landing Station (CLS) in Timor Leste, positioning the country as a key hub for subsea cable operations in the region. The modular approach allowed for rapid deployment and ensured the station was operational on schedule, supporting the country's increasing demand for internet connectivity and data transmission.

The installation met all international telecommunications standards and provided the flexibility for future expansions. The project has significantly improved Timor Leste's digital infrastructure, enabling faster, more reliable global data access, and establishing the nation as a crucial player in Southeast Asia's data economy.



Additional Wins For DXN

DXN has successfully deployed similar Cable Landing Stations for other clients in the APAC region, including projects with larger corporations, showcasing the scalability and adaptability of DXN's modular solutions.