



Mindanao State University

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Customer Background

Mindanao State University, commonly referred to as MSU Main, is a regional state, coeducational, research higher education institution in the city of Marawi, Philippines. Founded in 1961, it is the flagship and the largest campus of the Mindanao State University System.

Eyeing to transform into a smart campus in the future, the Mindanao State University (MSU) has embarked on an Information and Communications Technology (ICT) modernization program.

Customer Requirements

- Modernization of the university data center to improve reliability and uptime level.
- An ideal space for construction and installation of necessary IT equipment and facilities.
- Portable infrastructure facilities support the upgrade of internet speed by connecting the whole campus via hybrid fiber optics and wireless backbone.

Customer Benefits

- Peace of mind protection for critical IT systems to enable the internet connection, and campus virtual online system.
- Improved uptime level with redundancy of 2N power, and N+1 cooling system.
- Overall project timeline is reduced and flexibility of future site relocation with the plug & play containerized data center.
- Real time remote monitoring of system performance and working status.

The Solution

- 40F container data center with TIER III design architecture.
- 2N power system, with 2x modular UPS, 2x power distribution panels, and rack installed battery system.
- Rack mount modular UPS and hot-swappable power / bypass modules.
- N+1 cooling system, with built in ATS inside cooling units.
- Wall mount cooling installation, saves precious IT rack space and install more IT equipment.
- Cooling system with R134a green refrigerant, works up-to 55C ambient temperature. Great for Philippines hot-humid environment.
- Sliding cabinets and flexible cable tray systems. Makes it easier for installation, service and maintenance of IT equipment.
- Real time DCIM monitoring of temperature, humidity, smoke, water leaking, power voltage, power consumption, UPS alarms, cooling alarms, and fire protection status.
- Real time video surveillance monitoring and recording.
- 3 in 1 access control system. Supports PIN/Rfid/fingerprint methods of door access management, and remote control of the door entries by separate software.
- ISO standard 40F HQ containers, with all in one design and cooling slide-in installation. Smooth transportation for sea and road movement.

Project Testimonial

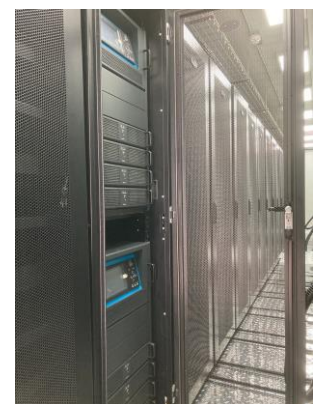
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The project is very significant to the University as it has been facing problems with regards to the steadiness of internet connection and wifi connections.

This program aims to put fiber optics, hub, database, and CCTVs to all the establishments of MSU Marawi.

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- Habib Macaayong, MSU System President



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