



IoT Edge for Maritime

Increase Uptime on Ships

In Summary

- ✓ IT services while on board a ship are unstable and face constant down time due to distance between ship and datacenter.
- ✓ Netsis deployed IoT Edge device as a Cloud, and services are now available even when network connectivity is down.

Client Background

Company transports goods by sea to parts of the world using their fleet of ships. IT Services on their ships are provided from a datacenter that's usually located more than 10,000 miles away from the ships' locations.

The Challenges

Network and power are two key requirements to using Cloud. Due to the lack of network connectivity, Cloud can't be used on the ships. The data transfer between the ships and datacenter are not stable and this causes IT services to be intermittent or down most of the time.

The Solution

Netsis team introduced the portable and low-power consumption IoT Edge device. It is being deployed as an Edge Cloud, so that services provided from the datacenter can be hosted locally on the ship. IT services are thus made 100% available and network instability taken out of the equation. Data is now hosted locally and will sync with the central control whenever connectivity is available.

Technical Overview

- ✓ Analytics at the edge only sends required data back to datacenter.
- ✓ Services still available when connectivity is unstable.
- ✓ Not all data needs to be sent back to datacenter. With edge analytics, only data that is required will be sent to the datacenter.

THE RESULT

IT services uptime is increased, resulting in increased work efficiency of the staff. Data integrity is maintained. With edge analytics, only important data is sent back to datacenter, hence reducing satellite bandwidth workload.