



Indonesian Navy- Maritime VSAT Mesh Network

Executive Summary

Challenge

The Indonesian Navy required a cost-effective high-speed mobile maritime communications network that would allow it to meet its demanding requirements for data, voice and videoconferencing connectivity between its fleet of ships and the navy's headquarters.

Achievements

SpaceBridge supplied a turnkey system with two master earth stations in Indonesia, a multi-satellite, multi-band (C/Ku) fully (1:1) redundant VSAT HUB, and stabilized antennas installed on navy vessels. The Star and Mesh solution provides robust Voice over IP (VoIP), Data and Videoconference services supporting naval operations.

Benefits of Spacebridge

Combined Mesh and Star network services from a single VSAT platform. A custom integrated high-speed Maritime VSAT network with a fully redundant VSAT HUB. Dual-band, multi-satellite solution for critical maritime warfighter communications.



Introduction

The Indonesian Navy has dozens of vessels, and requires robust and always-ready on-the-move Mesh Network communication among vessels at sea, and for communications with Headquarters and shore networks. The multi-satellite, multi-band maritime VSAT Satcoms-on-the-Move (SOTM) system from SpaceBridge provides a flexible and reliable platform for critical high-speed two-way voice, data, and video communications for the naval fleet.

Challenge

Navy tactical communications among vessels are complex and highly demanding. The diverse and concurrent demands of different crews and vessels during any given mission required a stable and robust network. It also required a network that could flexibly respond to and manage changing traffic and services demands in a dynamic environment.

The Solution

Spacebridge deployed maritime VSAT solution that allows Indonesian Navy vessels to use VoIP, Internet, data, and videoconferencing while on the move at sea for ship-to-ship and ship-to-shore communications. The SpaceBridge-built VSAT platform installed in Indonesia includes a fully (1:1) redundant VSAT HUB connected to both a 7m Ku-Band uplink system and 4.5m C-Band uplink system, as well as stabilized maritime VSAT terminals installed on navy vessels. SpaceBridge provided turnkey project support, from design and integration to installation and commissioning, to activating services for navy vessels.

Benefits of Spacebridge

The Spacebridge system for the Indonesian Navy is a flexible, reliable, and robust IP-based VSAT network that provides of all the communication services for navy vessels and to Navy offices. It met the navy requirements by employing a unique and redundant SpaceBridge VSAT HUB designed to operate in a multi-satellite and multi-band environment and provide robust Mesh communications.