

OpenAMIP Solution Overview

Expanded Use for VSAT Technology

The use of VSAT technology for mobility applications has expanded greatly in the past five years. During this period of growth new advances were developed to make it easier to implement a VSAT solution.

One of the early challenges for VSAT networks was the fact that the manufacturers of VSAT infrastructure equipment were separate companies from those that produced stabilized VSAT antennas. This meant that custom integration work often needed to be done by a service provider or network integrator to make sure that the components of a solution offered to a maritime customer would work as designed. After extensive work was undertaken between iDirect and several leading stabilized antenna manufacturers to make their systems interoperate iDirect developed the OpenAMIP protocol in 2006 as an industry-wide open-source standard for antenna-router integration.

Facilitating the Exchange of Information with OpenAMIP

OpenAMIP is an IP based protocol that facilitates the exchange of information between an Antenna Controller Unit and a satellite router. It allows the router to command the antenna and enables the use of Automatic Beam Switching (ABS), which transfers connectivity from one satellite beam to the next as a vessel passes through multiple footprints. In addition, OpenAMIP and ABS enable service providers and their customers to meet government regulations by commanding the antenna to mute the signal in no transmit zones.

iDirect has since integrated the open source code into its mobility VSAT platform, and has established a formalized qualification program for satellite antenna manufacturers. The OpenAMIP protocol eliminates the need for proprietary coding to make new antennas or routers introduced into the market work together. And it allows maritime organizations to choose from a wider selection of hardware to best suit their needs.

iDirect is antenna agnostic and our platform is designed to work with all major stabilized VSAT manufacturers products. The following is a list of supported manufacturers that have adopted the OpenAMIP protocol and qualified their respective products with iDirect. Numerous additional manufacturers are currently in the implementation and testing phase to receive qualification.

About Open AMIP

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OpenAMIP Options

	Antenna Type/Model	Antenna Software	Antenna Controller	ACU Software
Cobham Sea Tel	USAT 24, USAT 30, 2406, 4010C, 4010W, 5010C, 5010W, 4006, 5006, 6006, 4009, 5009, 6009, 9707, 9597, 9797, 14600	N/A	2202 2302	6.06, 7.06, CommIF 1.11 or higher
Intellian	V110	PCU v5.21 STAB 5.23	V110 ACU GYRO v1.07	MAIN v.112 Modem v1.08
Jotron	SATURN B120 ADE	1.102	SATURN B120 BDE	N/A
Navisystem	V-SAT95HT		SAT105i	A1_541
KNS	Supertrack Z6MK2		KA 160 ACU	ACU 3.322 PCU 1.925
Mitsubishi	SX-5300, SX-5310, SX-5320, SX-5330		HS-4030	3.3.2
Orbit	OrSat AL-7103 OrBand AL-7107		AL-7103-SBC-LNBR-GR Model ACU-1070	4.82 1.20
Marine Technologies	BB90CF, BB100CF2A, BB100CF3A		AC1000-3383, AC2000	BBController 1.0.0

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