

SpeedCast

Wherever You Are



Feature Industry
MARITIME

Key benefits to our clients:

- ▶ Proven reliability with over 25 years of experience in mobility solutions
- ▶ Widest suite of communications solutions for onshore, offshore and exploration
- ▶ Consistent QoS to secure performance of critical communications
- ▶ Operational expertise thanks to our highly trained and certified engineers
- ▶ Customer dedication with our 24/7/365 Network Operations Centers and local field support



Overview

SeaCast is SpeedCast's Maritime broadband service designed for all maritime segments. SeaCast delivers real time, always on, unlimited usage connectivity with worldwide coverage. It was the world's first global ku-band network used for maritime broadband. It is based on iDirect's Evolution and Comtech Vipersat platforms and has been operating reliably since 2008.

As an independent services provider, SpeedCast uses the best satellite beams for every coverage zone – this independence serves our customers well as it allows us to choose high quality and cost effective transponders for our managed bandwidth.

Customized Solution

One Size does not fit all!! At SpeedCast, we always advise our customers on the best possible solutions based on their requirements. We are technology and frequency band agnostic, and operate the largest suite of services in the market. Let us advise you on the best possible solutions for your needs.

Different Bands

SpeedCast provides a full range of C Band and Ku Band services, and is exploring Ka Band solutions. SpeedCast believes that Ku band will continue to be the standard for high-end maritime requirements due to the small antennas, high availability and cost. C band is well suited for customers looking for very high availability. Ka band is well suited for regional (coastal) and mass market (smaller vessels) use cases.

Different Platforms

SpeedCast provides both shared service and dynamic SCPC service. Our shared service is based on the iDirect VSAT technology, the reference in the industry. Our dynamic SCPC is based on Comtech Vipersat platform, a recognized global leader in satellite bandwidth efficiency and link optimization.

The Shared service starts with a lower cost than dynamic SCPC and then the cost increases at a faster rate as capacity requirements increase. Dynamic SCPC services start at a higher cost, but then the cost increases at a slower rate as the capacity requirements increase.

Global Support

SpeedCast provides 24 X 7 customer service support to SpeedCast's customer via its Global NOC in Hong Kong with multilingual support engineer (English, Mandarin, Cantonese, Tamil, Tagalog, Malay, Dutch, Spanish). We also have localized in-country support centres in Australia, Malaysia, Netherlands and USA.

Field Support

SpeedCast provides a wide variety of engineering services from basic planning of a project, to design, survey, procurement and installation, to testing and commissioning. SpeedCast has its own engineering services in many parts of the world and combine them with established partnerships with local certified engineering resources to ensure the global delivery of major projects.

SpeedCast field engineers are trained and certified for installation and maintenance on a broad range of antennas. We have more than 20 fully trained in-house field engineers based in Asia, Australia, Europe and America to be mobilized within 24 hours. If field service is required, our global network of certified field engineers is never far away.

Value Added Services

Postpaid Voice Services

SpeedCast offers a postpaid voice service that is designed to work over VSAT. Enjoy the simplicity of using our standard telephone service :

- Outgoing calls A-Z worldwide
- Incoming calls free of charge
- Local country DID numbers
- Itemized Billing
- Online Login Billing Report
- Powered by Tier 1 International Voice Carriers

Prepaid Voice Services

SpeedCast offers prepaid voice services for crew to make calls to anywhere in the world using prepaid softpins. Using a designated telephone onboard the vessel, crew can enjoy making calls to their family and friends in a simple and familiar way, without any restriction. Ship managers purchase credit in advance and fairly distribute these as softpins to individual crew members. When a crew member uses up

their call credit, they can top up their softpins from the captain and continue making calls.

Monitoring and Reporting Tools

SpeedCast also provides customers with "SpeedCast Monitoring and Reporting Tools" (SMART™) to allow customers to monitor their vessels' VSAT performance and generate their own reports. A variety of reports are available any time the customer wishes to inspect when the broadband is being used and what traffic types are consuming both the upload and download bandwidth.

SMART™ also remotely tracks their vessels on a near-live map. By providing real time & historic information on vessel speed, heading and coordinates, customer is able to improve the route management and scheduling of their fleet. This kind of telemetry is

available to dealers and vessel owners alike via any standard browser.

SMART™ is available to all vessels that are on SpeedCast Maritime Network and does not require any additional hardware installation. All the data is kept in the SMART database for minimum 3 years.





Remote Access Management

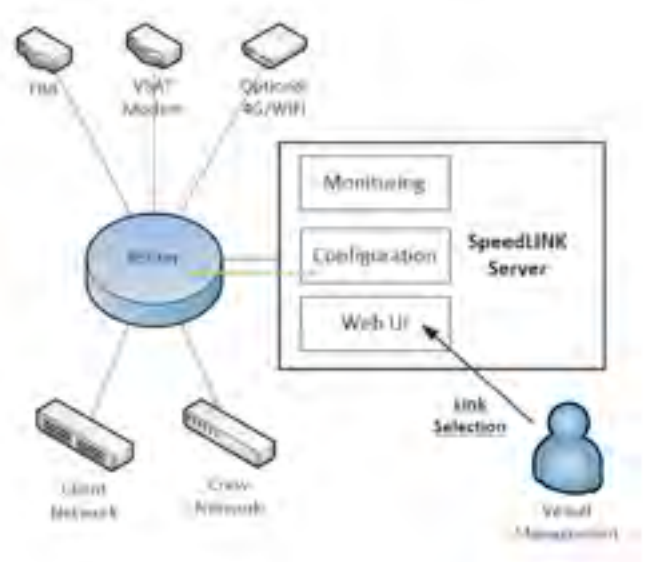
“Remote Access Management” (RAM) is our Maritime VSAT Backup and Remote Access Solution designed to remotely monitor and access the remote terminal as well as providing back up via L-band services if necessary. RAM is simple to implement and is a cost effective backup solution for VSAT networks that eliminates the issue of total communication breakdown between remote offices and corporate headquarters, due to bad weather for example.

SpeedCast’s RAM solution has been proven to failover effectively to the L-band network. The failover from VSAT to L-band service (when the VSAT fails) and L-band service back to VSAT (when the VSAT is up) is fully automatic.

SpeedCast’s infrastructure on board a vessel, for example, requires multiple communication devices to be functioning in unison: VSAT satellite router, tracking antenna system, L-band system, switch, WiFi AP, cellular AP, firewall, GPS, VoIP gateway and more. In the event any of these devices crashing or becoming corrupted, the field servicing is a costly and now largely unnecessary expense.

With our RAM service, our operations engineers are able to remotely access the communications devices on-board even when the VSAT is down.

SpeedCast will provide a Cisco Integrated Services Router and a Server. The Cisco Router is capable of link switching, tunneling (VPN), firewalling, and voice services. Link switching between VSAT, L-band, and optionally a WiFi / 3G connection is automatic. In addition to this, vessel management is able to select one of the available links, and to limit access for certain network classes, e.g. crew Internet access. This manual selection can be done via a web interface, SpeedLINK, running on the provided management server.





GLOBAL KU-BAND

SpeedCast Global Coverage

SpeedCast 



GLOBAL C-BAND

SpeedCast Global Coverage

SpeedCast 





SpeedCast 

Video Surveillance

SpeedCast offers IP Video Surveillance in a complete solution ranging from providing IP Camera, Video Server/Decoder, NVR Server/PC, Network Video Recorder (NVR) application to system integration and installation.

SpeedCam operates at uncharacteristically low bandwidth for a video application by configuring a set of image quality parameters such as frame rate and picture resolution. Customers decide the quantity of IP camera requires, frame rate, picture resolution and determine the appropriate Maritime airtime plan.

Hybrid Solution

SpeedCast offers L-band service as backup as well as out-of-band management. The L-band service can be either Inmarsat Fleet Broadband or Iridium Pilot service. The L-band service can provide mission critical data communication to customer whenever there is service interruption on the VSAT services. The L-band service can also act as “backdoor” for SpeedCast NOC engineers to

remotely perform the troubleshooting in event of service interruption.

Browsing & Crew Services

SpeedCast offers Prepaid Internet solution to customers in order to manage and control the crew’s usage of the internet service. Our solution enables the customer to regulate their crew usage of the Internet by imposing time limits or data volume limits for each crew member.

The key benefit is to give fair access for each crew member aboard a vessel to use the broadband link. It is also possible to allow access only at certain times of the day. In fact, our solution gives the customer flexibility to implement a variety of restrictions to suit their company’s Internet policy or crew welfare guideline.

Bandwidth Optimization

SpeedCast’s SpeedStar™ is a state-of-the-art optimization device that utilizes bandwidth ef-

ficiently and effectively allowing smoother passage of IP traffic through the maritime VSAT link. The 2-way optimization is applicable on both upload and download traffic and incorporates a blend of acceleration, compression and caching technology to provide a faster browsing experience, wherever the vessel is sailing.

Managed Security

SpeedCast offers a full suite of Managed Security Services by installing a firewall onboard the vessel as a multi-threat protection system. Using an enterprise-grade security platform, SpeedCast effectively blocks today’s attacks including intrusion attempts, viruses, worms, phishing, spyware, spam and many other types of malware using content inspection technology. Threat detection and software updates are provided regularly to ensure the latest security threats are detected and automatic security updates are available.

Why SpeedCast

Does your current service provider have all the below check boxes ticked?

SpeedCast Check List	SpeedCast	Current Provider
Fully controlled iDirect hub and network infrastructure	<input checked="" type="checkbox"/>	
More than 3 satellite beams each with 3 different uplink teleports each for South East Asia, North Asia, Middle East and Europe	<input checked="" type="checkbox"/>	
Multiple beam overlaps over South East Asia, Mediterranean, Caribbean, Middle East, North Asia, Australia, Atlantic Ocean and West Africa	<input checked="" type="checkbox"/>	
Proven automatic beam switching with support of more than 30 beams	<input checked="" type="checkbox"/>	
24 X 7 X 365 Support Centre operated by SpeedCast staff	<input checked="" type="checkbox"/>	
Multilingual Support Engineer (English, Mandarin, Cantonese, Tamil, Tagalog, Malay, Dutch, Spanish)	<input checked="" type="checkbox"/>	
Localized, in-country support centres	<input checked="" type="checkbox"/>	
More than 20 fully trained Field Engineers to be mobilized within 24 hours	<input checked="" type="checkbox"/>	
Inhouse field engineers based in Asia, Australia, Europe and America	<input checked="" type="checkbox"/>	
Provides L-band, C-band, and Ku-Band service	<input checked="" type="checkbox"/>	
Guaranteed CIR bandwidth and not average CIR	<input checked="" type="checkbox"/>	
Up to 10 times bursting ratio	<input checked="" type="checkbox"/>	
Unlimited, "All you can eat" broadband service	<input checked="" type="checkbox"/>	
Prioritization of Mission Critical Data across entire satellite network	<input checked="" type="checkbox"/>	
No restriction, filtration or blocking of Internet traffic (no fair-usage policy)	<input checked="" type="checkbox"/>	
Prioritized voice call with termination on Tier 1 voice carrier	<input checked="" type="checkbox"/>	
Softpin based prepaid crew calling	<input checked="" type="checkbox"/>	
Inhouse developed L band fail over switch	<input checked="" type="checkbox"/>	
Cobham, Intellian, Orbit and Furuno certified Support Engineers	<input checked="" type="checkbox"/>	
Upgrade, downgrade and suspension of plans are allowed during the contract period	<input checked="" type="checkbox"/>	
Inhouse developed monitoring and reporting tools	<input checked="" type="checkbox"/>	
Full Access Control Crew Wifi Network	<input checked="" type="checkbox"/>	
CCTV Security Surveillance Solutions	<input checked="" type="checkbox"/>	

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