

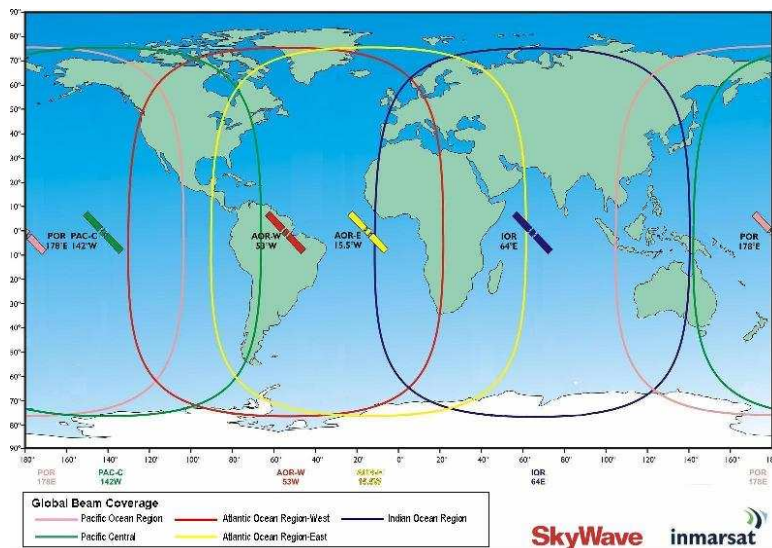
SkyWave IsatM2M Network Service

Enabling Cost-Effective Telematics Solutions

Service Overview

The SkyWave IsatM2M network service is the latest addition to SkyWave's family of products and satellite services. It is a new service based on enhancements to the trusted SkyWave D+ service. By combining reliable, global, two-way communications with large message payload, low message latency and low terminal power consumption, Solution Providers can create new applications and enter new markets. For existing SkyWave Solution Provider partners, SkyWave IsatM2M enables you to enhance the performance of existing applications. It also allows you to continue to leverage your SkyWave D+ investment, while helping you be more responsive to your customers needs.

Solution Providers around the world put their trust in the SkyWave network because of its proven reliability for both performance and coverage. Applications such as vehicle security, remote driver communications, industrial equipment monitoring and marine buoys, depend on the stability and visibility provided by the SkyWave network. Operating on Inmarsat's network of geosynchronous satellites, SkyWave IsatM2M service offers features and benefits that will increase the responsiveness of Solution Provider's applications. SkyWave operates service on five overlapping regions that provide global coverage between +/- 75° latitude.



SkyWave global network coverage map

SkyWave's IsatM2M message capacity is tailored to meet your application needs. For fixed applications, from-terminal messages up to 25-bytes and to-terminal messages up to 100-bytes are available globally between +/- 75° latitude. For mobile applications, from-terminal messages up to 25-bytes are available between +/- 50° latitude. Between +/- 75° latitude, up to 10-byte from-terminal messages and up to 100-byte to-terminal messages are available. Contact SkyWave if your application requires 25-bytes outside of this coverage area.

SkyWave's IsatM2M service offers low latency in both the from-terminal and to-terminal directions, enabling real-time monitoring of valuable assets and fast response—especially critical in security applications. Combined with SkyWave IsatM2M 25-byte from-terminal messages, Solution Providers can develop highly responsive applications that meet the requirements for high value opportunities.

Key Benefits

- Ideal for telemetry and tele-command
- Rapid response to alerts from an asset
- Extend battery life and reduce maintenance
- Global reliability and predictability
- Leverage your SkyWave D+ investment & knowledge
- Enhance existing D+ applications with minimal effort
- Add status to traditional position reports
- Fast and easy integration with application software

Key Features

- 30 second latency reporting from-terminal
- 1 minute to-terminal message latency
- 25-bytes per message from-terminal
- Up to 100-bytes per message to-terminal
- Significant reduction in terminal power use
- 99.998% satellite network availability via Inmarsat
- 24/7 Network Operations Center
- Secure data transport
- Low latency for fast message delivery and quick response.
- Detailed billing records

SkyWave



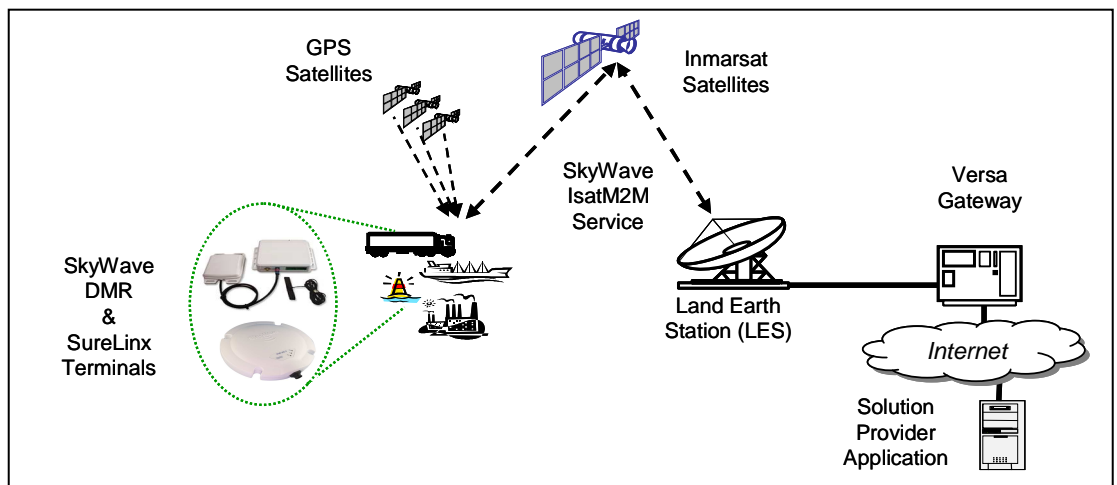
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Technical Details

- From-terminal messaging:
 - Up to 10-bytes or 25-bytes
- To-terminal messaging:
 - Up to 100 bytes
 - Tone (0-byte code)
 - Numeric (200 digits)
 - Alpha (133 char)
- Optional message acknowledgement
- Automatic global roaming of terminals
- Redundant infrastructure
 - In-orbit backup satellites
 - Versa Multi-protocol gateway

Network Specifications

Satellite	Network Coverage	5 overlapping regions to +/- 75 degrees latitude
	Frequency	Forward channel: 1525.0 to 1559.0 MHz (32-FSK) Return channel: 1626.5 to 1660.5 MHz (2-FSK)
Versa Multi-protocol Gateway	Server Interface Network interfaces Online tools	XML or D+ Access Protocol via TCP/IP/SSL D+, IsatM2M, GPRS Terminal administration Traffic analysis Invoices
Application Software Developer Kit	Server Database API	Microsoft Windows Server SQL DAPC



Application Flexibility Enables a Wide Range of Business Opportunities

Solution Providers around the world rely on SkyWave's trusted network and field-proven, reliable terminals. SkyWave's IsatM2M service enables SkyWave partners with state-of-the-art network technology, ideal for low-cost telemetry applications where remote monitoring, control or messaging is critical to business success. One example is truck security for transportation of goods in dangerous areas, where the location and status of the vehicle may represent a significant monetary risk. Violation reports "by exception" allow the cost-sensitive industry to afford a satellite monitoring solution for peace-of-mind, while the ability to rapidly respond to situations by locking doors or initiating engine shut off within moments of a problem adds real insurance value, saving money and possibly saving lives. Another example is intermodal container tracking, where the end-customer requires different reporting rates dependent on whether the container is slow-moving at sea or fast-moving on land. SkyWave IsatM2M service provides low-cost, flexible reporting for tracking with low power consumption for battery-powered installations. With IsatM2M, Solution Providers have what they need to customize their applications for different end-users and to address a wide range of business opportunities.

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