



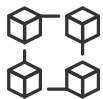
IRIDIUM MESSAGING TRANSPORT® (IMT®) A fully integrated, cloud native networked data service

Iridium Messaging Transport® (IMT®) provides customers small- to moderate-sized IoT messaging through Iridium CloudConnect and offers industry standard protocols, programming, message topics and Pub/Sub capabilities through a wide range of Iridium Certus™ modules. IMT is the future of IoT for satellite communications.



Overview

IMT enables customer terminals using Iridium Certus™ modules to send and receive data over the Iridium® network utilizing industry standard terrestrial IoT / data transactions methods, dramatically simplifying the design, development, integration, message management and transaction flow.



Message Size: IMT transfers data in packet sizes from 1 to 100,000 Bytes, providing the ultimate flexibility to meet application requirements.



Pub / Sub: IMT's approach to publish /subscribe messaging serves as the middleware for data transfers as a simple communication methodology.



Industry Standard Protocols: IMT uses Python – known to programmers around the world – and customers receive data in Simple Queue Service (SQS) in JavaScript Object Notation (JSON) format.



Topics: IMT sends/receives messages by Topics, with unique settings for priorities, persistence, and queue sizes.

Applications

IMT is ideal for data that does not require a persistent connection:

- IoT
- Machine-to-machine communications (M2M)
- Email
- Group communications
- Weather forecast
- Transactions

Empowering Data Connectivity, Everywhere.

KEY FEATURES

2024-11 v3



Transfer: IMT transfers data through closed-carrier networks and dedicated, secure private connections between Iridium and AWS.



Private Queues: Topic queue set queues reside in the customer's AWS Virtual Private Cloud (VPC) environment.



Authentication: IMT uses cross-account authentication. A simple script creates the necessary infrastructure for Topic queue sets.



Easy Upgrade: IMT is a simple server-side shift for customers who already use Iridium Short Burst Data® (SBD®) with Iridium CloudConnect and allows data ingestion regardless of underlying over-the-air and ground systems technologies and protocols.



Security: Uses a dedicated, secure, private connection to directly connect Iridium to AWS.



Coverage: Leverages Iridium's truly global network and AWS's redundant infrastructure and support.

- Low-cost and easy upgrade from SBD, CSD & RUDICS
- Up to 300X* increase in data size & speed over SBD & RUDICS (*dependant on modem)
- No need for persistent connection (Ideal for IoT uses: M2M & applications including email, weather forecasts, etc.)
- AWS's redundant infrastructure and support with dedicated, secure, private connection to directly connect Iridium to AWS

	SBD	RUDICS	IRIDIUM IMT
PROTOCOL	Iridium Proprietary	Point to Point Protocol (PPP)	IoT Technology Standard
SPEED	Up to 2.4 Kbps	Up to 2.4 Kbps	Up to 4.8 Kbps
SIZE	Up to 340 Bytes	Open Connection limited to 2.4 Kbps	Up to 100,000 Bytes
DATA DELIVERY	Store and Forward	Duplex IP Connectivity	Store and Forward
NETWORK EFFICIENCY	Yes	Yes	Yes
DELIVERY METHOD	Direct IP, Email, SMS, Iridium CloudConnect	Direct IP	Publications / Subscriptions through cloud based topics
END POINT MANAGEMENT	Single End Point	Single End Point, or Open-Ended PPP	Multiple topics to multiple end points managed in the cloud
IRIDIUM GATEWAY COLO REQUIRED	No	No	No

