

# Iridium Messaging Transport Where IoT in Space meets Cloud

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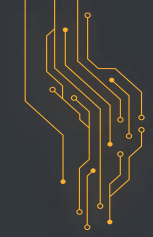
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Cloud and IoT  
C21 Connected World Series  
16 February 2023





# Synopsis

Iridium Satellite Communications recently introduced Iridium Messaging Transport<sup>SM</sup> (IMT<sup>SM</sup>), its two-way cloud-native networked data service designed to make it easier to add satellite connections to existing or new IoT solutions. IMT provides a data transport service unique to the Iridium<sup>®</sup> network, designed for small-to-moderate-sized messages supporting satellite IoT applications. It is integrated with Iridium CloudConnect and Amazon Web Services (AWS) and can reduce development costs and speed time to market for satellite IoT devices. IMT aligns with current established server-device message constructs using hubs, Pub/Sub or queues, depending on application platforms. The native cloud service allows integration with the leading cloud based IoT platform. Iridium partners are currently implementing solutions using IMT in a wide variety of applications, such as machine-to-machine (M2M), over-the-top messaging, remote terminal management (RTM), asset tracking, and Industrial IoT.



# Iridium Messaging Transport (IMT) is....

Iridium's first fully integrated  
Cloud-Native Networked Data Service!

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IoT for Iridium Certus<sup>®</sup>

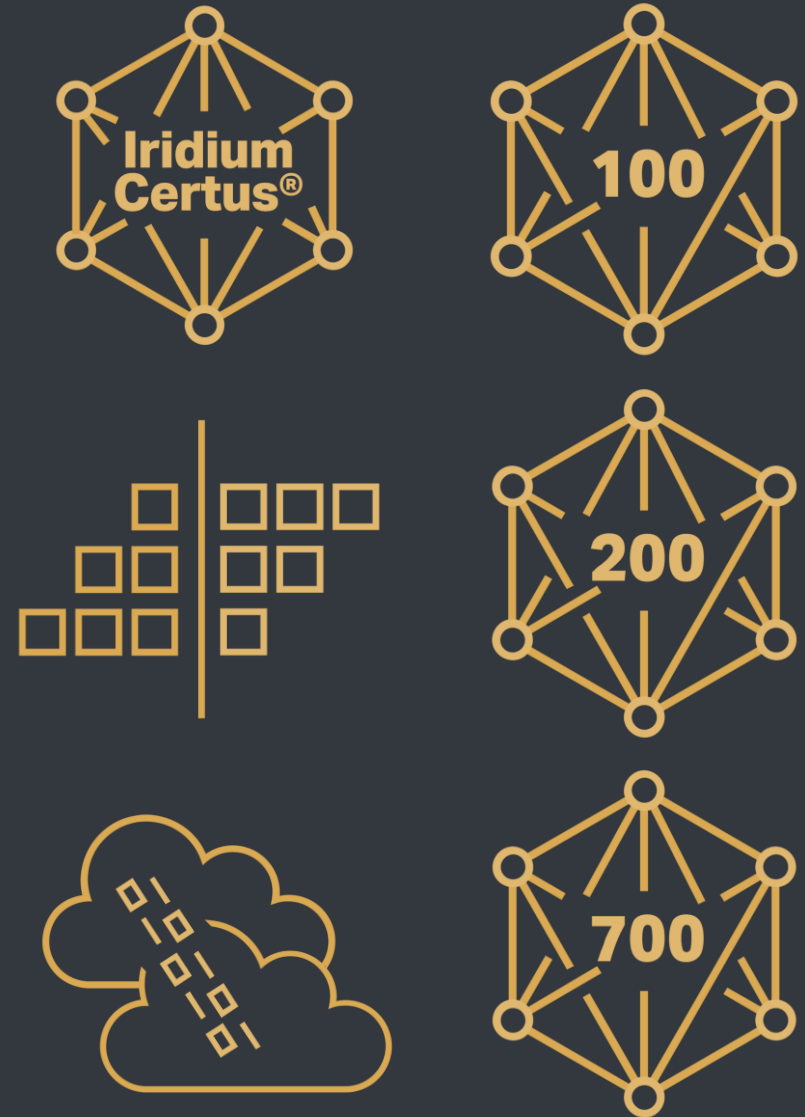
# IMT is an Iridium Certus® Service

The Iridium Certus L-band network of meshed LEO satellites is designed for high reliability and low latency. With standard IP data speeds up to 704 kbps download and 352 kbps upload, it's ideal for high-quality voice calls, email, internet access, video streaming, file, and IoT data transfer.

Iridium Messaging Transport (IMT) optimizes data transport across the Iridium network for small to moderate-sized messages and utilizes the Iridium Certus data backbone.

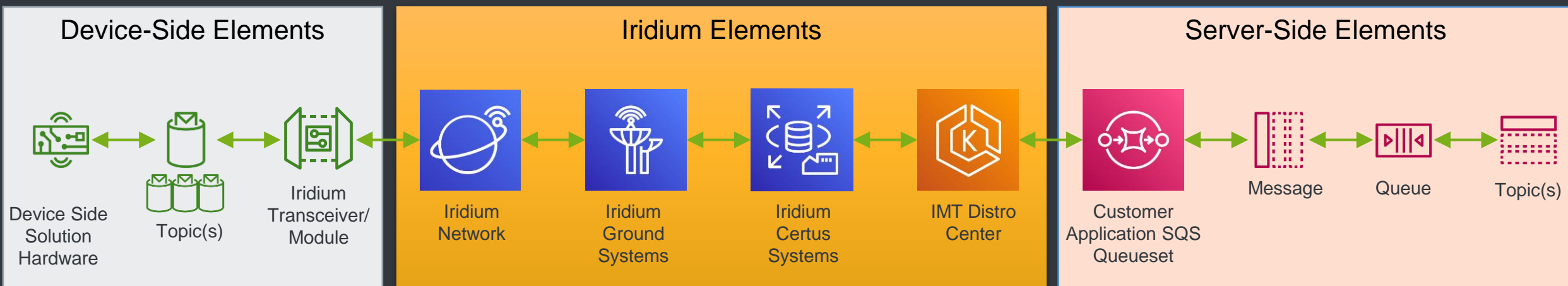
As a connectionless messaging service for Iridium Certus modules, IMT aligns with current established server-device message constructs using hubs, pub/sub or queues, depending on application platforms.

Customers using IMT and SBD utilize the familiar Iridium CloudConnect model of server-side message processing, regardless of the underlying over the air and ground systems technologies and protocols.





# Iridium Messaging Transport Elements and Protocols



Device-side and server-side protocols align with and extend compatibility with IoT industry practices



# From SBD to IMT – the Cloud Progression

powered by aws

**Terminal / Modem**

**Satellite**

**Ground Station**

**Iridium Gateway**

**Delivery Method**

**App Server**

**End Point**

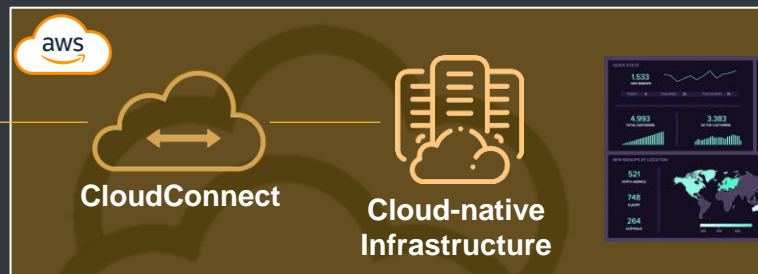
**SBD**



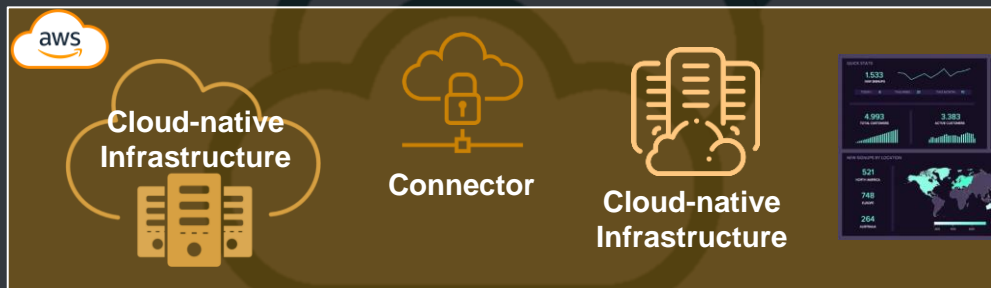
Email  
Direct IP  
SMS



**SBD w/Cloud**



**IMT is Cloud Native**



# Every Iridium Certus Module will use IMT

Q4 2022

Iridium Certus  
9770



- IoT type applications
- Store and Forward, Connectionless
- Efficient network utilization for small messages compared to Iridium Certus® IP

Q1 2023

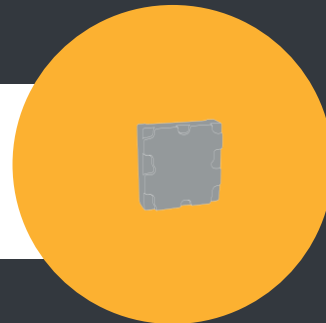
Iridium Certus  
9810



- IoT type applications
- Allows prioritization of GMDSS messages within the terminal

Expected  
Q4 2023

Iridium Certus  
9704



- IoT Focused
- IMT is the only data transport protocol

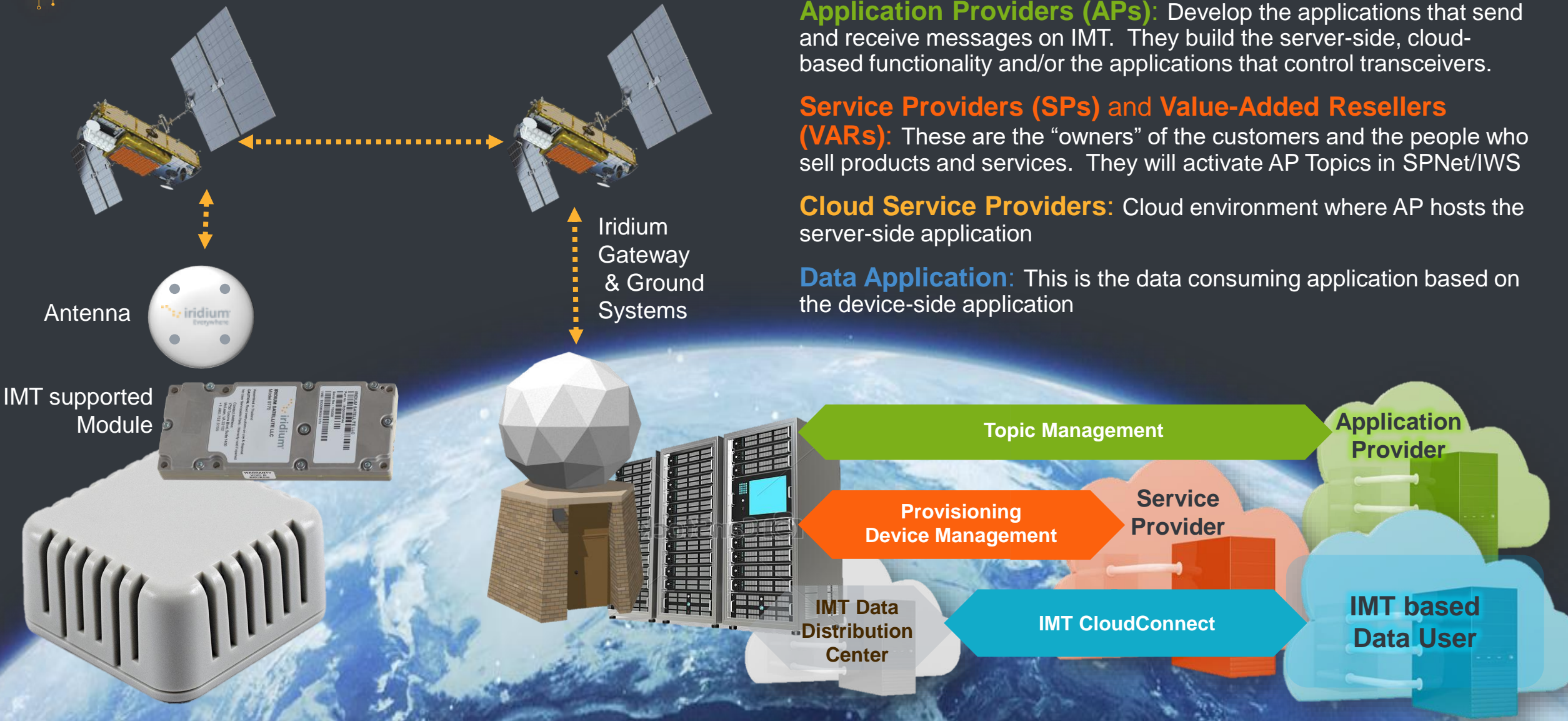
# Iridium Messaging Transport: How it Works

**Application Providers (APs):** Develop the applications that send and receive messages on IMT. They build the server-side, cloud-based functionality and/or the applications that control transceivers.

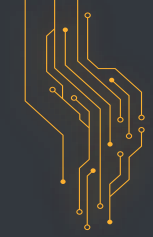
**Service Providers (SPs) and Value-Added Resellers (VARs):** These are the “owners” of the customers and the people who sell products and services. They will activate AP Topics in SPNet/IWS

**Cloud Service Providers:** Cloud environment where AP hosts the server-side application

**Data Application:** This is the data consuming application based on the device-side application







# IMT Applications

When your Iridium Certus data is store and forward, IMT is the one to use

## M2M



## Email



## Weather



## Transactions



## Group Communications



# Iridium Messaging Transport | Architecture

