AWS & IMT®

What is Iridium CloudConnect and Amazon Web Services (AWS)?

Iridium CloudConnect makes use of Amazon Web Services (AWS), Amazon's hosted cloud-computing platform. It enables a global reach through the Iridium® network, for companies developing Internet of Things (IoT) capabilities. Iridium CloudConnect transfers Iridium Messaging Transport® (IMT®) and Short Burst Data® (SBD®) from an Iridium-based device directly to a specified cloud service, AWS.

- First and only satellite cloud-based solution that offers global coverage for IoT applications through AWS
- Enables Iridium devices to send and receive messages through an AWS-hosted service
- Data is transferred through closed carrier networks and dedicated, secure, private connections between Iridium and AWS
- Exchanges SBD messages in JSON for both MT/MO
- Powerful tool for developers seeking a singular communications platform for device management

How to get started with Amazon Web Services (AWS)?

Iridium CloudConnect is established by using cross-account authentication and a simple script that creates the infrastructure needed to support the service. SBD device data is received in Simple Queue Service (SQS) in JSON format - your queues reside in your own AWS VPC environment.

Since launch, Iridium CloudConnect has supported SBD functionality. It recently expanded to support Iridium Messaging Transport, which is Iridium's messaging solution for Iridium Certus®.

1. Customer sets up own AWS account
2. MetOcean provides customer with CloudFormation template and CloudConnect getting started guide
3. Customer provides 4 URLs and cross-account ARN to MetOcean
4. MetOcean provisions SBD devices to use CloudConnect

Iridium® CloudConnect
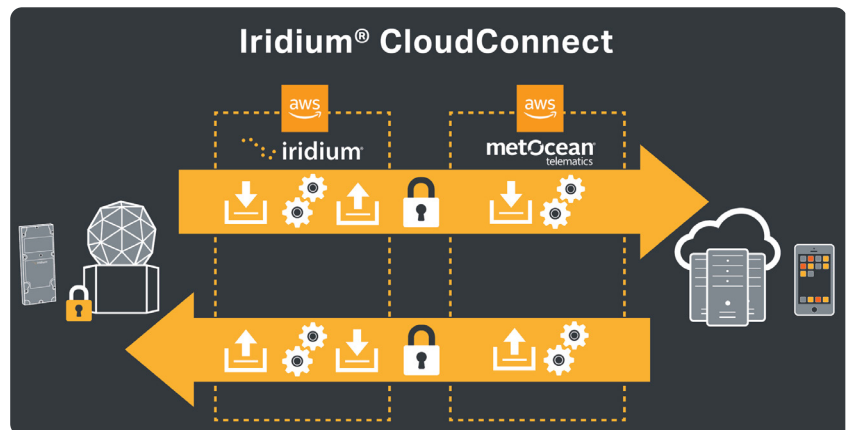
Empowering Data Connectivity, Everywhere.

metocean.com

What is Iridium Messaging Transport (IMT)?

Iridium Messaging Transport (IMT) provides IoT messaging through CloudConnect and offers industry standard protocols, programming, topics and Pub/Sub capabilities through a range of Iridium Certus modules. IMT is the future of IoT for satellite communications.

- **Message Size:** IMT transfers data in packet sizes from 1 to 100,000 bytes.
- **Industry Standard Protocols:** IMT uses Python 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 sizes.
- **Pub/Sub:** IMT's approach to publish/subscribe messaging - a simple communication methodology, serving as the middleware for data transfers.

What are the differences between IMT and the other Certus data transmission methods?

- **Transfer:** IMT transfers data through closed-carrier networks and dedicated, secure, private connections between Iridium and AWS.
- **Authentication:** IMT uses cross-account authentication. A simple script creates the necessary infrastructure for Topic queue sets.
- **Private Queues:** Topic queue sets reside in the customer's AWS Virtual Private Cloud (VPC) environment.
- **Coverage:** Leverages Iridium's global network and AWS' redundant infrastructure and support.
- **Security:** Uses a dedicated, secure, private connection to directly connect Iridium to AWS.
- **Easy Upgrade:** IMT is a simple server-side shift for customers who already use Iridium Short Burst Data (SBD) with Iridium CloudConnect, allowing data ingestion regardless of underlying over-the-air and ground systems technologies and protocols.