INTELSAT®

Connectivity Made Simple For Rail Operations

About

With 45% of rail maintenance unplanned, demand for real-time monitoring and intelligent network switching for seamless, always-on data transmission is on the rise. But many railway operators lack the necessary connectivity capabilities that allow them to effectively manage their fleet.

Connectivity dark spots where terrestrial coverage isn't available render locomotives and trains invisible to control centers and hinder critical analyitics and mornitoring.

Rail communications are increasingly dependent on complex applications that require high-performing, reliable and cost-effective network access.

Whether you need connectivity to ensure crew safety, fleet monitoring, or continuous reporting for and regulatory requirements, rail operations need loads of bandwidth for big data strategies that can enable them to act on insights and realize efficiencies. **Pain points include:**

Operational delays due to unscheduled asset downtime

Manual track inspections that lead to human error and irregularities

Inability to integrate existing and new connectivity technologies
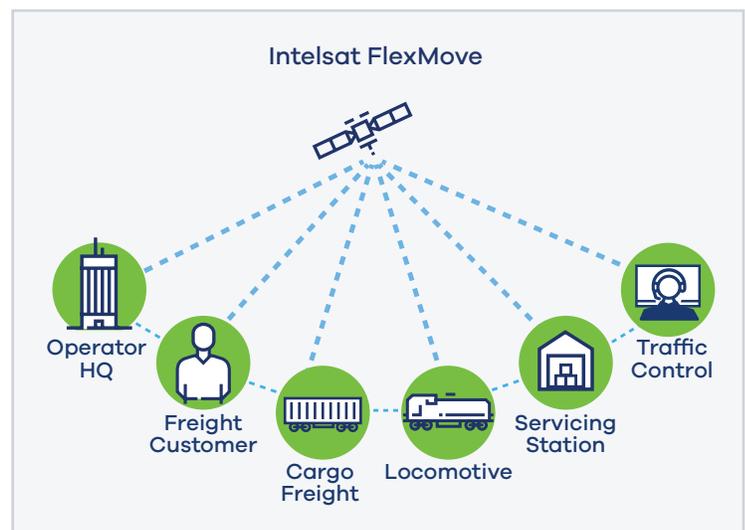
The Intelsat FlexMove Solution

With a ubiquitous, always-available, high-throughput satellite (HTS) infrastructure, 99.95% network uptime, and the ability to deploy unique digital solutions aimed at conditional and predictive maintenance, **FlexMove is designed specifically for rail operations.**

Engineered for both connected mobility to support moving vehicles and portable connectivity which can connect multiple devices, **FlexMove empowers any user to access the internet, private network or cloud-based application in just minutes without the need for in-depth technical expertise.**

Having a variety of flexible service plans is critical. Rail operators require varying levels of network throughput depending on unique requirements including data speeds and committed data rates. FlexMove offers a range of data plans and consistent, enterprise-grade internet access. And with data speeds up to 10x faster than narrowband on-the-move satellite solutions at a fraction of the cost, FlexMove can meet your connectivity needs, no matter how they evolve.

Intelsat FlexMove

Operator HQ

Freight Customer

Cargo Freight

Locomotive

Servicing Station

Traffic Control

FlexMove Solution Spotlight

FlexMove enables users to create a tailored, on-the-move solution for specific applications and requirements.

Here's how...

Using the Low Profile Kymeta u8 Terminal

Featuring electronically steered, software-defined technology, this flat-panel, aerodynamic antenna mounts easily on vehicles while maintaining low power consumption with native DC operation for seamless integration.

With the Kymeta u8, trains moving in and out of terrestrial connectivity coverage maintain reliable and redundant communications.

Select Service Plan

Intelsat commits to a premium user experience with a range of customizable network configurations including plans with SLA-backed minimum throughput for extra peace of mind.

Connected Mobility Solution

Kymeta u8 Ku-band Terminal

Demensions: 89.5 cm × D 89.5 cm × H 14.6 cm

Weight: 34 kg

- Installed on a vehicle or mobile platform and designed to operate at high speeds
- Fully integrated terminal with multi-WAN satellite and LTE/cellular connectivity
- Robust design suitable for a wide range of environmental elements

Choose from a variety of maximum information rate (MIR) and committed information rate (CIR) plans with flexible terms

Single Terminal Plan		Shared (Multi-terminal) Plan		
10 GB + 📶	Month	30 GB	− ⚬⚬⚬ +	Month
Data plans per terminal range from 1 to 1,000 GB per term. Hardware bundle plans available.	Choice of monthly, quarterly or annual terms	3 or more active terminals; each having the same data plan and service type	Flexibility of adding or removing from the pool	Choice of monthly, quarterly or annual terms

With FlexMove, you can confidently connect distributed operations, as well as ensure site/asset security, employee safety and business continuity.

Powered by Intelsat.

As the foundational architects of satellite technology, designing global network solutions that fit specific user needs is in our DNA. Let's talk about your connectivity needs today: **intelsat.com/contact-us**

Intelsat FlexMove Enables:

Redundant, high-throughput connectivity withproven network availability and resiliency

Robust, multi-layered network security at every end point

Operational efficiencies supporting advanced IoT applications

High-quality video streaming for obstacle detection and situational awareness

Preventative maintenance and telemetry data enabled to keep locomotives in service

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INTELSAT® Imagine Here™