IDRS.

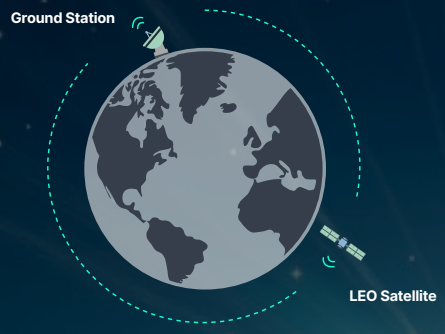
THE WAIT IS OVER

Connect with your LEO satellite constellation in real-time with IDRS™

Addvalue's Inter-satellite Data Relay System (IDRS) provides the world's first commercial, on-demand, real-time connection to LEO satellites, enabling ground-breaking advancements in satellite operations. The IDRS solution is space tested and operates over Inmarsat's award-winning L-Band I-4 GEO constellation. This allows LEO operators to communicate on demand with their LEO constellation by relay within the Inmarsat network. With IDRS solutions, LEO satellite operations will no longer be throttled by ground station scheduling. IDRS technology greatly improves the efficiency of LEO satellite fleet ops.

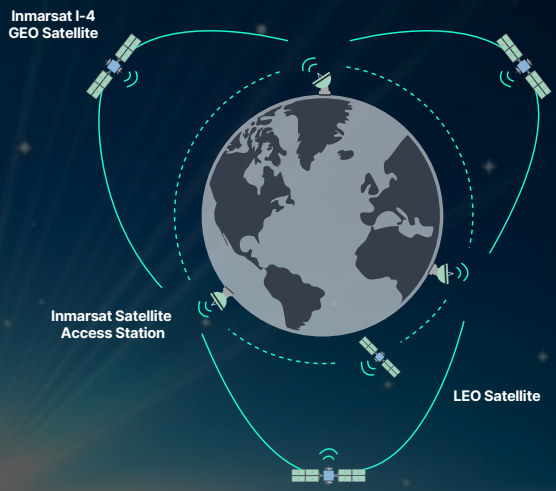
TRADITIONAL

~4%



WITH IDRS

99%



The IDRS operational difference

- On-demand 24/7 communications link provides scalable, operational efficiencies for single satellites or constellations
- Facilitates real-time tasking, and operational coordination across a LEO constellation
- Real-time connectivity greatly reduces the time and cost of the commissioning period for LEO satellites
- On-demand tasking & control eliminates time delays between connectivity intervals, especially during operational issues, anomalies and urgent task requirements
- End-to-end links, compatible with user defined encryption, keeps data and communications secure
- "On-demand" service means the operator is always connected but only billed for the data volumes that are sent and received
- The operator selects a "data plan" that is shared by the whole constellation
- Efficient pricing (significant price reduction) for large constellations and long service durations

The IDRS terminal

- Small and lightweight, compatible with nano and larger LEO satellites
- Based on proven space flight heritage, and in-orbit tested with the Inmarsat BGAN network
- Functions as a full-duplex IP modern/router at an average of >200 kbps, creating secure and always-on IP based connectivity

Real-time connectivity is

A NEW PARADIGM

For commercial LEO satellite missions

IDRS™ Terminal Specifications

THE i100 TRANSCEIVER

DIMENSIONS	125 × 96 × 70mm³
RELIABILITY	Up to 5 years in orbit
WEIGHT	1 Kg
DATA RATE	Up to 200 kbps
ANTENNA OPTIONS	Directional antenna and Hemispherical Switched antenna options available
POWER CONSUMPTION	RX only, 8 watts RX & TX: 9-10 watts, typical, dependant upon traffic and antenna configuration
SATELLITE INTERFACES	RS-422, Ethernet
IP CONNECTIVITY	Ethernet interface supports the full range of satellite application protocols: FTP, SSH, Telnet, HTTP, etc
TEMPERATURE RANGE	-25 to +55°C, operational -40 to +80°C, storage

CONNECT.
COMMAND.
CONTROL.

Addvalue is a satellite communications company that is dedicated to partnering with you to develop boundless connectivity solutions on the horizon and beyond.

Whatever the market or application, Addvalue's wide range of products, extensive engineering expertise and integration services are sure to offer the right technology to drive enhanced connectivity.

POWERED BY inmarsat

DEVELOPED BY ADDVALUE

IDRS.