



[Press Release]

Space Made Simple: Loft Orbital's LEO Satellite Condominiums to be Enhanced with IDRS™ Always-On technology

Ground-breaking 'Space Infrastructure As a Service' provider Loft Orbital is partnering with LEO communication specialist Addvalue to offer rapid, secure and simplified access to space, enhanced by always available end-user access. As part of this partnership, Loft Orbital has procured multiple Inter-satellite Data Relay Systems (IDRS™). The first Loft Orbital program to feature IDRS is YAM-6, which will launch in Q4 2023. IDRS provides Loft Orbital's customers with constant connectivity to their missions, allowing them to benefit from real-time tasking, increased responsiveness, and highly secure data collection via Inmarsat's exceptionally reliable ELERA L-band geostationary (GEO) satellite network, free from the limitations of earth station scheduling.

Loft Orbital makes space simple by flying customer missions as a service onboard its own standardized satellite platforms. By combining mass-manufactured commodity satellite buses from active production lines with its Hub, a universal interface for payload accommodation and operations, Loft Orbital provides customers with rapid and turnkey mission deployments.

The installation of IDRS™ across Loft Orbital's fleet of satellite platforms unlocks enhanced, on-demand connectivity for the customer payloads housed on these flight-proven satellite buses. Loft Orbital's customers will no longer be limited by



communication session duration or frequency, opening up a significant competitive advantage and new market opportunities by removing limitations on data collection and payload control.

Co-founder and COO of Loft Orbital Alex Greenberg explains, "IDRS expands our service offering by enabling constant access to our satellite infrastructure. Combined with our edge compute capabilities, in which we provide an onboard environment for flying our customers' software applications, IDRS enables our platform to address a wide range of tactical and real-time uses cases for satellite data. In line with our strategy of bulk procuring hardware and holding it in inventory to enable truly off-the-shelf access to space, we have procured multiple IDRS flight models."

Ground-breaking IDRS™ removes much of the need for earth station scheduling, which complicates payload management and typically restricts data flow from low earth orbit satellites. The space-proven IDRS™ solution supports payload access via "always on" 24/7 data connection and transfer services with LEO satellites across all orbital inclinations, up to altitudes of 1000 km via the Inmarsat ELERAsatellite network, which operates at 36000 km.

Tan Khai Pang, CEO of Addvalue, commented, "We're honored to be working with Loft Orbital to provide real-time "always on" access comms for their space condominium customers. By drawing on our proven experience using Inmarsat technology to drive our real-time IDRS™ data relay solution, we can help Loft Orbital customers reliably simplify their payload management."

"Inmarsat is delighted to be the provider of the communications link for Loft Orbital space condominium customers," said Todd McDonell, President of Inmarsat Global Government. "Inmarsat's [ELERA](#) geostationary satellites and global ground network enable command and control of the orbital transfer vehicles in real time via the



Addvalue IDRS™ “always on” link. This ensures that Loft Orbital can deliver time-critical and reliable service to its customers – tenants aboard its fleet of LEO condominium satellites.”

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■ About LOFT ORBITAL

Loft Orbital is a provider of space infrastructure as a service, headquartered in the San Francisco Bay Area. The business operates satellite buses that incorporate customer payloads, with all aspects of the mission, from booking through to launch and operation, offered as an end-to-end service. In addition to offering leased space onboard each mission, its Payload Hubs provide additional capabilities to augment missions such as onboard processing and intersatellite link for persistent access. Customers can request desired payload actions via Cockpit's web app or API. Learn more at www.loftorbital.com



■ About ADDVALUE INNOVATION

Addvalue Innovation Pte Ltd, a wholly-owned subsidiary of SGX Mainboard-listed Addvalue Technologies Ltd (A31), is a leading satellite-based communication solutions company. Addvalue provides state-of-the-art communication terminals for use in space, in the air, at sea and on the ground. The company also offers extensive engineering and integration services. Addvalue's expertise extends far beyond where the world's terrestrial networks end. Whatever the market or application, the company's wide range of satellite-based products and services can offer the right technology to drive enhanced connectivity. Learn more at www.addvaluetech.com

■ About Inmarsat

[Inmarsat](#) delivers world leading, innovative, advanced and exceptionally reliable global, mobile communications across the world – in the air, at sea and on land - that are enabling a new generation of commercial, [government](#) and mission-critical services. Inmarsat is powering the digitalisation of the [maritime industry](#), making operations more efficient and safer than ever before. It is driving a new era of inflight passenger services for [aviation](#), while ensuring that aircraft can fly with maximum efficiency and safety. Furthermore, Inmarsat is [enabling the rapid expansion of the Internet of Things](#) (IoT) and enabling the next wave of world-changing technologies that will underpin the connected society and help build a sustainable future. And now Inmarsat is developing the first-of-its-kind, multi-dimensional communications network of the future, [ORCHESTRA](#).

In November 2021, Inmarsat and Viasat [announced the planned combination of the two companies](#), to create a new leader in global communications. The deal is scheduled to close in the second half of 2022.

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