[Press Release]

Connected autonomy: how Addvalue's IDRS keeps in-orbit servicing robots within reach

Always-on connectivity supported Katalyst Space's recent LINK mission, positioning IDRS as key infrastructure for the emerging satellite servicing market

SINGAPORE, 17 November 2026: As in-orbit servicing gathers pace, Addvalue's Inter-satellite Data Relay Service (IDRS) keeps important missions connected. One use case is Katalyst Space's LINK robotic spacecraft, which utilized IDRS' always-on connectivity throughout its 85 days on orbit. The mission marks an important proof point for IDRS in in-orbit servicing, one of the fastest-emerging segments of the space economy.

The traditional space operating model of launch it, operate it, decommission it and replace it is being challenged. NASA has spent years developing technologies to refuel, repair, upgrade and relocate spacecraft, and its ISAM consortium is working with industry to make these capabilities routine. Similarly, ESA has set out a long-term ambition for a circular economy in space, built on in-orbit servicing, refuelling, maintenance, repair, reuse and recycling.

For many smaller, lower-cost spacecraft, replacement will continue to make commercial sense. But for high-value, longer-life assets, the economics are very different. Extending a satellite's working life, upgrading its technology or moving it to a new orbital position could be considerably more compelling than replacing it.

Robotic servicing missions are among the most operationally demanding in space. These spacecraft must travel between orbits, rendezvous with targets that may never have been designed to be serviced, and work in close proximity to valuable assets, where one misjudged manoeuvre could be costly. In a market this new, many missions are first attempts with no established playbook, and things in orbit rarely go exactly to plan. When the unexpected

happens, as it often does, mission teams need to see what is going on and act immediately, rather than waiting for the next ground-station pass to gather data and execute responses.

Katalyst Space recently showcased exactly how fast the industry can adapt to real-world situations. Its robotic spacecraft, LINK, went from contract to launch in nine months in an attempt to raise the orbit of NASA's Swift Observatory, providing a real-world test of robotic operations around an existing, unprepared spacecraft. LINK's IDRS connection supported the Katalyst team in maintaining visibility of the spacecraft and uploading flight software in real time. Katalyst's data from LINK is now informing Katalyst's multi-mission robotic servicing spacecraft, known as NEXUS. The NEXUS spacecraft is designed to perform a range of on-orbit operations, with capabilities including RPO, robotics, and maneuvering.

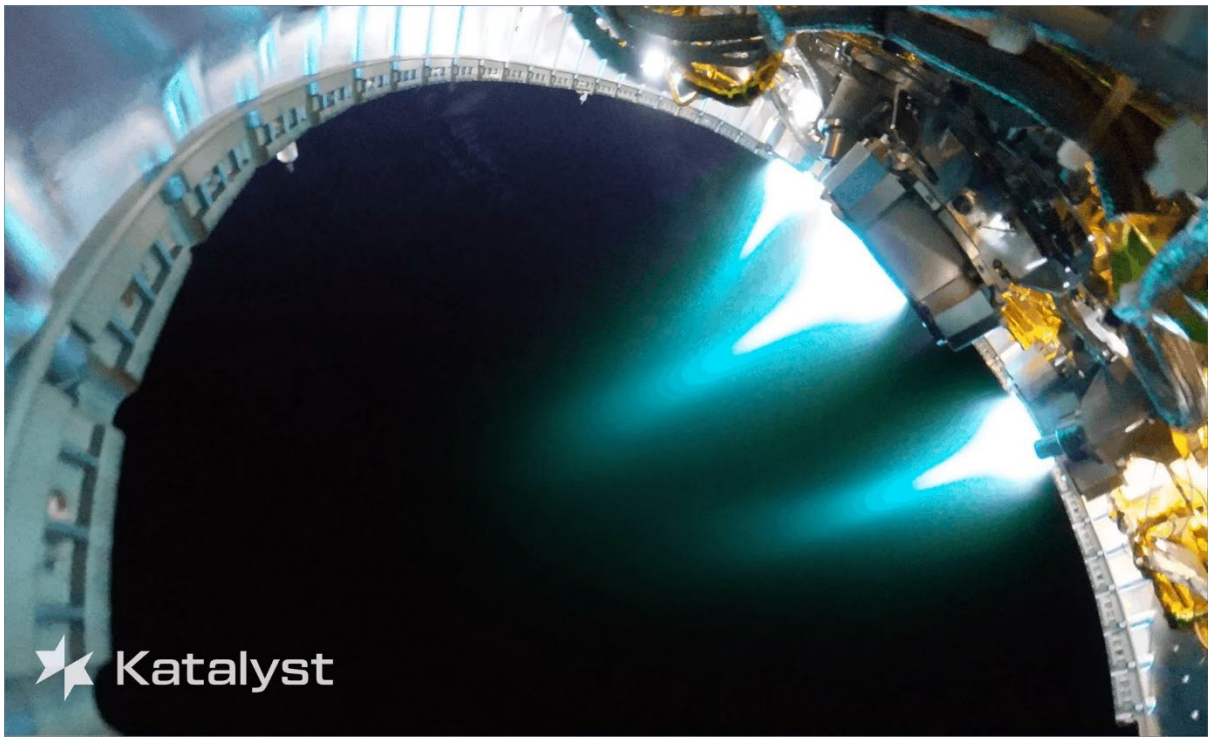
"*The future of space will require spacecraft that can do more once they get there. At Katalyst, we're building that future by developing multi-mission, end-to-end complex robotic spacecraft. As we apply lessons from LINK to NEXUS, our production robotic platform, reliable communications will remain an important component of our missions,*" said **Ghonhee Lee, CEO of Katalyst Space**.

Addvalue CEO Khai Pang Tan said, "*In-orbit servicing is one of the most demanding environments for connectivity in space. Servicing operators need to stay in contact with their spacecraft wherever the mission goes, and that is exactly what IDRS is built to do: always on, always connected, keeping the spacecraft and its operators within reach. Katalyst's LINK mission showed what that looks like in practice. As operators move from demonstration missions towards multi-mission platforms like NEXUS, that persistent connection becomes essential. It's what allows autonomy and human oversight to work together.*"

IDRS delivers always-on IP connectivity to spacecraft in low Earth orbit, providing 24/7 coverage with no need to pre-schedule contact or wait for a ground-station pass.

As the economics of space shift from Launch, Use and Replace to **Launch, Use, Maintain, Upgrade and Reuse**, Addvalue sees in-orbit servicing as a significant growth market for

IDRS. Katalyst is one of the key players building the robotic spacecraft that will do this work. As robotic servicing takes off, Addvalue will keep these space robots connected.



Credit: Katalyst Space Technologies

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■ About Addvalue

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