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PRESS RELEASE

TELESAT AND NEWTEC SUCCESSFULLY COMPLETE OVER-THE-AIR TESTING ON TELESAT'S FIRST LEO SATELLITE

Newtec's high-throughput modems achieved flawless operation, delivering highly reliable services with no packet loss under high Doppler conditions

SINT-NIKLAAS, Belgium, 8 October 2018 – Newtec, a specialist in the design, development and manufacture of equipment for satellite communications, today announced its modems have become the first to be successfully tested over-the-air on Telesat's inaugural Low Earth Orbit (LEO) satellite.

Telesat's Phase 1 LEO satellite was launched on January 12, 2018, and the company is now conducting live demonstrations of its capabilities – an important milestone in Telesat's plans to deploy a global LEO constellation that will revolutionize broadband communications around the world. Testing of the Ka-band payload is ongoing and Newtec's technology is being used to demonstrate different service scenarios. The latest trials saw test user traffic successfully passed over the satellite via Newtec modems, showing that flawless operation without packet loss can be achieved on LEO constellations.

Newtec's modems were installed for the project at Telesat's Allan Park facility in September. Telesat expects to conduct live phase 1 LEO testing with its customers in the coming weeks.

Telesat's unique LEO constellation will combine the company's global spectrum rights in Ka-band with Telesat's proprietary LEO architecture to transform global communications. The constellation is designed to deliver an unsurpassed combination of capacity, speed, security, resiliency, latency and low cost, delivering affordable fiber quality connectivity everywhere. Once fully deployed, Telesat LEO will accelerate 4G/5G expansion, bridge the digital divide with fiber-like high-speed services into rural and remote communities, and set new levels of performance for commercial and government broadband on land, sea and in the air.

"Telesat is pleased to collaborate with high technology vendors such as Newtec to validate key performance aspects of our LEO system design. Our state-of-the-art LEO constellation will combine Telesat's global spectrum rights in Ka-band with our proprietary LEO architecture to provide fiber-like broadband performance where terrestrial networks cannot reach," said **Dave Wendling, Telesat's Chief Technical Officer**. *"This latest round of testing marks a significant step towards the future, showing that advanced modem technology, which works seamlessly with LEO satellites, is already available on the market today."*

According to Northern Sky Research (NSR), wholesale operator revenue from non-geostationary constellations, such as Telesat LEO, is expected to post a compound annual growth rate of over 40% during the next decade. The benefits of non-geostationary satellites include very high-throughput, service reliability, cost-effectiveness, low latency and overall superior broadband performance.

"LEO is a technology we watch closely, and we are pleased that our modems have been able to support Telesat on this important technology proof," said **Frederik Simoens, Chief Technology Officer at Newtec**. "*The testing process began with small-scale tests and we have been working our way up throughout the process, with these latest tests showing the potential of LEOs in efficiently and reliably delivering end-user traffic. Our modem portfolio, combined with next-generation on-board technologies, is ideally suited to bring maximum efficiency and throughput."*

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Your Contact

Newtec
Els Baele
Marketing Director
+32 485 59 16 09
Els.Baele@newtec.eu

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About Newtec

Newtec, www.newtec.eu, is specialized in designing, developing and manufacturing equipment and technologies for satellite communications. As a pioneer in the industry, Newtec is dedicated to creating new possibilities for the broadcast, consumer and enterprise VSAT, government, cellular backhaul and trunking and mobility, offshore and maritime markets. Our products and technologies can be applied in a wide range of single and multiservice applications from DTH broadcasting, video contribution and distribution and disaster recovery and backbones for cellular backhauling, to small and medium enterprises, SCADA and oil and gas networks, aircrafts and vessels.

Since 1985, our dedicated team of specialists has set industry standards with the most efficient, scalable and economical technology solutions. New challenges and customer needs offer opportunities to explore new boundaries. This empowers us to work even harder, helping customers to perform their best so that, together, we can make the world a safer, more informed and connected place. As a result, more than 3 billion people watch TV every day thanks to Newtec technology.

Newtec is a European company headquartered in Sint-Niklaas, Belgium. Through additional commercial offices in Dubai (UAE), Singapore, Beijing (China), Sao Paulo (Brazil) and Stamford, CT (USA) as well as an extensive network of over 100 certified partners, Newtec can meet customer's needs worldwide.