

**NOVELSAT and Spacecom Exhibit World's Highest Spectral Efficiency over AMOS-17****High-Capacity Data Link Exceeded 10 bit/Hertz**

**Ra'anana and Ramat Gan, Israel – September 14, 2020** – NOVELSAT, a global leader in content connectivity over satellite, and Spacecom (TASE: SCC), operator of the AMOS satellite fleet, announced today the successful demonstration of high-capacity satellite transmission with spectral efficiency of 10.5 bit/Hz over AMOS-17 high performance HTS utilizing NOVELSAT DUET™ CECT™ (carrier-echo-cancellation) band reuse technology.

Operating over AMOS-17 Ka HTS and Ku beams, NOVELSAT modems established a symmetrical link, reaching 64APSK modulation with 9/10 FEC rate and 2% roll-off, achieving data rate of 854Mbps over of 81.6MHz bandwidth and 753Mbps over 72MHz bandwidth, demonstrating spectral efficiency of 10.5 bit/Hz.

This extraordinary performance was achieved without any power backoff or additional satellite padding, and without requiring predistortion calibration. Connected to a 2.4m diameter antenna, the remote modem performed carrier-echo-cancellation, enabling simultaneous use of the same bandwidth for both uplink and downlink with implementation loss lower than 0.01dB.

“NOVELSAT NS4™ waveform has proven to bring tremendous value to our customers and we are happy to demonstrate its outstanding performance over the advanced fully digital AMOS 17 satellite,” said Aviv Ronai, VP Marketing and Product at NOVELSAT. “Our technological superiority makes our satellite connectivity solutions the ideal, go-to-choice for service providers worldwide who are looking to efficiently support their most demanding applications.”

According to Amit Hoomash, Product Manager at Spacecom, “We were excited to demonstrate with NOVELSAT the very high throughput our customers can enjoy on AMOS-17, without having to compromise on solution complexity. The throughput and efficiencies of AMOS-17's beams are unique over Sub Saharan Africa. NOVELSAT'S modems and team proved this, while using one modem per site and small antenna. Together with NOVELSAT, we are able to address important market segments with cost-effective, easy to deploy and maintain solutions.”

**About NOVELSAT**

NOVELSAT is a leading provider of next-generation content connectivity solutions. Powered by innovative technologies, our broadcast and broadband solutions are transforming networks' capabilities to expand growth potential and to drive new experiences on any device, anytime, anywhere. Our high-performance products for satellite and terrestrial content connectivity include integrated video solutions and highly efficient broadband connectivity solutions, as well as best-in-industry content security solutions. Transforming delivery of data and video with new levels of performance, efficiency, agility, and security, NOVELSAT empowers mission-critical and demanding applications for the telecom, enterprise, media, entertainment, government, and mobility markets. For more information visit [www.novelsat.com](http://www.novelsat.com)



