NOVELSAT Introduces LIBRA Dynamic Capacity Allocation Solution for Point-to-Multipoint Satellite Networks

New solution dynamically allocates real-time satellite capacity without remote terminal disconnection.

Ra'anana, Israel, March 8, 2018 – NOVELSAT, a world leader in satellite transmission technology, today announced the availability of NOVELSAT LIBRA, a new satellite network management engine that seamlessly provides real-time space segment capacity allocation without remote terminal disconnection or data loss. NOVELSAT LIBRA is based on SCPC architecture and a suite of NOVELSAT hardware and software that is optimized for Point-to-Multipoint satellite networks. This solution is designed to help satellite network operators ensure the best user experience in applications including IP trunking, cellular backhaul, oil & gas, military, maritime and homeland security.

SCPC-based satellite network architecture delivers guaranteed bandwidth, with low latency and low jitter, from a hub to multiple remote sites. These are necessary benefits for meeting Service Level Agreements (SLAs) in real-time applications such as VoIP, video conferencing, broadcast and Internet services. SCPC, however, leaves bandwidth unused when remote links are not fully loaded or are offline. On the other hand, TDMA-based networks offer more efficient satellite bandwidth utilization, but without the quality of SCPC.

NOVELSAT LIBRA provides network operators with a flexible solution for offering high quality Point-To-MultiPoint communication links which can be adjusted instantaneously based on dynamic usage demands. With this solution, a service manager can announce a different service capacity scenario for each site or group of sites; A site can have a Committed Info Rate (CIR) at all times, or a CIR with the option to increase capacity once available. In a third scenario, a remote site's capacity can be defined to fall to a Minimum Information Rate if the site is lightly loaded or, alternatively, increase to a Maximum Information Rate if the site is overloaded. NOVELSAT LIBRA can accomplish this all automatically with zero data loss and without disconnection.

The NOVELSAT LIBRA management terminal monitors and manages the remote terminals' resource utilization according to different scenarios per application, data load, pre-determined schedule, Quality of Service (QoS) rules, or manually using the NovelNet (NOVELSAT Network Management System) console.

NOVELSAT LIBRA Dashboard

NOVELSAT LIBRA is part of NOVELSAT Xnet – an optimized platform for Point-To-Multipoint satellite data links. It includes the NOVELSAT NS-HUB4000 Multi Rx IP demodulator Platform, NovelNet Network Management System and NOVELSAT NS3000/300X Satellite Modem series.

"For Point-to-Mulitpoint satellite networks, NOVELSAT LIBRA offers the best of two worlds: the efficiency of dynamically allocated satellite resources and uninterrupted link quality," said Itzik Wulkan, NOVELSAT CEO. "Together with the unmatched spectral efficiency of the NOVELSAT NS4 waveform and other NOVELSAT solutions such as the newly announced ProtCASTER data protection platform, our customers truly say that they have the most cost-effective satellite networks."

NOVELSAT will be showcasing LIBRA, its new dynamic resource allocation solution for satellite networks, at the Satellite 2018 show in Washington, DC, March 12-15, in booth 1833.

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