Lockheed Martin Australia Wins Billion-dollar SouthPAN Contract

Lockheed Martin Australia has announced it will work with Geoscience Australia and the New Zealand government to improve the accuracy of GPS signals across Australasia.

The company has won a $1.18 billion contract to support and improve the operation and accuracy of the Southern Positioning Augmentation Network (SouthPAN).

The deal is set to last 19 years and aims to deliver “instant, accurate and reliable positioning” to industry and community users across both Australia and New Zealand.

Specifically, the SouthPAN initiative involves delivery of a signal augmenting GPS and Galileo, designed to improve accuracy from 5-10 metres, to within as little as 10 centimetres.

Lockheed Martin will work with the Toitū Te Whenua Land Information New Zealand (LINZ) department and Geoscience Australia under the Australia New Zealand Science, Research and Innovation Cooperation agreement to facilitate the delivery of the project.

The enhanced position capability being delivered by the project is expected to be leveraged by a range of users across various industries, including civil aviation, general vehicle guidance, maritime shipping tracking, drone and UAV navigation, as well as numerous uses in the agricultural industry.

Read more in *article*…

https://www.spaceconnectonline.com.au/situational-awareness/5613-lockheed-martin-australia-wins-billion-dollar-southpan-contract?utm_source=undefined&utm_campaign=19_09_22&utm_medium=email&utm_content=1&utm_emailID=7b4c7db616168fe865f3a2f96500fa1904548b5145c6ae1709d81f43459c19a2

2022-09-19

Industry Decries Lack of Leadership on GPS Backup, China, Russia Threats

Citing more than 10 years of government studies, warnings and promises, representatives from a wide variety of industries criticised the government recently for doing little to address an important national security problem.

At issue was the need for national backup capabilities for GPS and the essential positioning, navigation, and timing (PNT) signals it provides.

GPS signals are weak and easy to block or imitate. At the same time the signals are used by most technologies including networks, telecommunications, electrical grids, broadcast, mobile radios, transportation, and other critical infrastructures.

After Russia threatened to destroy all GPS satellites in 2021 in its run-up to invading Ukraine, a member of the White House National Security Council told a public meeting “GPS is still a single point of failure” for the nation.

The government was criticized for inaction at a “Complementary PNT Roundtable” hosted by the Department of Transportation (DOT) in early August. The department is the federal lead for civil GPS and PNT issues.

Read more in *GPS World* article. https://www.gpsworld.com/industry-decries-lack-of-leadership-on-gps-backup-china-russia-threats/

2022-09-17

Fully Operational Galileo PRS Edges Closer

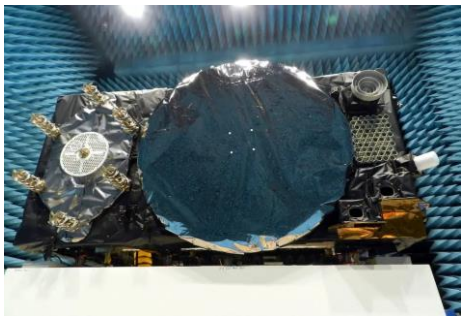
ESA has completed the first-ever, end-to-end testing of the Galileo system, demonstrating acquisition of an improved version of the Public Regulated Service (PRS) signal.

ESA calls the Galileo PRS the most secure and robust class of Galileo services. It is an encrypted navigation and timing service for governmental authorized users and sensitive applications and is designed to remain available even in scenarios where other Galileo services might be degraded, deliberately or otherwise.

The testing campaign involved three key facilities: the Galileo Security Monitoring Center in Spain, the Galileo Control Center in Germany and ESA's European Space Research and Technology Centre (ESTEC) in the Netherlands.

Read more in *Inside GNSS* article. https://insidegnss.com/fully-operational-galileo-prs-edges-closer/

2022-09-15



Raytheon Awarded FAA Contract to Upgrade WAAS to Dual-frequency

Raytheon Intelligence & Space, a Raytheon Technologies business, has been awarded a competitive indefinite-delivery, indefinite-quantity contract from the Federal Aviation Administration with a ceiling value of $375 million over the next 10 years.

Task orders, valued at $215 million, were executed at contract award to provide technical refresh and dual-frequency operation (DFO) upgrades to the FAA's Wide-

Area Augmentation System (WAAS) to provide safer air travel in support of the National Airspace System.

WAAS monitors and evaluates all GPS signals over North America to enable pilots to fly using augmented GPS data for safety-of-life missions such as precision landing and enroute navigation. The system allows pilots to safely land in places previously inaccessible because of the airport location or weather. It also makes airports without ground-based navigation available to pilots.

Under the WAAS DFO-2 contract, Raytheon will deliver more modern, and therefore sustainable, processing, system security, and network architecture, while also adding dual-frequency service.

Read more in *Spatial Source* article.
https://www.gpsworld.com/raytheon-awarded-faa-contract-to-upgrade-waas-to-dual-frequency/?utm_source=Navigate%21+Weekly+GNSS+News&utm_medium=Newsletter&utm_campaign=NCMCD220914002&oly_enc_id=1784A2382467C6V
2022-09-17

Two New Galileo Satellites Deliver Improved Signals

Europe has deployed two new Galileo satellites within its constellation, adding to the existing 26 operational satellites in orbit. The entry into service of satellites 27 and 28 follows an exhaustive 2022 testing campaign. In a recent communication, the European Space agency (ESA) said the new deployment will result in a measurable increase in positioning accuracy and improved overall performance of the Galileo system.

The new satellites were launched at the end of last year (December 2021),. They underwent an in-orbit, test review at the end of April 2022, carried out jointly by ESA, satellite manufacturer OHB and navigation payload manufacturer Surrey Satellite Technology Ltd (SSTL). At that time, the payloads were found to be performing extremely well, ‘among the best in the entire constellation’, ESA noted. A further in-orbit, test review of systems and operations was then undertaken by ESA and EUSPA, the EU Agency for the Space Program, showing similar results.

The two new satellites are the first to broadcast Galileo’s new and improved navigation message.

Read more in *Inside GNSS* article. https://insidegnss.com/two-new-galileo-satellites-deliver-improved-signals/

2022-09-07