Veripos Extends Apex GNSS Positioning Service

Veripos (UK) has extended its Apex service with introduction of Apex5 which is capable of securing observations from five available satellite constellations comprising GPS, Glonass, Beidou, Galileo and QZSS. Using Precise Point Positioning (PPP) methods for correction or modelling of all GNSS error sources, the multi-constellation service with access to increased civilian signals via interoperable networks ensures increased levels of observation and redundancy.

Other advantages include improved satellite count and position availability, particularly in masked and scintillated environments.

Operations are based on Veripos's own orbit and clock determination system (OCDS) which derives real-time corrections for all available satellite constellations using advanced state-of-the-art proprietary algorithms. The OCDS in turn uses data from the company's own global network of reference stations with multiple and redundant systems supported by dedicated network control centres in Aberdeen and Singapore.

Apex5 is broadcast alongside existing Veripos Apex and Apex2 Ultra services via seven geostationary satellites to ensure continuous availability and service redundancy. Typical position accuracies are better than 5cm horizontal at the two sigma (95%) confidence level.

https://www.hydro-international.com/content/news/veripos-extends-apex-gnss-positioning-service