

IBC 2016: Eutelsat steps up signal integrity with new single-satellite geolocation solution

Siemens Convergence Creators one-satellite interference localisation goes live for one of the world's leading satellite operators

Amsterdam, Paris, 10 September 2016 – Eutelsat Communications (NYSE Euronext Paris: ETL) has validated the performance of a unique one-satellite geolocation solution that is now being deployed across its global monitoring network. The SIECAMs® ILS ONE service developed by Siemens Convergence Creators assists in the localisation of interference signals without the need for an adjacent satellite, thereby increasing Eutelsat's ability to intervene in the event of accidental or deliberate interference to customer signals.

Preconditions of traditional geolocation methods

Existing satellite geolocation systems call for at least two geostationary satellites in close proximity to obtain sufficient crosstalk for reliable geolocation signal processing. Crosstalk on an adjacent satellite needs to be within the same frequency range and polarisation as the interference signal on the affected satellite. Even for multi-satellite operators some satellites are isolated in terms of uplink frequency ranges, polarisation and footprint. This is especially true for Ka-band satellites where crosstalk is either not applicable or too small to be measurable.

When a suitable adjacent satellite is within reach, operators still need to know exact position and velocities - or ephemeris data - for accurate geolocation. This can only be guaranteed if affected and adjacent satellites are operated by the same provider, or if providers share operational parameters.

With all of these preconditions, traditional geolocation tools, although frequently effective, cannot respond to all incidents, driving Eutelsat to seek improved capabilities.

One satellite is all you need

Eutelsat's deployment of SIECAMs® ILS ONE is driven by the system's ability to analyse signal distortions that are primarily caused by satellite movement, atmospheric or weather influences and other environmental factors. By comparing signal distortions of the interference signal with

known signals, using patented quantum correlation algorithms, SIECAMs® ILS ONE is able to identify the area of the interference source and thereby radically improve successful resolution of interference issues.

Mark Rawlins, Eutelsat's Director of the Communications System Control Centre, stated: *"Having validated proof of concept, we are confidently deploying the unique one-satellite interference detection system developed by Siemens Convergence Creators and are very pleased with the first results. We are enhancing our ability to localise interfering signals transmitted to our global fleet of satellites so that customers from South America to Asia Pacific can benefit from even more reliable and secure communications. As the first operator to take on board this solution we are adding more weight to our efforts to combat both accidental and deliberate interference."*

SIECAMs® ILS ONE was developed with the support of ESA through the ARTES Competitiveness and Growth programme.

Where to meet Eutelsat at IBC, from September 9 to 13: Hall 1D.59

For more information about Siemens Convergence Creators please visit www.convergence-creators.siemens.com

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About Eutelsat Communications

Established in 1977, Eutelsat Communications (Euronext Paris: ETL, ISIN code: FR0010221234) is one of the world's leading and most experienced operators of communications satellites. The company provides capacity on 39 satellites to clients that include broadcasters and broadcasting associations, pay-TV operators, video, data and Internet service providers, enterprises and government agencies. Eutelsat's satellites provide ubiquitous coverage of Europe, the Middle East, Africa, Asia-Pacific and the Americas, enabling video, data, broadband and government communications to be established irrespective of a user's location. Headquartered in Paris, with offices and teleports around the globe, Eutelsat represents a workforce of 1,000 men and women from 37 countries who are experts in their fields and work with clients to deliver the highest quality of service.

For more about Eutelsat please visit www.eutelsat.com

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