

Satellite Geolocation Service

Enabling satellite operators and service providers to tackle satellite interference with no upfront investment or operational costs

For satellite operators, the ability to quickly identify and mitigate interference - intentional or not - is crucial to protect the core functionality of their most valuable assets and ensure flawless satellite service operations.

When satellite interference occurs it can be devastating to end-users, whether in homes, businesses, or governments, because it undermines the integrity of satellite communication and compromises the most important feature of communication satellites: secure and reliable communication that is independent of the constraints of ground-based data highways.

With the increase in satellite communication around the world, satellite operators and service providers are more and more challenged by interference problems on their satellites.

Interference that impairs signal quality and availability is a direct threat to their business models and revenues - and may even result in penalties.



- Nearly 100% worldwide coverage which eclipses competitors who only reach 60-70% coverage
- Success rates above 60% while traditional systems typically do not exceed success rates of 30-40%
- Support of L-band, C-band, Ku-band and on some stations even Ka-band

The statements have been verified to the best of our knowledge and belief as of 1 Dec 2016

Interference mitigation needs high-quality tools and staff

Until now, satellite operators had to invest in high-quality geolocation tools and personnel training to enable their own staff to identify, locate and reduce or eliminate sources of interference in order to avoid potential damage claims and the risk of losing customers. Even so, locating the origin of an interference may take days, weeks or even months.

Furthermore, because the number of satellite users and satellites positioned in geostationary orbit has increased continuously in recent years, the number of interference incidents is also growing. Several hundred of these events are recorded every year, and this number is likely to rise even more as traffic increases.

However, the chances of successful interference mitigation dramatically increase with the availability of the latest tools and correspondingly trained staff. Atos Convergence Creators has created the Satellite Geolocation Service to help operators provide the service quality guaranteed to their customers with neither upfront investment nor operational costs.

The entire SIECAMS® toolbox at operators' fingertips

As one of the global market leaders, Atos' product SIECAMS® is the most complete and effective toolbox for satellite operators facing interference today.

The Satellite Geolocation Service uses the entire SIECAMS® toolbox for interference localization, which currently consists of:

- The powerful carrier-monitoring and interference-detection tool SIECAMS® CMS
- The carrier-ID detection tool SIECAMS® CID
- The classic geolocation system SIECAMS® ILS
- The world's first real working single-satellite geolocation system SIECAMS® ILS ONE

Because the service is provided and operated by correspondingly trained staff at Atos, all the benefits are available without the need for upfront investment in infrastructure and staff. Customers confronted with interference just need to provide very basic information about the affected satellite and transponders to initiate the Satellite Geolocation Service.

The Satellite Geolocation Service can be ordered on demand for individual interference events, or via yearly subscription including a contingent of interference localization instances.

Major benefits of the Satellite Geolocation Service

1. No upfront investment and no running costs for necessary infrastructure and personnel.
2. Nine separate ground stations spread over the globe are used to achieve worldwide coverage. Very high hit rate thanks to the world's first single-satellite geolocation system (SIECAMS® ILS ONE).
3. Supports all frequency bands: L-band, C-band, Ku-, and even Ka-band.
4. Designed to support requirements from different types of customers: Satellite and service operators, regulators, military and government entities.

With Atos' Satellite Geolocation Service, customers have the highly effective SIECAMS® toolbox at their fingertips. The new service enables them to localize interferences with no upfront investment or operating costs at extraordinarily high success rates to ensure flawless satellite service operations.



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