



Siemens Convergence Creators

– the global communication technology partner for the digital age. We combine groundbreaking innovation and decades of experience to provide intelligent solutions to a variety of industries, bridging the gap between technology, processes, and services. By seizing new opportunities from converging communication and designing solutions, we improve efficiency and grow revenue for our customers. We engineer opportunities that turn visions into reality

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Subject to change without prior notice. The information in this document contains general descriptions of the technical options available, which may not apply in all cases. The required technical options should therefore be specified in the contract.

Contact for technical and commercial information:

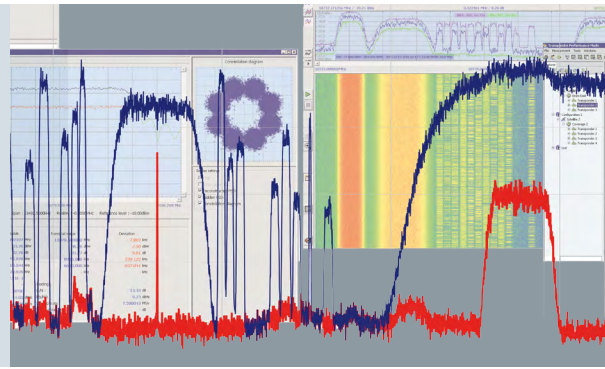
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SIECAMS®

Siemens Carrier Monitoring and Geolocation Systems

Siemens Convergence Creators

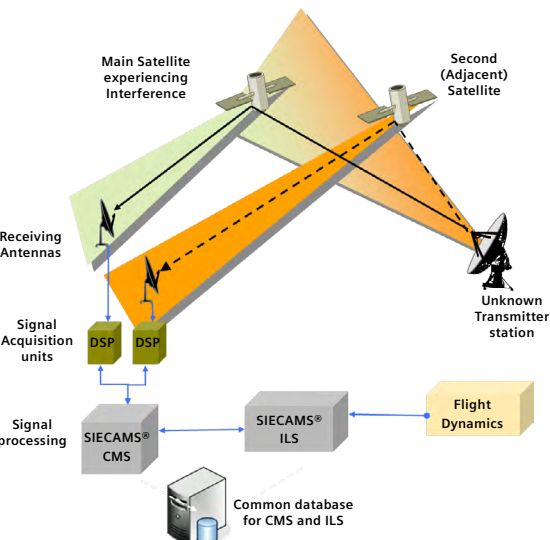


Interference Localization

The interference localization system is seamlessly integrated in SIECAMS. Therefore, the system provides not only geolocation but also advanced interference detection and classification functionality.

Furthermore this combination offers a high level of usability in terms of

- System configuration (satellite connectivity, carrier detection, etc.) and reduced setup time
- Advanced geolocation functionalities like continuous measurements to improve accuracy
- Localization of hidden interferers
- Immediate data acquisition to capture short term interferers
- Interference classification based on advanced signal analysis



Carrier Monitoring & Signal Analysis

Adjacent Satellite Interference

- Passive measurement of adjacent satellite traffic discrimination
- Measurement without interruption of operational services
- Independent of noise and reverse adjacent satellite crosstalk

Transponder Performance

- Passive gain transfer curve measurement (no interruption of operational services, non intrusive)
- Displays operating and saturation point
- IBO / OBO measurement
- Provides AM/AM and AM/PM curve

Hidden Interference

- Troubleshooting of problems like cross-polarization interference
- Interference detection and characterization while the affected carrier remains in service
- Detection of interferers hidden behind one carrier or hidden behind several other carriers
- Demodulation and characterization of hidden interferers

Ka-band Monitoring

- Instantaneous measurement/demodulation of transponder signals with up to 350 MHz bandwidth

Interference Localization with one satellite

SIECAMS® ILS ONE puts next-generation geolocation at the fingertips of satellite operators right now. It overcomes the limitations and complexity of existing interference localization tools and is an ideal solution for the reliable operation of satellites, regardless of their distance to adjacent satellites.

Carrier-Id (DVB-CID) detection

SIECAMS® CID doesn't just eliminate the need for investments in specialized hardware like additional demodulators. It is also the fastest system on the market to recognize Carrier ID, by far exceeding the capabilities of third-party demodulators. Carrier ID can also be detected using the standard SIECAMS® carrier monitoring functionality. Operators can thus resolve transmission issues much more quickly from the outset, saving both time and money in the process.

Content Monitoring

The fully integrated Content monitoring functionality enables real-time monitoring of the quality of audio and video signals. It provides simultaneous live measurements of MPEG-2 and H.264 video sources, both in SD and HD quality.

The mosaic display provides all relevant information on one screen. Several channels can be viewed simultaneously. Multiple audio bars are available as well as overlaid event messages.