

CNS SERVICES, SAFEGUARDING & OPTIMIZATION

The commissioning, operation and evolution of Communication, Navigation and Surveillance (CNS) systems presents ANSP's with a variety of challenges. Skyguide, being an ANSP itself, has gained a strong and well-recognized experience in this domain and offers this expertise to any organization which is looking for a support in this complex environment.



Typical areas of expertise are CNS radio spectrum safeguarding and obstacle assessments (such as wind turbines, buildings, cranes), radio coverage simulations and measurements, network and architecture optimization (such as the PBN/RNAV/RNP, GBAS, GNSS, DME-DME and MLAT-WAM technologies) as well as all relevant international regulation aspects around these topics.



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Our expertise:

CNS Safeguarding

- Prediction of interference on CNS Systems (e.g. VOR, ILS, DME, COM, Surveillance) caused by buildings and objects (e.g. cranes, high power lines) with state-of-the-art electromagnetic simulation
- Interpretation and application of ICAO EUR DOC 015 protection surfaces
- Wind turbine impact assessment
- Elaboration of mitigation solutions

Coverage Simulation considering topography

- COM field strength simulation according ICAO Annex10
- NAVAIDS line of sight and field strength
- GBAS VDF coverage according ICAO Annex 10
- RADAR line of sight assessment

Performance Assessment for PBN/RNAV/RNP

- GNSS (GPS, EGNOS), DME/DME
- Topography elevation analysis, radio horizon
- Predicted dilution of precision and protection level

MLAT/WAM Performance Analysis

- Topography elevation analysis, radio horizon
- Predicted dilution of precision, position accuracy

Your Benefits:

- Strong technical and regulatory expertise on legacy and next generation CNS Systems
- State-of-the-art methods
- Support tailored to your needs

Do not hesitate to contact us with your specific needs.



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