

The expansion of RNP-AR procedures in the world led ENAC and CGX to develop a system predicting the GPS RAIM availability for a given point, or group of trajectories from a given aerodrome.

SAT4Flight®

Developed by CGX and ENAC - Distributed by AIRBUS

SAT4Flight® is a web service assisting airline operators to prepare the flight plan for RNP-AR procedures (SAAAR).

According to the satellite constellation, it allows the operator to check if there is sufficient navigation precision to fly the procedure during the time planned within the flight plan.

SAT4Flight® offers various and exhaustive prediction services.

Aerodrome single point prediction service

- > The predictions are done on a user predefined ARP list (Aerodrome Reference Point), using customizable input parameters.
- > The ARPs are automatically extracted from an up-to-date database.

En-route prediction service

- > Predictions are performed on user en-route routes, defined from a five-letter waypoints database and point to point flight durations.

Terminal trajectories prediction service

- > Predictions are performed on one or several terminal trajectories (SID, STAR or IAP).

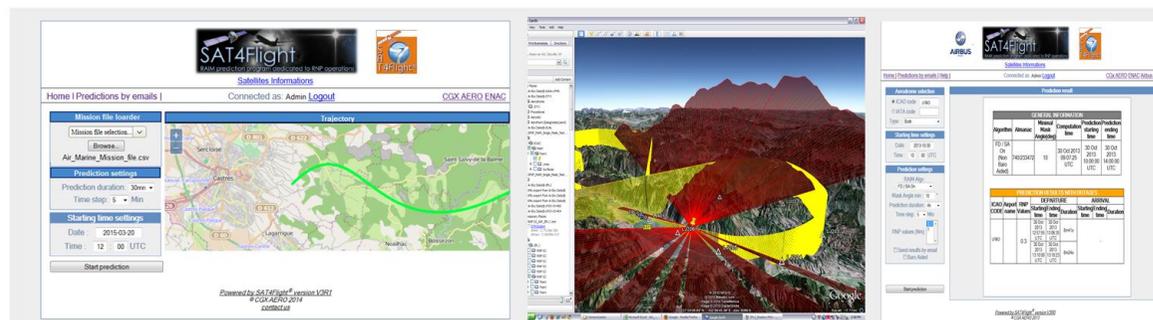
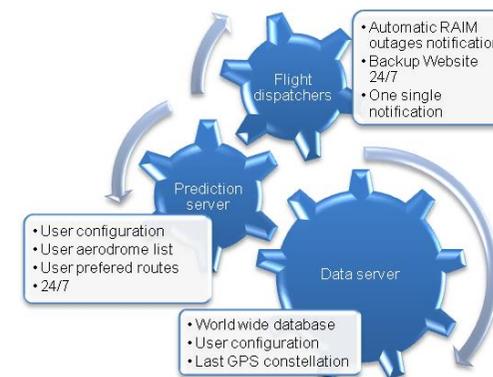
SAT4Flight® website

- > The website offers an excellent alternative to the standard web service providing an elegant interface for ease of use.
- > It offers several highly precise tools enabling dispatchers to analyse signal availability for trajectories and identify outages most flight paths.
- > Through a secured access, it offers a user-friendly interface for airline operators or pilots to compute predictions concerning the desired time period with results presented visually in a geographic display.

SAT4Flight® benefits

- > It provides a complete, reliable, and secure service on a 24/7 basis, on high availability equipment.
- > Development according to the DO178 standards (analysis and calculation module) and DO229C (prediction module).

- > Management of landscape relief and of topographic data for the leading ground functions thanks to CGX expertise in development of aeronautical software tools and Geographical Information Systems (GIS) integration.
- > ENAC and CGX strong expertise in procedures design, in particular RNP AR.
- > ENAC expertise in GNSS technologies (through ENAC telecom lab).
- > Collaboration with Airbus ProSky for validation and tests.



Speak with a product specialist



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