



Quarter 1 2012, Issue N° 2

## Words from ESSP President

Welcome to the second issue of the EGNOS Bulletin, wishing a year 2012 full of projects and success!

This EGNOS Bulletin summarizes the latest news regarding the EGNOS system, its services and applications. Its intention is to offer the EGNOS users and stakeholders updated information on what is going on within the EGNOS world.

We hope you find this Bulletin useful. Should you have any comments or suggestions, we'll be delighted to receive them on:

[communication@essp-sas.eu](mailto:communication@essp-sas.eu)

Dirk Werquin/ ESSP President

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**EGNOS IS THERE, USE IT!**

## Status of the EGNOS implementation in aviation

### France LPV Implementation Plan for 2012

The French ANSP (DGAC/DSNA) has already announced its plans for **EGNOS** LPV procedures implementation within its territory in 2012 →

Total number of French Airports impacted: 38

To read the following map:

- Red frame Airports with already published LPV procedures
- Circles ○ : Expected publication in 2012
- **Green**: Military Airports that will have EGNOS procedures



## UK Channel Islands procedures

As of December 7<sup>th</sup>, two **EGNOS** based LPV approach procedures (RNAV GNSS approaches to LPV minima) are available at **Alderney Airport** (EGJA), the only airport on the island of Alderney in the Bailiwick of Guernsey, a British Crown dependency in the Channel Islands.

This is the first time that an EGNOS procedure is published outside the frame of the Single European Sky (SES). The activities leading to the publication of these LPV procedures\*, in close collaboration with NATS, are part of a European project partially funded by the European Commission and EUROCONTROL.

***You can consult the full list of European Airports with published EGNOS-based flight procedures at [www.essp-sas.eu](http://www.essp-sas.eu)***

## First Commercial Flight using EGNOS

Following the publication of these two new LPV\* procedures at Alderney Airport and for the **first time** in Europe, a commercial scheduled airline is using an EGNOS based LPV procedure for landing.

From December 21<sup>st</sup>, the Trislander aircraft operated by **Aurigny Air Services**, a regional airline operating connection flights between the Channel Islands and the UK and France can use EGNOS when approaching the runways.



\*LPV procedures are reducing considerably the landing minima and thus making the operation more robust in adverse weather conditions compare to existing NDB NPA

## EGNOS System news

### → ESR 2.3.1.p deployment

During the month of February and March 2012, the EGNOS System Release 2.3.1P is being deployed. This version includes the following main features:

- ☞ EGNOS GEO **MT9** and **MT17** coherent fixed content (see Service Notice # 1 at [www.essp-sas.eu/service\\_notices](http://www.essp-sas.eu/service_notices))
- ☞ Deployment of 3 new **RIMS** (Ranging and Integrity Monitoring Station) in La Palma (Spain); Athens (Greece) and Alexandria (Egypt). The inclusion of these ground stations will improve the APV-I performances over the Southwest and Southeast EGNOS Service area.
- ☞ Improvement of Ionosphere monitoring, increasing the number of monitored IGP, especially of those located at the ECAC border providing an enhanced of APV-I performances.

→ **EGNOS Geostationary Satellites Swap**

By the end of March 2012, INMARSAT satellite 4F2 (PRN 126) will be integrated to the EGNOS Operational platform (broadcasting Message Type 2) in replacement of ARTEMIS satellite (PRN 124) that will then be used for EGNOS Test platform (broadcasting Message Type 0).

Geostationary Satellite Name	PRN	Orbital Location	Status
INMARSAT-3F2 AOR-E	120	15.5° W	Operational
INMARSAT-4F2 IND-W	126	25.0°E	Operational
ARTEMIS	124	21.5° E	Test

Target situation April 2012

→ **GPS Block IIF PRN1 & PRN25 integration**

Currently, the two new GPS satellites corresponding to the Block IIF, with PRN codes 1 and 25, are not part of the EGNOS satellites mask, and so, no corrections are being sent by EGNOS for these satellites. As of Mid February 2012 the satellite mask (MT1) will be updated to include the available GPS block IIF satellites.

ESSP periodically publishes Service Notices on EGNOS system updating  
You can consult the latest ones on [www.essp-sas/service\\_notices](http://www.essp-sas/service_notices)

### EGNOS projects in aviation



More than 25 proposals involving more than 60 companies from 13 different European countries have been submitted answering the Competitive Call for **ACCEPTA**, the project aimed at accelerating EGNOS adoption in the aviation sector (see EGNOS Bulletin #1). These proposals covered the implementation and publication of EGNOS-based LPV approach procedures in more than 60 runways at 40 different airports and the equipage, with the necessary EGNOS avionics, of nearly 100 aircraft from 23 different airlines, operators and end-users.

ESSP has lead and coordinated one of these proposals for promoting and supporting the EGNOS adoption in Austria, Finland, Portugal, Czech Republic and Slovak Republic. The total number of LPV procedures to be published in these countries is 14 in 8 different airports, being the partners of this proposal the ANSPs of each mentioned countries.

Based on the results of the evaluations done by the GSA, the proposal led by ESSP is part of the final ranked list and by the time being, the negotiations process has started with the aim of starting the activities at beginning of second quarter of 2012.

The **SHERPA** project (*Support ad-Hoc to Eastern Region with Pre-operational Actions on GNSS*) proposes a regional collaborative approach in support to European Eastern countries, towards the implementation of GNSS enabled operations in the civil aviation sector, and in particular enhanced by EGNOS.

The SHERPA consortium is led by ESSP and formed by other eight companies: PILDO Labs, the Silesian University of Technology and the ANSPs of Bulgaria, Turkey, Poland, Cyprus, Greece and Estonia.

The project will start in March 2012 for a total duration of 18 months and the main goal is to provide, during this period of time, elements to the participant States in mapping the implementation of EGNOS into their national PBN strategy in a coordinated manner with their national Regulatory Authorities.

## EGNOS application for smartphones

The European Commission has introduced free, downloadable and ready-to-use toolkits to help anyone develop enhanced EGNOS applications.

The **EGNOS Software Development Kit (SDK)** provides an easy way to incorporate all EGNOS corrections and integrity capabilities, allowing developers to perform real EGNOS integration directly into a smartphone (Android phones, iPhone\* and Blackberry phones).

\*with BTStack installed



To download this application please refer to [egnos-portal.gsa.europa.eu](http://egnos-portal.gsa.europa.eu)

## EGNOS recent and up-coming events



**Hanover, 13-18 November**

Members of the GSA and ESSP attended this Event to promote the use of EGNOS for high precision Agriculture. A presentation on **EGNOS and Galileo for precision farming – Today and in future** was made during the Event and produce a good debate among farmers and EGNOS experts with regard to the use of satellite guidance in agriculture machinery.



**London, 29 November- 1 Dec**

GNSS stand supported by the EC and ESSP team.

Events to come where you can find an EGNOS booth.....

**World Business Airport Conference →**

Cannes, 22-23 February

**ATC Global →** Amsterdam, 7-8 March

**Munich Satellite Summit →** 13-15 March

And save the date for the

**Yearly EGNOS Service Workshop**

**In Madrid, 14 June 2012**



## More info on EGNOS

[www.essp-sas.eu](http://www.essp-sas.eu)

EGNOS Service Provider Website. Info on the EGNOS system, news on the service. Status on EGNOS implementation in Aviation. Projects. Events. Others.

[egnos-user-support.essp-sas.eu](http://egnos-user-support.essp-sas.eu)

Information on past and current EGNOS performances. Signal in Space (SIS) status. Forecast on SIS availability.

[egnos-portal.gsa.europa.eu](http://egnos-portal.gsa.europa.eu)

EGNOS applications. Developers platform. Business support.



For questions & information:  
EGNOS Helpdesk

[egnos-helpdesk@essp-sas.eu](mailto:egnos-helpdesk@essp-sas.eu)

**Disclaimer:** EGNOS is a complex technical system and the users have certain obligations to exercise due care in using the EGNOS services. Before any use of the EGNOS services, all users should review the EGNOS SoL Service Definition Document ("SDD") and/or EGNOS Open Service SDD (both available on the ESSP SAS website <http://www.essp-sas.eu/>) in order to understand if and how they can use these EGNOS services, as well as to familiarise themselves with their respective performance level and other aspects the services may offer. Use of an EGNOS service implies acceptance of its corresponding SDD specific terms and conditions of use, including liability.

In case of doubt the users and other parties should contact the ESSP SAS helpdesk at [egnos-helpdesk@essp-sas.eu](mailto:egnos-helpdesk@essp-sas.eu). Aviation Users may also contact their National Supervisory Authority.

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