



Q2/ 2014 –Issue n.11

A word from ESSP CEO

As new CEO on board of this young company, I feel very proud of what has been accomplished regarding the EGNOS service provision in the past 5 years, and the long and challenging road ahead of us in terms of system evolution, user satisfaction, service development and greater adoption within the ECAC area.

2014 is the first year of ESSP new EGNOS Service Provision Contract with the GSA. New tasks and functionalities have been planned, which means an increase in the staff number and in our capabilities.

Now that the system has proven to be stable and reliable for more than 3 years, is the time for promotion and opening of new markets. The main goal for ESSP in 2014 is to boost EGNOS Safety-of-Life Service full adoption in Aviation and investigate also the use of the Safety-of-Life Service in other domains such as Maritime and Rail.

Many of these service adoption/ service development activities are defined and planned in an ambitious EGNOS Multimodal Adoption Plan (EMA) which is making its first steps in close coordination and supervision from the GSA.

You will be hearing a lot from this Plan, which main objective is to show the multiple EGNOS benefits to different EGNOS stakeholders, not only in the Aviation field, but also in Agriculture; Surveying and other domains.

I would like to take the opportunity to thank the excellent team of professionals involved in the different EGNOS activities during these past years. It has taken a long way, but it is finally here, and it is going to stay...EGNOS is there, use it!

My final words would like to remind you about the organization of the Yearly EGNOS Service Provision Workshop that will take place in Lisbon next October 7-8. It is the perfect time to meet again with the EGNOS family, to present the improvements in the system and in the services, and to have a direct interface with EGNOS real users.

I hope to see many of you down there.

Thierry Racaud

ESSP Chief Executive Officer

2014 **EGNOS** SERVICE PROVISION WORKSHOP

LISBON, 7-8 October

SAVE THE DATE!

Presentations
debates
showcases

success stories

The Yearly meeting for
> EGNOS stakeholders
> Users
> Applications developers

More Information
& Early Registration
EGNOS-workshop@essp-sas.eu
www.essp-sas.eu

ESSP

European
Global Navigation
Satellite Systems
Agency



Status of the EGNOS implementation in Aviation

EGNOS- based procedures already published in Europe (may 2014)

Country	Airports	LPV Procedures	APV Baro Procs
France	50 (3 new)	65 (4 new)	1
Spain	1	2	0
Switzerland	5 (1 new)	5 (1 new)	0
Guernsey	1	2	0
Germany	40 (9 with LPV)	15	71
Italy	4	7	0
Finland	1	2	0
Austria	2	2	0
Czech Republic	3 (1 new)	4	4
Norway	1 (1 new)	2 (2 new)	0
Poland	1 (1 new)	2 (2 new)	0
Total	108 (77 with LPV)	108	76

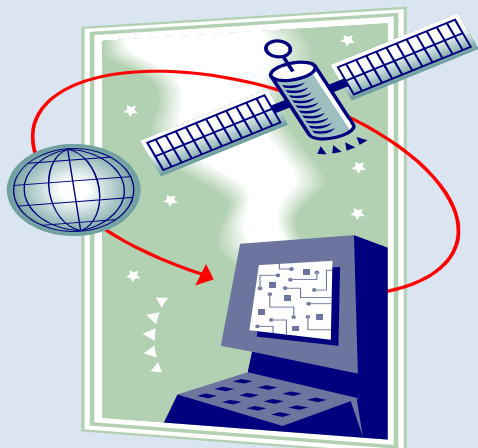
EGNOS Services Improvement

➤ EGNOS NOTAM Proposals

In the last year, very important improvements in the EGNOS NOTAM Proposals provided by ESSP have been implemented (from the system architecture to the service operations) which have resulted in a huge reduction of the service reaction time to unscheduled events. Since January 1st 2014, the EGNOS NOTAM Proposals are delivered to the concerned NOF (NOTAM Office) as follows:

- GNSS (EGNOS and GPS) scheduled events notified minimum 72 hours in advance.
- GNSS unscheduled events notified within 2 hours (7D/H24) instead of 16 hours in the worst case applicable in 2013.

ESSP is now working on further improvements with the target to enable ANSPs to provide a NOTAM service for the EGNOS-based procedures in their territory fully in line with ICAO recommendations (15 minutes reaction time to unscheduled events).



➤ EDAS

EDAS provides access over the internet to the GNSS data received by the EGNOS ground infrastructure, both in real-time and archive mode.

In 2014, two important improvements have already been implemented:

- Improved support to EDAS users through the EGNOS Helpdesk (egnos-helpdesk@essp-sas.eu +34 911 236 555). In case of suspected EDAS failure/outage, EDAS users may contact the EGNOS Helpdesk and they will get confirmation on the actual EDAS status in one hour (H24/7D).
- Improved availability of EDAS access line: two lines in high availability configuration have been deployed to provide redundancy in the data link connecting EDAS to the external world.

In the second half of 2014, a modernization of the EDAS system consisting on the replacement of the EDAS V1 legacy components will be performed to secure the EDAS performance and quality of service. In parallel, ESSP and the GSA will initiate the definition of an evolution plan for EDAS (including enhancements/extension of the current services and even completely new ones).

New EGNOS Agreements signed in UK

ESSP has signed in the past months two new EGNOS Working Agreement (EWA) with British ANSPs: Marshall Aerospace and Defence Group (operating Cambridge International Airport) and Kent Airport Ltd. (operating the Manston- Kent International Airport). The EGNOS Working Agreement formalizes the working procedures and required interfaces between ESSP as the EGNOS Service Provider, and the ANSP for the publication of EGNOS-based operations (LPV approach procedures) at their local airports.

“We are delighted to become part of the growing list of EGNOS users; this is a significant part of the development of Cambridge International Airport and will ensure we remain competitive with the latest emerging technologies to provide the best possible level of service for our customers”, as stated by Ian Rogers, Cambridge Airport Safety Manager.



Cambridge International Airport ready to use EGNOS!

EGNOS User Support Website continuous improvement

With the aim of improving the EGNOS User Support website robustness, usability, user experience and contents, ESSP is defining in close coordination with GSA an evolution plan based on the feedback provided by EGNOS users; covering different aspects:

- ✚ **Robustness:** COTS and Content Management System will be upgraded to improve maintainability and robustness and to secure the high availability performance.
- ✚ **Usability and user experience:** The current graphical user interface and structure is very focused on EGNOS services performance while the adoption of the EGNOS Services in all application domains requires tailored and application-specific contents. The new graphical user interface will better support different user needs in different application domains and at the same time will provide a more intuitive, easy and user-friendly interface.
- ✚ **Contents:** The website will be populated with new contents and reference/guidance material aiming at providing better support to users willing to or already implementing EGNOS-based applications in any domain.

More information on the detailed evolutions and planning will be provided in the next issue of the EGNOS bulletin.

EGNOS Multimodal Adoption Plan kicks offs

The EGNOS multimodal Adoption (EMA) plan was conceived as the working tool to accomplish the objectives foreseen to foster the use of EGNOS in the different domains of application: mainly in aviation – a “must”- but also in maritime, rail, surveying & agriculture domains.

As 2014 began, the Service Adoption team was set up and activities initiated, establishing a fluent dialog with the GSA.

EMA activities in aviation revolve around two key aspects. First, the need to have a clear view on what is being done and who is involved; elaborating a wide database with this information. Second, the need to have convincing arguments and examples showing EGNOS benefits: Cost Benefit Analyses, guidelines for ANSPs and operators, list of companies that provide given services, online library with relevant documentation/material, etc.

In rail and maritime, all activities are oriented towards a deeper understanding of those domains so, in a later step the suitable actions are triggered to place EGNOS on the way to be used.

Finally, EGNOS promotion in surveying and agriculture implies keeping an eye on technologies evolution and new needs for users in the domain.

	Aviation	Maritime	Rail	Surveying	Agriculture	TOTAL
ACTIONS	21	5	13	5	3	47

EGNOS
Is there, use it!

EGNOS Survey to take off!

ESSP and GSA are launching an EGNOS users' satisfaction survey (EGNOS Survey) in order to get valuable and representative feedback from EGNOS services' users in any domain, with the main goal to identify areas of improvement of the EGNOS Services and of the EGNOS Service Provider ensuring the wide adoption of EGNOS and allowing users to fully exploit the EGNOS benefits. The launch of the EGNOS survey mainly covering the EGNOS services during 2013 is imminent and will be targeting relevant users and stakeholders of the EGNOS Services in any application domain.

You will soon receive more information on the way to complete this survey (if not but you would like to contribute please refer to the ESSP website in the coming weeks).

The main outcomes of this satisfaction survey will be made public via different means, including the EGNOS Service Provision Workshop to take place in Lisbon, October 7-8.



Thank you in advance for your collaboration!



Satellite navigation services for AFRican Region

Working Session # 3 held in Cape Town – 27 - 28 February.

Based on the experience gained in Europe, the objective of this session was to identify the main satellite applications targeted in Africa as well as for each of those applications the actions to be undertaken and the associated schedule.

ESSP participated in this WS with a Presentation on “Non-Aviation Applications benefiting from EGNOS and its status at European level”.

The presentation was divided in two different parts:

- Introducing the EGNOS Services and Markets, the EGNOS Services Provision scheme, and the main actors including roles and responsibilities.
- Within each GNSS market domain (except aviation, this is, rail, maritime, road, agriculture, mapping, surveying, IFT ...), presenting:
 - Applications benefitting from EGNOS or the added value brought by EGNOS;
 - Status of EGNOS applications in Europe



*SAFIR representatives
in the WS #3 held in
South Africa*

Working Session #4 held in Gabon - 12-14 April

The 3-day workshop dedicated to EGNOS/GNSS Services Implementation Roadmap for sub-Saharan Africa had the following objectives:

- To agree on the structure of the roadmap
- To agree on high level topics to be developed in the roadmap for a successful implementation of GNSS/EGNOS services in Africa
- To start deriving the action plan and the actors for each of the topics

“European GNSS User Support”: EGUS Project

The EGUS consortium composed by ESSP, Ineco and GMV has been awarded by the GSA with the framework Contract devoted to European GNSS User Support, hereafter the **EGUS** project. This contract, which will last 4 years with a maximum budget of 8 M€, is focused on the implementation actions needed to manage the different user/market segments of Galileo. Core competencies procured in the framework are Project Management, Customer Management, Marketing and Outreach activities.

Many of these user support activities will take place at the GNSS Service Centre (GSC), located in Madrid. The GSC is defined as the single terrestrial interface for the Galileo OS, SoL and CS user communities.

Currently, GSA has launched two specific contracts under this Framework contract and ESSP is actively participating in both specific contract providing its expertise as EGNOS services provider.

Participation in GNSS Events



Madrid, 4-6 March

Successful EGNOS Participation in World ATM Congress 2014

The EGNOS stand jointly supported by ESSP and the GSA was a complete success within the World ATM Congress held in Madrid last 4-6 March.

Many ANSPs, operators and industry partners visited the stand in order to get updated information on EGNOS latest performances, service status and implementation scale around European airports.

It was the perfect framework to promote the EGNOS Safety-of-Life service tailored for Aviation among its main stakeholders.

For this reason an EGNOS Workshop was organized the first day of the Congress, a Workshop that attired a considerable number of participants. [Please click here to see the Workshop presentations.](#)

At the same time, the Workshop wanted to recognize the efforts already done by different ANSPs in the road of implementation: several diplomas and awards were given to those ANSP that had signed an EGNOS Working Agreement (EWA) with ESSP; as well as those ANSP with a first LPV approach publication at their local airports: AustroControl, Aena, Avinor, Finavia, LfV and Exeter.



VISIT US and GET TO KNOW



at the
**World ATM
Congress 2014**

Operated by CANSO in association with ATCA



**4, 5 & 6 March
Stand n. 955
Hall 9
IFEMA
MADRID**

You are invited to attend the Workshop

EGNOS in the European PBN implementation strategy

Agenda

- ESSP President welcome speech
- EGNOS current service status & roadmap
- PBN Implementation Rule and current plans
- GSA objectives and initiatives
- Recent LPVs publication and EWA signatures: Awards and lessons learned
 - LPVs: Finland, Austria, Spain
 - EWAS: Avinor, LfV, Finavia
- ESSP actions and services to boost adoption
- Open discussion & refreshments

**At the Spotlight Theater
Hall 9
4 March, 2014
from 15.15 to 17.00**

Sponsored by



MUNICH SATELLITE NAVIGATION SUMMIT 2014



March 25-27

ESSP and TeleSpazio presented a joint Paper entitled ***The new E-GNSS paradigm:
from Technology to Service Provision***

Session 9 "Linking space Technologies and User Communities – Challenges or Perfect Interaction?"



Daniel Loupur from GSA and Victor Alvarez from ESSP received many requests from Aviation stakeholders at the EGNOS stand in Friedrichshafen, one of the biggest events for Europe's general Aviation Market, with more than 34.000 visitors.



ESSP presented 4 Papers at the European Navigation Conference held in Rotterdam. A must-be place for GNSS stakeholders.

- EDAS EGNOS DATA OVER THE INTERNET
- THE IMPACT OF THE HIGH IONOSPHERIC ACTIVITY IN THE EGNOS PERFORMANCE
- EGNOS PERFORMANCE MONITORING ACTIVITIES PERFORMED BY THE ESSP
- H24 REACTIVE EGNOS NOTAM PROPOSALS ORIGINATION

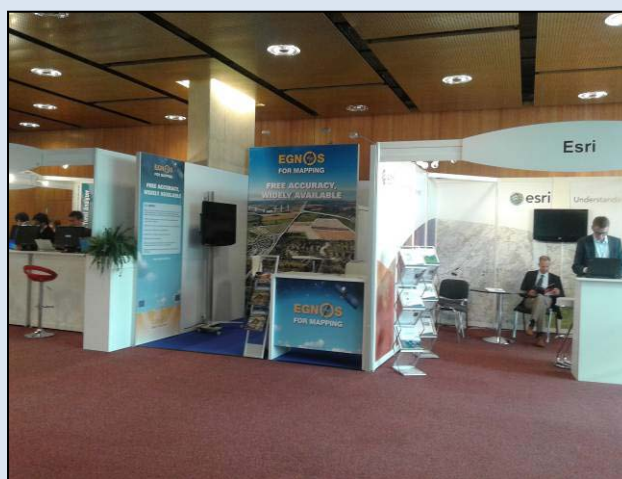


2-3-4 April 2014, AMSTERDAM

ESSP presentation about "EGNOS relevance in Agriculture"



EGNOS stand hold by the GSA. Carlo de Dorides opened the Plenary Session with Conference "GEOSMART + Infrastructure Development"



Upcoming Events



European Space Solutions is organized by the European GNSS Agency and the European Commission to bring together business and the public-sector with users and developers of space-based solutions.

Register now! Entrance is free of charge but places are limited.

2014 European Satellite Navigation Competition Open Now!



With the purpose of identifying and supporting the services, products and business innovations that utilize satellite navigation in everyday life, each year the ESNC awards prizes that includes cash, business incubation, coaching, patent consulting, prototyping and marketing support, among others.

The 2014 edition has a prize pool of over **EUR 1 million**. The deadline for submissions is **30 of June**. To participate, one must [sign up via the website](http://www.galileo-masters.eu), choose the prize they are competing for, and submit their business case.

More info on



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

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

egnos-portal.gsa.europa.eu

EGNOS applications. Developers platform. Business support.

For questions & Information
EGNOS HELPDESK

+ 34 911 236 555

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. Aviation Users may also contact their National Supervisory Authority.

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