EGNOS SERVICE NOTICE

Number: 007 **Revision: 1.1**

To: EGNOS SoL Service and Open Service users

Date: 15/03/2013

Subject: Temporary GEO swap PRN126-PRN124 in March/April 2013

From the 26th March 2013 to the 29th April 2013 (both days included), ARTEMIS satellite (PRN 124) will replace INMARSAT satellite 4F2 (PRN 126) as one of the two operational satellites (together with INMARSAT-3F2, PRN120). This is part of a maintenance activity. In consequence, over this period of time, the two EGNOS Geostationary satellites providing the EGNOS Signal In Space (SIS) will be PRN 120 and PRN 124. This Service Notice describes the detailed schedule, impact and some additional details on this activity

During the whole duration of the change, the EGNOS SIS will be broadcast by at least one GEO, to ensure that no impact exists for the EGNOS users[1].

The EGNOS Space Segment will be composed as follows:

Geostationary Satellite Name	PRN	Orbital Location	Status BEFORE 26/03	Status BETWEEN[1] 26/03 and 29/04	Status AFTER 29/04
INMARSAT-3F2 AOR-E	120	15.5º W	Operational	Operational	Operational
INMARSAT-4F2 IND-W	126	25.0°E	Operational	Test(MT0)	Operational
ARTEMIS	124	21.5º E	Test(MT0)	Operational	Test (MT0)

Table 1: EGNOS Geostationary satellites

Next maps show the GEO footprints of the two GEOs which will be operational (PRN 120 and PRN124) during this period, for nominal and worst-case visibility conditions. It is not expected to have any impact in the EGNOS SoL and Open services.

[1] During around 3 days (more than 72 hours) previous to the transitions (from 22nd to 26th March and from 25th to 29th April) the 3 satellites will be operational, to reduce the risk for the users.

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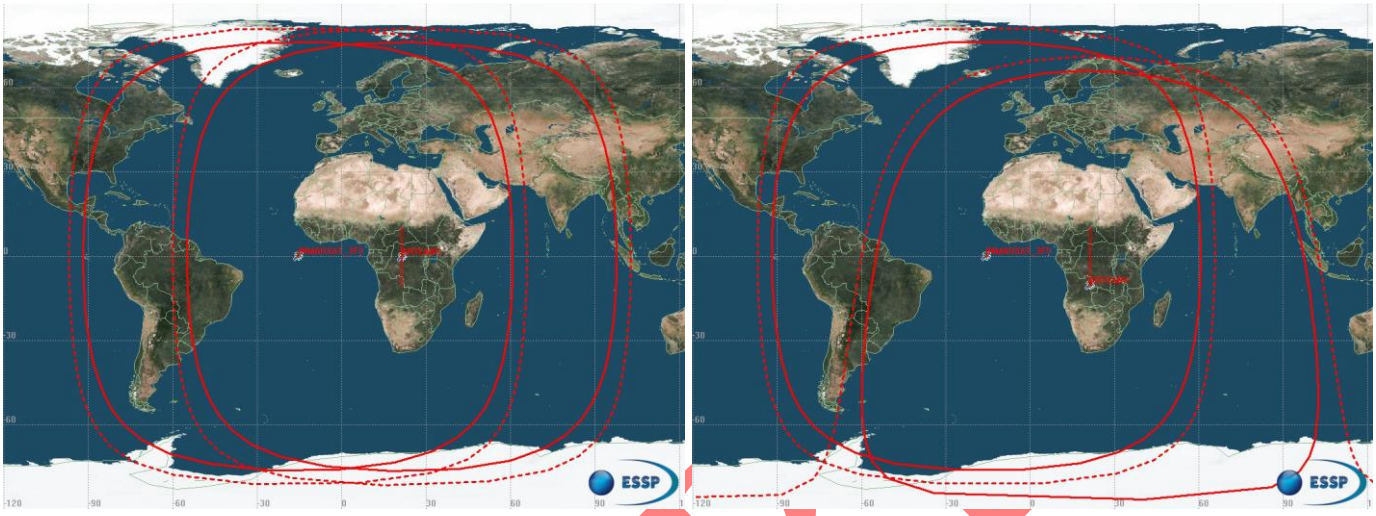

Figure 1 –INMARSAT 3F2 (PRN 120) and ARTEMIS (PRN 124) – nominal and worst-case footprint
Dotted line = 0° elevation, solid line =5° elevation

Due to the aging state of the ARTEMIS satellite, it might be not visible for some users located over the North ECAC area during some specific periods. In addition, due to the high values of the Doppler shift shown by this satellite, SIS outages will be observed every day. However, due to the redundancy provided by the PRN120, it is not expected an impact in the service.

The signal broadcasted by INMARSAT satellite 4F2 (PRN 126) during the period of swap will include the Message Type 0, to avoid its use for Safety-of-Life applications.

During this period, and for additional information, it is recommended to check the EGNOS SIS schedule provided by ESSP at the EGNOS user support website (http://egnos-user-support.essp-sas.eu).

CONTACT US

Should you have any question related to this Service Notice or EGNOS Service Provision, please, contact Egnos-helpdesk@essp-sas.eu

For more information about EGNOS Service Provision, please, visit ESSP website at www.essp-sas.eu and user support website at http://egnos-user-support.essp-sas.eu