



EGNOS

July 2021 - Version: 5.0

EGNOS Safety of Life Service ROADMAP



NAVIGATION
MADE IN
EUROPE

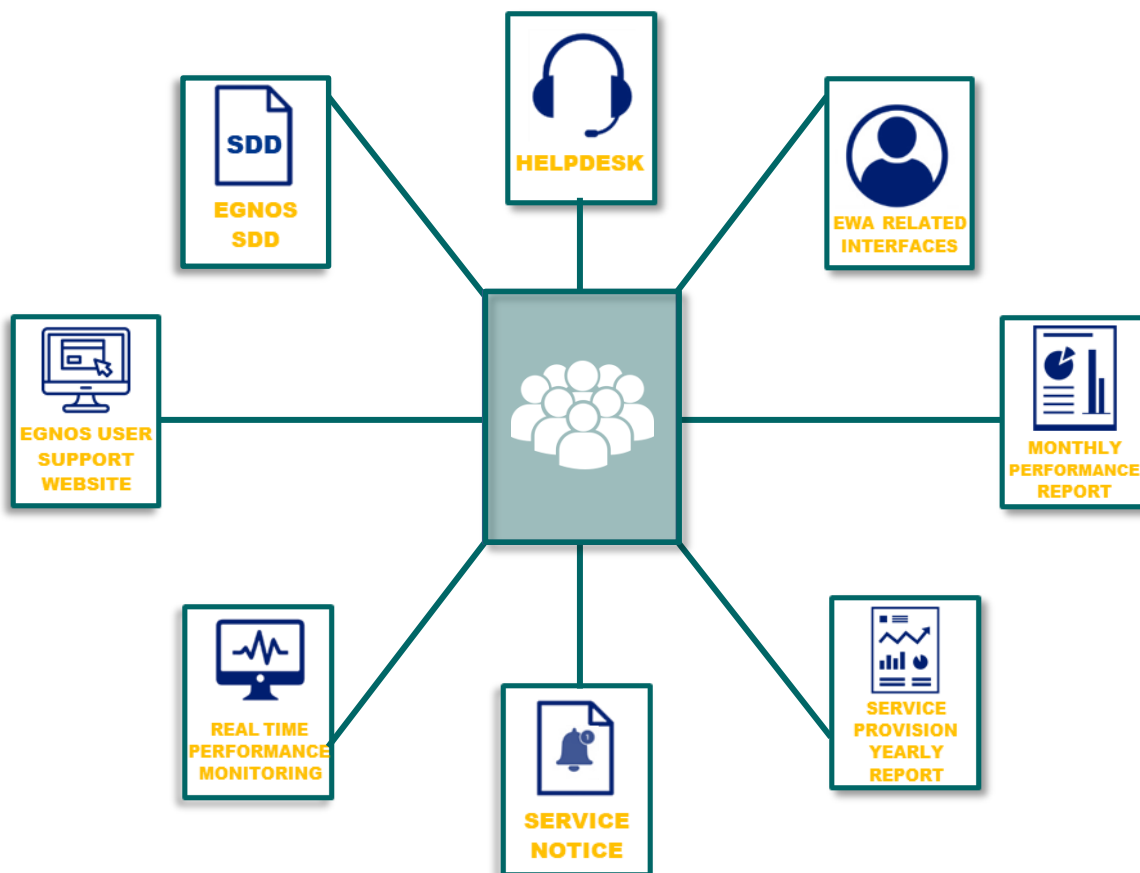
To: EGNOS SoL Service Users
Date: 08/07/2021
Subject: EGNOS SoL Service Roadmap

This document aims at providing an overview of the EGNOS SoL Service expected evolution linked to the consecutive EGNOS System Releases' (ESR/YSR) deployments and information/interfaces improvements/changes described herein, mainly focusing on 4 different areas: System Evolutions, Service Area/Level, Service Robustness and User Interfaces.

1 EGNOS SOL SERVICE

The EGNOS Safety of Life Service (SoL) service provides timing and positioning information improved from the GPS one, adding integrity data to materialize SIS performance compliant with aviation requirements defined in the ICAO Standard and Recommended Practices (SARPS) for SBAS.

1.1 EGNOS SoL related documents and interfaces available for users







*Press Click on each image to access EGNOS SoL related documents and interfaces available for users

2 EGNOS SOL SERVICE IMPROVEMENT ROADMAP

2.1 Definitions

The EGNOS SoL Service implementation roadmap detailed in section 2.2 is described mainly focusing on 4 different areas: System Evolutions, Service Area/Level, Service Robustness and User Interfaces. The definition of each of these areas is provided hereafter for the sake of an appropriated interpretation of the contents by the reader.

Area	Information	Milestones
 System Evolutions	Foreseen evolutions of EGNOS System which have impact on the service.	Those linked to evolutions/changes in the EGNOS System with the target deployment dates, e.g.: <ul style="list-style-type: none"> • Deployment of a new EGNOS System Release (ESR) • Deployment of a new EGNOS Yearly System Release (YSR) • Entry into operation of a new RIMS
 Service Area Service Level	Includes two categories of changes in EGNOS SoL Service: <ul style="list-style-type: none"> • The foreseen evolution of the service area for EGNOS SoL Service. • The declaration/decommissioning of a SoL Service Level. 	Those linked to evolutions/changes in the service area/service level with the target publication date of the corresponding SoL SDD that incorporates such evolution.
 Service Robustness	Foreseen evolution of the system to ensure that the performance levels corresponding to EGNOS SoL service are maintained or increased.	Those that identify evolutions/changes in the EGNOS SoL service performance figures (availability, continuity, integrity and accuracy) with the target dates when these new performances can be observed by the EGNOS SoL users.
 User Interfaces	Foreseen evolution of the interfaces towards the EGNOS SoL users.	Those that identify evolutions/changes of the user interfaces with their corresponding target deployment dates, e.g.: <ul style="list-style-type: none"> • User Support Website • EGNOS Helpdesk • Publication of EGNOS SoL SDD • EGNOS Users Satisfaction Surveys

2.2 EGNOS SoL Service Implementation Roadmap

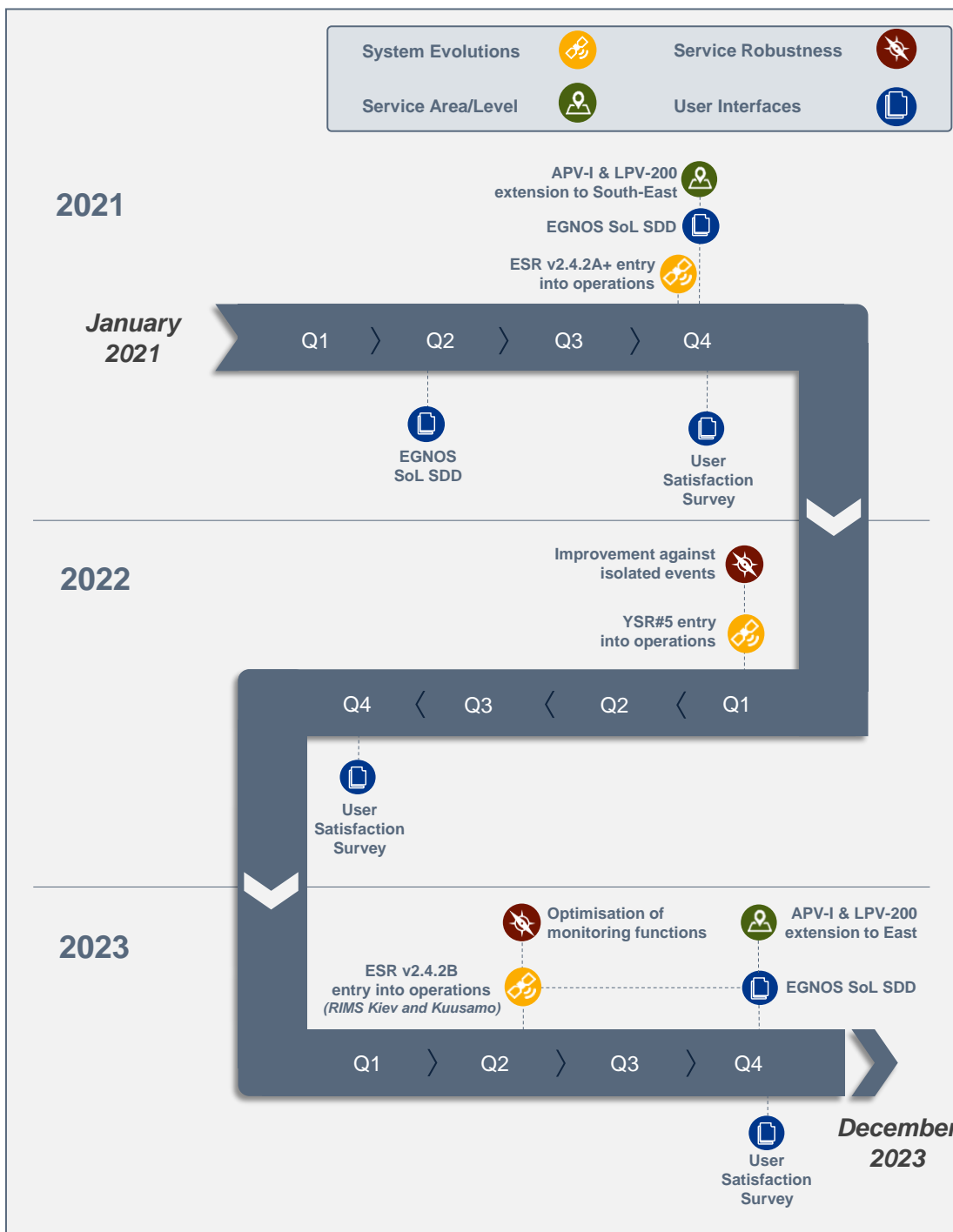


Figure 1: EGNOS SoL Service Implementation Roadmap

The current EGNOS system release deployed is ESRv2.4.2I which entered in operations in January 2020.



SYSTEM EVOLUTIONS:

Target Date: **Q4 2021** New EGNOS System Release v2.4.2A+ deployment, which will result in the EGNOS System modernisation and allowing the inclusion of GPS Block III satellites into the EGNOS mask.

Target Date: **Q1 2022** [1] New Yearly System Release #5, including the improvement against very specific and isolated degradation events.

Target Date: **Q2 2023** [2] New EGNOS System Release v2.4.2B deployment, which will introduce 2 new RIMS (Kiev and Kuusamo).



SERVICE AREA / LEVEL:

Target Date: **Q4 2021** [3] New commitment area¹, with an extension of the commitment areas for APV-I and LPV-200 in the SoL SDD to the south-east of Europe, fully covering Cyprus at APV-I level.

Target Date: **Q4 2023** Extension of the Service area for APV-I and LPV-200 to eastern regions linked to [2].



SERVICE ROBUSTNESS:

Target Date: **Q1 2022** Improvement in the robustness of the system, linked to [1], against very specific and isolated degradation events.

Target Date: **Q2 2023** Improvement in the robustness of the system linked to [2], thanks to an optimisation of satellite and ionosphere monitoring functions.



USER INTERFACES:

Target Date: **Q2 2021** New EGNOS SoL SDD, updating the magenta area for APV-I and LPV-200 availability and continuity maps to reflect the post-Brexit situation.

Target Date: **Q4 2021** New EGNOS SoL SDD: linked to RIMS Haïfa introduction [3].

Target start of survey: **Q4 in a yearly basis** EGNOS SoL Service Users Satisfaction Surveys (survey is opened for user to provide feedback for a period of at least to 3 months).

Target Date: **Q4 2023** New EGNOS SoL SDD: linked to RIMS Kiev and Kuusamo introduction [2].

¹ Linked to the YSR4-PSS1 deployed in February 2019 (see [Service Notice #21](#)).

2.3 Medium term Service Evolutions/System Deployments



Future EGNOS V3 features will be introduced gradually, with a first phase (V3.1) in 2026 with enhanced robustness and a subsequent phase (V3.2) in 2027 with dual frequency augmentation in GPS-Galileo constellations and EGNOS area coverage extension to ENI South (partnered countries South of EU) and Ukraine.

An EGNOS Maritime service tailored to mariners, providing an improved position accuracy and integrity information in ocean waters, harbour entrances, harbour approaches and coastal waters.

Future EGNOS release v2.4.3 in 2024 to cope with obsolescence issues, ensuring the required level of robustness and system stability throughout the operational life of EGNOS service, and the modernisation of the GEO satellite constellation with the new Eutelsat E5WB (GEO-3).



CONTACT US

Should you have any question related to this Service Implementation Roadmap or EGNOS Service Provision, please, contact

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For more information about EGNOS Service Provision, please, visit

ESSP website

<https://www.essp-sas.eu/>

EGNOS User Support website

<https://egnos-user-support.essp-sas.eu/>