



GALILEO INITIAL SERVICES

EU SATNAV

GALILEO GOES LIVE

Galileo, the European global satellite navigation system, is ready to be used. With 18 Galileo satellites in orbit, supporting ground infrastructure, and after an extensive testing period, Galileo Initial Services are now available for public authorities, businesses and citizens. The first services offered by Galileo include the Open Service, the Public Regulated Service and the Search and Rescue Service.

The Galileo Open Service is a free mass-market service for positioning, navigation and timing that can be used by Galileo-enabled chipsets for example in smartphones or in-car navigation systems.

The Galileo Search and Rescue Service is Europe's contribution to the International Cospas-Sarsat Programme for detecting and locating emergency beacons. It helps to locate these beacons and rescue people in distress, for example at sea or in the mountains.

The Galileo Public Regulated Service is for government-authorized users, such as civil protection services, customs officers and the police. It is particularly robust and fully encrypted to provide service continuity for government users during national emergencies or crisis situations.

From now on, users around the world can be guided using the positioning, navigation and timing information provided by Galileo's global satellite constellation.

This is excellent news for users, chipset and receiver manufacturers, application developers, and anyone who wants to benefit from the improved accuracy, reliability, availability and coverage that Galileo satellites are bringing. Companies can develop and test applications using real satellite signals not only simulations.

GALILEO MAKES A DIFFERENCE

- **Better positioning and navigation:** With Galileo satellites working together with GPS, there are more satellites available and therefore more accurate and reliable positioning for end users. In particular, navigation in cities, where satellite signals can often be blocked by buildings, will benefit from the increased positioning accuracy this provides.
- **Unique timing accuracy:** Galileo's excellent 30 nanosecond timing accuracy contributes to enabling more resilient synchronisation of banking and financial transactions, telecommunication and energy distribution networks to help them operate more efficiently.
- **Helping faster when every minute matters:** Galileo's Search and Rescue service reduces the time it takes to detect emergency distress beacon signals from up to 3 hours to just 10 minutes. As the distress beacon position is also determined more accurately, people in distress for example at sea or in mountains can be found and rescued more quickly.

GALILEO COMPATIBLE PRODUCTS ARE AVAILABLE TODAY

Today 17 companies, representing more than 95% of the global satellite navigation hardware supply, produce Galileo-ready chips. These companies include:

- Key chipset manufacturers like STM, u-blox, Broadcom, Mediatek, Intel and Qualcomm.
- STM, a leading European chipset manufacturer in the automotive sector, has announced Galileo-ready «Teseo» chips for vehicle telematics and navigation systems.
- Qualcomm, the market leader for smartphone chips such as Snapdragon, has already built Galileo into its devices, meaning that many smartphones are Galileo-ready.

Products are also becoming available for consumers:

- The first European-designed Galileo smartphone by Spanish technology company BQ is already on the market.
- By 2018, Galileo will be found in every new type-approved vehicle sold in Europe thereby enabling the eCall emergency response system.

A growing list of Galileo compatible devices and chipsets that are available today can be found at www.useGalileo.eu.

WHAT'S NEXT FOR GALILEO

Galileo Initial Services are the first step toward its Full Operational Capability. Galileo's availability will continue to improve as additional satellites are added to the constellation. Once Galileo is complete in 2020, it will provide users with first class performance, reliability and coverage.

→ GALILEO INITIAL SERVICES IN A NUTSHELL

Galileo is Europe's Global Satellite Navigation System (GNSS). Galileo provides a range of state-of-the-art positioning, navigation and timing services to users worldwide.

The **Declaration of Galileo Initial Services** is the first step towards reaching Full Operational Capability. The Initial Services offered by Galileo include the Open Service, the Public Regulated Service (PRS) and the Search and Rescue Service (SAR). The full and complete portfolio of Galileo services will be available by 2020, when the satellite constellation and ground infrastructure are complete.

Galileo is fully interoperable with GPS – a combination that provides users with considerable improvements, with stronger performance and service levels.

Galileo Initial Services are a result of cooperation between the **European Commission, European GNSS Agency (GSA), and European Space Agency (ESA)**.

For more information about the Galileo Initial Services and on the Galileo system status, please contact the European GNSS Service Centre (GSC) helpdesk at www.gsc-europa.eu