

Galileo satellites given green light for launch

November 29 2021



Galileo satellites 27-28 encapsulated for launch within their protective launch fairing, attached to their dispenser and atop their Fregat upper stage. This combined 'upper composite' was then placed on top of the other three stages of the waiting Soyuz launcher, ahead of their launch on Thursday 2 December at 0131 CET. Credit: ESA-CNES-Arianespace Optique Video du CSG - G Barbaste

Europe's next pair of Galileo satellites have been given a green light for launch. Last Friday's Launch Readiness Review confirmed that the satellites, the supporting ground installations, and the early operations facilities and teams are ready for lift-off on the early hours of Thursday morning, European time.

Galileo satellites 27–28 are scheduled to be launched by a Soyuz launcher from Europe's Spaceport in French Guiana on 2 December at 01:31 CET (1 December at 21:31:27 local Kourou time). Follow the [launch](#) live on ESA Web TV Two from 0104 CET.

"Friday's Launch Readiness Review confirmed that the first two satellites in this final batch of 12 Galileo first generation satellites, are good to go—provided no external circumstances come up between now and the night of 1–2 December," says Bastiaan Willemse, ESA's Galileo Satellite Manager, from Europe's Spaceport in Kourou, French Guiana. "And meanwhile the preparation for the launch campaign of the next two satellites has already started."

The Launch Readiness Review is an ESA-led review with participation of the [satellite](#) manufacturer OHB, the launch service provider Arianespace, the Galileo operator SpaceOpal, the EU Space Program Agency (EUSPA) and the European Commission, as well as the program's Security Accreditation Board.

This was the last review before the Arianespace-led RAL (Revue d'Aptitude de Lancement) will take place next week whereby the latest status of the launcher, the launch facilities and site, the global launch tracking facilities as well as the satellites and its supporting ground infrastructure will be reviewed, resulting in the approval for the launch countdown.



Galileos 27-28 seen atop their gold-wrapped Fregat upper stage within their Soyuz launcher fairing. Credit: ESA-P. Carril

The satellites arrived in French Guiana in early October, kicking off a busy launch campaign, including initial dispenser 'fit checks' and the filling with the hydrazine fuel that will be used to maneuver them during

their 12 years of working life.

These satellites will add to the 26 satellites of the Galileo constellation already in orbit and delivering Initial Services around the globe.

This week's lift-off will be the 11th Galileo launch in 10 years. Two further launches are planned for next year, to allow Galileo to reach Full Operational Capability in its delivery of services, to be followed by the launches of the rest of the Batch 3 satellites which are currently all undergoing final integration at OHB facilities in Bremen and on-ground verification testing at ESA's ESTEC Test Centre in the Netherlands.

In parallel to Batch 3's completion of Galileo First Generation deployment, the new Galileo Second Generation satellites, featuring enhanced navigation signals and capabilities, are already in development with their deployment expected to begin by 2024.

About Galileo

Galileo is currently the world's most precise satellite navigation system, serving more than two billion users around the globe.

The Full Operational Capability phase of the Galileo program is managed and funded by the European Union. The European Commission, ESA and EUSPA (the EU Agency for the Space Program) have signed an agreement by which ESA acts as design authority and system development prime on behalf of the Commission and EUSPA as the exploitation and operation manager of Galileo/EGNOS. "Galileo" is registered as a trademark in the database of the European Union Intellectual Property Office (n° 002742237).

Provided by European Space Agency

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