



Communications and External Relations Subcommittee
US National Space-based PNT Advisory Board

Subcommittee Mandate:

- *User & industry outreach*
- *Messaging to U.S. public*
- *Inform & educate government stakeholders*



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Value of GPS, impacts of loss





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Government communications during and after GPS disruption events

Bloomberg US

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Technology
Hyperdrive

Dallas Air Traffic Rerouted as FAA Probes Faulty GPS Signals

- Pilots, controllers using older technology to navigate
- 'Very unusual' air navigation glitch, says flight-track expert

By Alan Levin and Mary Schlangenstein
October 18, 2022 at 9:54 AM PDT Updated on October 18, 2022 at 12:40 PM PDT
From **Hyperdrive**

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Flights into the Dallas area are being forced to take older, cumbersome routes and a runway at Dallas-Fort Worth International

GPS WORLD GNSS POSITIONING NAVIGATION TIMING

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GNSS OEM Autonomous Survey Mapping Transportation Defense Mobile

What happened to GPS in Denver?

September 21, 2022 - By Dana Goward Est. reading time: 3 minutes

Photo: YayaErnst/iStock/Getty Images Plus/Getty Images

Something big happened to GPS service in the Denver area on Jan. 21.

Notice To Airmen 21 January 2022
NAV GPS UNREL(INCLUDING WAAS, GBAS, AND ADS-B) MAY NOT BE AVBL WI A 50NM RADIUS



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PNT disruption as cyber, vs electronic warfare, vs other?





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Federal government protecting itself w/ resilient PNT equipment and sources.

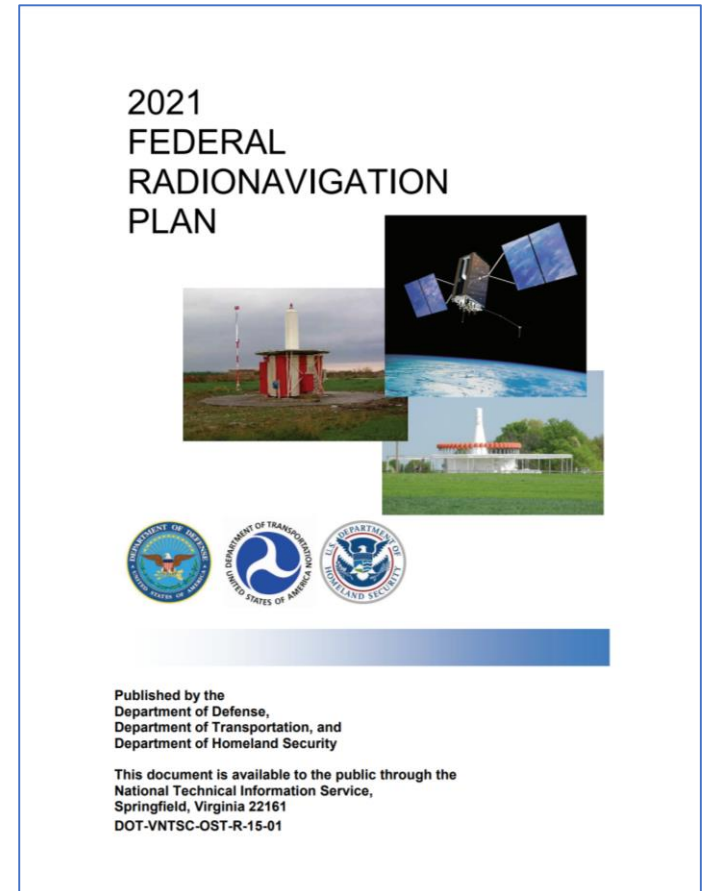


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Federal Radionavigation Plan (2021) NTRSA Language

- Value of GPS timing, value of protecting it
- Free-to-user GPS impact on market for sufficient complementary timing / PNT
- Impact of:
 - Economic benefit of ensuring “uninterruptable” timing/ PNT, devices, sources, applications
 - Strategic value of making GPS a much less attractive target
 - US adversary capabilities to cause and weather disruptions to GNSS





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Public views/knowledge
about PNT resilience



Image: Shutterstock