Galileo Authentication

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(ICG #10, 4 November 2015)

European Commission

EGNOS

GALILEO

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★ **Strong demand over the last decade for PNT resilience in general and GNSS authentication in particular**

★ **Since 2013, the Galileo program has been studying:**

  ★ Navigation Message Authentication (NMA) for its Open Service Signals (E1-B at 1575.42 MHz)

  ★ Spreading Code authentication in the encrypted Commercial Service signals (E6-B/C at 1278.75 MHz)

★ **Simulations show good results from the proof of concept using real SIS (Sept 2014)**

★ OS-NMA Consultation with receiver manufacturers confirmed interest and feasibility (Jul 2015)

★ First OS-NMA system impact analysis done (Jul.-Sept. 2015)
  ★ Feedback from ESA and industry contractors indicates that the required system changes are feasible within the FOC timeframe

★ First prototype under development and to be tested next year

★ Overall roadmap for NMA provision is under discussion in the coming months

★ EC/ESA/GSA will coordinate Authentication Services for the current system and consider the possibility of new authentication signals for Galileo evolutions

Thank you for your attention

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http://ec.europa.eu/galileo