

eCall and ERA- GLONASS interoperability tests on FI/RUS border

30/11/2021 VTT – beyond the obvious

Interoperability testing of eCall and ERA-GLONASS (10–11 June 2021)

Objective: test interoperability of eCall and ERA-GLONASS in-vehicle emergency calls systems in Finland and Russia

Tests were done in cooperation:

■ In Finland

- Traficom, supported by VTT
 - Nissan
 - The Emergency Response Centre Agency
- eCall In-Vehicle System (IVS)
 - eCall IVS & ERA-GLONASS IVS
 - Public Safety Answering Point (PSAP)

■ In Russia

- JSC GLONASS
 - JSC GLONASS
- 2 ERA-GLONASS IVS
 - Filtering Contact Center [PSAP]



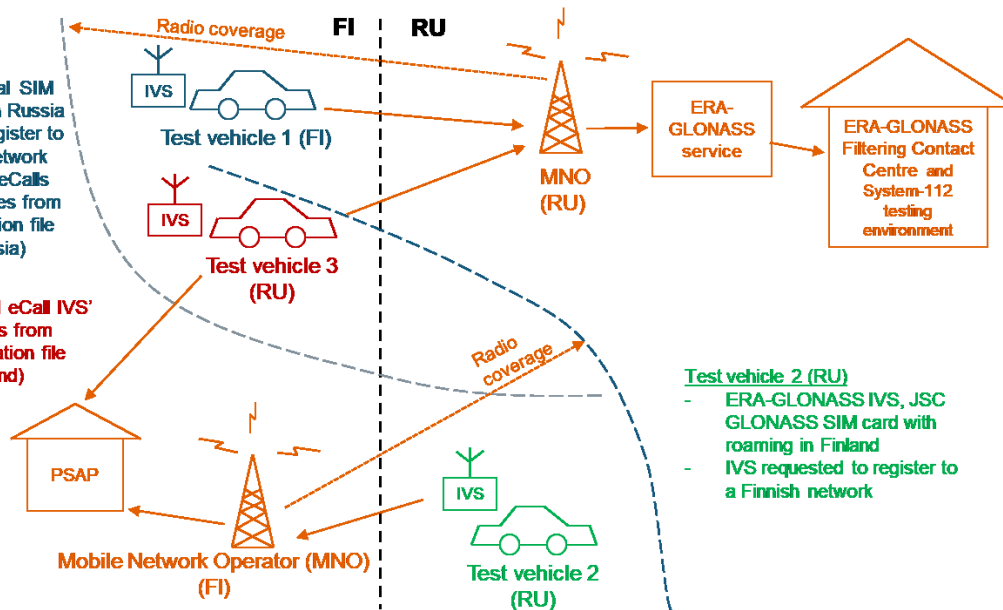
Interoperability tests near FI-RUS border in June 2021

Test vehicle 1 (FI)

- eCall IVS
- Finnish / International SIM card with roaming in Russia
- IVS requested to register to a Russian mobile network before activation of eCalls
- IVS takes coordinates from GPS or a configuration file (coordinates in Russia)

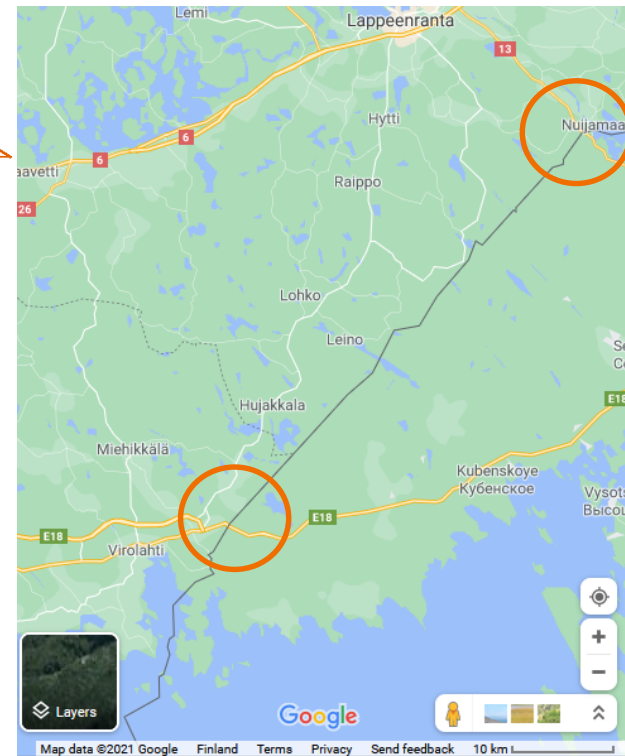
Test vehicle 3 (RU)

- ERA-GLONASS and eCall IVS'
- IVS' take coordinates from GNSS or a configuration file (coordinates in Finland)



Test vehicle 2 (RU)

- ERA-GLONASS IVS, JSC GLONASS SIM card with roaming in Finland
- IVS requested to register to a Finnish network



Results and future plans

- Interoperability test (~50 test calls in June) have been analysed
 - In most test calls, eCall data (MSD) was presented to the PSAP operator and a voice connection was established.
 - Some interoperability issues were identified
 - [Covid-19 restrictions affected the planning and implementation of tests]
 - Next round of tests in December 2021 in FI
 - Objective: collect further information on the interoperability issues identified and to collect data on network selection in the border area
 - System updates both in FI and RU side will be needed before re-testing interoperability
- ⇒ Interoperability tests and testing the operation of eCall and ERA-GLONASS IVS in the border area will continue in Finland and Russia in 2022.



More information about the tests:

Anna Schirokoff, Traficom

- anna.schirokoff@traficom.fi

Alexander Pozdnev, JSC GLONASS

- pad@aoglonass.ru

Risto Öörni, VTT

- risto.oorni@vtt.fi