ERA-GLONASS: Status Update and Plans for Project Development

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GLONASS/GPS GNSS

Fully deployed ERA-GLONASS System will save up to 4,000 lives every year *

* Estimate assuming 100% penetration of ERA-GLONASS IVS in vehicles

Harmonization with European eCall

ERA-GLONASS In-Vehicle System

Mobile networks

ERA-GLONASS Operator

Regional PSAP (system-112)

Emergency Response Services

Response to road traffic accidents

Estimated economic effect is up to 8 billion rubles due to reduction of fatalities per annum
ERA-GLONASS Project Milestones

**2010**
Design Planning

**2011**
Project Development

**2012**
Pilot Projects

**2013**
System Deployment

**2014**
Pre-Production

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**1.** Design and deployment of ERA-GLONASS infrastructure

**2.** Legislation enabling the creation and operation of ERA-GLONASS System

**3.** In-Vehicle System requirements definition

**4.** Ensuring Interaction with emergency response services

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**May 2010**
Start of ERA-GLONASS project (Government Contract signed)

**January 2015**
Full-scale operation startup
1. Navigation information platform
2. Data transmission network
3. Full MVNO communication network

ERA-GLONASS Infrastructure Deployed

- 1. Navigation information platform
- 2. Data transmission network
- 3. Full MVNO communication network

Federal roads coverage:
- MTC 91%
- Megafon 94%
- Beeline 85%
- ERA-GLONASS 99%

* Official data, as of Dec 2013

MVNO Infrastructure - 80 Nodes
- 2 central nodes in Moscow and Saint-Petersburg
- 6 nodes in Federal Districts
- 72 Regional nodes
ERA-GLONASS Regulatory Base

- **The Federal Law on ERA-GLONASS State Automated System**
  approved on 28 December 2013, effective as of 01 January 2014

- **Customs Union Technical Regulation**
  «Technical Regulation on wheeled vehicles safety» containing the requirements to IVS obligatory installation and main requirements to IVS (ERA-GLONASS terminal) and Telematics protocol, adopted on 30 January 2013

- **National Standardization**
  To ensure execution of Technical Regulation the set of National Standards have been developed and approved in 2011 and amended in 2013

- **Development of the UNECE Regulation for Emergency Call Systems**
  Russian Federation announced its intent to propose a new UN Regulation governing emergency call systems.
Federal Law # 395-ФЗ
- Approved 28 December 2013
- Effective as of 01 January 2014

The Law defines
- Legal status and purpose of the ERA-GLONASS system
- Roles and responsibilities of all parties involved in the ERA-GLONASS system operation

The Law establishes
- Mechanisms for formation and usage of ERA-GLONASS system information resources
- Rights and responsibilities of government bodies, specifically, the requirements to inter-agency data transfer in the course of the system operation
Customs Union Technical Regulation
On Safety of Wheeled Transportation Vehicles

Effective dates of the mandatory requirements in regards of ERA-GLONASS in-vehicle systems/devices (approved by the Customs Union member states 30 January 2013)

1. Category M1 and N1 vehicles with weight of over 2.5 tons, as well as Category M2, M3, N2, and N3 vehicles:
   • **Starting 1 January 2015**: transportation vehicles undergoing type-approval procedure for the first time
   • **Starting 1 January 2016**: transportation vehicles utilized for commercial transportation of children, passengers, as well as hazardous cargo or solid household waste (garbage trucks) released for free circulation in the Customs Union member states
   • **Starting 1 January 2017**: **ALL** transportation vehicles released for free circulation in the Customs Union member states

2. Category M1 and N1 vehicles with weight of under 2.5 tons
   • **Starting 1 January 2015**: transportation vehicles undergoing type-approval procedure for the first time
   • **Starting 1 January 2017**: **ALL** transportation vehicles released for free circulation in the Customs Union member states

ERA-GLONASS requirements become mandatory in Belarus, Kazakhstan, and Russia starting 2015
<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOST R 54620 – 2011 w/amendment #1 (2014)</td>
<td>General technical requirements</td>
</tr>
<tr>
<td>GOST R 54619 – 2011 w/amendment #1 (2014)</td>
<td>Protocols of data transmission from in-vehicle emergency call system to emergency response system infrastructure</td>
</tr>
<tr>
<td>GOST R 54618– 2011 w/amendment #1 (2014)</td>
<td>Compliance test methods of in-vehicle emergency call system for electromagnetic compatibility, environmental and mechanical resistance requirements</td>
</tr>
<tr>
<td>GOST R 55530-2013</td>
<td>Functional test methods of In-Vehicle Emergency Call System and data transfer protocols</td>
</tr>
<tr>
<td>GOST R 55531-2013</td>
<td>In-Vehicle Emergency Call System. Compliance testing for the requirements for hands-free audio quality in a vehicle</td>
</tr>
<tr>
<td>GOST R 55534-2013</td>
<td>Test methods for navigation module of in-vehicle emergency call system</td>
</tr>
<tr>
<td>GOST R 55532-2013</td>
<td>Test methods for in-vehicle system crash detection feature</td>
</tr>
<tr>
<td>GOST R 55533-2013</td>
<td>Test methods for wireless communication module of In-Vehicle Emergency Call System</td>
</tr>
</tbody>
</table>
Development of the UNECE Regulation for Vehicle Emergency Call Systems

- **The World Forum for Harmonization of Vehicle Regulations (WP 29) at the 159th session**, March 2013: the Russian Federation announced its intent to propose a new UN Regulation governing emergency call systems.

- **WP 29 at the 160th session**, June 2013: an informal working group (IWG) was established under the Working Party on General Safety (GRSG) for developing the new UN Regulation for emergency call systems.

- **IWG on automatic emergency call systems** started its work chaired by the Russian Federation.

- The UN Regulation draft discussed at IWG meetings:
  - 08 – 10 October 2013 (Geneva)
  - 05 – 06 December 2013 (Paris)
  - 26 – 28 February 2014 (Moscow)
  - 28 – 30 April 2014 (Paris)
  - 02 – 04 September 2014 (Turin)
  - 18 – 20 November 2014 (Prague)
  - 25 – 27 February 2015 (Paris)
  - 31 March – 2 April 2015 (Rüsselsheim)

- The next IWG meeting to discuss the UN Regulation scheduled for 7 – 9 July 2015 (St. Petersburg)
Thank you