

Luxoft Automotive Software

*Android-, Linux-, GENIVI-
and GLONASS-Based
Software Solutions
for In-Vehicle
Infotainment*



- ◆ *Software Product Platforms*
- ◆ *Product Engineering*
- ◆ *Co-Development*



Software Product Platforms

DroidBuzz

DroidBUZZ is the world's first Android-based software platform developed specifically for rear-seat entertainment systems. The new social media-oriented, In-Vehicle Infotainment (IVI) software platform is based on Android 2.2 Froyo. Featuring rich functionality, DroidBUZZ can be easily customized to fit the particular product requirements, allowing manufacturers of rear-seat entertainment systems to significantly reduce time to market and development costs.

Features and benefits of DroidBUZZ:

- ◆ Automotive software platform for Android OEMs (head units, PNDs, entertainment systems) is effortlessly implemented and highly extensible
- ◆ The user interface is customized for the unique needs of in-vehicle use by drivers and passengers
- ◆ Provides for personalized services that evolve throughout the lifetime of the vehicle via downloadable upgrades and apps
- ◆ Accessibility to the Android Market with over 200,000 apps available to users in 131 countries
- ◆ Built-in apps are developed for in-vehicle demands, including Shturmann GPS navigation,
- ◆ Facebook and Twitter social networking, and a variety of other branded automotive apps
- ◆ Supports the capabilities that meet the needs of drivers and passengers, such as location-based services for content delivery and advertising, Bluetooth dial-up networking, 3G USB modems, multimedia services, and wireless connectivity services



DroidBUZZ view

DroidBUZZ

UI Profiles

Features

Geocaching	Mobile Office	Calling
Dynamic POI	Email	Terminal Mode
SIP	Media Player	Browser
Social Networking	Navigation	

Middleware

LuxApp Home Application (Automotive Shell)	Android (+Dalvik)
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Standards

GPS/GLONASS	3G	Camera
Bluetooth	CAN	Board Support
WiFi	DVD	

GLONASS expertise



As of January 2013, it is expected that all cars sold in Russia will have to be equipped with the ERA GLONASS emergency response system. Automotive OEMs will need to develop Russia-specific solutions to stay compliant. As a partner and software provider of NIS GLONASS, an official operator of ERA GLONASS system, Luxoft has the expertise to help reduce time and cost of the compliance. This is how Luxoft can help your company thrive in the booming Russian automotive market:

Luxoft's proposal to OEMs for the migration to ERA GLONASS:

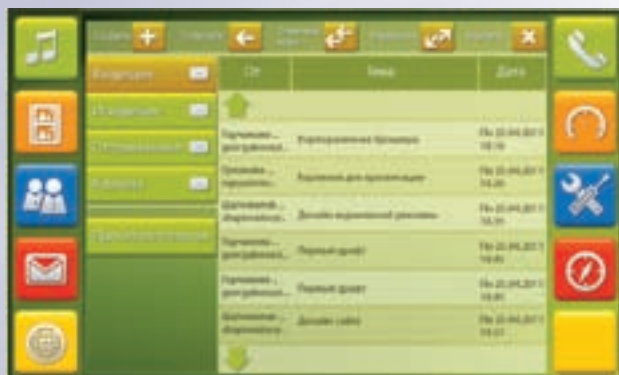
- ◆ Adapt the existing IVI and Telematics systems to ERA GLONASS requirements;
- ◆ Develop complete ERA GLONASS-enabled IVI, Telematics and emergency response systems in cooperation with hardware suppliers;
- ◆ Implement additional services over ERA GLONASS infrastructure to capture the commercial opportunities that the new technology offers;
- ◆ Establish local partnerships.

DashCore

Genivi-ready DashCore product platform empowers OEMs to accelerate the development of head units, virtual instrument clusters, rear seat entertainment systems, personal navigation devices and other in-vehicle infotainment (IVI) systems, while significantly reducing costs. The DashCore platform works with Angstrom Linux and MeeGo operating systems and features a full set of Qt-based user interface components that support multiple functionalities, including navigation, media players, WebKit-based browsers, email clients, and VoIP telephony.

Features and benefits of DashCore:

- ◆ A wide variety of connectivity options that exploit the marketplace, including Wi-Fi, Bluetooth, SD cards, USB, a variety of modems, and cloud services
- ◆ Real-time, location-based personal navigation services with a Shturmann navigation engine, GPS and GLONASS compatibility and NAVTEQ maps support
- ◆ Multimedia features with support for pluggable media, video streaming, music and video playback, and SIP support for multimedia communications
- ◆ Web access with all-over-IP support that includes social networking via Facebook and Twitter, and location-based content delivery



DashCore view

DashCore

UI Profiles

Features

Road Assistant	Mobile Office	Ecall
Dynamic POI	Email	Vehicle Diagnostic
SIP	Media Player	WebKit
Social Networking	Navigation	

Middleware

Android

Standards

GPS/GLONASS	3G	Camera
GSM + ERA Modem	CAN	Board Support
BT/WiFi	DVD	

Alliances, Partnerships & Technology Vendors



Luxoft Engineering Services

www.luxoft.com/automotive

Luxoft develops software applications that are custom-built according to the client's specific requirements.

We offer innovative, high-quality engineering services for the development and maintenance of:

- ◆ In-car infotainment systems
- ◆ Embedded and portable navigation systems
- ◆ On-board avionics (software and hardware)
- ◆ IP / satellite TV applications (DVB)
- ◆ Audio/video tuner application
- ◆ RTU firmware
- ◆ QNX, Linux, WinAuto, Android operating systems
- ◆ HMI development
- ◆ STB software
- ◆ FPGA design
- ◆ Security assessment and fault-tree analysis
- ◆ Factory automation and lab equipment applications
- ◆ SCADA systems
- ◆ Driver/demodulator development

Luxoft advantages

Luxoft's automotive software engineering group is your innovation driver for embedded, real-time and communication control systems. Luxoft brings a Capability Maturity Model Integration (CMMI) level 5 to the development of OEM automotive hardware/software systems, with the following benefits to your product development teams:

Stellar technical qualifications and services

- ◆ Ready- to-implement product platforms
- ◆ In-vehicle testing of devices and technologies
- ◆ Automotive system architecture and design
- ◆ Automotive hardware design and verification experience
- ◆ Virtualization technologies (VMWare)
- ◆ Complex system issues analysis and development
- ◆ Development and optimization of complex algorithms
- ◆ Industry trends vision

Outstanding cross-functional project teams

- ◆ CMMI 5 / SPICE-A graded corporations
- ◆ Multi-site, multicultural teams
- ◆ Deep market and technological expertise
- ◆ Travel readiness
- ◆ Project/Program leadership
- ◆ Deep knowledge of QA processes

About Luxoft

Luxoft is a global software development partner and Eastern European leader. Companies trust our unparalleled technical proficiency, engineering excellence, deep domain expertise, and best-in-class practices to improve business effectiveness and maximize ROI. We add value to Technology Product Companies and IT-enabled enterprises by designing and delivering solutions for increased productivity, accelerated innovation, and optimized IT architecture. With our worldwide offshore infrastructure, extensive network of offices, and longterm investment in R&D, we offer superior service delivery and support across a wide array of industries.

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