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## Mobile Solutions

DataArt has extensive expertise in developing a variety of handset software for the business and entertainment consumer market. Our skills range from production and management of multimedia data on handsets, to the implementation of full-scale solutions that include complicated server-side modules. While this document provides an overview of our mobile expertise, it does not disclose any information on the applications themselves due to confidential agreements with our customers.

## iPhone

Introduced to the market in 2007, the Apple iPhone is the newest and most promising mobile platform, with unique features, such as high computing power, high-quality display and an innovative interface. The mix of features on an iPhone is equally attractive to consumer and enterprise markets both for business and entertainment applications alike.

DataArt has been exploring iPhone capabilities since a beta version of SDK was made available and continues to develop iPhone applications with varying degrees of complexity. We provide the following:

- Development of Web applications and native applications using all features provided by iPhone SDK (including iPhone SDK 3.0)
- Development of a UI according to Apple's recommendations for iPhone application usability
- GPS/LBS development
- System level programming, porting 3rd-party libraries to iPhone
- VoIP/Softphones development

## Windows Mobile/Windows CE

The Windows Mobile platform provides multiple opportunities for business enhancements, including the extension of corporate software to field employees' hand held devices to allow the sending, receiving and processing of information onsite. The platform also allows migrating desktop applications to mobile devices, producing simpler versions with core functionality intact. DataArt completed a significant number of projects on Windows Mobile/Windows CE platforms and excels in application development for mobile devices such as Smartphones and PDAs. These projects include:

- Patient registration systems (touch screen devices used in hospitals for patient registration with a wireless connection to a server)
- Logistics jobs management solutions utilizing PDA GPS capabilities for location tracking
- Various applications for increased productivity (home accounting, finance calculators, foreign language training, currency or unit converters, dictionary, security storage, time management, etc.)

## J2ME

Java Platform, Micro Edition (J2ME) is one of the most common development platforms for mobile applications. The main advantage of J2ME is its ability to use the same code on a wide range of devices. Since modern handsets are very different in their capabilities, the applications running on them should be adapted to each particular device. This process, porting, is usually extremely time consuming and may take more time than the actual application development (in cases when one application targets dozens of handset models).



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DataArt is skilled not only in J2ME development, but also in minimizing the porting time and effort. We use Mobile Distillery's Celsius framework to decrease the amount of code changes necessary for each platform, reducing porting time and simplifying application support.

One of DataArt's recent projects was developing an application that allowed video sharing with J2ME-enabled mobile devices, including video creation, playback, and upload from a mobile phone to a portal, with additional editing of sharing parameters and groups after the upload.

DataArt also recently developed an e-mail client and server application that allows push e-mail functionality on java-enabled handsets. The e-mail client has a rich interface that allows users to view, attach and save images, while supporting numerous user accounts. It comes pre-configured for most popular e-mail services.

### **Blackberry**

The BlackBerry is one of the most popular handheld devices among business users, well-known for its push e-mail feature, a convenient keyboard layout and high security. Commonly used in corporate environments, BlackBerry uses an array of enterprise business applications. DataArt usually uses BlackBerry's native Java libraries, which provide access to all its unique features.

We have completed a number of projects for BlackBerry, from simple enterprise applications to complex platform programming. Some examples include:

- Emergency Notification Client that allows users to send emergency e-mails, text messages and calls from BlackBerry
- Stock Market Monitoring Client to create a set of portfolios, tracking their price changes over time and viewing the price change history.

### **Google Android**

Open Handset Alliance's Android is an emerging mobile platform developed and promoted by Google. Based on Open Source solutions (e.g. Linux kernel), it provides an easy integration with other Google services (maps, shopping, search, etc.). The platform features and the fact that Google supports it make it a viable contender for commercial success. DataArt has researched the platform, participated in a Google Android application contest, and is ready to do any Android R&D or commercial development on request.

Our team participated in the Google Android contest with a prototype of an LBS application that allows car drivers to share information while on the road. Users are tracked and can report incidents they witness with the simple press of a button. DataArt created a full-fledged vehicle alert notification application that utilizes a range of Google programs, such as Google Map for cartography and GTalk for exchanging instant messages, among others.

### **Symbian OS**

Symbian OS is a proprietary operating system developed by Symbian Ltd. and installed on a wide range of mobile devices, including Nokia, Samsung, Sony Ericsson, Motorola and others. A wide range of software was developed for Symbian-based devices, ranging from various business applications to 3D games.

DataArt mobile development expertise includes Symbian OS as a target development platform. We have additionally worked with Symbian to develop various other applications from navigation software with IM capabilities to a low-level call logging utility with many advanced features.

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