



Symbian Mobile Software Development

Rapidsoft Systems believes that high performing technical players are always surging ahead of the competition by doing one thing right – using information technology to build competitive advantage and market share. We use top rung technology and systems integration to provide technology R&D, IT diagnostics, systems integration, technical architectures, business intelligence and infrastructure consulting among others.

We work with more than 2500+ handsets and work with all major US, Canadian, European and Asian carriers. Among the applications that we have developed/ported are some very popular games, mapping applications, city guides, puzzle games, and corporate mobile applications. All these applications are widely distributed by Major US carriers (ATT, T-Mobile, Verizon, Sprint, US Cellular, Alltel etc.). We also work with major European carriers such as Vodafone, Orange, T-Mobile etc. We have over 20 years of experience in mobile technologies in designing mobile applications, mobile phones programming - some of us at Rapidsoft Systems even designed cellular phones, pagers, GSM/ CDMA base stations and cellular switching equipments themselves for companies like Motorola, Nokia and Panasonic.

Symbian Mobile Development by Rapidsoft Systems

Rapidsoft Systems has a long history of working Native Symbian operating systems. Many of our engineers worked with Nokia and Motorola which are the largest producer of Symbian phones. Our engineers not only designed the phone applications but in many instances the phone themselves!. With experience and history, like this - we can do native Symbian applications as good as any one else on the planet. Now of course, in most cases we don't recommend Native applications for any one unless we beleive that application can benefit or can only be done effectively using native level programming. We also port between Symbian to iPhone, Blackberry, Palm devices etc.

I. An Example of a Popular Symbian Game

Rapidsoft specializes in re-doing games from one platform to another. The images below show an example of game screens originally developed on Symbian - this popular game is now available on many other platforms such as iPhone, Blackberry etc. (all rights belong to bubble games). Rapidsoft can do similar game re-write for your applications for wider marketability.



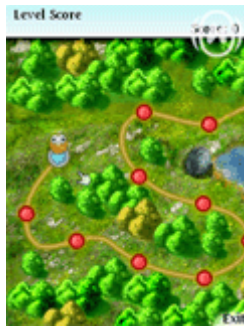
1. Game Screen



2. Game Screen



3. Game Screen



4. Game Screen



5. Game Screen



6. Game Screen

Symbian - the great Mobile O/S

The resource pool at Rapidsoft Systems have industry-leading expertise and experience in development of custom software solutions for mobile phone giants and other Symbian OS smart phones.

Our developers have experience in all Symbian platforms – Series 60, Series 80, Series 90, and UIQ. We have a deep understanding of developing multi-platform applications for mobile phones with different screen, memory and processor capacities.

Understanding Symbian Architecture and Nomenclature

Symbian OS is just the name of the low-level operating system that manages hardware, and the middleware that extract some of these services to the developes. In top of it comes the GUI system. This system is not licensed directly by Symbian with its OS. It's up to each phone manufacturer to develop its own GUI or to license a GUI platform that can runs on top of the OS. There are currently three main GUI systems: Nokia Series 60, Nokia Series 80, UIQ

The S60 platform is the world's most popular smartphone platform. It is implemented in a diverse range of devices and provides application and media developers with a consistent set of technologies. It is capable of advanced enterprise applications, games, or music. The Nokia S60 platform is used in the majority of Symbian OS smartphones shipped to date. Although owned by Nokia, it is also licensed to other handset manufacturers such as Panasonic, Samsung and Siemens. S60 has been designed for easy one-handed use. It does not have a touch screen but instead has various input keys, including two soft keys, a five-way navigator pad (4 ways plus a centre selection button), the number keys and several dedicated keys such as the menu key.

The UIQ Platform is owned by UIQ Technology AB – a wholly-owned subsidiary of Symbian Ltd. The platform originates from a Symbian reference design and is licensed to several handset manufacturers, such as Sony Ericsson, Motorola, BenQ and Arima. UIQ supports both keypad and touchscreen input (through virtual keyboard, handwriting recognition or interaction with typical UI controls). It can be configured with respect to touch/non-touch screens, screen size, the use of a menu bar or the use of soft keys



1. Nokia N91 - S60 Phone



2. S60 Emulator



3. UIQ Emulator

To create applications, developers can use **Symbian C++ (using native Symbian OS and S60 platform APIs)**, a set of open C and C++ APIs, the Java™ language (using MIDP 2.1 with an extensive range of additional JSRs), Web Runtime (WRT) (using standard Web technologies), Flash Lite from Adobe, and Python. Content developers have comprehensive support for audio, image, and video formats. In addition, Flash Lite from Adobe and SVGT can be used for animated content, while the Web Browser for S60 supports standard desktop Web technologies. Artists and graphic designers can create themes for S60 devices that can completely alter a device's look and sound. Once applications and content have been created, support for OMA DRM protects developers' intellectual property.

S60 5th Edition touches new heights in functionality and usability

A new touchscreen capability with tactile feedback, sensor framework, and support for nHD screens brings an unprecedented level of expression and usability to S60 devices. These new features enable application developers to build more features into their UIs using the extra screen real estate, and leverage touch, tactile feedback, location, and sensors to provide users with innovative ways of interacting with applications. Symbian OS provides security at the software level to detect and prevent unauthorised access (to hardware, software or data) which may, for example, lock up the phone, compromise user data, or affect other software or the network.

Long Term Support of Rapidsoft Developed Mobile Applications

Rapidsoft team will be available to provide long term technical support to customer on their Server or web applications. The similar support is available to all customers for their new mobile applications. We can test and certify the phones and will support any issues over the phone from the expert team in India. A support mechanism will be developed with your team.

Here will be key goals:

- Evaluate all new phones as they are announced
- Add them to supported pages if deemed necessary
- Deal with customer issues for any particular phone
- Verify port or functionality as needed
- Add newer functionality to the phone application

Rapidsoft Support For Dealing With US Carrier Certifications, Distribution and Application Deployments

US cellular environment is very different from Europe and Asia. Unlike Asia and Europe, US phones are locked phones and any application distributed must meet carrier guidelines, content policies and securities environments. With our experience of working

with major carriers, we can hold your hand through complex maze of network operator policies of each US cellular operator. Our 20+ years of experience in cellular industry differentiates us with the crowd of novice developers and companies.

Rapidsoft can guide you with distributing your applications through various networks. Because of our relationships, we can deal with content guidelines, and security requirements of each carrier, and will guide you to acquire necessary credentials as applicable from various vendors such as Verisign, Thwate etc. as needed depending upon the phone and carrier requirements. Rapidsoft uses its own signed certificates on our phones for testing.

CDMA applications, if applicable, require True Brew Testing (TBT) certification before they can be offered for distribution and installations. Rapidsoft can guide you through complex process of Qualcomm mandated process of TBT certifications through testing laboratories.

Why Rapidsoft Systems:

With over 350+ software projects executed, you can simply count on our expertise, experience in giving you the right solution at absolutely lowest possible cost. If you would like more information, or want us to submit an estimate or a "no-obligation" quote for your project, contact us for more information.

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