

Nokia software – Open to innovate

At Nokia, we're passionate about creating software that instinctively knits all the different things people can do with their mobile together to make their life easier and more fun.

At one end of the scale people no longer want to just make calls and take pictures. They want to take a picture, tag it and spontaneously share it with their friends either directly or via their social networking site. As mobile devices become more and more advanced the key is not just having great software for the different components but having software that makes it easy to knit those components together so people can do more.

It's also important to further develop rich experiences for the hundreds of millions of consumers, who simply want to make calls, send and receive messages and whose first Internet experience will be via a Nokia mobile device.

Software is our strategic asset. We are deploying the best technologies and building on our strong software stack, as software is the foundation for products and services innovation. However, software alone doesn't matter. Putting compelling device and service innovation in the hands of people is what matters to Nokia.

Nokia is creating a uniquely social interface, that seamlessly connects people to what matters most to them

Nokia designs user interfaces that are natural and beautiful to use, and uniquely 'social' – by integrating the people and places around you and enabling easy connection to your social networks. This brings you closer to the people and content that matter most to you. By respecting different needs and offering ways to personalize, the experience is also always pleasurable and relevant.

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Our software platforms make it possible for Nokia to create a wide range of products and experiences that everyone can fall in love with

Software is the key when driving innovation – its core enabler for our promise. Nokia will empower everyone to share and make the most of their life by offering indispensable personal experiences.

We have four platforms (Symbian, Series 40, Series 30, and Maemo) to address different market and consumer needs and allow us to create devices that range from voice-only to more sophisticated devices right through to the most powerful mobile computers in existence. By providing choice - all with familiar and beautiful designs – you are empowered to do exactly what you want.

• **Symbian** is used in our most advanced mobile devices. It is the market leading OS for multimedia phones and with it you can multitask – browse the Internet while listening to music, read your email while on the phone. You can enjoy Internet innovations such as widgets on your home screen, Flash videos on YouTube and Web 2.0 like Twitter services. Symbian is an open platform, supporting thousands of developers and offering tens of thousand of 3rd party applications.

• **Series 40** is a media rich mobile platform in devices that are already used by hundreds of millions of people. Listen to music, navigate with Nokia Maps, take photos and share them with your friends, install applications including games, and browse the Internet. We have recently added email to the millions of existing Series 40 users through our Mail on Ovi service. In emerging markets Nokia Life Tools provides a range of agricultural information and education services designed especially for the consumers in small towns and rural areas providing timely and relevant information that is customized to the user's location and personal preferences to help boost productivity and earnings.

• **Series 30** is targeted at offering the most cost-effective voice and messaging platform in devices, making it easier for people to go mobile. Series 30 brings reliable mobility to those who want a simple, secure and affordable solution, and enables voice and SMS-based services in areas like emerging markets where people can benefit tremendously from a mobile phone.

• **Maemo** lives on the Internet and not only accesses the Internet, but combines people, context and communication in new ways. Maemo is built on Linux and open source software and is used in Nokia's Internet Tablet devices.

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Next evolution of software expands across platforms and services

The next evolution of software will expand across platforms, providing applications for multiple platforms and devices from a single source code base, based on common skills and tools.

With cross-platform approach, our goal is to make life easier for developers and us by bringing frameworks that will enable writing software that will work on more than one platform. In this way developers can focus their efforts on optimizing the user experience rather than spending time porting their software to different device platforms.

Qt and Web Runtime are examples of cross platform frameworks. Qt enables user interface and application developers to create a better user experience. Using Qt, you can develop applications and user interfaces once, and deploy them across many desktop and embedded operating systems without rewriting the source code. Qt Software, formerly Trolltech, was acquired by Nokia in June 2008.

Nokia offers Qt under both a commercial and open source (LGPL) license. Users can choose the license that best fits their requirements. Licensing Qt under the LGPL allows for no-cost development of proprietary applications. The accelerated development of Qt will allow developers, including Nokia, to leverage improvements in Qt across Symbian, Maemo and OVI services without rewriting the source code.

Web Runtime brings new dynamics to mobile application development. Anyone with Web development and design skills can create exciting Internet experiences for mobile users in just hours or days. For example home screen widgets on Nokia N97 can be implemented using a variety of development environments, including the Web Runtime.

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Nokia embraces open source innovation and is committed to expand adoption of open source in our devices

Nokia continues to adopt open technologies and believes strongly in the value of open source. We have made three key moves to strengthen our commitment to open source. 1) The formation of the Symbian Foundation together with other lead industry players and providing the means to make Symbian and S60 available for free, as a unified Symbian Foundation platform and enabling contributions from the community to develop the software further 2) investments in Qt Software to introduce a more flexible open source licensing model and 3) the Maemo platform is powered by open source development and 80% of its code is based on open source projects.

We believe open source will continue to have a key role in creating exciting user experiences, and we will work actively to further contribute to and to empower the open source community. By making software available to the open source development we are opening up ways for others to innovate on our devices and to bring these innovations to market faster than we could alone.

Working together

Forum Nokia fosters the world's largest mobile developer community with more than 4 million registered developers. It provides technical and business development support for members producing applications for Nokia devices.

The Ovi Store will allow content providers and developers to distribute their media and applications to millions of Nokia consumers. Existing Forum Nokia members can sign up at publish.ovi.com and be the first to distribute their content through the Ovi Store. In the near future, visitors to the Ovi Store will be able to choose content based in their location, social connections and recommendations of their friends.

Ovi Store will be a single channel to address millions of Nokia's Series 40 and Symbian devices. At launch the Ovi Store will have an addressable device base of 50 million Nokia devices and the service is expected to grow to address around 300 million consumers by 2012.