

## NOKIA ANNOUNCES THE NOKIA WAP BROWSER

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The Nokia WAP Browser is a software product that can be ported and integrated to wireless devices, like mobile phones and personal digital assistants (PDAs). By licensing the browser Nokia wants to further encourage the broad adoption of the WAP standard in the mobile device industries. Also the Nokia 7110, the world's first WAP phone, utilizes this browser technology.

"We have seen the need to provide a fully WAP compliant WAP browser to the market. We strongly believe that independent software vendors and content developers will be addressing the WAP market to a full degree only if the basic platform is fully open and common to all major mobile terminal vendors." says Mr. Pertti Lounamaa, Vice President, Nokia Wireless Software Solutions.

Key features of the Nokia WAP browser are its small memory footprint and open architecture with documented APIs that enable the development of custom user interfaces and the integration with multiple hardware platforms, operating systems, and input strategies. The well-defined set of APIs make the browser highly portable.

The Nokia browser software provides a WML user agent to display content created with the wireless markup language (WML), WMLScript engine for execution of applications, support for secure data transmission using WTLS, and the WAP Protocol Stack for transporting data over wireless bearer services. The browser implementation will be fully WAP 1.1 compliant, as defined by the WAP Forum.

The Nokia WAP Browser complements the Nokia WAP product portfolio into a real end-to-end WAP solution, strengthening its position as one of the leading companies in WAP development.

Nokia has introduced several WAP products targeted to consumers, operators and other industry partners. Earlier this year Nokia introduced its first WAP compatible mobile phone, the Nokia 7110 dual band phone and the Nokia WAP Server, the open server platform for mobile applications, targeted to corporations and IT-organizations. A comprehensive, robust messaging platform, Nokia Artus Messaging Platform will enable operators to offer both WAP and messaging value-added services. Nokia is also very active with the third party developers by providing them with information and tools, like the Nokia WAP Toolkit that can be downloaded free of charge from [www.forum.nokia.com](http://www.forum.nokia.com).

WAP is an open global standard for communication between a mobile handset and the Internet or other computer applications. WAP-based technology enables the design of advanced, interactive and real-time mobile services, such as mobile banking or Internet based news services, which can be used in digital mobile phones or other mobile devices. The WAP specification enables solutions from various suppliers to work consistently for end-users on the digital networks. For more information about WAP, see [www.wapforum.com](http://www.wapforum.com).

Nokia is the world's leading mobile phone supplier and a leading supplier of mobile and fixed telecom networks including related customer services. Nokia also supplies solutions and products for fixed and wireless datacom, as well as multimedia terminals and computer displays. In 1998, net sales totaled EUR 13.3 billion (USD 15.7 billion). Headquartered in Finland, Nokia is listed on the New York (NOK), Helsinki, Stockholm, London, Frankfurt and Paris stock exchanges, has sales in over 130 countries and employs more than 47,000 people worldwide. Internet: [www.nokia.com](http://www.nokia.com).

Nokia Wireless Software Solutions is a Nokia unit focusing on the development of WAP technology and mobile solutions and applications for corporations and service providers, as well as mobile software platforms for software developers and system integrators. Internet: [www.nokia.com/corporate/wap](http://www.nokia.com/corporate/wap)

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