Mobile Web services offer new possibilities and extraordinary rewards for the mobile telecommunications market.

Service-oriented architectures (SOAs) implemented with Web services are fundamentally changing business processes supported by distributed computing. These technologies bring forward the promise of services available at any time, in any place, and on any platform. Through mobile Web services, operators can offer new value-added services for their users, explore new business opportunities and increase revenue and customer retention. This expands the commercial opportunities for developers to promote their applications and enables solutions that work seamlessly across computer and mobile environments.

Mobile Web Services is a comprehensive, up-to-date and practical guide to adapting mobile Web services-based applications. The expert author team from Nokia explain in depth the software architecture and application development interfaces needed to develop solutions for these technologies.

Mobile Web Services: Architecture and Implementation:

- Provides a complete and authoritative text on implementing mobile Web services.
- Describes the mobile Service-Oriented Architecture (SOA) concept.
- Covers the discovery, description and security of Web services.
- Explains how to use Simple Object Access Protocol (SOAP) in Web service messaging.
• Discusses the challenges and possibilities of mobile Web services, and gives case studies to illustrate the application of the technology.

• Presents the Nokia Mobile Web Services platform.

• Offers material on developing mobile Web service clients using C++ and Java.

This text is essential reading for wireless Web architects, mobile application developers and programmers, software developers, technical officers and consultants, as well as advanced students in Computer Science and Electrical Engineering.

ABOUT THE AUTHOR

**Frederick Hirsch**, a Senior Architect at Nokia, is responsible for the company’s Web Services standardization strategy, and for security in Web service products. He is an active contributor to the Web Services Security and Digital Signature Services committees of OASIS, and has worked as an editor in the OASIS Security Services technical committee (SAML 2.0). Frederick is also an editor of the Security Mechanisms specifications in the Technical Expert Group of the Liberty Alliance, and has contributed security sections to the Mobile Web Services architecture and specification of the Open Mobile Alliance. He has also participated in the XML Signature and XML Encryption working groups of W3C, and has co-edited the W3C XKMS requirements. He is Nokia’s primary voting representative at OASIS and WS-I, and a member of the OASIS Board of Directors, where he chairs the Strategy Committee. He has extensive experience in distributed systems and security, having worked at AT&T Bell Laboratories, BBN, Open Software Foundation (OSF; later the Open Group Research Institute), and CertCo, as well as a number of smaller companies. He holds degrees from MIT, Stanford, and Boston University.

**John Kemp** has spent the past two years intimately involved in the development of the Nokia Web services architecture. During that time, he has edited and contributed to several Web service specifications, including the Liberty Alliance Identity Federation and Identity Web Services frameworks, and the OASIS Security Services SAML 2 specification. John has been involved in developing Internet-scale software systems since 1996, helping to build one of the first Web browser–based software applications, the Employease Network. Prior to joining Nokia, John was an independent software developer whose clients included Deutsche Bank and the Liberty Alliance. He holds a degree in Computer Science and Artificial Intelligence, and is now learning to play the ukulele.

**Norbert Leser** started his professional life in hardware engineering in Germany, where he pioneered a government-funded research project for a mobile Unix-based computer. He then joined Siemens to develop networking and security software. Soon afterwards, in 1988, he volunteered to help with the establishment of OSF in Cambridge, Massachusetts. He was one of the leading architects to conceive and integrate the Distributed Computing Environment (DCE), of which several concepts
are reoccurring in Web service technologies. After a long journey at OSF, Norbert began to work with startup companies that address the usability of information security. Most notably, he assumed the role of Chief Architect at Liquid Machines in breaking new ground with a highly intuitive and easy-to-use enterprise rights management product line. Norbert joined Nokia’s Strategic Architecture group, where he assumed responsibility for bringing Web service technologies to mobile devices in a way that is useful and non-intimidating to users and developers. He currently works specifically on providing guidance for development tools.

The rest of the authors and editors of this book hold various positions at Nokia. Jani Ilkka is an independent publishing consultant.

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