



# IMS Application Developer's Handbook: Creating and Deploying Innovative IMS Applications

By *Rogier Noldus, Ulf Olsson, Catherine Mulligan, Ioannis Fikouras, Anders Ryde, Mats Stille*

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**IMS Application Developer's Handbook: Creating and Deploying Innovative IMS Applications** By Rogier Noldus, Ulf Olsson, Catherine Mulligan, Ioannis Fikouras, Anders Ryde, Mats Stille

- Clear, concise and comprehensive view of IMS and Rich Communication Suite (RCS) for developers
- Shows how to use RCS to create innovative applications for rapid uptake by end-users
- Covers service and operator scenarios for the IMS architecture
- Explains IMS architecture and protocols, from an application developer's perspective

IMS Application Developer's Handbook gives a hands-on view of exactly what needs to be done by IMS application developers to develop an application and take it "live" on an operator's network. It offers practical guidance on building innovative applications using the features and capabilities of the IMS network, and shows how the rapidly changing development environment is impacting on the business models employed in the industry and how existing network solutions can be moved towards IMS. Elaborating on how IMS applies basic VoIP principles and techniques to realize a true multi-access, and multimedia network, this book ensures that developers know how to use IMS most effectively for applications.

Written by established experts in the IMS core network and IMS service layer, with roots in ISDN and GSM, with experience from working at Ericsson, who have been active in standardisation and technology development and who have been involved in many customer projects for the implementation of fixed mobile converged IMS network and service. The authors of this book bring their in-depth and extensive knowledge in the organizations involved in the IMS standardization and its architecture.

- Clear, concise and comprehensive view of the IMS and Rich Communication Suite (RCS) for developers
- Written by established experts in the IMS services layer, who have been involved in many customer projects for the implementation of fixed mobile converged IMS network and service
- Covers potential service and operator scenarios for the IMS architecture; it is significantly more than merely a description of the IMS standards

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## **Editorial Review**

From the Back Cover

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### **About the Author**

Rogier Noldus is expert at Ericsson Telecommunicatie B.V. in Rijen, The Netherlands. He has been involved in Intelligent Networks (IN) standardization and has driven the development of CAMEL within Ericsson. He has subsequently made a switch to IP multimedia system (IMS) and is now focusing on the integration of GSM and IMS networks, covering areas such as Next generation IN, Fixed mobile convergence, Media transmission, Multi access, Value added services (e.g. enterprise service such as IP Centrex) and Next generation networks.

He holds a B.Sc. degree (electronics) from the Institute of Technology in Utrecht (The Netherlands) and a M.Sc. degree (telecommunications) from the University of The Witwatersrand (Johannesburg, South Africa). He joined Ericsson in 1996. Rogier's telecommunications roots lie in South Africa, where he worked for Siemens, Telkor and Telecommunications Manufacturers of South Africa (TMSA).

Rogier is the author of the book "CAMEL, Intelligent Networks for the GSM, GPRS and UMTS network" (Wiley, 2006) and is the author of various patents / patent applications in the area of Intelligent Networks, IMS and Fixed mobile convergence.

Ulf Olsson is Senior Expert at Ericsson's Business Unit Multimedia, with a main interest in application architecture. He entered the world of programming forty years ago, working with large scale software system

architectures for the past thirty. Initially, these efforts were in the field of distributed high performance systems for shipborne command and control, but as it turned out the principles and experiences from that field were surprisingly applicable also to the design of mobile packet data systems. He has been with Ericsson since 1996, being involved with systems like GPRS, PDC, UMTS, cdma2000 and - of course - IMS. His professional focus has recently shifted to the next level of abstraction: how to support and automate the business processes of a communications service provider.

He holds a M.Sc. in engineering physics from Stockholm's Royal Institute of Technology, having also spent a scholarship year at Dartmouth College, New Hampshire. He is the co-holder of a number of patents in the mobile communications area, and is a frequent contributor to Ericsson Review.

Catherine Mulligan is a Research Fellow at Imperial College, London. Catherine's research focuses on the emerging technologies of the communications industries and the creation of new business models around the data streams associated with them. She has 15 years industrial experience in the communications industries, including 10 years at Ericsson. She holds several patents and is the author of several books on the economics and technologies of the mobile industry. Catherine holds an MPhil in Engineering and PhD in Economics from the University of Cambridge and a BSc (Hons 1) in Business Information Technology from UNSW, Australia.

Ioannis Fikouras is currently chief architect for Services & Software at Ericsson Research. He joined Ericsson in 2005 to pioneer the application of service composition for IN, IMS and Internet services within Ericsson. His work produced the Ericsson Composition Engine (ECE) and other technologies. Ioannis then made the switch to the real world to work as Strategic Solution Manager for Ericsson Global Services in the area of IMS and Service Delivery Platform (SDP).

He has been active as a technology strategy consultant for the European Commission Directorate General for the Information Society and other national European research organisations since 2001.

Ioannis holds a degree in computer science from the University of Bremen, Germany, where he also earned a doctorate degree on Service Composition. He is the author of numerous papers and book contributions on service composition as well as various patents on service-oriented technologies in the telecommunications domain.

Anders Ryde is expert in network and service architecture within Ericsson AB in Sweden. He joined Ericsson in 1982 and has a background in network and service architecture development for multimedia enabled telecommunication, targeting both enterprise and residential users. He has been working with the evolution of IMS and IMS based services for more than a decade and is currently engaged in the ongoing evolution of mobile telephony service and networks to all IP and IMS. He holds a M.Sc. in electrical engineering from the Royal Institute of Technology, Stockholm.

Mats Stille is currently holding an Expert position with Ericsson in Stockholm. He has a background in mobile telephony core network system management related work around standardisation, network and service architecture development including terminal aspects, and also acting as technical leader in teams.

He joined Ericsson in 1985 started working with core network functions of 1G analogue mobile telephony systems such as TACS and AMPS, but was soon pioneering 2G GSM standards and its development in the late 80's and early 90's. He has also worked with the Japanese 2G PDC system, 3G UMTS- and 4G systems.

Mats has been representing Ericsson for four years in the GSMA/RCS committee where he was focusing on IMS core, video and voice related services, and has been the GSMA official editor of the committee's

specification on MMTel packet switched voice.

He has studied Mathematics at the University of Stockholm, Sweden.

## Users Review

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