



# EPC and 4G Packet Networks, Second Edition: Driving the Mobile Broadband Revolution

*By Magnus Olsson, Catherine Mulligan*



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## **EPC and 4G Packet Networks, Second Edition: Driving the Mobile Broadband Revolution** By Magnus Olsson, Catherine Mulligan

Get a comprehensive and detailed insight into the Evolved Packet Core (EPC) with this clear, concise and authoritative guide - a fully updated second edition that covers the latest standards and industry developments. The latest additions to the Evolved Packet System (EPS) including e.g. Positioning, User Data Management, eMBMS, SRVCC, VoLTE, CSFB. A detailed description of the nuts and bolts of EPC that are required to really get services up and running on a variety of operator networks. An in-depth overview of the EPC architecture and its connections to the wide variety of network accesses, including LTE, LTE-Advanced, WCDMA/HSPA, GSM, WiFi, etc. The most common operator scenarios of EPS and the common issues faced in their design. The reasoning behind many of the design decisions taken in EPC, in order to understand the full details and background of the all-IP core

### NEW CONTENT TO THIS EDITION

- 150+ New pages, new illustrations and call flows • Covers 3GPP Release 9, 10 and 11 in addition to release 8 • Expanded coverage on Diameter protocol, interface and messages • Architecture overview • Positioning • User Data Management • eMBMS (LTE Broadcasting) • H(e)NodeB/Femto Cells • LIPA/SIPTO/Breakout architectures • Deployment Scenarios • WiFi interworking • VoLTE/MMTel, CS fallback and SRVCC
- SAE is the core network that supports LTE, the next key stage in development of the UMTS network to provide mobile broadband. It aims to provide an efficient, cost-effective solution for the ever-increasing number of mobile broadband subscribers
- There is no other book on the market that covers the entire SAE network architecture; this book summarizes the important parts of the standards, but goes beyond mere description and offers real insight and explanation of the technology
- Fully updated with the latest developments since the first edition published, and now including additional material and insights on industry trends and views regarding future potential applications of SAE

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## **Editorial Review**

From the Back Cover

Future mobile access networks will require upgraded telecommunications networks; 3G LTE/ SAE is the next step, allowing data rates above 100 Mbps. Telecommunications engineers will need to understand the new SAE/ EPC architecture and its tendency towards automatic configuration, but the complexity, length and dryness of the standards documents make it difficult for them to find the information they need and work out how to apply it to their daily product and network development.

This book – a new edition of SAE and the Evolved Packet Core – provides clear, concise and comprehensive coverage of the entire SAE/ EPC architecture, explaining concepts and standards and how they are used in commercial service settings. More than just a précis of the standards, it gives real insight into their development and the real-world scenarios in which they have been used since the publication of the first edition. This second edition places more emphasis on key aspects such as mobile systems and protocols (Diameter, GTP, S1-AP), and includes new coverage of femtocells, SIPTO, LIPA, LTE relay and LTE Advanced.

### **About the Author**

Magnus Olsson is an expert in system architecture and standardization at Ericsson. He has worked with the overall mobile network architecture since joining Ericsson in 1995 and has over 10 years of experience in the standardization of mobile systems. He served as the chairman of 3GPP TSG SA WG2 (Architecture Working Group) for four years and has contributed to numerous specifications within this forum. He has been involved in driving the System Architecture Evolution (SAE) work item since its inception within 3GPP. He holds an MSc in Applied Physics and Electrical Engineering from the Linköping Institute of Technology.

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.

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