



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

*Magnus Olsson, Catherine Mulligan*

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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

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- 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
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- 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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