Software Defined Mobile Networks (SDMN)

Concepts and Challenges
Madhusanka Liyanage, Andrei Gurtov, Mika Ylianttila

Software Defined Networking (SDN) and Network Function Virtualization (NFV) concepts based Software Defined Mobile Network (SDMN) architecture is one of the promising technologies which are expected to solve the existing limitations in current mobile networks. SDMN architecture provides the required improvements in flexibility, scalability and performance to adapt the mobile network to keep up with the expected future mobile traffic growth.

Software Defined Mobile Networks: Concepts and Challenges describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN and NFV concepts will also open up new opportunities for traffic, resource and mobility management, as well as impose new challenges on network security.

Covered topics of this book include:
- Fundamentals of SDN, NFV concepts and the evolution of mobile networks
- SDMN Architecture and Network Implementation
- Traffic Transport and Network Management in SDMN:
- Resource and Mobility Management in SDMN
- Security Challenges in SDMN
- Techno-Economic Aspects

By the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband networks. Furthermore, the reader will find to cutting-edge knowledge in areas such as network virtualization, SDN and cloud computing concepts relevant to next generation mobile networks.

Software Defined Mobile Networks: Concepts and Challenges is recommended for designers of new telecommunication devices, network engineers implementing new technologies in the operator network, researchers working in the area of next generation mobile network, and students working on Master or Doctoral theses in the areas of network security, mobility management, and Techno-economics.

Cloth | 456 pages
2015 | ISBN 978-1-118-90028-4
USD $125.00 | £79.50 | €94.54

How to order:
EUROPE, MIDDLE EAST, ASIA & AFRICA
John Wiley & Sons Ltd
Tel: +44 (0)1243 843294 Fax: +44 (0)1243 843296
E-mail: cs-books@wiley.co.uk
www.wiley.com

GERMANY, SWITZERLAND & AUSTRIA
Wiley-VCH Verlag GmbH
Tel: +49 6201 606 400 Fax: +49 6201 606 184
E-mail: service@wiley-vch.de
www.wiley-vch.de

How to order:
EUROPE, MIDDLE EAST, ASIA & AFRICA
John Wiley & Sons Ltd
Tel: +44 (0)1243 843294 Fax: +44 (0)1243 843296
E-mail: cs-books@wiley.co.uk
www.wiley.com

GERMANY, SWITZERLAND & AUSTRIA
Wiley-VCH Verlag GmbH
Tel: +49 6201 606 400 Fax: +49 6201 606 184
E-mail: service@wiley-vch.de
www.wiley-vch.de

Connect with us:
facebook.com/WileyCommsTech
twitter.com/WBComms

Coming Soon!