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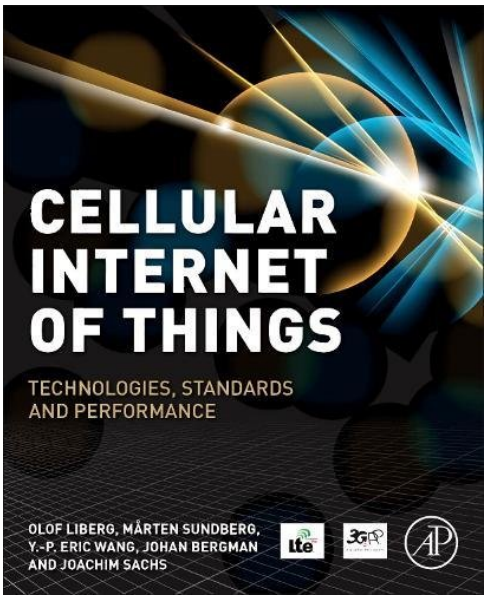

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Cellular Internet of Things: Technologies, Standards, and Performance

From the Back Cover Learn the technologies and standards defining the Cellular Internet of Things! Cellular Internet of Things: Technologies, Standards, and Performance gives an insight into the recent and rapid work performed by the Third Generation Partnership Project (3GPP) to develop systems for the Cellular Internet of Things. It presents both the design of the new Narrowband Internet of Things (NB-IoT) technology and how Global System for Mobile Communication (GSM) and Long-Term Evolution (LTE) have evolved to provide Cellular Internet of Things services. The criteria used for the design and the objectives of the standardization work are explained, while the technical details and performance of each technology are presented. This book discusses the overall competitive landscape for providing wireless connectivity for the Internet of Things and introduces a few of the most promising proprietary technologies operating in the market, providing a comparison between these and the solutions standardized in 3GPP. Finally, a glance of how Cellular Internet of Things fits into the vision of a fifth generation communication system will be provided. Key features: Provides a detailed introduction to the EC-GSM-IoT, LTE-M, and NB-IoT technologies. Presents network performance of the 3GPP cellular technologies together with an analysis of the performance of noncellular alternatives operating in unlicensed spectrum. Includes prediction of true performance levels using state-of-the-art simulation models developed in the 3GPP standardization process. Learn: How cellular systems work, and how they can be designed to cater for challenging new requirements emerging in the telecom industry. How the physical layers and the procedures in idle and connected mode look like in EC-GSM-IoT, LTE-M, and NB-IoT. What the expected performance of these new systems is in terms of expected coverage, battery lifetime, data throughput, access delay time, and device cost. How the Low-Power-Wide-Area IoT market segment looks like and how different available solutions compare in terms of performance and compatibility with already existing radio networks. What system capacity and network level performance can be achieved when deploying these new systems, and in addition what deployment options are possible. Read more About the Author Olof Liberg is a Master Researcher at Ericsson Business Unit Networks. After studies in Sweden, USA, Germany and Switzerland he received a Bachelors degree in Business and Economics and a Masters degree in Engineering Physics, both from Uppsala University, Sweden. He joined Ericsson in 2008 and has in recent years specialised in the design and standardisation of cellular systems for machine type communications and Internet of Things. He has over the years actively contributed to the work in several standardization bodies such as 3GPP, ETSI and the MulteFire Alliance. He was the chairman of 3GPP TSG GERAN, and its Working Group 1, during the 3GPP pre-study on new radio access technologies for Internet of Things leading up to the specification of EC-GSM-IoT and NB-IoT.Mrten Sundberg is a Senior Specialist in GSM radio access technology at Ericsson Business Unit Networks. After studies at Uppsala University in Sweden, receiving a Masters degree in Engineering Physics, he joined Ericsson in 2005, and has continued his work at

Ericsson with focus on physical layer and RF related standardization as a 3GPP delegate since 2006, and later also as a delegate in the ETSI Technical Committees Mobile Standards Group. As Rapporteur of the 3GPP TSG GERAN Work Item on EC-GSM-IoT he led the technical work to standardize the new GSM-based features dedicated for Internet of Things.Y.-P. Eric Wang is a Principal Researcher at Ericsson Research. He holds a PhD degree in electrical engineering from the University of Michigan, Ann Arbor. In 2001 and 2002, he was a member of the executive committee of the IEEE Vehicular Technology Society and served as the society's Secretary. Dr. Wang was an Associate Editor of the IEEE Transactions on Vehicular Technology from 2003 to 2007. He is a technical leader in Ericsson Research in the area of Internet of Thing (IoT) connectivity. Dr. Wang was a co-recipient of Ericsson's Inventors of the Year award in 2006. He has contributed to more than 100 U.S. patents and more than 50 IEEE articles.Johan Bergman is a Master Researcher at Ericsson Business Unit Networks. He received his Masters degree in Engineering Physics from Chalmers University of Technology in Sweden. He joined Ericsson in 1997, initially working with baseband receiver algorithm design for 3G cellular systems. Since 2005, he has been working with 3G/4G physical layer standardization in 3GPP TSG RAN Working Group 1. He has contributed to more than 50 U.S. patents. As Rapporteur of the 3GPP TSG RAN Work Items on LTE for Machine-Type Communications (MTC) in Releases 13, 14 and 15, he has led the technical work to standardize the new LTE-based features dedicated for Internet of Things.Joachim Sachs is a Principal Researcher at Ericsson Research. After studies in electrical engineering in Germany, France, Norway and Scotland, he received a diploma degree from RWTH Aachen University, Germany, and a PhD from Technical University of Berlin. He is with Ericsson since 1997 and spent a sabbatical as visiting scholar with Stanford University in 2009. Dr. Sachs has worked on various topics in the area of wireless communication systems, and in recent years with a focus on 4G and 5G design for machine-type communications and Internet of Things. Since 1995, he has been active in the IEEE and the German VDE Information Technology Society, where he is currently co-chair of the technical committee on communication networks and systems. He serves on the editorial board of the IEEE Internet of Things Journal. In 2006, he received the Ericsson Inventor of the Year award and in 2010 the research award of the Vodafone foundation for scientific research. Read more

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