

Reading sample



Wi-Fi out of the box

Future-proof and flexible access point management

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Table of content

Introduction	3
What businesses expect from their Wi-Fi	4
Wireless freedom in everyday work	5
What is the current business standard?	5
Where do companies use Wi-Fi?	5
Which applications run over Wi-Fi?	6
Key challenges	7
Ensuring optimum quality	8
Future developments in the Wi-Fi area	10
Conclusion	12
Study design and sample	13
Further information	14

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Introduction

A wireless local area network (WLAN), or Wi-Fi network, has become a core application in companies these days. The benefits of networking: seamless collaboration, mobility, flexibility, scalability and convenience are indispensable for companies. A reliable and capable IT network is essential and the prerequisite for the vast majority of business processes. Networking ensures digital communication between employees and customers, high-speed access to information and services and simplified data transmission. This leads to efficient working environments, increased productivity and added value.

Laptops, smartphones and numerous IoT devices are becoming more and more powerful and thus increasing the demands on the IT network. As the number of mobile devices, data-intensive applications and data volumes all grow, the expectations placed on the network infrastructure performance, flexibility, and quality also increase. The sound planning and implementation of a professional Wi-Fi according to the needs of the companies contributes to providing a reliable and secure wireless IT network connection. If the number of devices with their data transfer requirements exceeds the capacity of the IT network, the performance suffers, the susceptibility to interference increases and work processes are slowed down or even interrupted.

Data loss and economic damage such as loss of productivity and revenue are the consequences. Outdated IT networks with low radio frequencies can no longer meet the growing data transfer challenges and quickly turn into bottlenecks. Networks operating at 2.4 GHz and 5 GHz radio frequencies are by now reaching their capacity limits at high utilisation and peak loads. With Wi-Fi 6E, which is based on the current Wi-Fi generation Wi-Fi 6, a 6 GHz radio frequency band is made available for Wi-Fi technology that ensures faster, more stable, low-latency, high-bandwidth connections.

This study addresses the question: What priorities do companies pursue in the context of their Wi-Fi infrastructure? The study also provides answers to the following questions: What is the current status quo, in what spatial conditions is Wi-Fi used and which business applications run over Wi-Fi? What are the requirements for IT network management? And what are the data utilisation and performance challenges that companies are likely to face over the next five years?

The study “Wi-Fi out of the box” was designed in cooperation with LANCOM Systems and carried out by techconsult.



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