Connectivity and Beyond – Device Management Domain

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Short description:

Device Management and Provisioning are essential processes that ensure Customer Premises Equipment (CPEs)—such as routers, set-top boxes (STBs), and IoT devices—are properly configured, updated, secured, and maintained.

This presentation explores the evolution of device management and provisioning solutions in the telecommunications market. Early solutions provided only basic configuration capabilities and merely ensured that devices were connected. Later versions introduced advanced features such as massive firmware upgrades and enhanced security settings.

With the adoption of standardized protocols, operators gained the ability to monitor a wider range of key performance indicators (KPIs) across large device fleets. These insights became crucial not only for device operation but also for maintaining Quality of Experience (QoE) for end users.

Today, the focus is on leveraging AI-driven applications to predict events, identify root causes of issues, and proactively enhance QoE. This presentation will highlight the most significant advancements and ongoing developments in this field.

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More about Pavle Skocir:

Pavle Skočir is a Technical Account Manager at Axiros, a software company specializing in carrier-grade solutions for device and customer experience management, primarily in the telecommunications sector. Since joining Axiros in 2022, he has focused on monitoring solutions for access and WiFi networks. Prior to this role, he was an Assistant Professor at the University of Zagreb, Faculty of Electrical Engineering and Computing, where his research centered on the Internet of Things (IoT) domain, with a particular emphasis on energy efficiency in IoT-systems and interoperability of IoT-platforms. He contributed to eight research projects funded by international and national sources and authored over 30 scientific papers.