Automate Minimization of Drive Tests for QoE Provisioning: The Case of Coverage Mapping

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Abstract

The concept of Minimization of Drive Tests (MDT) has been developed in Third Generation Partnership Project (3GPP) specifications standard. With MDT, Mobile Network Operators (MNOs) were enabled to remotely collect measurements indicating the network Quality of Service (QoS), as experienced by their users, correlated with actual location information. This results in wider application of use cases that allows network monitoring and optimization, without the need for conventional drive tests. To facilitate access to distributed geospatial data through a set of policies, common rules, and standards that would improve interoperability, this paper, proposes an open architecture, in compliance with the Open Geospatial Consortium (OGC) web services and the MDT architectures, enabling the automation of the MDT use cases and real-time service management.

References

1. 3GPP, 3rd Generation Partnership Project. Evolved Universal Terrestrial Radio Access
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**Index Terms**

Computer Science  
Applied Sciences

**Keywords**

Cellular radio coverage, quality of experience, quality of service