

Integration of Mobile Context in the Diagnosis of Small Cell Networks

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Abstract:

Context information of mobile terminals (time, service, activity, identity and location) is becoming increasingly available for operators. The present work proposes a mechanism for the application of this context data in the failure management of cellular networks, improving fault diagnosis compared to previous approaches. The defined approach aims to the smooth integration of context information into the already existent failure management general procedures. This is achieved by means of using context-based weighting of mobile terminals radio measurements. The proposed mechanism is then evaluated in a simulated LTE small cell network scenario.