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Simulation tools: inherited features and newly implemented capabilities

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Abstract:

This deliverable provides a brief description of the AROMA simulation tools set capabilities at a project initial stage. This document is an overview of the main functional blocks, inputs, models and algorithms and simulation strategies of each simulation tool, including the evaluation of the algorithms proposed and developed within AROMA-WP3, as well the future work that will extend the capabilities of these simulation tools. These tools are complementary, in a project framework context, each of them being more focused on a given topic. Therefore, the whole set provides and covers a wide range of RRM/CRRM models, algorithms, services, network strategies and architectures.

Keyword list: Wireless Heterogeneous Simulation tools, GERAN, UTRAN, WLAN

DISCLAIMER

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EXECUTIVE SUMMARY

This deliverable provides a brief description of the AROMA simulation tools set capabilities at a project initial stage. After a brief introduction, the document summarises the link level and system level simulator tools as well as the core network simulators that each partner will use in the AROMA framework. For every simulator tool available, in section 2, the inputs, architecture, models and algorithms and the outputs are briefly described. Besides the current status, section 3 describes the new features that have been or will be implemented in some of the simulators, in order to enable the studies planned in AROMA. Finally, section 4 provides a global perspective of the already described AROMA simulations tool set in order to highlight the simulators' common features, and show them as a real set of complementary tools.