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D18
Integrated Test-bed

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Abstract:

This deliverable describes the integrated EVEREST testbed developed that has been designed to provide a flexible HW/SW tool able to test in a realistic but easy way the different Radio Resource and QoS Management algorithms proposed in WP3. Its proper working has been checked according to the test and validation plan described in deliverable D09 and the obtained results of this set of trials are included in this document. In addition a user guide has been also included.

Keyword list: EVEREST Demonstrator, Integration methodology, Testing procedures

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EXECUTIVE SUMMARY

This deliverable aims at providing details of the integrated EVEREST testbed, especially those that were not enough refined in D12, and also the results obtained during the integration of the different parts following the methodology and the specific tests described in D09.

In addition, and understanding that the EVEREST testbed must be considered as a tool for testing different scenarios related with the heterogeneous networks management issues. A complete user guide is provided in order to facilitate its use by external to the consortium personnel.

In summary, this document describes the integrated EVEREST testbed, provides a testbed user guide and summarises the results obtained by performing in total 57 different tests, split in: 11 tests devoted to the hardware platform validation, 20 tests devoted to individual validation of the software blocks that emulates the different modules and functionalities, 6 tests devoted to validate the applications, 10 tests performed during the integration procedure, and finally 10 tests devoted the performances of the overall EVEREST testbed.

Notice that at the end of this exhaustive testing process, we feel very confident that the integrated EVEREST demonstrator is compliant with the 3GPP, IEEE and IETF specifications, because the different emulated layers are. So the proposed CRRM/RRM/BB algorithms are going to be tested in a demonstrator that reproduces the relevant behaviour of the different layers related with the Radio Resource and QoS Management.

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