

**AROMA IST-4-027567****D16*****Integrated Testbed*****Contractual Date of Delivery to the CEC: 30-06-2007****Actual Date of Delivery to the CEC: 6-07-2007****Editor: Dev Pramil Audsin (KCL)****Author(s): See list****Participant(s): UPC, KCL, PTIN****Workpackage: WP4****Est. person months: 49****Security: Public****Nature: Prototype/Report****Version: 001****Total number of pages: 56****Abstract:**

This deliverable describes the integrated test-bed developed by the AROMA project. The HW/SW tools and the integrated protocol suite for mobility, radio resource and QoS management proposed in the project are presented. In addition a user guide has also been included.

Keyword list: Integrated test-bed, Integration methodology, AROMA Demonstrator

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EXECUTIVE SUMMARY

The scope of this deliverable is to provide details of the integrated AROMA testbed suite, in particular the protocols involved and the inter-process communication procedures between the various entities involved in the testbed are described.

The testbed definition and presentation is not the intent of this deliverable. The information presented in deliverable “D07 - Testbed Specification” should be used as the reference to understand the testbed architecture and available functionalities. However this document describes the testbed functionalities that were not enough defined in D07 and therefore it can be considered as an extension to D07.

The integrated AROMA testbed can be used as a demonstrator to test the protocols compliant with the 3GPP, IEEE and IETF specifications. After reading the user manual provided in this document, interested organizations or persons can use the AROMA testbed protocol stack out of the box. Also, the architecture of the testbed is modular and hence extensions or modifications to one element can be made easily with very little modifications to other elements of the stack. This document provides the architecture of the message structure passed between the elements of the protocols for the researchers to further enhance or replace the existing protocols with their own protocols and test the operations with respect to other elements of the protocol stack.

In summary, this document describes the integrated AROMA testbed and the supported procedures. Also a section is dedicated for including the testbed user guide.

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