



MORPHEUS

D5.1: Specification of application test cases

CONTRACT NO	MORPHEUS IST 027342
TYPE OF DOCUMENT	Publishable abstract of the D5.1
DATE	10/07/2006
ABSTRACT	This document is the abstract of the D5.1. It is available on the MORPHEUS public website
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WORKPACKAGE	WP5
CONFIDENTIALITY LEVEL	PU
FILING CODE	MORPHEUS-INTRACOM-O-ABSTRACT-D5.1-R1.1



Deliverable D5.1 (Specification of application test case) provides an in depth description and detailed specification of the applications selected as test vehicle for the evaluation of MORPHEUS approach. The document justifies the selection of the case studies with respect to their features, in order to allow the evaluation of the MORPHEUS approach in different domains. More specifically, the applications described in the specific deliverable have been borrowed from the following domains:

- Wireless telecommunications – a baseband OFDM radio implementation that will switch between two standards: IEEE 802.11a for indoor operation and IEEE 802.16 for outdoor operation.
- Network routing systems – a reconfigurable SONET/SDH framer and overhead processor.
- Systems for intelligent cameras – a reconfigurable system that will perform a variety of processing functions on images captured in real time.
- High definition video/digital film technology – a platform for high data rate (pre-)processing and compression of high-definition video.

The role of the deliverable is three fold:

- To provide application specific details so as to present an initial list of requirements as far as the technology required by the final MORPHEUS platform is concerned. In that context, there is continuous co-operation between the partners of WP2, WP3 and WP5 in order to identify effectively the actual needs of the four case studies and too provide the necessary technical specifications so as to develop the MORPHEUS platform in a way that fully covers the requirements of the four case studies.
- To provide background information for the training activities that will take place in the context of WP8. In conjunction with technical details presented in D5.2 and D5.3, the trainees will be able to gain insight in the experience gained and problems encountered during the design of four different case studies with complementary features and requirements.
- To investigate the actual needs of the four case studies, and trigger some initial discussions in the context of WP6 about the potential exploitation of the MORPHEUS technology in the four application domains.



Supported by the IST-Programme

Sixth EU Framework Programme for Research and Technological development