

# PUBLIC



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## Abstract

This document, part of workpackage 7, is intended to report SUIT contributions to standardization bodies. SUIT contributed to MPEG, DVB and IEEE in a total of 18, 4 and 1, respectively.

**Keyword list:** Standardisation

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## Standardization Report

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## 1 Introduction

This Deliverable reports all contributions to the standardization bodies, namely MPEG, IEEE and MPEG. Therefore it is divided into two sections.

### 1.1 MPEG

The following list shows SUIT contribution to MPEG:

1. M. Santos, A. Silva, A. Navarro, "MPEG-4 VLD+IQ+IDCT Implementation on a Virtex-II," ISO/IEC JTC1/WG11 Doc. M13139, April 2006.
2. A. Silva, J. Tavares, A. Navarro, "MPEG-4 Testbed for Video IDCT Specification," ISO/IEC JTC1/WG11 Doc. M13140, April 2006.
3. A. Silva, J. Tavares, A. Navarro, "MPEG-4 Test Results for Video IDCT Specification," ISO/IEC JTC1/WG11 Doc. M13141, April 2006.
4. Arianne T. Hinds, Yuriy A. Reznik, Phoom Sagetong, Honggang Qi, Siwei Ma, Antonio Navarro, "MPEG-4 Test Results for Video IDCT Specification," ISO/IEC JTC1/WG11 Doc. M13311, April 2006.
5. A. Navarro, "Cross-check of Improved Fixed-Point DCT/IDCT Implementation Scheme with Low Complexity and High Fidelity (M13256)," ISO/IEC JTC1/WG11 Doc. M13376, April 2006.
6. M. Santos, A. Silva, A. Navarro, "H.264 Deblocking Filter Implementation on a Virtex-II," ISO/IEC JTC1/WG11 Doc. M13620, Jul 2006.
7. A. Navarro, "Crosscheck report on fixed-point DCT/IDCT algorithms," ISO/IEC JTC1/WG11 Doc. M13701, Jul 2006.
8. Yuriy Reznik, Arianne Hinds and A. Navarro, "On Complexity Criteria and Metrics for MPEG Fixed-Point IDCT Standard," ISO/IEC JTC1/WG11 Doc. M13703, Jul 2006.
9. A. Navarro, Y. Reznik and A. Silva, "Improved IDCT", ISO/IEC JTC1/WG11 Doc. M13800, Oct 2006.
10. A. Navarro, Y. Reznik and A. Silva, "Improved IDCT-Replacing M13800", ISO/IEC JTC1/WG11 Doc. M13803, Oct 2006.

11. A. Navarro, M. Santos, "Hardware implementation of full search H.264 motion estimation", ISO/IEC JTC1/WG11 Doc. M13989, Oct 2006.
12. A. Navarro, A. Silva, "Performance in MPEG-4 of five submitted integer IDCTs for CD", ISO/IEC JTC1/WG11 Doc. M13990, Oct 2006.
13. A. Navarro, "Crosschecking an integer 16 bit IDCT (M13791)", ISO/IEC JTC1/WG11 Doc. M13992, Oct 2006.
14. A. Navarro, "Cross check of proposed additional (CE-stage) IDCT designs", ISO/IEC JTC1/WG11 Doc. M14003, Oct 2006.
15. A. Navarro, A. Silva and Y. Reznik, "A Correction on Scalable Fixed-Point 8x8 FDCT/IDCT for CD selection", ISO/IEC JTC1/WG11 Doc. M14078, Jan 2007.
16. A. Navarro, "Cross-checking 9 LLM11-based scaled algorithms from the CE", ISO/IEC JTC1/WG11 Doc. M14254, Jan 2007.
17. A. Navarro, "Comments on Evaluation Procedure for CD Selection in Hangzhou", ISO/IEC JTC1/WG11 Doc. M14255, Jan 2007.
18. Dan Cernea, Adrian Munteanu, Maryse Stoufs, Alin Alecu, Jan Cornelis, Peter Schelkens, "Error-resilient profile for MESHGRID: robust encoding of the reference-grid," MPEG 78, MPEG 2006/m13883, Hangzhou, China.

Most of the submissions above are related to the new integer transform already standardized and to create awareness with respect to application layer error-resilience techniques.

## 1.2 IEEE

The following list shows SUIT contribution to IEEE:

1. Eli Sofer, Peretz Shkalim, Moti Goldstein, "Deployment scenarios with reuse1", IEEE 802.22 Wireless RAN, June 2006.
2. Eli Sofer, Ramon Khalona, Wendong HU, "OFDMA Single Channel Parameters", IEEE.802.22 Wireless RAN, June 2006.
3. Eli Sofer, Doron Ezri, Zion Hadad, "SuperFrame and PHY Single Channel", IEEE802.22 Wireless RAN August 2006.

4. Eli Sofer, Yossi Segal, Doron Ezri, Michael Erlichson, "OFDMA single Channel Harmonization" IEEE802.16.22, 11 February 2007.

Most of the submissions above are related IEEE 802.22 standardization.

### **1.3 DVB**

The following list shows SUIT contribution to DVB:

1. A. Navarro, "Scalable, Ultra-fast and Interoperable Interactive Television", DVB-T2 Meeting, Basingstoke, April 24-25, 2007.