AXMEDIS

Automated Production of Cross Media Content for Multichannel Distribution

www.axmedis.org

AXMEDIS PDA PLAYER USER MANUAL

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- You can become affiliated with AXMEDIS. This will give you the access to a huge amount of knowledge, information and source code related to the AXMEDIS Framework. If you are interested please contact P. Nesi at nesi@dsi.unifi.it. Once affiliated with AXMEDIS you will have the possibility of using the AXMEDIS specification and technology for your business.

- You can contribute to the improvement of AXMEDIS documents and specification by sending the contribution to P. Nesi at nesi@dsi.unifi.itYou can attend AXMEDIS meetings that are open to public, for additional information see WWW.AXMEDIS.org or contact P. Nesi at nesi@dsi.unifi.it

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Section: AXMEDIS Copyright Notice

Table of Content

INTRODUCTION

Dear AXMEDIS user,
Welcome to *AXMEDIS PDA Player User Manual*, the official training workbook for the program that has as main aim to play rich and interactive content on PDA Devices.

With this guide, the AXMEDIS team is hoping to help users to play easily AMEDIS objects to show how simple and powerful this tool is.

AXMEDIS is a very complex and complete world and it is very difficult to cover all the aspects in only one manual.

Remember to not hesitate to contact the AXMEDIS team if you need additional information or to point out mistakes in this manual. Also don't hesitate to visit the AXMEDIs portal where you can find many other information regarding the AXMEDIS technology, with many real examples and objects.

OVERVIEW

This deliverable aim is to describe the User Manuals of AXMEDIS PDA Player.

AXMEDIS PDA player User Manual

PDA PLAYER

MAIN FUNCTIONALITIES

The PDA Player is the tool with the aim to execute AXMEDIS resources in a Windows Mobile device. The player has capabilities to play different kind of resources such as SMIL, MPEG-4, HTML, etc.

The AXMEDIS PDA Player main functionalities allow to:

- view resources present inside the object
- view HTML, pages
- SMIL presentation
- view MPEG-4 presentation
- view SVG resources

RELATIONSHIP WITH OTHER TOOLS

None

DETAILED DESCRIPTION OF THE FUNCTIONALITIES AND SCREENSHOTS

The following picture shows the GUI interface of the AXMEDIS PDA player.

Two menus are available in the lower part of the screen: **File** and **Menu**.

By clicking the menu **File**, the following options are available:

- **Open**, to open an AXMEDIS objects or a resource
- **About**, to see information about the version of the player, etc.
- **Exit**, to close the player.

To open an existing object or a resource it is sufficient to select the menu **File/Open**, as showed in the following picture.
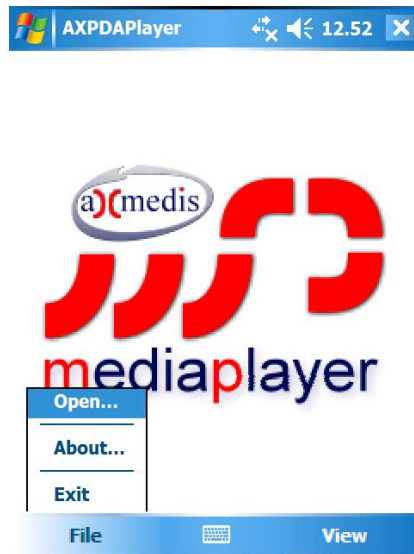
Then will be possible to select the resource to be opened by scrolling in the available menu, as showed in the following pictures
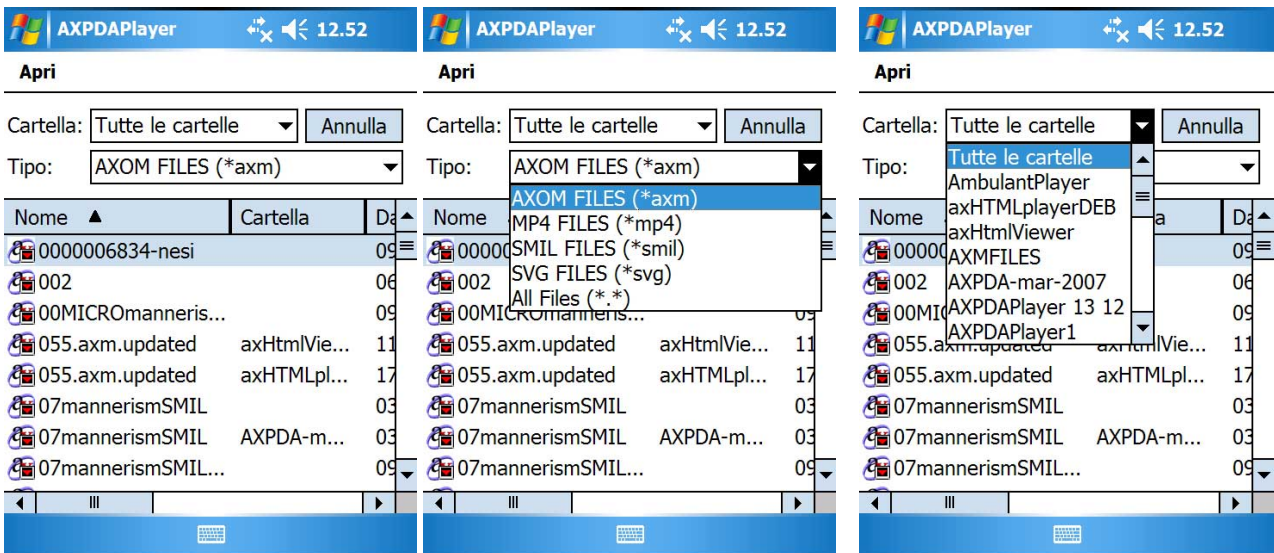
The following are examples of resources played with the AXMEDIS PDA player different screen orientation and resources.

Example of SMIL resource
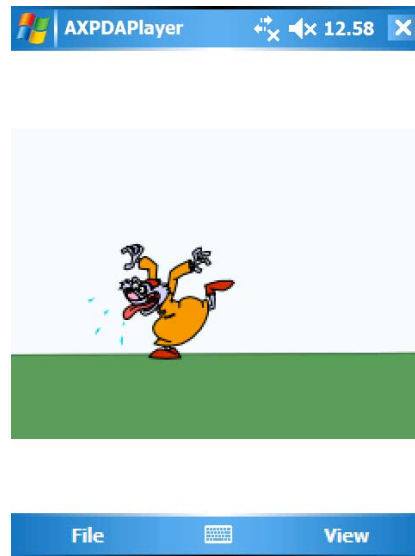
Example of MPEG-4 resource

By clicking the menu **View** the following features are available:

- **CPU Usage**, to know the percentage of CPU use
- **Status Bar**, to show a status bar on the top of the screen showing additional information regarding the resource in execution
- **Reload**
- **Stop**
- **Play**
- **Aspect Ratio**
    - o **Keep Original**
    - o **Fill Screen**
    - o **Ratio 4/3**
    - o **Ratio 16/9**
- **Fullscreen**
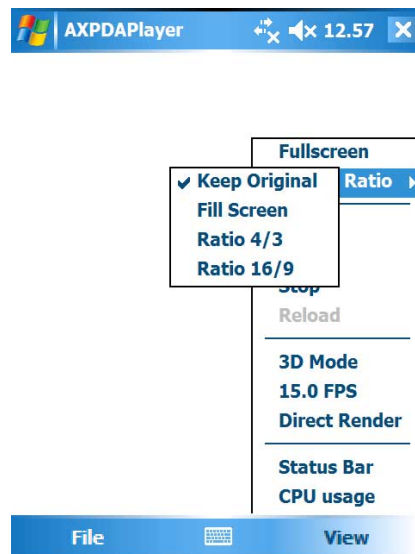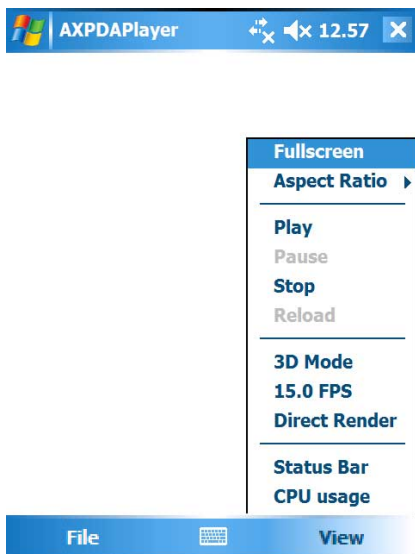
The following screenshots show examples of different resources loaded in the AXMEDIS PDA player.

HTML pages navigation and zooming capabilities
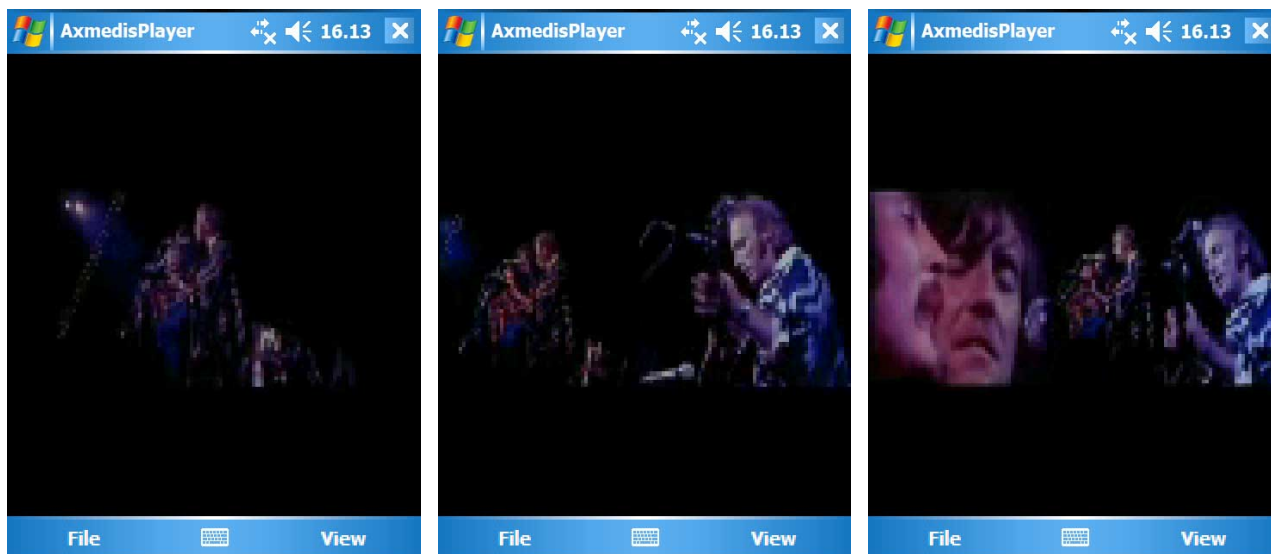
MPEG-4 video player
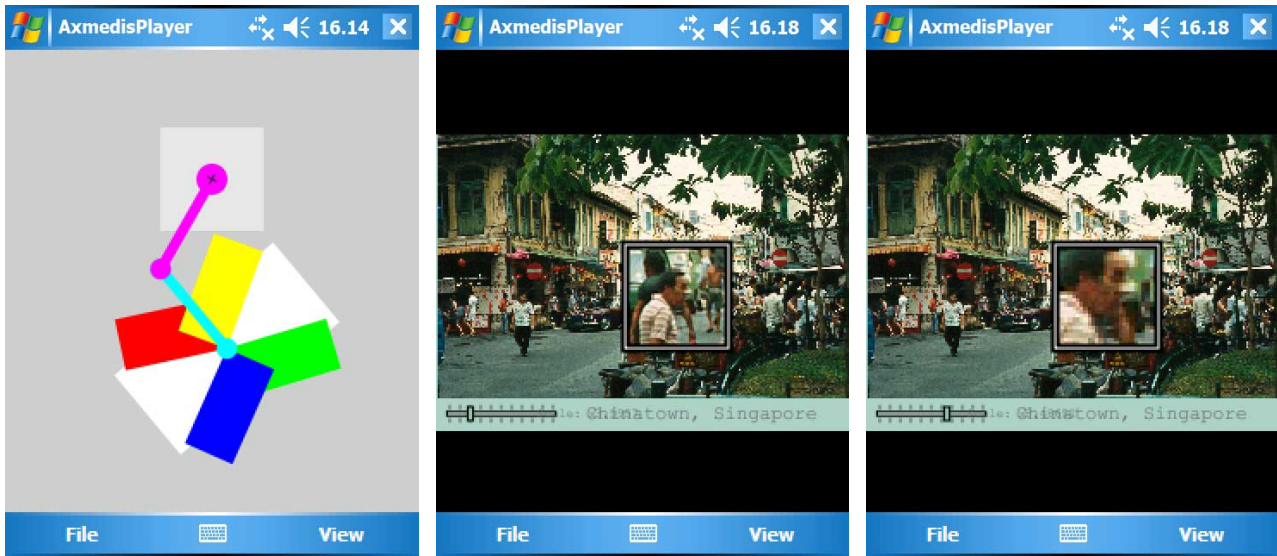
Examples of interactive MPEG-4 resources

REFERENCES AND LINKS

AXMEDIS TUTORIALS

o   General Tutorial and Overview (November 2007, Barcelona, Spain)
- PPT: http://www.axmedis.org/documenti/view_documenti.php?doc_id=3653
- Video on part 1
- Video on part 2
- Video on part 3
- Video on part 4
- Video on part 5
- Video on part 6

o   Content Production Tutorial (AXMEDIS 2007 Conference)
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3869
o   Content Distribution Tutorial (AXMEDIS 2006 Conference)
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2666
o   Content Processing Tutorial (AXMEDIS 2006 Conference)
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3868
o   Workflow Tutorial (AXMEDIS 2006 Conference)
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2652
o   AXMEDIS general overview and content production tutorial, March 2008

AXMEDIS TOOLS FOR FREE DOWNLOAD

o   General download page: http://www.axmedis.org/documenti/documenti.php
o   AXMEDIS content production tools include:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3722
Free Download of AXMEDIS Content Production Tools (editor and GRID AXCP tools, PnP, DRM editor, etc.), all what you need to create AXMEDIS objects and process any kind of content automatically: SMIL, HTML, MPEG-21, content adptation,, fingerprint, crawling, indexing, cms, search, retrieval, control of P2P, etc. and much more. See documentation included
o   AXMEDIS players for PC:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3715
AXMEDIS PC player version 1.2 January 2008. Free download, AXMEDIS player, MPEG-21 player, cross media player, SMIL, HTML, MPEG-4 ,etc
o   AXMEDIS multiskin player for PC:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3716
AXMEDIS MultiSkin PC player version 1.2 january 2008. Free download, AXMEDIS player, MPEG-21 player, cross media player, SMIL, HTML, MPEG-4, with different skins available.
o   AXMEDIS Active X Player for PC for Web Pages, AXMEDIS .Net Player, MPEG-21 player, SMIL, HTML, MPEG-4, cross media, more than 200 file formats:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3717
o   AXMEDIS player plus EUTELSAT OPENSKY client integrated
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3767
o   AXEPTools: P2P client tool for establishing connection with the AXMEDIS P2P B2B network as Business User:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3840
o   AXMEDIA: P2P client tool for establishing connection with the AXMEDIS P2P B2B network as final users:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3841
o   AXMEDIS PDA player for Windows Mobiles 5 and 6:
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3842
It is capable to play AXMEDIS objects based on SMIL, HTML, video, audio, MPEG-4 files, etc. AXMEDIS PDA player for AXMEDIS MPEG-21 content including resources with presentations layer based on MPEG-4, HTML and SMIL Unzip the file, copy the CAB file and execute it on the PDA
o   Collection of Objects for AXMEDIS player for PDA (Jan 2008):
http://www.axmedis.org/documenti/view_documenti.php?doc_id=3748

AXMEDIS TECHNICAL NOTES

o [AXMEDIS Content Model and Tools, Authoring Tools, Players for MPEG-21, PC, PDA, Mobile, STB, PVR, HDR, etc. (in English)](#)
o [AXMEDIS Content Model and Tools, Authoring Tools, Players for MPEG-21, PC, PDA, Mobile, STB, PVR, HDR, etc. (in Italian)](#)
o [AXMEDIS Content Processing GRID all features listed (in English)](#)
o [AXMEDIS Content Processing GRID Tutte le caratteristiche descritte (in Italian)](#)
o [AXMEDIS P2P Controlled network all features listed with cases (in English)](#)
o [AXMEDIS P2P Controlled network tutte le caratteristiche, con alcune casistiche (in Italian)](#)
o [AXMEDIS DRM, MPEG-21 DRM, Interoperable DRM (in English)](#)
o [AXMEDIS DRM, MPEG-21 DRM, DRM interoperabile (in Italian)](#)
o [Technical note on how to integrate the AXMEDIS DRM into an e-commerce portal and content distribution solution for content on demand and subscription](#)
o [Come integrare AXMEDIS DRM in un portale per la distribuzione di contenuti digitali (in Italian)](#)
o [AXMEDIS Show Case, AXMEDIS Mpeg-21 Content distribution via datellite dta broadcast, EUTELSAT OPENSKY](#)
o [Technical note on the ELION AXMEDIS content on demand trial and solution, how to exploit AXMEDIS framework to create an cross media content distribution with DRM and automated production, and connection with P2P](#)
o [Technical note on the TEO IPTV AXMEDIS trial and solution, how to exploit AXMEDIS framework to create an IPTV with DRM and automated production, and connection with P2P.](#)

AXMEDIS SOLUTIONS

o Content Management Automation, AXCP:
  http://www.axmedis.org/com/index.php?option=com_content&task=view&id=94&Itemid=33
o AXMEDIS controlled P2P:
  http://www.axmedis.org/com/index.php?option=com_content&task=view&id=97&Itemid=34
o AXMEDIS production tools and players:
  http://www.axmedis.org/com/index.php?option=com_content&task=view&id=101&Itemid=35
o AXMEDIS DRM, MPEG-21 DRM:
  http://www.axmedis.org/com/index.php?option=com_content&task=view&id=99&Itemid=36
o FAQs: http://www.axmedis.org/com/index.php?option=com_content&task=blogcategory&id=7&Itemid=73

AXMEDIS SHOWCASES

o [Content Distribution to Licensed Domains via DVB-T and P2P](#) (BBC)
o [Protected Video on Demand Distribution via P2P toward PC](#) (Tiscali)
o [Protected Video on Demand (VOD) Distribution to PC](#) (ELION)
o [Content Distribution via Satellite Data Broadcast (DVB-S) to PC and STB](#) (EUTELSAT)
o [Content Distribution to Kiosks](#) (ILABS)
o [Video on Demand (VOD) Distribution to Set Top Box](#) (TEO)
o [Content Posting Tool, for Final User content production/publication/DRM](#) (SIAE)
o [Variazioni: Enrichment of Cultural Content](#)
o [AXMEDIS Content and Tools: Automatic Production](#)
o [AXMEDIS Controlled P2P Network](#)

AXMEDIS FRAMEWORK SPECIFICATION

o AXMEDIS Framework [General aspects, Editor and Model](#)
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1891

o AXMEDIS Command Manager http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2686

- o AXMEDIS Object Manager and Protection Processor:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1972

- o AXMEDIS Editor and Viewers: http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2213

- o AXMEDIS External Editors, Viewers and Players:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2211

- o AXMEDIS Content Processing Area:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1958

- o AXMEDIS External Processing Algorithms:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2017

- o AXMEDIS CMS Crawling capabilities:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1907

- o AXMEDIS Database and query support:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1932

- o AXMEDIS AXEPTool and AXMedia Tools:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2718

- o AXMEDIS Programme and Publication Tools:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1885

- o AXMEDIS Workflow Tools:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1883

- o AXMEDIS Certifier and Supervisor and networks of AXCS
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1952

- o AXMEDIS Protection Support
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1882

- o AXMEDIS Accounting and Reporting :
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1887

- o Definitions Terms tables links http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1388

AXMEDIS reports on basic enabling technologies

- o Content Model and Managing, MPEG-21, authoring, etc.
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2324

- o Content indexing and querying:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2436

- o Content processing, Composition and Formatting
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2374

- o Content sharing and Production on P2P:
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2454

- o Content Protection and Supervision http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2371

- o Content Distribution via Internet
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2451

- o Content Distribution via Mobile
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2442

- o Content Distribution via Satellite data broadcast
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2313

- o Usability issues
  http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2339

o AXMEDIS vs DMP MPEG21 Analysis http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1063

o AXMEDIS Framework Infrastructure, guidelines and some tools
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1391

o AXMEDIS Framework Validation and integration
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2445

Basic knowledge reports

o User requirements http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1712

o Use Cases http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1824

o Test Case http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2023

Content Modeling and Test Cases

o Content Aspect Specification http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1389

o Content Aspect Specification Appendix http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1670

o Content for Test Cases and Validation http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1393

o Content Selection Guidelines http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1390

o Multilingual Guidelines and Technical Solutions
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1427

o AXMEDIS Editorial Format Guidelines and basic examples
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1394

AXMEDIS FRAMEWORK DEMONSTRATORS, CASES, TRIALS, FOR DISTRIBUTION ETC.

o requirements and use cases of AXMEDIS ELTEO of the content distribution for DVB-T to STB of Telecom Lithuania, and content distribution of Telecom Estonia
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2978

o requirements and use cases of the 4HOME take up, demonstrators of BBC, TI, SDAE, including domains, AXMEDIS for broadcasting, and OMA integration and distribution
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2976

o Specification final version of Take up AXMEDIS ELTEO for Video on demand, STB, IPTV solutions based on AXMEDIS technology: http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=3096

o Integrated CMS integration aspects: http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2853

o Integrated prototype: automated content production and formatting:
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2939

o Integrated Distribution on demand via Internet
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2951

o Integrated distribution via satellite data broadcast:
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2954

o Integrated distribution towards mobiles:
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2945

o Integrated Distribution towards PDA via Kiosks:
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2944

o Content Posting Portal, Content Posting for Final User publication, SIAE Trial presentation:

- http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2922

- http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2923

o VARIAZIONI project portal: http://www.variazioniproject.org/

BROCHURES AND PRESS CUTTING (A PART)

o AXMEDIS Project Brochure
http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2712
o Annual Public Report (2007): http://www.axmedis.org/documenti/view_documenti.php?doc_id=3621
o Annual Public Report (2006) http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=2471
o Annual Public Report (2005) http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1439
o AXMEDIS Project Synopsis http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1668
o Digital Media in Italy presentation http://www.AXMEDIS.org/documenti/view_documenti.php?doc_id=1669

OTHER REFERENCES

- ISO/IEC, ISO/IEC FDIS 21000-5 - Rights Expression Language. ISO/IEC JTC1/SC 29/WG 11/N5839. July 2003.

- ISO/IEC, ISO/IEC FDIS 21000-6 - Rights Data Dictionary. ISO/IEC JTC 1/SC 29/WG 11/N5842. July 2003.

- Iannella, R.: Open Digital Right Language (ODRL) Version 1.1. http://odrl.net/1.1/ODRL-11.pdf . August 2002.

- Open Mobile Alliance (OMA), http://www.openmobilealliance.com/

- OMA DRM Rights Expression Language version 2 (OMA DRM REL v.2), http://www.openmobilealliance.com/

- ISO/IEC, Study of ISO/IEC FCD 21000-4 IPMP Components. ISO/IEC JTC 1/SC 29/WG 11/N7426. July 2005.