

HD wiki

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Agenda

- Why an HD wiki?
- Structure of the HD wiki
 - News
 - Classification of HD over IP systems
 - Miscellaneous
 - HD over IP working groups
- Next steps

Why an HD wiki?

- Because
 - There are some research groups working in HD over IP
 - There is a lot of information about HD, a lot of information about IP, but scarce information about HD over IP
- In the context of H: High-end/quality systems Activity Area in the Terena Task Force VVC, a wiki page on HD over IP has been created
 - A wiki is a web page where any person can add or modify contents in a very easy way, in this case related to HD over IP
- Currently, an structure has been created and some sections have been filled, in order to facilitate the beginning of this task
- The web page is

<http://hdwiki.i2cat.net/>

Structure of HD wiki

- There are some sections to organize the information
 - News
 - This section is for news, ie news reports, press releases, demos, events, announcements etc.
 - What's HDTV?
 - Just a definition

Structure of HD wiki

- Digital interfaces
 - To classify the current systems used in HD over IP, the standardized digital interfaces are used
 - Studio quality
 - » HDSDI -> HDSDI system
 - » SDTI -> SDTI system
 - Broadcast quality
 - » Firewire -> HDV system
 - » DVB-ASI -> DVB/ATSC system
 - » ATSC -> DVB/ATSC system
 - And what about non-standard systems ...
 - WMV system ?

Structure of HD wiki

- From the previous slide, and using a simple model of source, transmitting unit, receiving unit and display, the following is the proposed table of the current HD over IP systems and subsystems

System Name	Source	Sender	Network	Receiver	Display
HDSDI system	HDSDI source	HDSDI transmitting unit	1,5 Gbps	HDSDI receiving unit	HDSDI display
SDTI system	SDTI source	SDTI transmitting unit	270 Mbps	SDTI receiving unit	SDTI display
HDV system	HDV source	HDV transmitting unit	20 Mbps	HDV receiving unit	
DVB/ATSC system	DVB-ASI source	DVB-ASI transmitting unit	20-100 Mbps	DVB-ASI receiving unit?	DVB-ASI display?
WMV system	HDSDI source	WMV server	8 Mbps	WMV player	

Structure of HD wiki

- **Miscellaneous**
 - High Definition Videoconferencing
 - High Definition Videoconferencing terminals
 - High Definition Videoconferencing MCUs
 - Network design and operation for HDoIP
 - Network requirements
 - Network testing
 - Network equipment
 - Wireless HDoIP
 - Organizations
 - Standards Organizations and Industry

Structure of HD wiki

- Who is working on HDoIP?
 - Working groups
 - ANF HDTV Working Group
 - HD over IP Activity Area in the Terena Task Force VVC (Voice, video and collaboration)
 - Internet2/ResearchChannel Working Group
 - Research groups
 - <http://hdtv.nm.gist.ac.kr/>
 - <http://cosmos.kaist.ac.kr/hdtv/>
 - Information Sciences Institut East (USC)
 - i2CAT Foundation
 - Researchchannel
 - CESNET and Laboratory of Advanced Networking Technologies at Masaryk University
 - Mailing-lists
 - Internet2
 - Bigvideo. High End Video Project of the ResearchChannel Working Group
 - rc-wg. ResearchChannel WorkGroup
 - Ultragrid-users . UltraGrid users discussion list

Next steps

- We have to agree on
 - The structure
 - The proposed systems/subsystems
 - The sections
 - Which sections have to be removed or just moved to a miscellaneous section
 - Which sections has to be created
 - Howtos

Thanks

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