

EURIXGroup: iDRM in Peer2Peer environment Implementation Plan



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SAPIR

Search in Audio-Visual Content using P2P Information Retrieval

The challenge

-  The searchable space created by the massive amounts of existing video and multimedia files greatly exceeds the area searched by today's major engines.
-  Traditional search engines are limited to searching in the associated text and meta-data of the multimedia content. If content providers don't clearly or accurately describe their multimedia files, or use inaccurate tags, the current method falls short.

The solution – SAPIR

-  SAPIR is geared towards finding new ways to analyze, index, and retrieve the tremendous amounts of speech, image, video, and music that are filling our digital universe.
-  The ultimate result will be a peer-to-peer distributed space that can be searched by content enriched with text, rather than using the current methods, which are limited to keywords and text-based tags.
-  SAPIR will address some of today's most exciting search challenges, starting with the scale of information being searched, and continuing with a solution that provides access to data anywhere, anyplace and anytime.



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SAPIR - standards

Standards to provide a unified system for indexing and searching over all types of media

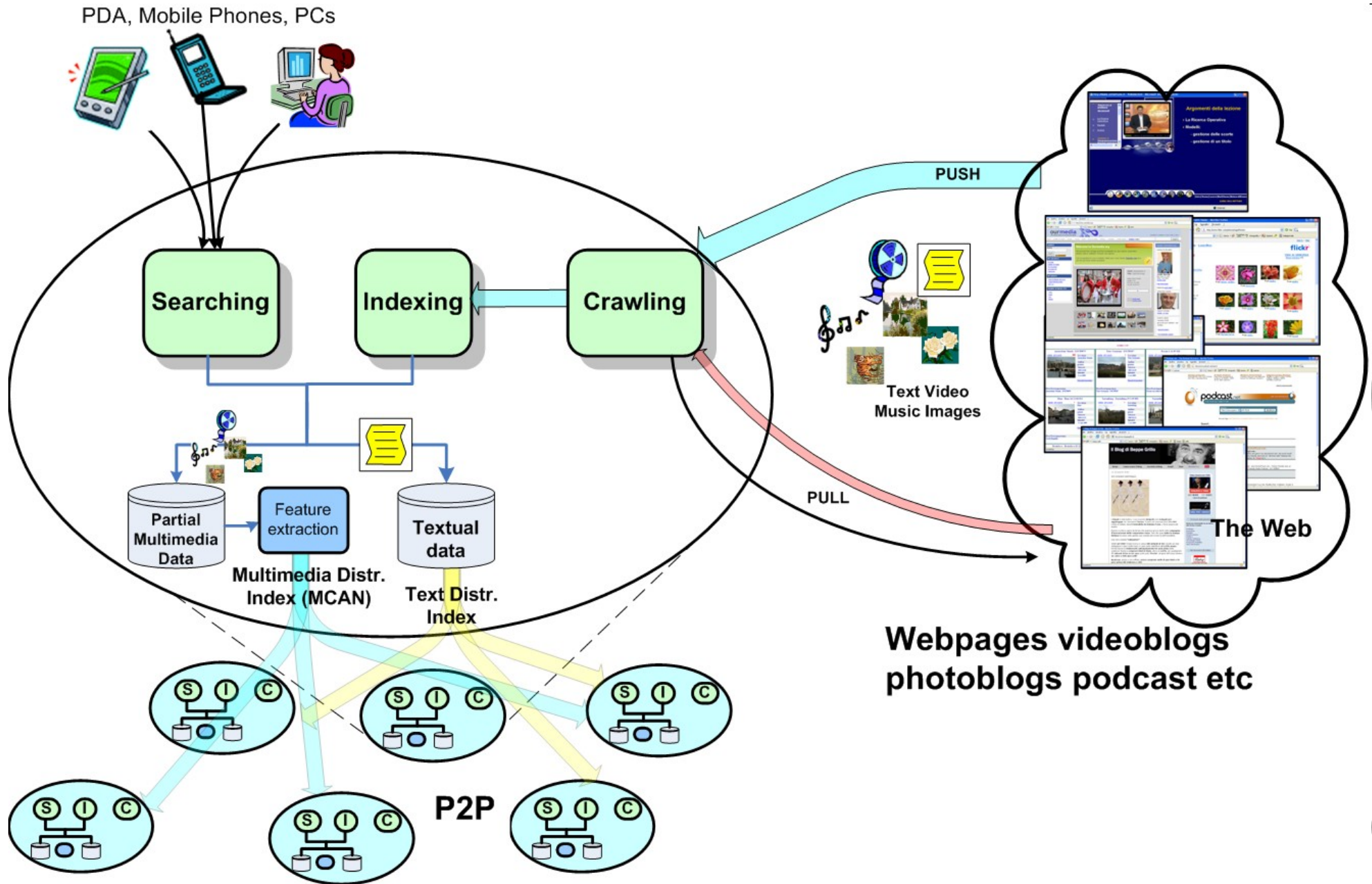
SAPIR intends to contribute to the following standards:

- MPEG-7: Multimedia Content Description Interface
- MPEG-21: Multimedia Framework
- XQuery: The XML Query language
- Open Mobile Alliance Digital Rights Management



MPEG-A - ISO/IEC-23000

SAPIR - Main Architecture



DMP

<http://www.dmpf.org/>

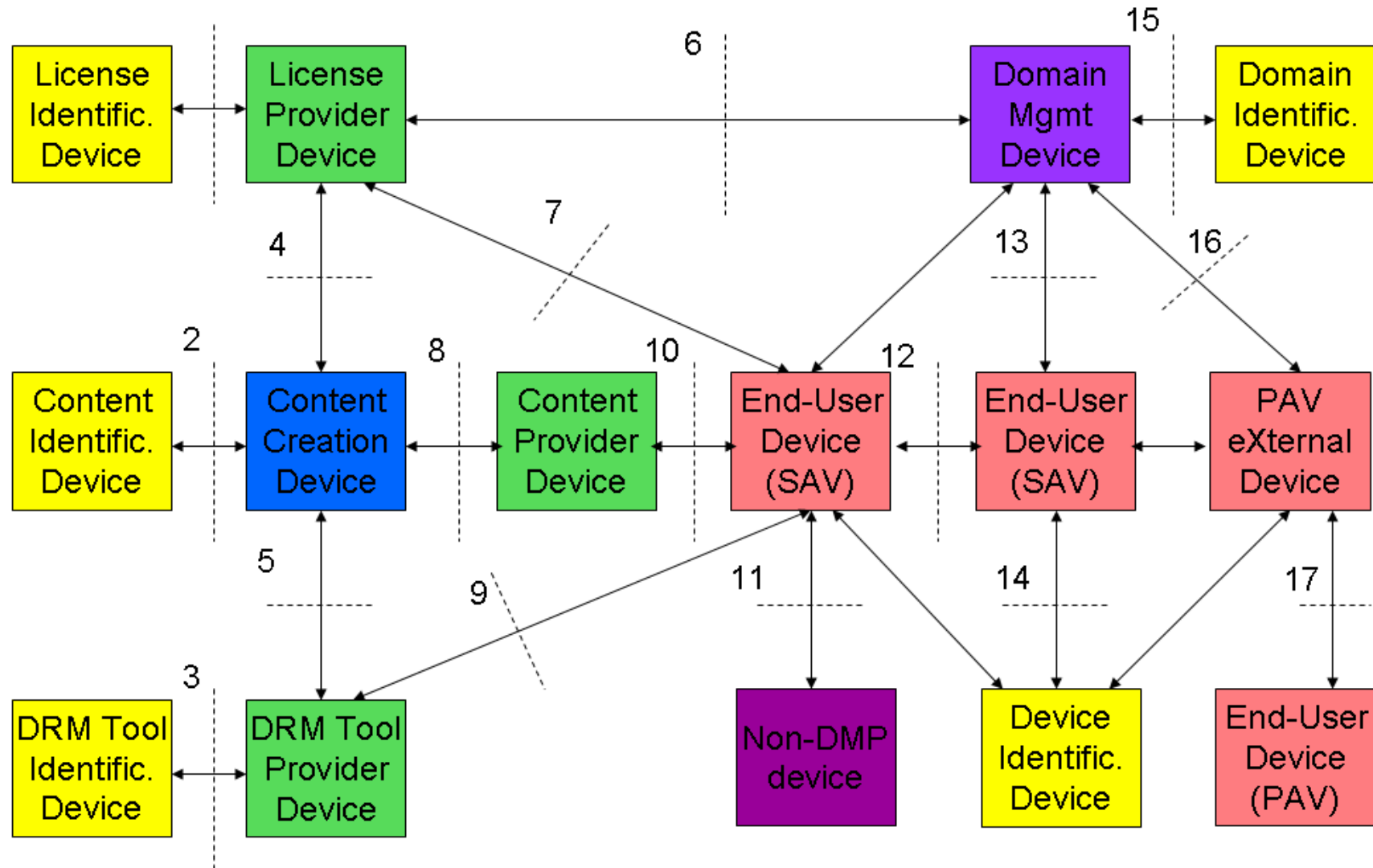
Interoperable Digital Rights Management Platform

- Technical Specification, Version 2.1 18/05/2007

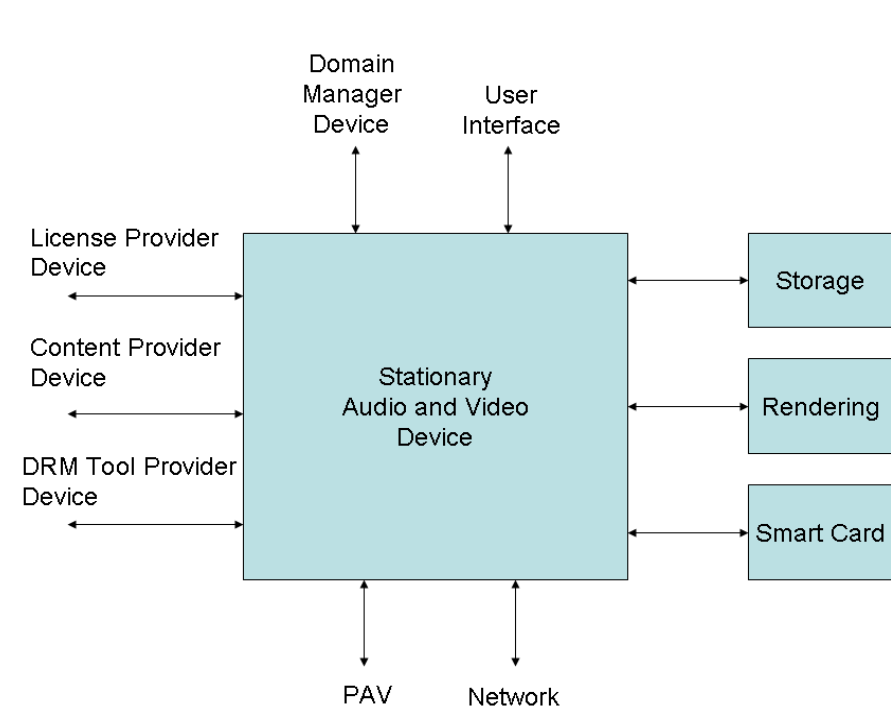
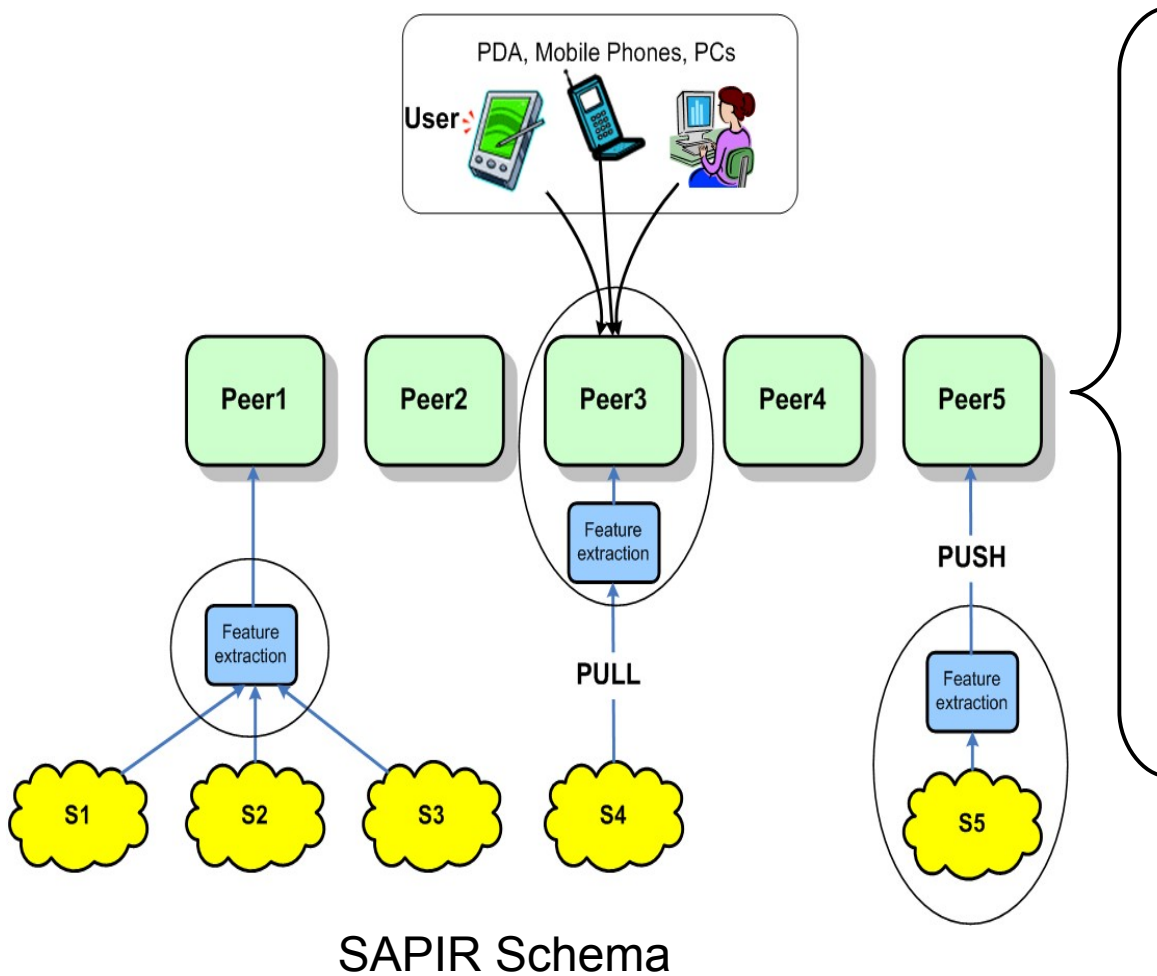


Chillout - The Interoperable DRM Platform

Interoperable Digital Rights Management Platform: *Involved Devices*



iDRM in P2P: SAPIR approach



Conceptual Model of Content Consumption Devices (iDRM specifications)

Conclusions

- Our aim is to try to implement the use Case and Value Chain No. 6: “Controlled Peer-to-Peer Distribution”(*) within the SAPIR project, making use of the reference software provided by Chillout.
 - (*) Approved Document No 4 – Technical: Specification: Use Cases and Value Chains, v. 2.1 – ch. 7 - <http://www.dmpf.org/open/dmp0984.zip>
- License type:
 - Chillout is under Open source (Mozilla).
 - we plan to refine and improve Chillout for P2P management, returning it to DMP
 - we plan to develop some other Chillout-based applications in order to fit other needs of SAPIR. This software will be under SAPIR Consortium Agreement
- Public Results:
 - we plan to present the results of iDRM on P2P network to the principal international conferences