Multimedia Content Delivery Networks – mCDN

Key aspects
- Development of mechanisms for the optimized distribution, discovery, and delivery of multimedia content in client/server and P2P networks.
- Description and discovery of multi-media content utilizing personalizable and adaptable metadata.
- Support for the dynamic exchange and evaluation of network information between CDN nodes.

Technical facts
- Definition of an “Open Layered Architecture” utilizing inter-layer reference points.
- Description and distribution of metadata utilizing the TV-Anytime/mpeg-7 schemata in the context of the IMG-framework.
- Delivery of content, metadata, and user notifications utilizing IMS functionality.

Benefits
- Support the customisation of CDNs to business models and to the requirements of customers and users.
- Support an optimized utilisation of CDN resources.
- Support the seamless integration of flexible security and privacy concepts.

Layered mCDN Architecture

- Profile management and evaluation
- Personalization of search queries and results
- Provision of multimedia content services

- Optimized content distribution
- Optimized content placement

- Personalized metadata and content services
- Profile management and evaluation
- Personalization of search queries and results
- Provision of multimedia content services

- Optimized content delivery

- Optimized network state feedback to higher layers
- Wired access
- Wireless access

- Authentication
- Authorization
- Session management
- Rights management