



## Automating Production of Cross Media Content for Multi-channel Distribution

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### DE3.1.2J Framework and Tools Specifications (Definitions, terms, tables, links, and Appendixes)

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## **1 Executive Summary and Report Scope (DSI, all)**

The full AXMEDIS specification document has been decomposed in the following parts:

- A. general aspects up to the description of the content model
- B. Viewers and players, including plug ins, etc.
- C. Content Production tools and algorithms
- D. Fingerprint and descriptors algorithms and tools
- E. Database area, query support and Content Crawling from CMS
- F. AXEPTool area, for B2B distribution and Programme and Publication for B2C distribution
- G. Workflow aspects and tools
- H. Protection tools and support, Certification and Supervision and Accounting tools
- I. Distribution tools and AXMEDIS Portal
- J. Definitions, tables, terminology, acronyms, lists, references, links and Appendixes

This document contains Part J only.

This document contains tables and acronyms for all the specification

## 2 Definitions and Terminology

Some of these definitions have been taken and/or reworked from the Dictionary of Software engineering edited by P. Nesi, other from DMP0147.doc document, other from MUSICNETWORK documents and contributions of the AXMEDIS partners.

### 2.1 AXMEDIS definitions for ACTORS

Actor	Any of the users or organizations listed in this table
Aggregator	who provides procuring, packaging, presenting, cataloguing, archiving, indexing and promoting Services typically to Retailers
Author	who creates a Work that is copyrightable, whether it be artistic, literary, dramatic, or musical.
Certificate Authority	who issues digital certificates used to create digital signatures and public-private key pair
Clearing House	Organization who collects Value Expressions from other Users to distribute to Right Holders for the purchase of Use Rights over a given instance of Content
Collective Management Organization	See Collective Management Society
Collective Management Society	<p>Organization who provides collective representation to its member, e.g. Authors, Performers, Publishers etc. It collects license fees on behalf of composers and publishers for certain types of usages of copyright-protected material and works.</p> <p>Collecting societies act on behalf of their members, negotiate rates and terms of use with users, issue licenses authorizing uses, collect and distribute royalties . They are an important link between right owners and users of copyrighted works (such as radio stations) because they ensure that owners of rights receive payment for the use of their works.</p> <p>Some rights are directly exercised by right owners through contract agreement between interested parties : for example a composer or a performer can agree to have his music or performance recorded on compact disc.</p> <p>Other cases show that individual management of rights is virtually impossible with regard to certain types of use for practical reasons. Authors and/or music publishers for example are not materially capable of monitoring all uses of their works; they can't for instance contact every single radio or television station to negotiate licenses and remuneration for the use of their works. Conversely, it is not practical for a broadcasting organization to seek specific permission from every right owners for the use of every copyrighted work. The very impracticability of managing these activities individually, both for the owner of rights and for the user, creates a need for collective management organizations, whose role is to bridge the gap between them and among others.</p> <p>Collecting societies: collecting societies distribute royalties to rights owners collected from a multitude of users of copyrighted work in their home territory and, through reciprocal arrangements with societies in other countries, extend their reach to the international sphere.</p> <p>Collecting societies most commonly take care of the following rights:</p> <ul style="list-style-type: none"> <li>• The right of public performance (music played or performed in discotheques, restaurants, and other public places). A public performance also occurs when the performance is transmitted by means of any device or process (for example, via</li> </ul>

	<p>broadcast, telephone wire or other means) to the public.</p> <ul style="list-style-type: none"> <li>• The right of broadcasting (live and recorded performances on radio and television);</li> <li>• The mechanical reproduction rights in musical works (the reproduction of works in CDs, tapes, vinyl records, cassettes, mini-discs, or other forms of recordings);</li> <li>• Related rights (the rights of performers and phonographic producers to obtain remuneration for public use of sound recording ( i.e. broadcasting or the communication to the public of phonograms).</li> </ul> <p>Authors and Publishers Collecting Societies: act on behalf of their members ( music authors, composers and publishers) by collecting and distributing them the revenues ensuing from public performance, mechanical reproduction, broadcasting and other public use of a copyrighted work.</p> <p>Producers and Performers Collecting Societies: act on behalf of their members (respectively producers and performers) by collecting and distributing revenues ensuing from the public use of sound recordings (neighboring rights)</p>
Composer	A creator of a work (typically music) who wants his work to be published and distributed.
Conformance certification provider	who provides conformance, robustness and encoding rules along with certification of satisfying same.
Connectivity provider	who provides point-to-point or point-to-multipoint connectivity between Users
Consumer	See the end user or final user
content owners	See Rights Holder
Content Provider	who provide Content or Content with license to another Actor (e.g. an End-user)
Copyright holders/owners	See Rights Holder
Creator	Who can ask for an AXMEDIS Object ID from the AXMEDIS OID Generator of the AXCS.
Customer	A customer buys or rents a work or rights on it. A customer can also be a performer.
Device Manufacturer	who manufactures or assembles hardware and/or software components to make Devices
Distributor	Who possesses the Right, acquired by sale, License or other transfer, to control the disposition and transfer of Content to End-users
End-user or Final user	The last User in a Value-chain, who legally acquires content for personal use.
Engraver	An engraver typesets the manuscript of the composer. He edits the digital sheet music by copying it from the composer's manuscript, using a music editor (Finale, Sibelius, Wedelmusic ...), or from a print out of an old music sheet from which the symbolic code is not available.
Final User	See End User
Financial Service provider	who provides the infrastructure for financial transactions, and accept deposits and channel the money into lending activities
Integrator	See Aggregator
Marketer	who provides promotional, sale enhancement, brand enhancement and Merchandising Services
Mediation Service provider	who provides mediator/agent Services to broker "closed" information such as actor identity
Metadata Service provider	who recognises, assigns, delivers and processes structured metadata
Monitoring	who provides Action Report information in aggregated form, in AXMEDIS this role is

Service provider	performed by the AXCS.
Music Author/songwriter	the original creator/writer of the lyrics of a music composition
Network Service provider	who provides IP (or equivalent) services and typically various other services above it, e.g. guarantee of quality of service
Organization	An association or a super partes private or public bodies
Performer	who Uses Works to make Content with a production process. as defined in the WIPO Performances and Phonograms Treaty with respect to rights granted: “performers” are actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret, or otherwise perform literary or artistic works or expressions of folklore; (i.e the performers or artists interpret the musical composition within the recording productions process).
Phonographic Producer	an organization/company that undertakes the technical and economical responsibility necessary for the making of sounds recordings.
Phonographic producer	as defined in the WIPO Performances and Phonograms Treaty with respect to rights granted: producer of phonogram is the person, or the legal entity, who or which takes the initiative and has the responsibility for the first fixation of the sounds of a performance or other sounds, or the representations of sounds (i.e. an organization/company that undertakes the technical and economical responsibility necessary for creating sounds recordings)
Platform Service provider	who provides services on (parts of) the technology infrastructure of a Value-chain
Producer	who produces Content
Public Authority	Who provides rules relating to the Use of Content and taxation on transactions related to Content.
Publisher	who makes Content available to the public. In many cases, the publisher is responsible for publishing, marketing, distribution of content, protecting at the same time his IPR during the legal time or the time indicated in the contract. An organization/company that makes music works public and share the author and composer rights. The copyrights must be assigned to the music publisher by the authors/composer in written contract, in return for a percentage of royalties produced by the content.
Reseller	who possesses the Right, acquired by sale, License or other transfer, to control the disposition and transfer of Content from End-users to different End-users
Resolution Service provider	who provides the Service of mapping disparate sets of Metadata
Retailer	who Distributes, sells or Licenses Content to an End-User
Rights Holder	who has Rights on a piece of Content. The persons or entities that own all or some of the protected rights ; these may be the creators of the copyrighted work or it may be an assignee or transferee. Given the differing types of rights, there may be more than one copyright holder for a piece of music (i.e. authors, composers, publishers, producers, performers)
Rights Owner	See Rights Holder
Security provider	who provides technologies and services related to the security technologies and all levels of relevant computer and network security solutions
Sub-Publisher	A foreign company/entity retained by the original publisher of a work to exploit that work in the foreign company’s geographic territory.
Syndicator	who manages and provides Content to Retailers using a variety of purchase options
Technology licensing provider	who provides Device Manufacturers and Platform providers with a license to utilize patented technology to make Devices and Platforms
User	whoever intends to use for business purposes a copyrighted work (owned by others) ; for example In order to perform a copyrighted work publicly, the user must obtain proper license from the copyright owner or his representative (i.e collecting societies)
User	A Generic User of a tools for production, protection, distribution, accounting, etc....



## 2.2 AXMEDIS definitions for Activities, Concepts and Tools

Action Log	The description of an action performed on an AXMEDIS tool on Content. This is called in MPEG21 Event and in DMP Use Data
Action Report	The description of a set of Actions Log performed on an AXMEDIS tool on Content. This is called in MPEG21 Event Report and in DMP Use Data Report !
Adapt	The Function of changing attributes to a piece of Content, such as converting 5-channel music to 2-channel music, subsampling a high-definition video to a standard definition video etc.
Album	a collection of tracks arranged together available as a one unit. Many artists record album but album can contain tracks by a number of different artists.
Annotate	The function of <ul style="list-style-type: none"> <li>referencing a specific portion of a piece of Content and</li> <li>linking the reference to another piece of Content Created by a User</li> </ul>
Application	The programmed performance of Functions on Content for a specific purpose
Associate	The Function of establishing a link between two or more pieces of Content
AXMEDIS Component	An digital object component compliant with the AXMEDIS data model schema
AXMEDIS database tools	AXMEDIS tools such as: AXMEDIS database manager, AXMEDIS Query User Interface, etc.
AXMEDIS Distribution Tools	AXMEDIS tools such as: AXEPTool, Programme and Publication Tool, etc.
AXMEDIS factory	The area in which the AXMEDIS tools are installed around an AXMEDIS database. It may contains or not all the AXMEDIS tools or only a part of them. It may contains only the AXEPTool or may contains only the AXMEDIS database and production tools.
AXMEDIS Kiosk	The AXMEDIS Kiosks is not only a simple kiosk is also a distributor for content towards mobile devices such as PDA, Tablet PC and Mobiles by means of intranet wireless network such as Bluetooth and/or WiFi, etc.
AXMEDIS Object	An digital content compliant with the AXMEDIS data model schema
AXMEDIS Production Tools	AXMEDIS tools such as: AXMEDIS editors, AXMEDIS Composition/formatting Tools, AXMEDIS Workflow tools, AXMEDIS Protection Tools, etc.
AXMEDIS protection Tools	AXMEDIS tools such as: AXMEDIS protection Editor, AXMEDIS protection engine, AXMEDIS Protection Manager Support, AXMEDIS Certifier and Supervisor ,etc.
AXMEDIS Tool	An AXMEDIS software tool.
Backup	The Function consisting of the following actions <ul style="list-style-type: none"> <li>Duplication of Content.</li> <li>Duplication Rights Expression in case this is a Stateless Rights Expression</li> <li>Moving of the duplicate(s) to another location that is not a Device</li> </ul>
Blanket License	To facilitate the use of copyrighted work, collecting societies are entitled to negotiate performing rights with the users on behalf of their members. The Blanket License is a license issued by a rights collecting society that authorizes in advance the public performance of all the songs in the society's catalog. For example radio and television stations, public broadcasters, cable stations, restaurants, subscription music services, etc. can acquire a "blanket license" from a collecting rights organization which gives them the right to perform every piece of music contained in the respective repertoire as often as they wish during the term of it.
Broadcast	The Function of transferring Content to Devices in a point-to-multipoint mode
Certification (only for the AXMEDIS tools)	The activity by which an AXMEDIS tool is certified with the AXCS at the first its connection. In that phase it takes the TID.

Composite Content	A combination of different pieces of Content
Compulsory Mechanical License	A license issued by Authors and Publishers Collecting Society allowing to record and distribute copyrighted musical work paying the license rates established by the collecting society due to the rights owners (authors/composers and publishers) of the musical work. Phonographic producer must obtain a mechanical license in order to lawfully produce and distribute records, CD, tapes etc.
Condition	A logical formula that has to be verified for applying a give action or to grant a given permission to perform an action/right
Conformance	The satisfaction of relevant requirements of one or more than one Specification by a Device or a piece of Content
Content	A structured combination of any Resource Type and Metadata that may or may not constitute a manifestation of a Work
Content Access	The Function of making available Content or Governed Content to a Device so that a Device can execute Functions on it
Content Data	A structured combination of Content Data Elements
Content Data Elements	Any of the following Content Data types: Resources, Metadata, Content, Rights Expressions, Licenses and Governed Content
Context (of Use)	The association of a piece of Content with other pieces of Content and circumstances of Use
Copy	The Function consisting of the following actions <ul style="list-style-type: none"> <li>• Duplication of Content and/or Rights Expression</li> <li>• Transferring that duplicate to another Device</li> </ul>
Copyright	A copyright is a bundle of exclusive rights granted by law to the creators of original musical works - including sound recordings . Therefore copyright is the legal protection extended to the owner of the rights in an original work that he has created. It comprises two main sets of rights: the economic rights and the moral rights. The economic rights are the rights of reproduction, broadcasting, public performance, adaptation, translation, communication to public, display, distribution, and so on. The moral rights include the author's right to object to any distortion, mutilation or other modification of his work that might be prejudicial to his honor or reputation.
Copyright Notice	© : A copyright notice is an identifier placed on published copyrighted work to inform the world of copyright ownership giving notice that copyright owner is claiming ownership. A copyright notice shall include the following elements: <ul style="list-style-type: none"> <li>- the word copyright or the symbol ©</li> <li>- The year of first publication</li> <li>- The name of copyright owner/owners</li> </ul>
Delivery System or Distribution System	A system that is used to deliver Data between any two or more Devices (e.g. a storage medium or a network-based transport mechanism)
Derivative Work	New work based on or derived from one or more pre-existing works
Descriptor	Data that describe the properties of Resources. MPEG7 is a standard way to formalize descriptors of digital resources.
Device	A system conforming to Technical Specifications that allows a User to execute Access to and Functions on Content via a Tool
Device Certification	The procedure to prove the identity of a Device to another Device, a Service or a Delivery System
Digital Resource	See Resource
Distribute (Content)	The function of transferring Content from the Producer to the End-User
Distribute (Work)	The function of transferring Works to Publishers and Producers
Distribution	The process of selling music content to the consumers, typically through stores and/or

	online retailers
Domain	A concept that identify a collection of Devices with their Tools at which it is associated a PMS Home.
Download	The Function of transferring Content to a Device on which Functions may be executed. The function of transferring AXMEDIS object from the network or distributor to another device or AXMEDIS tool.
Edit	The Function of Modifying a piece of Content, such as by adding, deleting, altering portions of Content in a piece of Content
Encrypt	The Function of making Data unreadable unless a Key is available to restore the Data to a readable form
Engine	A tool that is autonomous in the sense that is continuously active to react to external stimuli provoked by an user or by other tools for example by the workflow manager.
Environment	A Device or set of Devices with the same or different functionalities. An Environment may interact with other Environments and may also interact with the outside through appropriate Interfaces
Exceptions	Uses of copyrighted works that are specifically defined in law as not infringing copyright. There are a number of exceptions to copyright (not harmonized at European level) that allow limited use of copyright works without the permission of copyright owners. For example, limited use of works may be possible for non-commercial research , in judicial proceedings, teaching in schools or in other educational establishments or for use of blind people . Exceptions to copyright do not generally give the rights to use copyright material; they just state that certain activities do not infringe copyright.
Executable	Data that give a Device instructions to enable a User to execute Functions
Expanding Selection	The action of transforming a Selection into a list of references to real AXMEDIS Objects located in the several databases of AXMEDIS.
Experience	The subjective result of Using Content by an End-User
Export	Making available a piece of Governed Content to an another DRM system
Fingerprint	A number or a code that express a feature of a given piece or segment of content. In AXMEDIS this can be intended also as a technical feature of the content such as the rhythm, the duration, the trend of the dominant color, the CRC, the MD5 of a image segment, etc.
Function	What is executed by a Device on Content
Governed Content	A piece of Content combined with a License
GUI	a graphical user interface
Identifier	A symbol that establishes the identity of Users, Devices, Domains, Works and Content Data Elements
Import	Accessing a piece of content or governed content from an another DRM system
Intellectual property	WIPO definition: intellectual property is divided into two categories: Industrial property, which includes inventions (patents), trademarks, industrial designs, and geographic indications of source; and Copyright, which includes literary and artistic works such as novels, poems and plays, films, musical works, artistic works such as drawings, paintings, photographs and sculptures, and architectural designs. Rights related to copyright include those of performing artists in their performances, producers of phonograms in their recordings, and those of broadcasters in their radio and television programs
Interface	The boundary between <ul style="list-style-type: none"> <li>• Devices</li> <li>• Devices and AXMEDIS devices</li> <li>• Devices and Users (User Interface)</li> <li>• Devices and Delivery Systems</li> </ul>
Interoperability	The ability of a device to exchange data with other devices across standard interfaces

	using standard protocols.
Key	Data used by a cryptographic method to make Encrypted Data readable
kiosk (ke'osk) (n.):	A booth providing a computer-related service, such as an Automated Teller Machine (ATM). A kiosk requires a simple user interface that can be used without training or documentation, and the hardware must be rugged and capable of operating unattended for long periods of time. Touch screens can provide some of these features because they enable a user to enter and display information on the same device and eliminate the need for keyboards, which are prone to break. (see AXMEDIS Kiosk)
Legal License	The license gives the right to use a specific piece of intellectual property (such as musical works or sound recordings) in the ways licensed by the right holder or his representative (in some case collecting societies). The license is a legal agreement granting someone permission to use a work for certain purposes or under certain conditions. <u>A license does not change the ownership of the copyright.</u>
Lend	The Function of Moving a piece of Content that was Used in one Domain for Use in another Domain
License	Data representing the granted Rights expressed by Rights Expressions from a Rights Holder to a User.
License Model	Is a prototype of a license without details such as the costs and the whole set of rights. In addition, it can be or not assigned to a given User.
Manager	A software module of component that manager some information and may contain user interface or not. It is a generic name for a module such as the AXMEDIS database Manager.
Master	A completed recording of a song from which multiple copies are manufactured.
Metadata	Information (e.g. Identifiers, Descriptors etc.) not including Use Data, Rights Expressions and Licenses that is distinct from but directly related to Works and Resources.
Modify	The Function of making changes to a Work or piece of Content
Monitoring	Action to trace the passage (uploading/downloading, copying, etc.) of Content with the aim of identifying the Content and reporting them to a central server.
Move	The Function consisting of the following actions Copy of Content from a source Device to a destination Device Deletion of said in the source Device
Musical work	a melody and any accompanying lyrics; more commonly referred to as a musical composition or a song.
Platform	The technology infrastructure deployed to enable Users to perform Functions
Play	The Function of converting a piece of Content Data to a form that can be and is Rendered
PMS of reference	The PMS referenced for default by an AXMEDIS tool, via its internal PMS Client
Potential Accessible Rights	List of potential activities and rights that can be performed on a given Content
Private Copying	Copying for personal use of pre-recorded musical works or performers' performances of a musical work onto a blank medium, such as an audio tape or cassette Private copying is an exception (not in all European countries) to the exclusive reproduction rights. It allows private copying onto blank media in exchange for fair compensation to the rights holders.
Produce	The Function of producing Content based on Published Content
Promote	The Function of making available information for the purpose of making a Work or Content better known
Protocol	A description of data formats and rules a device must follow to exchange those data with other devices.
Publish	The Function of making available Content that contain Works
Push	The action of putting digital content transferring it from a database to a remote device.

	Typically used by EUTELSAT satellite data broadcast in push
Quote	The Function of extracting a piece of Content from or referencing another piece of Content
Quote or excerpt	The Function of extracting a piece of Content from or referencing another piece of Content
Registration	The activity performed toward the AXCS to create a new record containing unique identification for the User, Producer, Creator, Collecting soc, etc.. and also for Tools
Registration of AXMEDIS Tools	See registration, action with AXCS. Typically performed for the tool in off line manner. When a given tool is registered in terms of its fingerprint and technical information such as OS, version, language, etc.
Related/ Neighboring rights	<p>in the last few years legislation has finally included Neighboring Rights into copyright laws. Related rights, also known as "neighboring rights" concern other categories of owners of rights, namely, performers and the phonographic producers.</p> <p>Related rights are the rights that belong to the performers and the producers of phonograms in relation with the use of sound recordings (i.e. broadcasting, background music, public communication etc)</p> <p>The link with copyright is due to the fact that the categories of related rights owners are auxiliaries in the intellectual creation process. A musician performs a musical work written by a composer; a producer of phonograms produce songs recordings and music written by authors and composers, played and or sung by performers.</p>
Release	The Function of a Producer who makes a piece of Content commercially available
Render	The generation of human-perceivable data on an appropriate device
Rent	The Function of Moving a piece of Content that was Used in one Domain for Use in another Domain in exchange of a Value-Expression
Repository	who offers Services to name, describe, locate, access, manage, and secure information about Content
Resource	The embodiment of information that can be rendered in a form that is meaningful to a User, e.g. an MP3 file
Resource Descriptor	See Descriptor
Resource Type, Content type	Any digital expression of Resources such as video, audio, audio-visual, text, synthetic audio, 2D/3D graphics
Restore	The Function of moving Content and the associated Stateless Rights Expression if any to the Device from which Backup had been performed
Right	The ability supported by the applicable law to execute Functions on a piece of Governed Content
Rights Expression	The statement of Functions that can be performed on a piece of Governed Content and the circumstances in which they can be performed
Royalty	<p>royalties are monies earned from musical works and/or sound recordings from various sources due to right owners.</p> <p>Examples: publisher distributes royalties to authors and composers for a musical work synchronized with visual media. Producers distributes royalties to performers ensuing from the distribution and sell of recordings; collecting societies distribute royalties to entitled rights owners for the public performance of musical works etc</p>
Selection	It identifies one or a set of queries and one or more specific Content Objects
Service	A set of Functions executed by a user on Content that is valuable for another User or Users
Sound Recording	A sound recording refers to the rights in a recording as distinguished from the copyright in a musical work. The copyright in the musical work encompasses the words and music and is owned by the songwriter/ composer and music publisher. The sound recording is the result of recording music, words or other sounds onto a tape, record, CD, etc.
Sound Recording Copyright Symbol	The copyright notice of sound recordings should include the three following elements <ul style="list-style-type: none"> <li>- the sound recording copyright symbol (p)</li> </ul>

©.	<ul style="list-style-type: none"> <li>- the year of first publication of the sound recording</li> <li>- the name of the owner of copyright of the sound recording, or an abbreviation by which the name can be recognized</li> </ul>
Stateless Rights Expression	A Rights Expression that does not include any countable/temporal condition such as total played time, date, term, etc. Examples of Stateless Rights Expressions are those with conditions based on region code or expiration at a certain date etc.
Store	The Function by which a piece of Governed Content enters a Device from a Delivery System and remains there for later Use
Stream	The Function of transferring Content to a Device where the transferred Content is processed for Rendering only and not Stored
Streaming	information (usually audio or video) that can be heard or viewed as it is being transmitted. Streaming media is not saved for later listening or viewing; it is experienced immediately and the data is discarded.
Superdistribution	<p>A mechanism that</p> <ul style="list-style-type: none"> <li>--Allows to distribute Content to recipient Devices through potentially insecure delivery systems and</li> <li>--Enables the recipient Devices to obtain a Rights Expression for the said Content.</li> </ul>
Support	A library or software component that provide services to other libraries or tools. It has a some interface that can be an API or a WEB service, but it has no user interface
Synchronization License	Authorization to use music with visual images A synchronization or "synch" right involves the use of the musical works and, if requested, of sound recordings in audio-visual form for example as part of a motion picture, television program, commercial announcement, interactive games etc. Synchronization rights must be authorized by the music publisher (allowing a musical work to be recorded for that synchronization use) and if it implies the use of sound recording by the producer of that sound recording.
Syndicate	The Function of Licensing Works or Content for Publication or Distribution by more than one Publisher or Distributor, typically simultaneously
technological measures	The EU Directive 29/01 definition the expression "technological measures" means any technology, device or component that, in the normal course of its operation, is designed to prevent or restrict acts, in respect of works or other subject-matter, which are not authorized by the right holder of any copyright or any right related to copyright as provided for by law Member states should “provide adequate legal protection against the circumvention of any effective technological measures”(art.6)
Technological Protection Measures	is a generic term describing technologies that allow music, publishing and video companies to secure and protect their work such as music, text and video from unauthorized use.
Term of copyright	<p>the amount of time for which a copyright is in effect.</p> <p>Terms of protection of copyright differs from terms of protection of neighboring rights (In Europe a total harmonization of the period of protection for each type of work and each related right in the Member States has been established – e.g. 70 years after the death of the author for works and 50 years after the event setting the time running for neighboring rights)</p>
Tool	Any AXMEDIS software tool installed in a Device.
Track	a musical work, regardless with the length, which has been recorded. Often packaged with other tracks to create a single or an album.
Tracking	See Monitoring
Trick Modes	<p>Any of the following Functions performed on a piece of Content during Play by a User:</p> <ul style="list-style-type: none"> <li>• Fast forward</li> <li>• Slow motion</li> <li>• Freeze frame</li> <li>• Fast reverse</li> <li>• Slow reverse</li> </ul>

Trust	A state of Actors, Devices or Content Data the attainment of which enables the execution of Functions on Governed Content by Actors
Trust Management	The mechanisms by which Trust can be established, preserved and severed
UpLoad	The activity of transferring a Digital Content from a device to another by using the network or another communication channel. The activity is performed in Push.
Use	What can be performed on a Device by a Actor
User Authentication	The procedure to prove the identity of a User to a Device, a Service or a Delivery System
User Interface	The Interface from a software component and the User it can be graphic. In that case can be called GUI
Value-chain	A set of Actors, including Authors, Producers and End-users
Value-Expression	The equating of two groupings of pieces of Content and Services
Verification (only for the AXMEDIS tools)	The activity by means of which AXCS can verify the consistency and trust-ness of an AXMEDIS tool.
Withdraw	The Function of an Author who discontinues any and all Licenses to Use one or more of his Works
Work	Information which retains attributable properties independently of its manifestations in different pieces of Content. A work is an abstraction of the concept of Content. A Work can refer to several versions of the same content different for versions, resolutions, formats, etc.

### 2.3 AXMEDIS definitions for Satellite Data Broadcast

B2B Client Application	Application needed-used to receive data from the Satellite Data Broadcaster. In the B2B the application is able to treat and manipulate the content after the correct reception.
B2B Satellite Data Broadcast	Delivery of content and components (general indexing) in the databases of the Distributors.
B2C Client Application	Application needed-used to receive data from the Satellite Data Broadcaster. In the B2C the application provides a GUI in order to access to the received AXMEDIS Objects.
B2C Satellite Data Broadcast	Delivery of content to the consumers connected to the satellite i-TV-PC according to their selection performed from the programmed content of the periodical catalogue.
Broadcaster	Who sends the content. He is the owner of the technology (Satellite Data Broadcast). He is responsible for the transport level.
Carousel	The set of packages (sequence) assigned to a given active program, is repeated during the schedule.
Decryptor	Very secured application receiving encrypted packets and returning them after decryption
Electronic Program Guide	List of the packages currently scheduled and available for download. It is constantly updated and broadcasted to the clients.
Group	Allow to address group of users.
Job	Transmission Instance for a given package
Package	Minimal logical unit of transmission. It contains one or more file. It is represented by a folder in the Distributor (Satellite)File System.
Program	Transmit one or more package following a pre-defined sequence. Use the assigned bandwidth
Receiving Station	Both hardware and software components of a station configured to receives contents via satellite broadcast.
Schedule	Contains the transmission details (bw, time, #repetition, mode)

## 2.4 AXMEDIS definitions for Workflow Management Systems Integration

Activity	A task that forms one logical step in a process definition. Can be automated or manual. Automation refers to the ability to define scripts and triggers during process operation. Specific activities in the process definition can run as unattended tasks, and automation can enforce business rules in manual, or human-driven, tasks. A common type of automated activity is deadline handling, which can automatically send a reminder message or trigger an escalation procedure if a workitem fails to be completed by a prescribed deadline.
Activity Owner	An activity owner is the participant that has the authority to declare an activity complete, thus forwarding the work to the next activity in the process.
Adopted AXMEDIS Workflow System (AXWF)	Third party workflow management systems to be adopted for integration with the AXMEDIS Framework and referred to as AXWF.
AXRQID	A composite parameter as a subtype of WF-Exchange_ID that can be passed between the AXWF and relevant AXMEDIS components to help identify a particular WF-Exchange_ID.
Bridge	An abstract container of all the transactions required between the AXWF and relevant AXMEDIS components during the lifecycle of each workitem/processflow-instance/workflow-instance/session.
Bridge_Instance	This is a specific bridge belonging to a real session/workflow instance/processflow-instance such that the bridge instance includes all the exchanges i.e. WF-Exchange_IDs that occurred between the particular workspace instance owner and the relevant AXMEDIS components.
Bridge_Instance_ID	This is a unique identifier for reference to a particular bridge-instance.
Exchange_Instance	A particular exchange messaging act or communication between any relevant AXMEDIS components and AXWF within a workflow-instance.
Exchange_Instance_ID	A unique identifier that encompasses all required Exchange data parameters and messaging as required for a single communication to or from any relevant AXMEDIS components and the AXWF.
Instance (IN)	A particular realisation of an Activity in the context of a particular workitem, workflow-instance or workspace-instance.
Instance_ID (INID)	A unique Identifier for reference to a particular Instance.
Job Owner	A job owner is a participant that has overall control of the execution of one process instance
New Product Development (NPD)	Any project or new workflow instance set up to add value by way of creating afresh, and/or modifying existing, digital assets; usually referred to as NPD
Object	AXMEDIS (MPEG21) object
Object_ID (AXOID)	A unique identifier for reference to a particular AXMEDIS object
Participant	One of the following types: a resource set, a specific resource, an organisational unit, a role (a function of a human within an organisation), a human, or a system (an automatic agent). Answers the question "Who?" in a business process.
Process definition	A graphical process definition, or process map, represents the process logic elements of a workflow and their relationships.
Process Definition Tool	A software tool used to create and change process definitions. The tool may be a component of business process management software, a stand-alone application, or a component of a workflow management system. Process definition tools that provide the ability to re-use stored workflow elements, and even entire subprocesses, make workflow application developers more productive since they avoid reinventing the wheel when building workflows and integrating them with other applications.
Process_Instance	A process instance, commonly called a job, is a running instance of a process



	definition.
Process_Instance_ID	A unique identifier for reference to a particular process instance.
Processflow	This is a part of the workflow that represents a set of coordinated activities encoded to map a subspace of the activity network consistently according to the available rules and resources of the particular NPD. In this way a workflow can be equivalent or a superset of a processflow.
Processflow_Instance	This is a particular realisation of a processflow that actually belongs to a workflow instance i.e. a particularised version of the workflow subspace as instantiated in the context of a given work item/workspace instance.
Processflow_Instance_ID	A unique identifier for reference to a particular processflow instance.
Response_ID	A composite parameter as a subtype of WF-Exchange_ID that can be passed from any relevant AXMEDIS components to help identify a particular WF-Exchange_ID as a response to a particular AXRQID.
Session	A session is any event marked by a finite period with at least a start time whereby some user or proxy undertakes the execution of an activity or a set of activities in the context of a given workitem.
Session_ID	A unique identifier for reference to a particular a session.
User_Credentials_ID	An identifier that includes at least the user's identity and their current session identity often in the context of single sign on and or session traceability facilitation.
Workflow (WF)	A workflow consists of process logic and routing rules. The process logic defines the sequence of tasks and the routing rules that must be followed, as well as deadlines plus business rules implemented by the workflow engine.
Workflow Management System (WFMS)	A software application that stores process definitions and runs jobs based on those process definitions via its workflow engine component. The workflow engine is the runtime execution module.
Workflow_Instance	A particular set of coordinated processes set up and encoded to model an activity network required to deliver the objectives of any project or NPD according to the business rules and resources as applicable to that NPD in a given business environment.
Workflow_Instance_ID	A unique identifier for reference to a particular workflow-instance
Workitem	Represents the actual work to be done on an object by a participant for an activity in a process instance.
Workitem_ID (AXWID)	A unique identifier for reference to a particular workitem Object
Workitem_Instance	A reference to a particular version or genre of a workitem amongst several derived from the a single workitem that are undergoing various activities within the same workflow instance
Workitem_Instance_ID	A unique identifier for reference to a particular workitem-instance
Workitem_Object	A version/derivative of an AXMEDIS Object or newly created and currently still being worked-on/modified in the course of an NPD within a process instance or workspace-instance. This is before the resulting new object can exit development and be possibly registerable as a new AXMEDIS Object.
Workspace	This is a normal practice template or an abstract reference to a set of participating entities typically required to be involved in the execution of a particular activity per rules and resources available to a particular business/sector/community of practice.
Workspace_Instance	Or equivalently a workitem (as in Openflow) is referred to as a dynamic data structure recording and indexing the set of participants (actors, tools, objects, resources) and their states involved in any given workflow instance/process flow instance/workitem. Typically this is a node in a graph oriented data structure acting as a pointer to such entities and states.
Workspace_Instance_ID	A unique identifier for reference to a particular workspace instance.

### 3 List of Acronyms

Any Acronym has to approved and registered with the project manager. Please verify this list before proposing any new acronym.

#### 3.1 List of AXMEDIS Acronyms for Identifications

- **AXCID:** unique AXMEDIS Object Creator ID, can be creators: publishers, producers, authors, integrators, etc. All who can produce a new AXMEDIS object. A Creator is the only one entitled to ask for an Object ID.
- **AXDID:** unique AXMEDIS Object Distributor ID
- **AXDOM:** AXMEDIS Domain (associated with the PMS Home or Factory managing the Domain)
- **AXID in AXCS** can be an B2BUserID such as AXDID or AXCID or a AXUID, this could be called AXGUID
- **AXLID:** unique AXMEDIS License ID
- **AXOID:** unique AXMEDIS Object ID
- **AXRID:** AXMEDIS Rule ID
- **AXRTID:** a specific instance of a AXTID of some type (AXTTID)
- **AXTID:** AXMEDIS Tool ID, see also AXTTID
- **AXTOID:** AXMEDIS Temporary Object ID, produced directly from the numbers available for the AXMEDIS Creator. It can be produced as AXCID+AXTID+AXUID+an progressive ID of the Tool
- **AXTTID:** AXMEDIS Tool Type ID: Different tools are: Editor, Composition Engine, Formatting Engine, Protection Tool Engine, etc.. This is contained into the Profile, several other aspects and details for each tool have to be registered. Some other details depends on the specific instance, this the reason to provide and exploit a Tool Profile.
- **AXUID:** unique AXMEDIS User ID
- **AXWID:** Work Identification. For each Work you may have several different versions of AXOB, for example differing for resolution, market, format of the digital resources, etc.
- **B2BUserID:** internal AXCS ID for B2B Users
- **P2PID:** ID of P2P peer on AXEPTool

#### 3.2 List of AXMEDIS Acronyms for Tools

- **AXAM:** AXMEDIS Action Manager, decision tool for the content that arrives from the satellite receiver.
- **AXClient:** any AXMEDIS Client
- **AXCP:** AXMEDIS Content Processing (composition, adaptation, fingerprint, formatting, protection, publication, etc....)
- **AXCP:** AXMEDIS Content Processing (Editor, scheduler, engine etc.)
- **AXCS:** AXMEDIS Certifier and Supervisor
- **AXDB:** AXMEDIS database
- **AXDBIN:** AXEPTool AXMEDIS IN Database
- **AXDBINM :** AXEPTool AXMEDIS IN Database Manager
- **AXDBM:** AXMEDIS Database Manager
- **AXDBMS:** AXMEDIS Database Management System
- **AXDBOUT:** AXEPTool AXMEDIS OUT Database
- **AXDBOUTM:** AXEPTool AXMEDIS OUT Database Manager
- **AXDOM:** AXMEDIS Domain (associated to the PMS Home managing the Domain)
- **AXEPTool:** AMEDIS P2P tool for content distribution and sharing at level B2B, among companies with AXMEDIS tools for content production, processing or distribution
- **AXFW:** AXMEDIS Framework
- **AXInfo:** visible information into AXMEDIS objects, replicated into the protected part. In the AXInfo is included the identification, the metadata, workflow, history, fingerprint, etc.

- AXMEDIA Peer: AXMEDIS Client Peer in the P2P network of AXMEDIS Clients on PC, see TISCALI distribution, see distribution toward PC on Internet.
- AXMEDIS BOX: box integrating the hardware and software components of the AXMEDIS B2B Client Application
- AXMEDIS DB: AXDB
- AXMEDIS Factory: a company that has the possibility of creating AXMEDIS objects. An AXMEDIS factory typically has AXMEDIS database, AXCP tools, and a connection via AXEPTool to other AXMEDIS Factories.
- AXMEDIS: the project
- AXOB: AXMEDIS Object, they does not contain the license. An AXOB with a license is presently called Governed AXOB.
- AXOIDG: AXMEDIS Object ID Generator
- AXOM: AXMEDIS Object Manager
- AXPTE: AXMEDIS Protection Tool Editor a particular instance of the Compositional and Formatting Tool Editor to write protection rules.
- AXQS: AXMEDIS Query Support
- AXQSUI: Query Support User Interface
- AXWFM: AXMEDIS workflow Manager
- AXWF-DXF: AXMEDIS Workflow Data Exchange Format
- AXWFUI: AXMEDIS Workflow User Interface
- CAMART: AXMEDIS Core Accounting Manager and Reporting Tool
- CPA: Critical Path Activities (workflow area)
- EXEVAM: External Editor Viewer Activation Manager
- GAXOB: Governed AXMEDIS Object
- NPD: New Product Development (workflow area)
- P&P: Programme and Publication tool, AXMEDIS P&P
- PAR: Potential Available Rights
- PMS Factory: Protection Manager Server Factory
- PMS Home: Protection Manager Server Home
- PMS of reference: PMS referenced by default by an AXMEDIS Client via its internal PMS Client
- PMS: AXMEDIS Protection Manager Support, it can be Client, Home and Server.
- QSWSI: Query Support Web Service Interface
- VLE: Virtual Learning Environment (SEJER)
- WFDB: Workflow Database
- WFMS: Any Workflow Management System

### 3.3 List of MPEG21 Acronyms and Terminology

- DIA: digital item adaptation, tools or algorithms for processing digital resources and files, scaling them, sampling them etc.
- DIBO: Digital Item basic op.
- DID: Digital Item Description
- DII: Digital Item .....
- DIM: Digital Item Method
- DIP: Digital Item Processor
- DIXO: Digital Item Extension
- DMI: Digital
- IPMP: Intellectually Property Management Processor
- Item: Digital Item
- RDD: Rights Data Dictionary
- REL: Rights Expression Language

### 3.4 List of DMP Acronyms

- DMM: Digital Media Manifesto of the DMP project
- DMP: Digital Media Project of L. Chiariglione

### 3.5 List of Generic Acronyms

- API: Application Program Interface
- B2B: Business to Business. the exchange of services, information and/or products from one business to another, as opposed to between a business and a consumer (see B2C).
- B2B2C: Business to Business to Consumer model, the integration of a B2B and B2C models
- B2C: Business to Consumer, the exchange of services, information and/or products from a business to a consumer, as opposed to between one business and another (see B2B).
- BIN: binary
- BPEL4WS: Business Process Execution Language for Web Services is the cooperative merging of WSFL and XLANG for Web services orchestration, workflow, and composition. It has not yet been submitted to an IT standards organisation.
- C2C: Consumer to Consumer, direct commerce and interchange among consumers
- CA: consortium agreement
- CAS: Conditional Access System
- CMS: Content Management System, system to manager digital content including database and interface to make query and managing objects
- CORAL: Project on DRM
- CR: Content Reference Forum project, see its web page
- DAB: Digital Audio Broadcast
- DB2: IBM database product
- DBMS: Database management System
- DRM: Digital Rights Management
- DVB: Digital Video Broadcast
- DVB-IP: Digital Video Broadcast Internet Protocol
- DVB-MPE: Digital Video Broadcast Multiprotocol Encapsulation
- DVBS: Digital Video Broadcast Satellite
- DVBT: Digital Video Broadcast Terrestrial
- ebXML BPSS: The eBusiness Transition Working Group carries forward the definition of workflow conversation and orchestration in the Business Process Specification Schema (BPSS) layer of ebXML, which defines many protocols and layers for XML-based e-business.
- EC: European Commission
- ENTHRONE: IP Project of the European Commission
- GUI: Graphic User Interface
- HTTP: a communication protocol at the basis of the WEB page distribution
- ID: Identification code or number
- IDL: Interface Description Languages: a model and formalism to describe the API of a piece of code or library
- IE: Internet Explorer, Microsoft product
- IP: Integrated Project of the EC such as AXMEDIS
- ISBN: International Standard Book Number
- ISMN: International Standard Music Number
- ISRC: International Standard Recording Code
- IST: Information Technology Society
- JDBC: Java counterpart of Microsoft's ODBC, Java Database Connectivity
- JDF: CIP4's Job Definition Format is an upcoming workflow industry standard for the Graphics Arts industry designed to simplify information exchange among different applications and systems.
- LO-LOM: format for educational content

- LOM: Learning objects
- MAC OS: Mac Operating Systems
- MOZILLA: A browser in open source
- MP3: coding of layer 3 of MPEG2 standard
- MPL: Mozilla Public License
- MYSQL: a database product open source
- ODBC: Open DataBase Connectivity
- OID: Object ID, general way to indicate the ID of digital objects
- OS: Operating System
- P2P: Peer to peer, the communication among final users, so called peers
- PC: Personal Computer
- PCM: coding of audio files
- PDA: Personal Data Assistant, a mobile device
- PID: Program Identifier (DVB-S Protocol)
- PIPs: RosettaNet's Partner Interface Process: defines business processes between trading partners via specialized system-to-system XML-based dialogs. Many PIPs have been defined for various partner scenarios.
- PM: Project manager
- ROI: Region of Interest
- SHTTP: a secure protocol based on HTTP protocol
- SQL: standard query language
- SSL: a secure communication protocol for transactions, user to support payments on WEB
- Wf-XML: Wf-XML and Workflow Reference Model from the Workflow Management Coalition (WfMC): Wf-XML is an XML-based encoding of workflow interoperability messages. The Workflow Reference Model is a description of the underlying workflow system architecture. Wf-XML has no binding to SOAP and WSDL at this time.
- WIN: Windows based
- WIPO: World Intellectual Property Organization
- WSCI: Sun/BEA/Intalio/SAP consortium's Web Services Choreography Interface "is an XML-based interface description language that describes the flow of messages exchanged by a Web Service participating in choreographed interactions with other services."
- WSCL: W3C's Web Services Conversation Language: A submission by Hewlett-Packard to the W3C, it allows defining the abstract interfaces of Web services (that is, the business level conversations or public processes supported by a Web service), the XML documents being exchanged, and the sequencing of those documents.
- WSFL: IBM Web Services Flow Language: Specifies two types of Web services composition 1) an executable business process known as a flowModel, and 2) a business collaboration known as a globalModel. Compatible with SOAP, UDDI, and WSDL.
- XLANG: Microsoft's XLANG: Business modeling language for BizTalk, which is a component of .NET that enables EAI. BizTalk Orchestration is the workflow engine and BizTalk Orchestration Designer is the visual business process modelling tool based on XLANG.
- XMI: Quotron symbol for the Major Market Index (MMI)
- XML: eXtensible Markup Language. A subset of SGML constituting a particular text markup language for interchange of structured data. The Unicode Standard is the reference character set for XML content. (See also SGML and fancy text.) XML is a trademark of the World Wide Web Consortium.
- XPDL: XML Process Definition Language (XPDL) of the Workflow Management Coalition (WfMC)
- XSL: Extensible Stylesheet Language - XSL is a language for creating a style sheet that describes how data sent over the Web using the Extensible Markup Language (XML) is to be presented to the user. XSL specifies the styling of an XML document by using XSLT to describe how the document is transformed into another XML document that uses the formatting vocabulary.
- XSLT: XSL Transformations, a language for transforming XML documents into other XML documents. XSLT is designed for use as part of XSL, which is a style sheet language for XML. In addition to XSLT,

XSL includes an XML vocabulary for specifying formatting. XSLT is a W3C specification but also part 2 of the XSL specification.

- XUL: XML-based User interface Language. Standards based language developed by mozilla.org to create cross-platform user interfaces for Mozilla-based products such as the browser.

### 3.6 List of Acronyms, File formats

- AAC: Audio format
- AIF: Audio Format
- AVI: VIDEO format, standard format
- BMP: Image file, standard format
- DOC: Document format, WORD format
- EPS: Encapsulated PostScript
- FON: files containing fonts for visualisation of symbols and user interface
- GIF: Image file, standard format
- HTM: Such as HTML
- HTML: Document format, for web pages
- J2K: Image format, JPEG 2000 Format
- JPEG: image format
- JPG: Image file, standard format
- MID: Midi file
- MIDI: Midi File
- MP3: audio format, MPEG 2 layer 3, Audio file in MP3 format
- MPEG: MPEG format for video, Video file, in standard format
- MPG: MPEG format for video
- PCM: Audio Format
- PCX: Image file, standard format
- PDA: file containing fonts for printing music scores
- PDF: Document format, Adobe Acrobat format
- PIC: Image file, standard format
- PNG: image format
- PPT: Power Point Format
- PS: Document format, PostScript Format
- RTF: Document format, interchange format
- SND: Sound file, standard file
- TGA: image format, Targa format for images
- TIF: Image file, standard format
- TIFF: image format, Such as the TIF, can be compressed or not
- TTY: True type font sources
- TXT: Document format, textual ASCII format
- WAV: Audio format, Wave file in PCM, standard format
- WDF: WEDELMUSIC Format
- WMF: Windows Media format
- XLS: EXCEL format
- XML: XML format
- PSP: Paint Shop Pro format for images, and vectorial models

## 4 Appendix A

For additional definition you can see the Excel file named:

AXMEDIS-de3-1-2-app-B-Glossary-v1-0.xls

And accessible on the Specification Activity on the WWW site.

## 5 Appendix B – all the above listed named together in alphabetic order

### 5.1 Definitions all together in alphabetic order

Action Log	The description of an action performed on an AXMEDIS tool on Content. This is called in MPEG21 Event and in DMP Use Data
Action Report	The description of a set of Actions Log performed on an AXMEDIS tool on Content. This is called in MPEG21 Event Report and in DMP Use Data Report !
Activity	A task that forms one logical step in a process definition. Can be automated or manual. Automation refers to the ability to define scripts and triggers during process operation. Specific activities in the process definition can run as unattended tasks, and automation can enforce business rules in manual, or human-driven, tasks. A common type of automated activity is deadline handling, which can automatically send a reminder message or trigger an escalation procedure if a workitem fails to be completed by a prescribed deadline.
Activity Owner	An activity owner is the participant that has the authority to declare an activity complete, thus forwarding the work to the next activity in the process.
Actor	Any of the users or organizations listed in this table
Adapt	The Function of changing attributes to a piece of Content, such as converting 5-channel music to 2-channel music, subsampling a high-definition video to a standard definition video etc.
Adopted AXMEDIS Workflow System (AXWF)	Third party workflow management systems to be adopted for integration with the AXMEDIS Framework and referred to as AXWF.
Aggregator	who provides procuring, packaging, presenting, cataloguing, archiving, indexing and promoting Services typically to Retailers
Album	a collection of tracks arranged together available as a one unit. Many artists record album but album can contain tracks by a number of different artists.
Annotate	The function of <ul style="list-style-type: none"> <li>referencing a specific portion of a piece of Content and</li> <li>linking the reference to another piece of Content Created by a User</li> </ul>
Application	The programmed performance of Functions on Content for a specific purpose
Associate	The Function of establishing a link between two or more pieces of Content
Author	who creates a Work that is copyrightable, whether it be artistic, literary, dramatic, or musical.
AXMEDIS Component	An digital object component compliant with the AXMEDIS data model schema
AXMEDIS database tools	AXMEDIS tools such as: AXMEDIS database manager, AXMEDIS Query User Interface, etc.
AXMEDIS Distribution Tools	AXMEDIS tools such as: AXEPTool, Programme and Publication Tool, etc.
AXMEDIS factory	The area in which the AXMEDIS tools are installed around an AXMEDIS

	database. It may contains or not all the AXMEDIS tools or only a part of them. It may contains only the AXEPTool or may contains only the AXMEDIS database and production tools.
AXMEDIS Kiosk	The AXMEDIS Kiosks is not only a simple kiosk is also a distributor for content towards mobile devices such as PDA, Tablet PC and Mobiles by means of intranet wireless network such as Bluetooth and/or WiFi, etc.
AXMEDIS Object	An digital content compliant with the AXMEDIS data model schema
AXMEDIS Production Tools	AXMEDIS tools such as: AXMEDIS editors, AXMEDIS Composition/formatting Tools, AXMEDIS Workflow tools, AXMEDIS Protection Tools, etc.
AXMEDIS protection Tools	AXMEDIS tools such as: AXMEDIS protection Editor, AXMEDIS protection engine, AXMEDIS Protection Manager Support, AXMEDIS Certifier and Supervisor ,etc.
AXMEDIS Tool	An AXMEDIS software tool.
AXRQID	A composite parameter as a subtype of WF-Exchange_ID that can be passed between the AXWF and relevant AXMEDIS components to help identify a particular WF-Exchange_ID.
B2B Client Application	Application needed-used to receive data from the Satellite Data Broadcaster. In the B2B the application is able to treat and manipulate the content after the correct reception.
B2B Satellite Data Broadcast	Delivery of content and components (general indexing) in the databases of the Distributors.
B2C Client Application	Application needed-used to receive data from the Satellite Data Broadcaster. In the B2C the application provides a GUI in order to access to the received AXMEDIS Objects.
B2C Satellite Data Broadcast	Delivery of content to the consumers connected to the satellite i-TV-PC according to their selection performed from the programmed content of the periodical catalogue.
Backup	The Function consisting of the following actions <ul style="list-style-type: none"> <li>• Duplication of Content.</li> <li>• Duplication Rights Expression in case this is a Stateless Rights Expression</li> <li>• Moving of the duplicate(s) to another location that is not a Device</li> </ul>
Blanket License	To facilitate the use of copyrighted work, collecting societies are entitled to negotiate performing rights with the users on behalf of their members. The Blanket License is a license issued by a rights collecting society that authorizes in advance the public performance of all the songs in the society's catalog. For example radio and television stations, public broadcasters, cable stations, restaurants, subscription music services, etc. can acquire a "blanket license" from a collecting rights organization which gives them the right to perform every piece of music contained in the respective repertoire as often as they wish during the term of it.
Bridge	An abstract container of all the transactions required between the AXWF and relevant AXMEDIS components during the lifecycle of each workitem/processflow-instance/workflow-instance/session.
Bridge_Instance	This is a specific bridge belonging to a real session/workflow instance/processflow-instance such that the bridge instance includes all the exchanges i.e. WF-Exchange_IDs that occurred between the particular workspace instance owner and the relevant AXMEDIS components.
Bridge_Instance_ID	This is a unique identifier for reference to a particular bridge-instance.
Broadcast	The Function of transferring Content to Devices in a point-to-multipoint mode
Broadcaster	Who sends the content. He is the owner of the technology (Satellite Data Broadcast). He is responsible for the transport level.
Carousel	The set of packages (sequence) assigned to a given active program, is repeated



	during the schedule.
Certificate Authority	who issues digital certificates used to create digital signatures and public-private key pair
Certification (only for the AXMEDIS tools)	The activity by which an AXMEDIS tool is certified with the AXCS at the first its connection. In that phase it takes the TID.
Clearing House	Organization who collects Value Expressions from other Users to distribute to Right Holders for the purchase of Use Rights over a given instance of Content
Collective Management Organization	See Collective Management Society
Collective Management Society	<p>Organization who provides collective representation to its member, e.g. Authors, Performers, Publishers etc. It collects license fees on behalf of composers and publishers for certain types of usages of copyright-protected material and works.</p> <p>Collecting societies act on behalf of their members, negotiate rates and terms of use with users, issue licenses authorizing uses, collect and distribute royalties . They are an important link between right owners and users of copyrighted works (such as radio stations) because they ensure that owners of rights receive payment for the use of their works.</p> <p>Some rights are directly exercised by right owners through contract agreement between interested parties : for example a composer or a performer can agree to have his music or performance recorded on compact disc.</p> <p>Other cases show that individual management of rights is virtually impossible with regard to certain types of use for practical reasons. Authors and/or music publishers for example are not materially capable of monitoring all uses of their works; they can't for instance contact every single radio or television station to negotiate licenses and remuneration for the use of their works. Conversely, it is not practical for a broadcasting organization to seek specific permission from every right owners for the use of every copyrighted work. The very impracticability of managing these activities individually, both for the owner of rights and for the user, creates a need for collective management organizations, whose role is to bridge the gap between them and among others.</p> <p>Collecting societies: collecting societies distribute royalties to rights owners collected from a multitude of users of copyrighted work in their home territory and, through reciprocal arrangements with societies in other countries, extend their reach to the international sphere.</p> <p>Collecting societies most commonly take care of the following rights:</p> <ul style="list-style-type: none"> <li>• The right of public performance (music played or performed in discotheques, restaurants, and other public places). A public performance also occurs when the performance is transmitted by means of any device or process (for example, via broadcast, telephone wire or other means) to the public.</li> <li>• The right of broadcasting (live and recorded performances on radio and television);</li> <li>• The mechanical reproduction rights in musical works (the reproduction of works in CDs, tapes, vinyl records, cassettes, mini-discs, or other forms of recordings);</li> <li>• Related rights (the rights of performers and phonographic producers to obtain remuneration for public use of sound recording ( i.e. broadcasting or the communication to the public of phonograms).</li> </ul> <p>Authors and Publishers Collecting Societies: act on behalf of their members ( music authors, composers and publishers) by collecting and distributing them the</p>

	<p>revenues ensuing from public performance, mechanical reproduction, broadcasting and other public use of a copyrighted work.</p> <p>Producers and Performers Collecting Societies: act on behalf of their members (respectively producers and performers) by collecting and distributing revenues ensuing from the public use of sound recordings (neighboring rights)</p>
Composer	A creator of a work (typically music) who wants his work to be published and distributed.
Composite Content	A combination of different pieces of Content
Compulsory Mechanical License	<p>A license issued by Authors and Publishers Collecting Society allowing to record and distribute copyrighted musical work paying the license rates established by the collecting society due to the rights owners (authors/composers and publishers) of the musical work.</p> <p>Phonographic producer must obtain a mechanical license in order to lawfully produce and distribute records, CD, tapes etc.</p>
Condition	A logical formula that has to be verified for applying a give action or to grant a given permission to perform an action/right
Conformance	The satisfaction of relevant requirements of one or more than one Specification by a Device or a piece of Content
Conformance certification provider	who provides conformance, robustness and encoding rules along with certification of satisfying same.
Connectivity provider	who provides point-to-point or point-to-multipoint connectivity between Users
Consumer	See the end user or final user
Content	A structured combination of any Resource Type and Metadata that may or may not constitute a manifestation of a Work
Content Access	The Function of making available Content or Governed Content to a Device so that a Device can execute Functions on it
Content Data	A structured combination of Content Data Elements
Content Data Elements	Any of the following Content Data types: Resources, Metadata, Content, Rights Expressions, Licenses and Governed Content
content owners	See Rights Holder
Content Provider	who provide Content or Content with license to another Actor (e.g. an End-user)
Context (of Use)	The association of a piece of Content with other pieces of Content and circumstances of Use
Copy	<p>The Function consisting of the following actions</p> <ul style="list-style-type: none"> <li>• Duplication of Content and/or Rights Expression</li> <li>• Transferring that duplicate to another Device</li> </ul>
Copyright	<p>A copyright is a bundle of exclusive rights granted by law to the creators of original musical works - including sound recordings . Therefore copyright is the legal protection extended to the owner of the rights in an original work that he has created. It comprises two main sets of rights: the economic rights and the moral rights.</p> <p>The economic rights are the rights of reproduction, broadcasting, public performance, adaptation, translation, communication to public, display, distribution, and so on. The moral rights include the author's right to object to any distortion, mutilation or other modification of his work that might be prejudicial to his honor or reputation.</p>
Copyright holders/owners	See Rights Holder
Copyright Notice	<p>© : A copyright notice is an identifier placed on published copyrighted work to inform the world of copyright ownership giving notice that copyright owner is claiming ownership. A copyright notice shall include the following elements:</p> <ul style="list-style-type: none"> <li>- the word copyright or the symbol ©</li> </ul>

	<ul style="list-style-type: none"> <li>- The year of first publication</li> <li>- The name of copyright owner/owners</li> </ul>
Creator	Who can ask for an AXMEDIS Object ID from the AXMEDIS OID Generator of the AXCS.
Customer	A customer buys or rents a work or rights on it. A customer can also be a performer.
Decryptor	Very secured application receiving encrypted packets and returning them after decryption
Delivery System or Distribution System	A system that is used to deliver Data between any two or more Devices (e.g. a storage medium or a network-based transport mechanism)
Derivative Work	New work based on or derived from one or more pre-existing works
Descriptor	Data that describe the properties of Resources. MPEG7 is a standard way to formalize descriptors of digital resources.
Device	A system conforming to Technical Specifications that allows a User to execute Access to and Functions on Content via a Tool
Device Certification	The procedure to prove the identity of a Device to another Device, a Service or a Delivery System
Device Manufacturer	who manufactures or assembles hardware and/or software components to make Devices
Digital Resource	See Resource
Distribute (Content)	The function of transferring Content from the Producer to the End-User
Distribute (Work)	The function of transferring Works to Publishers and Producers
Distribution	The process of selling music content to the consumers, typically through stores and/or online retailers
Distributor	Who possesses the Right, acquired by sale, License or other transfer, to control the disposition and transfer of Content to End-users
Domain	A concept that identify a collection of Devices with their Tools at which it is associated a PMS Home.
Download	The Function of transferring Content to a Device on which Functions may be executed. The function of transferring AXMEDIS object from the network or distributor to another device or AXMEDIS tool.
Edit	The Function of Modifying a piece of Content, such as by adding, deleting, altering portions of Content in a piece of Content
Electronic Program Guide	List of the packages currently scheduled and available for download. It is constantly updated and broadcasted to the clients.
Encrypt	The Function of making Data unreadable unless a Key is available to restore the Data to a readable form
End-user or Final user	The last User in a Value-chain, who legally acquires content for personal use.
Engine	A tool that is autonomous in the sense that is continuously active to react to external stimuli provoked by an user or by other tools for example by the workflow manager.
Engraver	An engraver typesets the manuscript of the composer. He edits the digital sheet music by copying it from the composer's manuscript, using a music editor (Finale, Sibelius, Wedelmusic ...), or from a print out of an old music sheet from which the symbolic code is not available.
Environment	A Device or set of Devices with the same or different functionalities. An Environment may interact with other Environments and may also interact with the outside through appropriate Interfaces
Exceptions	<p>Uses of copyrighted works that are specifically defined in law as not infringing copyright.</p> <p>There are a number of exceptions to copyright (not harmonized at European level) that allow limited use of copyright works without the permission of</p>

	copyright owners. For example, limited use of works may be possible for non-commercial research , in judicial proceedings, teaching in schools or in other educational establishments or for use of blind people . Exceptions to copyright do not generally give the rights to use copyright material; they just state that certain activities do not infringe copyright.
Exchange_Instance	A particular exchange messaging act or communication between any relevant AXMEDIS components and AXWF within a workflow-instance.
Exchange_Instance_ID	A unique identifier that encompasses all required Exchange data parameters and messaging as required for a single communication to or from any relevant AXMEDIS components and the AXWF.
Executable	Data that give a Device instructions to enable a User to execute Functions
Expanding Selection	The action of transforming a Selection into a list of references to real AXMEDIS Objects located in the several databases of AXMEDIS.
Experience	The subjective result of Using Content by an End-User
Export	Making available a piece of Governed Content to an another DRM system
Final User	See End User
Financial Service provider	who provides the infrastructure for financial transactions, and accept deposits and channel the money into lending activities
Fingerprint	A number or a code that express a feature of a given piece or segment of content. In AXMEDIS this can be intended also as a technical feature of the content such as the rhythm, the duration, the trend of the dominant color, the CRC, the MD5 of a image segment, etc.
Function	What is executed by a Device on Content
Governed Content	A piece of Content combined with a License
Group	Allow to address group of users.
GUI	a graphical user interface
Identifier	A symbol that establishes the identity of Users, Devices, Domains, Works and Content Data Elements
Import	Accessing a piece of content or governed content from an another DRM system
Instance (IN)	A particular realisation of an Activity in the context of a particular workitem, workflow-instance or workspace-instance.
Instance_ID (INID)	A unique Identifier for reference to a particular Instance.
Integrator	See Aggregator
Intellectual property	WIPO definition: intellectual property is divided into two categories: Industrial property, which includes inventions (patents), trademarks, industrial designs, and geographic indications of source; and Copyright, which includes literary and artistic works such as novels, poems and plays, films, musical works, artistic works such as drawings, paintings, photographs and sculptures, and architectural designs. Rights related to copyright include those of performing artists in their performances, producers of phonograms in their recordings, and those of broadcasters in their radio and television programs
Interface	The boundary between <ul style="list-style-type: none"> <li>• Devices</li> <li>• Devices and AXMEDIS devices</li> <li>• Devices and Users (User Interface)</li> <li>• Devices and Delivery Systems</li> </ul>
Interoperability	The ability of a device to exchange data with other devices across standard interfaces using standard protocols.
Job	Transmission Instance for a given package
Job Owner	A job owner is a participant that has overall control of the execution of one process instance
Key	Data used by a cryptographic method to make Encrypted Data readable

kiosk (ke'osk) (n.):	A booth providing a computer-related service, such as an Automated Teller Machine (ATM). A kiosk requires a simple user interface that can be used without training or documentation, and the hardware must be rugged and capable of operating unattended for long periods of time. Touch screens can provide some of these features because they enable a user to enter and display information on the same device and eliminate the need for keyboards, which are prone to break. (see AXMEDIS Kiosk)
Legal License	The license gives the right to use a specific piece of intellectual property (such as musical works or sound recordings) in the ways licensed by the right holder or his representative (in some case collecting societies). The license is a legal agreement granting someone permission to use a work for certain purposes or under certain conditions. <u>A license does not change the ownership of the copyright.</u>
Lend	The Function of Moving a piece of Content that was Used in one Domain for Use in another Domain
License	Data representing the granted Rights expressed by Rights Expressions from a Rights Holder to a User.
License Model	Is a prototype of a license without details such as the costs and the whole set of rights. In addition, it can be or not assigned to a given User.
Manager	A software module of component that manager some information and may contain user interface or not. It is a generic name for a module such as the AXMEDIS database Manager.
Marketer	who provides promotional, sale enhancement, brand enhancement and Merchandising Services
Master	A completed recording of a song from which multiple copies are manufactured.
Mediation Service provider	who provides mediator/agent Services to broker "closed" information such as actor identity
Metadata	Information (e.g. Identifiers, Descriptors etc.) not including Use Data, Rights Expressions and Licenses that is distinct from but directly related to Works and Resources.
Metadata Service provider	who recognises, assigns, delivers and processes structured metadata
Modify	The Function of making changes to a Work or piece of Content
Monitoring	Action to trace the passage (uploading/downloading, copying, etc.) of Content with the aim of identifying the Content and reporting them to a central server.
Monitoring Service provider	who provides Action Report information in aggregated form, in AXMEDIS this role is performed by the AXCS.
Move	The Function consisting of the following actions Copy of Content from a source Device to a destination Device Deletion of said in the source Device
Music Author/song writer	the original creator/writer of the lyrics of a music composition
Musical work	a melody and any accompanying lyrics; more commonly referred to as a musical composition or a song.
Network Service provider	who provides IP (or equivalent) services and typically various other services above it, e.g. guarantee of quality of service
New Product Development (NPD)	Any project or new workflow instance set up to add value by way of creating afresh, and/or modifying existing, digital assets; usually referred to as NPD
Object	AXMEDIS (MPEG21) object
Object ID (AXOID)	A unique identifier for reference to a particular AXMEDIS object
Organization	An association or a super partes private or public bodies
Package	Minimal logical unit of transmission. It contains one or more file. It is represented by a folder in the Distributor (Satellite)File System.
Participant	One of the following types: a resource set, a specific resource, an organisational unit, a role (a function of a human within an organisation), a human, or a system (an automatic agent). Answers the question "Who?" in a

	business process.
Performer	who Uses Works to make Content with a production process. as defined in the WIPO Performances and Phonograms Treaty with respect to rights granted: “performers” are actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret, or otherwise perform literary or artistic works or expressions of folklore; (i.e the performers or artists interpret the musical composition within the recording productions process).
Phonographic Producer	an organization/company that undertakes the technical and economical responsibility necessary for the making of sounds recordings.
Phonographic producer	as defined in the WIPO Performances and Phonograms Treaty with respect to rights granted: producer of phonogram is the person, or the legal entity, who or which takes the initiative and has the responsibility for the first fixation of the sounds of a performance or other sounds, or the representations of sounds (i.e. an organization/company that undertakes the technical and economical responsibility necessary for creating sounds recordings)
Platform	The technology infrastructure deployed to enable Users to perform Functions
Platform Service provider	who provides services on (parts of) the technology infrastructure of a Value-chain
Play	The Function of converting a piece of Content Data to a form that can be and is Rendered
PMS of reference	The PMS referenced for default by an AXMEDIS tool, via its internal PMS Client
Potential Accessible Rights	List of potential activities and rights that can be performed on a given Content
Private Copying	Copying for personal use of pre-recorded musical works or performers’ performances of a musical work onto a blank medium, such as an audio tape or cassette Private copying is an exception (not in all European countries) to the exclusive reproduction rights. It allows private copying onto blank media in exchange for fair compensation to the rights holders.
Process definition	A graphical process definition, or process map, represents the process logic elements of a workflow and their relationships.
Process Definition Tool	A software tool used to create and change process definitions. The tool may be a component of business process management software, a stand-alone application, or a component of a workflow management system. Process definition tools that provide the ability to re-use stored workflow elements, and even entire subprocesses, make workflow application developers more productive since they avoid reinventing the wheel when building workflows and integrating them with other applications.
Process_Instance	A process instance, commonly called a job, is a running instance of a process definition.
Process_Instance_ID	A unique identifier for reference to a particular process instance.
Processflow	This is a part of the workflow that represents a set of coordinated activities encoded to map a subspace of the activity network consistently according to the available rules and resources of the particular NPD. In this way a workflow can be equivalent or a superset of a processflow.
Processflow_Instance	This is a particular realisation of a processflow that actually belongs to a workflow instance i.e. a particularised version of the workflow subspace as instantiated in the context of a given work item/workspace instance.
Processflow_Instance_ID	A unique identifier for reference to a particular processflow instance.
Produce	The Function of producing Content based on Published Content
Producer	who produces Content
Program	Transmit one or more package following a pre-defined sequence. Use the assigned bandwidth
Promote	The Function of making available information for the purpose of making a Work

	or Content better known
Protocol	A description of data formats and rules a device must follow to exchange those data with other devices.
Public Authority	Who provides rules relating to the Use of Content and taxation on transactions related to Content.
Publish	The Function of making available Content that contain Works
Publisher	who makes Content available to the public. In many cases, the publisher is responsible for publishing, marketing, distribution of content, protecting at the same time his IPR during the legal time or the time indicated in the contract. An organization/company that makes music works public and share the author and composer rights. The copyrights must be assigned to the music publisher by the authors/composer in written contract, in return for a percentage of royalties produced by the content.
Push	The action of putting digital content transferring it from a database to a remote device. Typically used by EUTELSAT satellite data broadcast in push
Quote	The Function of extracting a piece of Content from or referencing another piece of Content
Quote or excerpt	The Function of extracting a piece of Content from or referencing another piece of Content
Receiving Station	Both hardware and software components of a station configured to receives contents via satellite broadcast.
Registration	The activity performed toward the AXCS to create a new record containing unique identification for the User, Producer, Creator, Collecting soc, etc.. and also for Tools
Registration of AXMEDIS Tools	See registration, action with AXCS. Typically performed for the tool in off line manner. When a given tool is registered in terms of its fingerprint and technical information such as OS, version, language, etc.
Related/ Neighboring rights	in the last few years legislation has finally included Neighboring Rights into copyright laws. Related rights, also known as "neighboring rights" concern other categories of owners of rights, namely, performers and the phonographic producers. Related rights are the rights that belong to the performers and the producers of phonograms in relation with the use of sound recordings (i.e. broadcasting, background music, public communication etc) The link with copyright is due to the fact that the categories of related rights owners are auxiliaries in the intellectual creation process. A musician performs a musical work written by a composer; a producer of phonograms produce songs recordings and music written by authors and composers, played and or sung by performers.
Release	The Function of a Producer who makes a piece of Content commercially available
Render	The generation of human-perceivable data on an appropriate device
Rent	The Function of Moving a piece of Content that was Used in one Domain for Use in another Domain in exchange of a Value-Expression
Repository	who offers Services to name, describe, locate, access, manage, and secure information about Content
Reseller	who possesses the Right, acquired by sale, License or other transfer, to control the disposition and transfer of Content from End-users to different End-users
Resolution Service provider	who provides the Service of mapping disparate sets of Metadata
Resource	The embodiment of information that can be rendered in a form that is meaningful to a User, e.g. an MP3 file
Resource Descriptor	See Descriptor
Resource Type, Content type	Any digital expression of Resources such as video, audio, audio-visual, text,

	synthetic audio, 2D/3D graphics
Response_ID	A composite parameter as a subtype of WF-Exchange_ID that can be passed from any relevant AXMEDIS components to help identify a particular WF-Exchange_ID as a response to a particular AXRQID.
Restore	The Function of moving Content and the associated Stateless Rights Expression if any to the Device from which Backup had been performed
Retailer	who Distributes, sells or Licenses Content to an End-User
Right	The ability supported by the applicable law to execute Functions on a piece of Governed Content
Rights Expression	The statement of Functions that can be performed on a piece of Governed Content and the circumstances in which they can be performed
Rights Holder	who has Rights on a piece of Content. The persons or entities that own all or some of the protected rights ; these may be the creators of the copyrighted work or it may be an assignee or transferee. Given the differing types of rights, there may be more than one copyright holder for a piece of music (i.e. authors, composers, publishers, producers, performers)
Rights Owner	See Rights Holder
Royalty	royalties are monies earned from musical works and/or sound recordings from various sources due to right owners. Examples: publisher distributes royalties to authors and composers for a musical work synchronized with visual media. Producers distributes royalties to performers ensuing from the distribution and sell of recordings; collecting societies distribute royalties to entitled rights owners for the public performance of musical works etc
Schedule	Contains the transmission details (bw, time, #repetition, mode)
Security provider	who provides technologies and services related to the security technologies and all levels of relevant computer and network security solutions
Selection	It identifies one or a set of queries and one or more specific Content Objects
Service	A set of Functions executed by a user on Content that is valuable for another User or Users
Session	A session is any event marked by a finite period with at least a start time whereby some user or proxy undertakes the execution of an activity or a set of activities in the context of a given workitem.
Session_ID	A unique identifier for reference to a particular a session.
Sound Recording	A sound recording refers to the rights in a recording as distinguished from the copyright in a musical work. The copyright in the musical work encompasses the words and music and is owned by the songwriter/ composer and music publisher. The sound recording is the result of recording music, words or other sounds onto a tape, record, CD, etc.
Sound Recording Copyright Symbol ©.	The copyright notice of sound recordings should include the three following elements <ul style="list-style-type: none"> <li>- the sound recording copyright symbol (p)</li> <li>- the year of first publication of the sound recording</li> <li>- the name of the owner of copyright of the sound recording, or an abbreviation by which the name can be recognized</li> </ul>
Stateless Rights Expression	A Rights Expression that does not include any countable/temporal condition such as total played time, date, term, etc. Examples of Stateless Rights Expressions are those with conditions based on region code or expiration at a certain date etc.
Store	The Function by which a piece of Governed Content enters a Device from a Delivery System and remains there for later Use
Stream	The Function of transferring Content to a Device where the transferred Content is processed for Rendering only and not Stored



Streaming	information (usually audio or video) that can be heard or viewed as it is being transmitted. Streaming media is not saved for later listening or viewing; it is experienced immediately and the data is discarded.
Sub-Publisher	A foreign company/entity retained by the original publisher of a work to exploit that work in the foreign company's geographic territory.
Superdistribution	A mechanism that --Allows to distribute Content to recipient Devices through potentially insecure delivery systems and --Enables the recipient Devices to obtain a Rights Expression for the said Content.
Support	A library or software component that provide services to other libraries or tools. It has a some interface that can be an API or a WEB service, but it has no user interface
Synchronization License	Authorization to use music with visual images A synchronization or "synch" right involves the use of the musical works and, if requested, of sound recordings in audio-visual form for example as part of a motion picture, television program, commercial announcement, interactive games etc. Synchronization rights must be authorized by the music publisher (allowing a musical work to be recorded for that synchronization use) and if it implies the use of sound recording by the producer of that sound recording.
Syndicate	The Function of Licensing Works or Content for Publication or Distribution by more than one Publisher or Distributor, typically simultaneously
Syndicator	who manages and provides Content to Retailers using a variety of purchase options
technological measures	The EU Directive 29/01 definition the expression "technological measures" means any technology, device or component that, in the normal course of its operation, is designed to prevent or restrict acts, in respect of works or other subject-matter, which are not authorized by the right holder of any copyright or any right related to copyright as provided for by law Member states should "provide adequate legal protection against the circumvention of any effective technological measures"(art.6)
Technological Measures	Protection is a generic term describing technologies that allow music, publishing and video companies to secure and protect their work such as music, text and video from unauthorized use.
Technology provider	licensing who provides Device Manufacturers and Platform providers with a license to utilize patented technology to make Devices and Platforms
Term of copyright	the amount of time for which a copyright is in effect. Terms of protection of copyright differs from terms of protection of neighboring rights (In Europe a total harmonization of the period of protection for each type of work and each related right in the Member States has been established – e.g. 70 years after the death of the author for works and 50 years after the event setting the time running for neighboring rights)
Tool	Any AXMEDIS software tool installed in a Device.
Track	a musical work, regardless with the length, which has been recorded. Often packaged with other tracks to create a single or an album.
Tracking	See Monitoring
Trick Modes	Any of the following Functions performed on a piece of Content during Play by a User: <ul style="list-style-type: none"> <li>• Fast forward</li> <li>• Slow motion</li> <li>• Freeze frame</li> <li>• Fast reverse</li> <li>• Slow reverse</li> </ul>

Trust	A state of Actors, Devices or Content Data the attainment of which enables the execution of Functions on Governed Content by Actors
Trust Management	The mechanisms by which Trust can be established, preserved and severed
UpLoad	The activity of transferring a Digital Content from a device to another by using the network or another communication channel. The activity is performed in Push.
Use	What can be performed on a Device by a Actor
User	whoever intends to use for business purposes a copyrighted work (owned by others) ; for example In order to perform a copyrighted work publicly, the user must obtain proper license from the copyright owner or his representative (i.e collecting societies)
User	A Generic User of a tools for production, protection, distribution, accounting, etc.....
User Authentication	The procedure to prove the identity of a User to a Device, a Service or a Delivery System
User Interface	The Interface from a software component and the User it can be graphic. In that case can be called GUI
User_Credentials_ID	An identifier that includes at least the user's identity and their current session identity often in the context of single sign on and or session traceability facilitation.
Value-chain	A set of Actors, including Authors, Producers and End-users
Value-Expression	The equating of two groupings of pieces of Content and Services
Verification (only for the AXMEDIS tools)	The activity by means of which AXCS can verify the consistency and trust-ness of an AXMEDIS tool.
Withdraw	The Function of an Author who discontinues any and all Licenses to Use one or more of his Works
Work	Information which retains attributable properties independently of its manifestations in different pieces of Content. A work is an abstraction of the concept of Content. A Work can refer to several versions of the same content different for versions, resolutions, formats, etc.
Workflow (WF)	A workflow consists of process logic and routing rules. The process logic defines the sequence of tasks and the routing rules that must be followed, as well as deadlines plus business rules implemented by the workflow engine.
Workflow Management System (WFMS)	A software application that stores process definitions and runs jobs based on those process definitions via its workflow engine component. The workflow engine is the runtime execution module.
Workflow_Instance	A particular set of coordinated processes set up and encoded to model an activity network required to deliver the objectives of any project or NPD according to the business rules and resources as applicable to that NPD in a given business environment.
Workflow_Instance_ID	A unique identifier for reference to a particular workflow-instance
Workitem	Represents the actual work to be done on an object by a participant for an activity in a process instance.
Workitem_ID (AXWID)	A unique identifier for reference to a particular workitem Object
Workitem_Instance	A reference to a particular version or genre of a workitem amongst several derived from the a single workitem that are undergoing various activities within the same workflow instance
Workitem_Instance_ID	A unique identifier for reference to a particular workitem-instance
Workitem_Object	A version/derivative of an AXMEDIS Object or newly created and currently still being worked-on/modified in the course of an NPD within a process instance or workspace-instance. This is before the resulting new object can exit development and be possibly registerable as a new AXMEDIS Object.
Workspace	This is a normal practice template or an abstract reference to a set of participating entities typically required to be involved in the execution of a

	particular activity per rules and resources available to a particular business/sector/community of practice.
Workspace_Instance	Or equivalently a workitem (as in Openflow) is referred to as a dynamic data structure recording and indexing the set of participants (actors, tools, objects, resources) and their states involved in any given workflow instance/process flow instance/workitem. Typically this is a node in a graph oriented data structure acting as a pointer to such entities and states.
Workspace_Instance_ID	A unique identifier for reference to a particular workspace instance.

## 5.2 Acronyms all together in alphabetic order

- AAC: Audio format
- AIF: Audio Format
- API: Application Program Interface
- AVI: VIDEO format, standard format
- AXAM: AXMEDIS Action Manager, decision tool for the content that arrives from the satellite receiver.
- AXCID: unique AXMEDIS Object Creator ID, can be creators: publishers, producers, authors, integrators, etc. All who can produce a new AXMEDIS object. A Creator is the only one entitled to ask for an Object ID.
- AXClient: any AXMEDIS Client
- AXCP: AXMEDIS Content Processing (composition, adaptation, fingerprint, formatting, protection, publication, etc....)
- AXCP: AXMEDIS Content Processing (Editor, scheduler, engine etc.)
- AXCS: AXMEDIS Certifier and Supervisor
- AXDB: AXMEDIS database
- AXDBIN: AXEPTool AXMEDIS IN Database
- AXDBINM : AXEPTool AXMEDIS IN Database Manager
- AXDBM: AXMEDIS Database Manager
- AXDBMS: AXMEDIS Database Management System
- AXDBOUT: AXEPTool AXMEDIS OUT Database
- AXDBOUTM: AXEPTool AXMEDIS OUT Database Manager
- AXDID: unique AXMEDIS Object Distributor ID
- AXDOM: AXMEDIS Domain (associated with the PMS Home or Factory managing the Domain)
- AXEPTool: AMEDIS P2P tool for content distribution and sharing at level B2B, among companies with AXMEDIS tools for content production, processing or distribution
- AXFW: AXMEDIS Framework
- AXID in AXCS can be an B2BUserID such as AXDID or AXCID or a AXUID, this could be called AXGUID
- AXInfo: visible information into AXMEDIS objects, replicated into the protected part. In the AXInfo is included the identification, the metadata, workflow, history, fingerprint, etc.
- AXLID: unique AXMEDIS License ID
- AXMEDIA Peer: AXMEDIS Client Peer in the P2P network of AXMEDIS Clients on PC, see TISCALI distribution, see distribution toward PC on Internet.
- AXMEDIS BOX: box integrating the hardware and software components of the AXMEDIS B2B Client Application
- AXMEDIS DB: AXDB
- AXMEDIS Factory: a company that has the possibility of creating AXMEDIS objects. An AXMEDIS factory typically has AXMEDIS database, AXCP tools, and a connection via AXEPTool to other AXMEDIS Factories.
- AXMEDIS: the project
- AXOB: AXMEDIS Object, they does not contain the license. An AXOB with a license is presently called Governed AXOB.
- AXOID: unique AXMEDIS Object ID
- AXOIDG: AXMEDIS Object ID Generator
- AXOM: AXMEDIS Object Manager
- AXPTE: AXMEDIS Protection Tool Editor a particular instance of the Compositional and Formatting Tool Editor to write protection rules.
- AXQS: AXMEDIS Query Support

- AXQSUI: Query Support User Interface
- AXRID: AXMEDIS Rule ID
- AXRTID: a specific instance of a AXTID of some type (AXTTID)
- AXTID: AXMEDIS Tool ID, see also AXTTID
- AXTOID: AXMEDIS Temporary Object ID, produced directly from the numbers available for the AXMEDIS Creator. It can be produced as AXCID+AXTID+AXUID+an progressive ID of the Tool
- AXTTID: AXMEDIS Tool Type ID: Different tools are: Editor, Composition Engine, Formatting Engine, Protection Tool Engine, etc.. This is contained into the Profile, several other aspects and details for each tool have to be registered. Some other details depends on the specific instance, this the reason to provide and exploit a Tool Profile.
- AXUID: unique AXMEDIS User ID
- AXWF-DXF: AXMEDIS Workflow Data Exchange Format
- AXWFM: AXMEDIS workflow Manager
- AXWFUI: AXMEDIS Workflow User Interface
- AXWID: Work Identification. For each Work you may have several different versions of AXOB, for example differing for resolution, market, format of the digital resources, etc.
- B2B: Business to Business. the exchange of services, information and/or products from one business to another, as opposed to between a business and a consumer (see B2C).
- B2B2C: Business to Business to Consumer model, the integration of a B2B and B2C models
- B2BUserID: internal AXCS ID for B2B Users
- B2C: Business to Consumer, the exchange of services, information and/or products from a business to a consumer, as opposed to between one business and another (see B2B).
- BIN: binary
- BMP: Image file, standard format
- BPEL4WS: Business Process Execution Language for Web Services is the cooperative merging of WSFL and XLANG for Web services orchestration, workflow, and composition. It has not yet been submitted to an IT standards organisation.
- C2C: Consumer to Consumer, direct commerce and interchange among consumers
- CA: consortium agreement
- CAMART: AXMEDIS Core Accounting Manager and Reporting Tool
- CAS: Conditional Access System
- CMS: Content Management System, system to manager digital content including database and interface to make query and managing objects
- CORAL: Project on DRM
- CPA: Critical Path Activities (workflow area)
- CR: Content Reference Forum project, see its web page
- DAB: Digital Audio Broadcast
- DB2: IBM database product
- DBMS: Database management System
- DIA: digital item adaptation, tools or algorithms for processing digital resources and files, scaling them, sampling them etc.
- DIBO: Digital Item basic op.
- DID: Digital Item Description
- DII: Digital Item .....
- DIM: Digital Item Method
- DIP: Digital Item Processor
- DIXO: Digital Item Extension
- DMI: Digital
- DMM: Digital Media Manifesto of the DMP project
- DMP: Digital Media Project of L. Chiariglione
- DOC: Document format, WORD format

- DRM: Digital Rights Management
- DVB: Digital Video Broadcast
- DVB-IP: Digital Video Broadcast Internet Protocol
- DVB-MPE: Digital Video Broadcast Multiprotocol Encapsulation
- DVBS: Digital Video Broadcast Satellite
- DVBT: Digital Video Broadcast Terrestrial
- ebXML BPSS: The eBusiness Transition Working Group carries forward the definition of workflow conversation and orchestration in the Business Process Specification Schema (BPSS) layer of ebXML, which defines many protocols and layers for XML-based e-business.
- EC: European Commission
- ENTHRONE: IP Project of the European Commission
- EPS: Encapsulated PostScript
- EXEVAM: External Editor Viewer Activation Manager
- FON: files containing fonts for visualisation of symbols and user interface
- GAXOB: Governed AXMEDIS Object
- GIF: Image file, standard format
- GUI: Graphic User Interface
- HTM: Such as HTML
- HTML: Document format, for web pages
- HTTP: a communication protocol at the basis of the WEB page distribution
- ID: Identification code or number
- IDL: Interface Description Languages: a model and formalism to describe the API of a piece of code or library
- IE: Internet Explorer, Microsoft product
- IP: Integrated Project of the EC such as AXMEDIS
- IPMP: Intellectually Property Management Processor
- ISBN: International Standard Book Number
- ISMN: International Standard Music Number
- ISRC: International Standard Recording Code
- IST: Information Technology Society
- Item: Digital Item
- J2K: Image format, JPEG 2000 Format
- JDBC: Java counterpart of Microsoft's ODBC, Java Database Connectivity
- JDF: CIP4's Job Definition Format is an upcoming workflow industry standard for the Graphics Arts industry designed to simplify information exchange among different applications and systems.
- JPEG: image format
- JPG: Image file, standard format
- LO-LOM: format for educational content
- LOM: Learning objects
- MAC OS: Mac Operating Systems
- MID: Midi file
- MIDI: Midi File
- MOZILLA: A browser in open source
- MP3: audio format, MPEG 2 layer 3, Audio file in MP3 format
- MP3: coding of layer 3 of MPEG2 standard
- MPEG: MPEG format for video, Video file, in standard format
- MPG: MPEG format for video
- MPL: Mozilla Public License
- MYSQL: a database product open source
- NPD: New Product Development (workflow area)
- ODBC: Open DataBase Connectivity

- OID: Object ID, general way to indicate the ID of digital objects
- OS: Operating System
- P&P: Programme and Publication tool, AXMEDIS P&P
- P2P: Peer to peer, the communication among final users, so called peers
- P2PID: ID of P2P peer on AXEPTool
- PAR: Potential Available Rights
- PC: Personal Computer
- PCM: Audio Format
- PCM: coding of audio files
- PCX: Image file, standard format
- PDA: file containing fonts for printing music scores
- PDA: Personal Data Assistant, a mobile device
- PDF: Document format, Adobe Acrobat format
- PIC: Image file, standard format
- PID: Program Identifier (DVB-S Protocol)
- PIPs: RosettaNet's Partner Interface Process: defines business processes between trading partners via specialized system-to-system XML-based dialogs. Many PIPs have been defined for various partner scenarios.
- PM: Project manager
- PMS Factory: Protection Manager Server Factory
- PMS Home: Protection Manager Server Home
- PMS of reference: PMS referenced by default by an AXMEDIS Client via its internal PMS Client
- PMS: AXMEDIS Protection Manager Support, it can be Client, Home and Server.
- PNG: image format
- PPT: Power Point Format
- PS: Document format, PostScript Format
- PSP: Paint Shop Pro format for images, and vectorial models
- QSWSI: Query Support Web Service Interface
- RDD: Rights Data Dictionary
- REL: Rights Expression Language
- ROI: Region of Interest
- RTF: Document format, interchange format
- SHTTP: a secure protocol based on HTTP protocol
- SND: Sound file, standard file
- SQL: standard query language
- SSL: a secure communication protocol for transactions, user to support payments on WEB
- TGA: image format, Targa format for images
- TIF: Image file, standard format
- TIFF: image format, Such as the TIF, can be compressed or not
- TTY: True type font sources
- TXT: Document format, textual ASCII format
- VLE: Virtual Learning Environment (SEJER)
- WAV: Audio format, Wave file in PCM, standard format
- WDF: WEDELMUSIC Format
- WFDB: Workflow Database
- WFMS: Any Workflow Management System
- Wf-XML: Wf-XML and Workflow Reference Model from the Workflow Management Coalition (WfMC): Wf-XML is an XML-based encoding of workflow interoperability messages. The Workflow Reference Model is a description of the underlying workflow system architecture. Wf-XML has no binding to SOAP and WSDL at this time.
- WIN: Windows based

- WIPO: World Intellectual Property Organization
- WMF: Windows Media format
- WSCI: Sun/BEA/Intalio/SAP consortium's Web Services Choreography Interface "is an XML-based interface description language that describes the flow of messages exchanged by a Web Service participating in choreographed interactions with other services."
- WSCL: W3C's Web Services Conversation Language: A submission by Hewlett-Packard to the W3C, it allows defining the abstract interfaces of Web services (that is, the business level conversations or public processes supported by a Web service), the XML documents being exchanged, and the sequencing of those documents.
- WSFL: IBM Web Services Flow Language: Specifies two types of Web services composition 1) an executable business process known as a flowModel, and 2) a business collaboration known as a globalModel. Compatible with SOAP, UDDI, and WSDL.
- XLANG: Microsoft's XLANG: Business modeling language for BizTalk, which is a component of .NET that enables EAI. BizTalk Orchestration is the workflow engine and BizTalk Orchestration Designer is the visual business process modelling tool based on XLANG.
- XLS: EXCEL format
- XMI: Quotron symbol for the Major Market Index (MMI)
- XML: eXtensible Markup Language. A subset of SGML constituting a particular text markup language for interchange of structured data. The Unicode Standard is the reference character set for XML content. (See also SGML and fancy text.) XML is a trademark of the World Wide Web Consortium.
- XML: XML format
- XPDL: XML Process Definition Language (XPDL) of the Workflow Management Coalition (WfMC)
- XSL: Extensible Stylesheet Language - XSL is a language for creating a style sheet that describes how data sent over the Web using the Extensible Markup Language (XML) is to be presented to the user. XSL specifies the styling of an XML document by using XSLT to describe how the document is transformed into another XML document that uses the formatting vocabulary.
- XSLT: XSL Transformations, a language for transforming XML documents into other XML documents. XSLT is designed for use as part of XSL, which is a style sheet language for XML. In addition to XSLT, XSL includes an XML vocabulary for specifying formatting. XSLT is a W3C specification but also part 2 of the XSL specification.
- XUL: XML-based User interface Language. Standards based language developed by mozilla.org to create cross-platform user interfaces for Mozilla-based products such as the browser.