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 Preface Purpose & Schema Part I: Main Integration Scenarios AXMEDIS Database (EXITECH) Query Support (EXITECH) Query Support (EXITECH) Certifier and Supervisor (DSI) Accounting and Reporting (EXITECH) Part II: Content Distribution and Supporting Tools AXEPTool (CRS4) Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH) Programme and Publication (UNIVLEEDS) Query On-Demand (FHGIGD) Part III: Distribution examples Distribution to PC (TISCALI, SEJER) Distribution via Kiosks (ILABS) Distribution via Satellite Data Broadcast (EUTELSAT) References, Further information and contact 	 Currently, the digital-content market is growing very fast and it needs solutions of production, protection and distribution massive content collections for accessing new markets and defining/trial new business solutions. Major limitations: Convergence of the media, interoperability of content DRM applications and introduction in several distribution channel Massive processing of content processing and distribution Etc. These are a real challenge for many industries that are discovering the complexity of managing large digital content factories and distribution chains. Content producers, providers, aggregators and distributors constantly need to adopt innovative means.
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) •	Duration: ~3 hours
M •	Who should attend this Tutorial:
M E D	 Everyone interested to know more about AXMEDIS solution and tools – particularly on the DISTRIBUTION aspects
D S	 Business Managers interested in assessing if AXMEDIS may be suitable the specific businesses, to learn the advantages the AXMEDIS Framework,
S	 Technical Managers interested to know more about
	AXMEDIS technology on Content Distribution, Programme and Publication, etc
	 Research Managers interested assessing or adapting AXMEDIS framework for
	testing and developing new solutions, adding new algorithms, functionalities, etc.,
151	Promoting and disseminating new solutions using the framework



•	Preface Purpose & Schema
	Part I: Main Integration Scenarios
	AXMEDIS Database (Fioravanti - EXITECH)
	Query Support (Fioravanti - EXITECH)
	 Certifier and Supervisor (Martini/Chellini - DSI)
	 Accounting and Reporting (Fioravanti - EXITECH)
	Part II: Content Distribution and Supporting Tools
	→ AXEPTool (CRS4)
	Integrating B2B with the AXMEDIS Factory (CRS4, EXITEC)
	Programme and Publication (UNIVLEEDS)
	Query On-Demand (FHGIGD)
•	Part III: Distribution examples
	Distribution to PC (TISCALI, SEJER)
	Distribution via Kiosks (ILABS)
	Distribution via Satellite Data Broadcast (EUTELSAT)
-	References, Further information and contact

A	AXDB facts
XM	 AXDB manages data that are strategically important for your business
E D	 General and standard metadata set (as Dublin Core) are addressed
1 S	 You choose the metadata that are relevant for your business that are automatically indexed for each object you store
	 Allows the management of multilingual translation for each metadata you use simplifying and improving object irretrievability

AXDB Architecture 20m AXMEDI Database Web Administrative Interface WebServices Tools via Java calls DataBase Interface Public S available layers **Object Oriented Abstraction Layer** Database Abstraction Layer Internal private layers AXDB 5 Relational







Qı	uery Support Facts
	 Management of very complex technical query on:
	 Metadata (author, creators, titles, bit-rate, etc)
	 Rights (Can I use it in Italy?, Can I burn on DVD?, etc)
	Support for different data sources:
	 Query on AXMEDIS Factory Database
	 Query on your Content Management System
	 Query on a P2P network at B2B level
	 Query on another Query Support (i.e. for Kiosk)
•	Unified language for querying independent by the platform
	 Unified language for results





	sult of the Query
AXMED IS	 Objects: Object IDs How to recover objects (from P2P network, and so on) Possibility to gather information related to rights: What Can I do with the object Where can I use the object Who can distribute the object
1. 22. 27.	 Who can distribute the object Metadata related to the objects in order to perform a better selection Length Creators Bit rate
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A	Ove	erview of this Tutorial
x	•	Preface
24		 Purpose & Schema
X M E	٠	Part I: Main Integration Scenarios
E		AXMEDIS Database (Fioravanti - EXITECH)
D		Query Support (Fioravanti - EXITECH)
ĩ		Certifier and Supervisor (Martini/Chellini - DSI)
-		Accounting and Reporting (Fioravanti - EXITECH)
S	٠	Part II: Content Distribution and Supporting Tools
		AXEPTool (CRS4)
		Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH)
		Programme and Publication (UNIVLEEDS)
		Query On-Demand (FHGIGD)
	٠	Part III: Distribution examples
		Distribution to PC (TISCALI, SEJER)
101		Distribution via Kiosks (ILABS)
		Distribution via Satellite Data Broadcast (EUTELSAT)
Ð	•	References, Further information and contact







	Dve	erview of this Tutorial
x	•	Preface Purpose & Schema
MEDI	•	Part I: Main Integration Scenarios AXMEDIS Database (Fioravanti - EXITECH) Query Support (Fioravanti - EXITECH) Certifier and Supervisor (Martini/Chellini - DSI)
S	•	 Accounting and Reporting (Fioravanti - EXITECH) Part II: Content Distribution and Supporting Tools AXEPTool (CRS4) Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH) Programme and Publication (UNIVLEEDS) Query On-Demand (FHGIGD)
	•	Part III: Distribution examples ⇒ Distribution to PC (TISCALI, SEJER) ⇒ Distribution via Kiosks (ILABS) ⇒ Distribution via Satellite Data Broadcast (EUTELSAT)
an a	•	References, Further information and contact

4	Acco	ounting and Reporting Facts
x	•	ANONYMOUS LOGS
M		 Extract logs for statistical/marketing purposes (all the log are in anonymous format, that is ID are not present) for:
E D		Creating statistics of usage per country/metadata: how many times this song has been played in Italy?
I S		Create publication programs or catalog focused on certain statistics
	•	NAMED LOGS
		 Extract log for administrative purposes (only the log that are related to objects for which some right is owned) for:
		Billing customer: how many time user XYZ has played this song?
		Distributing/collecting money for rights: how many times this song has been played in Italy and who has to pay?
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 Accounting and Reporting (EXITECH) Part II: Content Distribution and Support (CRS4) Integrating B2B with the AXMEDIS Factory (Programme and Publication (UNIVLEEDS) Query On-Demand (FHGIGD) 	orting Tools	<u>,</u>
 Part III: Distribution examples Distribution to PC (TISCALI, SEJER) Distribution via Kiosks (ILABS) 	B2B /	
 Distribution via Satellite Data Broadcast (EU References, Further information and c 		ra
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	nat is the AXEPTool?
N M E D	The AXEPTool is a core library and a <i>daemon</i> that can be used to accept connections, share, search and load content over a network using P2P protocols.
E	 Discover other participant using a Web cache
D	 Accept incoming connections from other peers to form a network topology
-	 Publish objects
5	 Propagate AXMEDIS queries in the network and collect AXMEDIS query results
	 Download objects with resume/suspend mechanism
	 Produce a RSS (Rich Site Summary (RSS 0.91); RDF Site Summary (RSS 0.9 and 1.0); Really Simple Syndication (RSS 2.0)) feed for each object published
101	As a XML approach to notify/advertise new objects
<u>899</u>	AXEPTool uses AXMEDIS protection model to distribute/share AXMEDIS objects in a safe manner
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100







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<i>x</i> •	Preface ◆ Purpose & Schema
M • D • I \$ •	Part I: Main Integration Scenarios → AXMEDIS Database (EXITECH) → Query Support (EXITECH) → Certifier and Supervisor (DSI) → Accounting and Reporting (EXITECH) Part II: Content Distribution and Supporting Tools → AXEPTool (CRS4) → Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH)
• • • •	 Programme and Publication (UNIVLEEDS) Query On-Demand (FHGIGD) Part III: Distribution examples Distribution to PC (TISCALI, SEJER) Distribution via Kiosks (ILABS) Distribution via Satellite Data Broadcast (EUTELSAT) References, Further information and contact

•	 Aim: Operations and applications of the P&P area ⇒ AXMEDIS P&P programmes: create, edit, test, activat ⇒ multi-channel distributions
•	 Overview: P&P Area within the AXMEDIS architecture Tools and functionalities P&P Editor Create and edit a P&P programme
	 "Test", "Activate" or "Stop" a P&P programme AXMEDIS P&P Engine "On-Demand" requests











	Que	ry On Demand - Motivation
AXMED	•	User wants to get specific content according to his wishes, e.g. based on Artist Title Year of publication
l S	•	User needs simple search mechanism
	•	User wants to select and download content that fits to her/his needs
	•	Content should be adapted on demand to fit with the user's device (client profile)
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	Que	ry On Demand – Procedure
A X	•	User can enter a query using a simple Web interface
XMEDI	•	Simple queries are enriched using information about the client device and the distribution channel
1	•	A list of matching content is presented to the user
S	•	User can select a specific content or refine the query
	•	Content is produced on demand based on client and distribution profile (if not yet available)
	•	Content is downloaded and played on the client device
se F		
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	Demo: AXMEDIS Distribution Tutorial, Part 2	medis
x	 Programme and Publication (P&P) 	
M	 P&P Editor 	
E	Create and edit a P&P programme	
E D	 P&P Engine 	
l S	test and activate a P&P Programme	
S	GUI Monitor	
	 On Demand 	
	Web interface	
	Make a query	
	Select a specific result	
NOT	·	
Ð		

4	Che	ck point: P&P Area
x	•	P&P Editor
M		 Create and edit a P&P Programme
E D		 Test a programme (Quick or Full) trial and understand the difference
1 S	•	Activate or terminate a selected P&P programme to deliver objects
	•	Understand the processes behind the scene
	•	On Demand
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6	Dve	erview of this Tutorial
XMEDIS	•	Preface • Purpose & Schema Part I: Main Integration Scenarios • AXMEDIS Database (EXITECH) • Query Support (EXITECH) • Certifier and Supervisor (DSI) • Accounting and Reporting (EXITECH) Part II: Content Distribution and Supporting Tools • AXEPTool (CRS4) • Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH) • Programme and Publication (UNIVLEEDS) • Query On-Demand (FHGIGD)
	•	Part III: Distribution examples Distribution to PC (TISCALI, SEJER) Distribution via Kiosks (ILABS) Distribution via Satellite Data Broadcast (EUTELSAT) References, Further information and contact
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	Con	tent Distribution via Internet
XM	•	MediaClub Manager interacts with AXMEDIS world in several ways.
ED		 AXEPTool: Configures and executes the queries to search and to download new AXMEDIS Object
I S		 MediaClub App: Chooses the AXMEDIS Objects to import in MediaClub System and extract the related metadata;
		 Xaura2 (feed import engine): upload AXMEDIS Objects and metadata in the distributor CMS;
<u>101</u>		 CAMART: Makes the reporting and statistical queries on CAMART system and extracts the information related to the usage of AXMEDIS Objects.
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A	Ove	erview of this Tutorial
	•	Preface
		 Purpose & Schema
XMEDIS	•	Part I: Main Integration Scenarios
E		AXMEDIS Database (EXITECH)
		Query Support (EXITECH)
2		Certifier and Supervisor (DSI)
		Accounting and Reporting (EXITECH)
S	٠	Part II: Content Distribution and Supporting Tools
		AXEPTool (CRS4)
		Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH)
		Programme and Publication (UNIVLEEDS)
		Query On-Demand (FHGIGD)
	٠	Part III: Distribution examples
		Distribution to PC (TISCALI, SEJER)
103		Distribution via Kiosks (ILABS)
		Distribution via Satellite Data Broadcast (EUTELSAT)
F	٠	References, Further information and contact
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-	Aim:
1	 Introduce the Satellite Data Broadcast (SDB) Demonstrator
	In relation to AXMEDIS framework
	As a distribution channel
•	Overview:
	 The SDB within AXMEDIS Architecture
	 SDB overall use-case
	 Content production and distribution in the SDB system
1	
	Server side







Satellite Data Distribution Scenarios	Minede
 Scenario1: Sending Content through SDB Content uploaded and packaged according to the transmission channel rules Content scheduled as a program, then activated/paused/stopped Scenario2: Receiving Content via SDB User selects content presented in the program guide Content is automatically pushed to receiving station 	
 Scenario3: Filtering Content and Cache Strategies The content carousel is optimised according to content filtering on the client side and cache management Personalised content composition 	







		SatKlosk	_	_	_	_
Custe Di John	My Films					
AMEDIS	Name	# Start Time	Duration	824	Speed	Tarp
e- Broadsat	🕼 axtest 1	1247	96	153 KB	16 KB/s	
Extenset	1 radio	12:07	20s	332 KB	16 HB/s	- 99
OPENSKY MICROSOFT	GP werds GP dag	12:08	1m 24s	1.47 MB	16 kBis	- 11
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	Demo: AXMEDIS Distribution Tutorial, Part 3
EXEEDIS	 MediaClub MediaClub within AXMEDIS Architecture Tools and functionalities Search and retrieve content from the P2P network Publish content in the catalogue End User content license acquisition process
	 Kiosk The Kiosk within AXMEDIS Architecture Catalogue production at the kiosk factory Content distribution and access to kiosk Content selection, acquisition and fruition Kiosk administration

4	Ove	erview of this Tutorial
x	•	Preface
M		 Purpose & Schema
M E D	٠	Part I: Main Integration Scenarios
E		AXMEDIS Database (EXITECH)
D		Query Support (EXITECH)
1		Certifier and Supervisor (DSI)
-		Accounting and Reporting (EXITECH)
S	•	Part II: Content Distribution and Supporting Tools
		Integrating B2B with the AXMEDIS Factory (CRS4, EXITECH)
		 → Programme and Publication (UNIVLEEDS) → Query On-Demand (FHGIGD)
		Part III: Distribution examples
	•	Distribution examples Distribution to PC (TISCALI, SEJER)
101		 Distribution to PC (TISCALI, SEJER) Distribution via Kiosks (ILABS)
লিচাম		 Distribution via Nosks (IEABO) Distribution via Satellite Data Broadcast (EUTELSAT)
		References, Further information and Contact
Æ		References, Further information and contact

A Pu	blicly Accessible General AXMEDIS Documents
X M E	 DE2.1.1 (two parts, A and B) User Requirements and use cases A) User Requirements
	 B) Use Cases DE2.2.1 Test Cases and Content Description
S	Reports on Content
	DE3.1.3 AXMEDIS Content Aspects Specification
	DE8.1.1 Content for Test Cases and Validation
	DE8.2.1 Content Selection Guidelines
	DE8.3.1 Multilingual guidelines and technical solutions
	 DE8.4.1 AXMEDIS Editorial Format Guidelines and Basic Examples



Publicly Accessible AXMEDIS Framework Documents	A References
 Early Reports on Basic Technologies DE4.1.1 - Content Modelling and managing DE4.2.1 - Content indexing, monitoring and querying DE4.3.1 - Content Composition and formatting DE4.4.1 - Content Sharing and production on P2P DE4.5.1 - Content Protection and Supervision DE4.6.1 - Content Distribution via Internet DE4.7.1 - Content Distribution toward mobiles DE4.8.1 - Content Distribution via satellite data broadcast, the push optimisation and the on demand problem DE4.9.1 - The Usability issues for the AXMEDIS production tools 	 AXMEDIS: <u>www.axmedis.org</u> CRF: Content Reference Forum: <u>http://www.crforum</u> DMP: Digital Media Project, <u>www.chlariglione.org</u> EITO 2005: European Information Technology Observation 2005: <u>http://www.chlariglione.org</u> ODRL: <u>http://odrl.net/</u> OMA: <u>www.openmobilealliance.org</u> MI3P, Music Industry Integrated Identifier Project, <u>http://www.mi3p-standard.org/</u> MPEG, MPEG-21: <u>www.chlariglione.org</u> MUSICNETWORK: <u>www.interactivemusicnetwork.org</u> WEDELMUSIC: <u>www.wedelmusic.org</u> Microsoft Windows Media: <u>http://www.microsoft.com/windows/windowsmedia</u> <u>ult.aspx</u>



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A	Co	ntact Information
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