



Automating Production of Cross Media Content for Multi-channel Distribution

www.AXMEDIS.org

DE9.1.3 First Prototype for CMS Integration and Feedback

Version: 1.2 Date: 30/08/2006 18:04:00 Responsible: EXITECH (ff@exitech.it) (revised and accepted by coordinator) Project Number: IST-2-511299 Project Title: AXMEDIS Deliverable Type: Public (only for this document, not the prototype code) Visible to User Groups: Yes Visible to Affiliated: Yes Visible to Public: Yes

Deliverable Number: DE9.1.3 Contractual Date of Delivery: see annex I Actual Date of Delivery: 30/08/2006 Title of Deliverable: First Prototype for CMS Integration and Feedback Work-Package contributing to the Deliverable: WP 9.1.1, WP 9.1.2 Task contributing to the Deliverable: all of WP9 Nature of the Deliverable: Prototype Author(s): EXITECH

Abstract:

This deliverable is related to the mock up of WP9.2 that has been improved in this period by producing a first real prototype integrated with CAMART, AXDB and therefore also with AXCS.

Keyword List:

Administrative data, AXCS, AXDB, CAMART

Table of Contents

1	EXEC	CUTIVE SUMMARY AND REPORT SCOPE	
2	INTR	ODUCTION	
3	PROT	FOTYPE DESCRIPTION	
	3.1	CAMART FOR STATISTICS	
	3.1.1	Introduction	
	3.1.2	The prototype	7
	3.2	CAMART AND ADMINISTRATIVE INFORMATION INTEGRATOR	
	3.2.1	Introduction	
	3.2.2	The prototype	
4	BIBL	IOGRAPHY	

1 Executive Summary and Report Scope

This deliverable is the accompanying document for the Prototype having the name common to the deliverable.

2 Introduction

WP9.2 has been improved in this period by producing a first real prototype integrated with CAMART, Statistic engine for CAMART and Administrative Information Integrator. This integration processes involved also AXDB and AXCS.

This prototype is able to perform the following tasks:

- Getting logs coming from AXCS web service
- Organizing such logs in the internal database of the factory
- Generating internal XML format in polling mode (this has been done in order to demonstrate the new internal format
- Generating the XML format provided by one of the partners (ILABS in that case), and publishing at a predefined time frequency the resulting XML in an ftp directory
- Generating also in polling mode an XML format that is transformed according to the profiled XSLT.
- Generating top-bottom ten on demand for statistics.
- Authentication
- Development of a web service for gathering statistics instead of the GUI only
- The work to be performed yet is not functional but mainly related to refinement, usability and user interface. The work can be summarized in the following points:
 - Generate a user interface for creating user profiles (assign ftp, assign XSLT, etc to each factory user, getting users from the factory)
 - Produce the AII user interface meliorated in terms of usability and uniformity with respect to the other user interface present in the system (this should be discussed in order to have a common user interface in terms of graphics and CSS for all the web application in the AXMEDIS system)

3 **Prototype Description**

The first prototype of the DE 9.1.2 has been produced and presented. In this document a short presentation of the provided system will be given in order to evidence the work done.

3.1 CAMART for Statistics

3.1.1 Introduction

The role of Core Accounting manager and Reporting Tool (CAMART) for Statistics is strictly bound with database for logs (provided by AXCS) since it has to collect information from AXMEDIS Certifier and Supervisor about Action Log and store them into the AXMEDIS database, homogenizing fragmented information the different tools sent to the AXCS. This is very important as the AXCS or the SuperAXCS will not store forever data related to each user, but will use policies to remove detailed data, after a certain amount of time or after some triggered operations that have to be defined. **Only data for statistical purposes will be kept**.

The statistics are also accessible also by a Web Service Interface whose WSDL is reported below:

```
<?xml version="1.0" encoding="UTF-8"?><definitions xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soapenc="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:xs="http://new.webservice.namespace"
xmlns:cam="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:y="http://new.webservice.namespace"</pre>
```

<types> <xs:schema targetNamespace="http://www.exitech.it/CamartStats.xsd" elementFormDefault="qualified" attributeFormDefault="unqualified"> <!-- version 1.3 (25-Jul-2006) JWSDP compatible --> <xs:element name="CamartRecord"> <xs:annotation> <xs:documentation>Root element for a Camart record</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="AXCSID" type="xs:string"> <xs:annotation> <xs:documentation>log ID</xs:documentation> </xs:annotation> </xs:element> <xs:element name="executionTimestamp"</pre> type="xs:dateTime"> <xs:annotation> <xs:documentation>timestamp of the execution of the Transaction</xs:documentation> </xs:annotation> </xs:element> <xs:element name="registrationTimestamp" type="xs:dateTime"> <xs:annotation> <xs:documentation>Timestamp of the registration of the Transaction in AXCS</xs:documentation> </xs:annotation> </xs:element> <xs:element name="AXOID"> <xs:annotation> <xs:documentation>TD of the object inside the axmedis system</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="40"/> <xs:whiteSpace value="collapse"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="AXDID"> <xs:annotation> <xs:documentation>Unique AXMEDIS Object Distributor ID that has performed the transaction</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="40"/> <xs:whiteSpace value="collapse"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="AXCID" type="xs:string"> <xs:annotation> <xs:documentation>Creator Id</xs:documentation> </xs:annotation> </xs:element> <xs:element name="operation" type="xs:string"> <xs:annotation> <xs:documentation>Use of the content (reading, printing, aggregating, editing).</xs:documentation>

AXMEDIS project

</ws:annotation> </xs:element> <xs:element name="location"</pre> type="xs:string"> <xs:annotation> <xs:documentation>Geographical area in which the object is used.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ISRC" type="xs:string"</pre> minOccurs="0"> <xs:annotation> <xs:documentation>Factory Infromation: Unique standard ID for identifying the piece</xs:documentation> </xs:annotation> </xs:element> <xs:element name="objectCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Factory Information: this field fill be filled with the content of the field "type" of the "DCMI" table if present </xs:documentation> </ws:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> <xs:element name="CamartReport"> <xs:annotation> <xs:documentation>Root element of internal Camart report</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="cam:CamartRecord"</pre> minOccurs="0" maxOccurs="unbounded"/> <xs:element name="Statistics" minOccurs="0"</pre> maxOccurs="unbounded"> <xs:complexType> <xs:sequence> <xs:element name="StatsItem" maxOccurs="unbounded"> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="count" type="xs:int" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element> </xs:sequence> <xs:attributeGroup ref="cam:StatsAttribGroup"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> <xs:element name="CamartReguest"> <xs:annotation> <xs:documentation>Root element of the request used in WS</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="authorization">

```
<xs:complexType>
                                                                                 <xs:attribute
name="user" type="xs:string" use="required"/>
                                                                                 <xs:attribute name="pw"
type="xs:string" use="required"/>
                                                                       </xs:complexType>
                                                             </xs:element>
                                                             <xs:element name="date"
type="xs:dateTime"/>
                                                             <xs:element name="AXOID" type="xs:string"</pre>
minOccurs="0"/>
                                                             <xs:element name="AXCID" type="xs:string"</pre>
minOccurs="0"/>
                                                             <xs:element name="AXDID" type="xs:string"
minOccurs="0"/>
                                                             <xs:element name="AXDOM" type="xs:string"
minOccurs="0"/>
                                                             <xs:element name="AXWID" type="xs:string"
minOccurs="0"/>
                                                             <xs:element name="Chart" minOccurs="0"</pre>
maxOccurs="unbounded">
                                                                       <xs:complexType>
                                                                                 <xs:attributeGroup
ref="cam:StatsAttribGroup"/>
                                                                       </xs:complexType>
                                                             </xs:element>
                                                  </xs:sequence>
                                        </xs:complexType>
                              </rs:element>
                              <xs:attributeGroup name="StatsAttribGroup">
                                        <xs:attribute name="type" use="required">
                                                   <xs:simpleType>
                                                             <xs:restriction base="xs:string">
                                                                       <xs:enumeration
value="TopChart"/>
                                                                       <xs:enumeration
value="BottomChart"/>
                                                             </xs:restriction>
                                                   </xs:simpleType>
                                         </xs:attribute>
                                        <xs:attribute name="cardinality" type="xs:int"/>
<xs:attribute name="restrict-by" use="required">
                                                   <xs:simpleType>
                                                             <xs:restriction base="xs:string">
                                                                       <xs:enumeration value="AXOID"/>
                                                                       <xs:enumeration value="AXCID"/>
                                                                       <xs:enumeration value="AXDID"/>
                                                                       <xs:enumeration
value="location"/>
                                                                       <xs:enumeration</pre>
value="operation"/>
                                                             </xs:restriction>
                                                   </xs:simpleType>
                                        </xs:attribute>
                              </xs:attributeGroup>
                    </xs:schema>
          </types>
          <message name="CamartRequestMessage">
                    <part name="parameters" element="cam:CamartRequest"/>
          </message>
          <message name="CamartReportMessage">
                    <part name="parameters" element="cam:CamartReport"/>
          </message>
          <portType name="CamartStatsWS">
                    <operation name="getStats">
                              <input message="y:CamartRequestMessage"/>
                              <output message="y:CamartReportMessage"/>
                    </operation>
          </portType>
          <br/>sinding name="CamartStatsBinding" type="y:CamartStatsWS">
                    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
                    <operation name="getStats">
                              <input>
                                         <soap:body use="literal"/>
```

<output></output>
<soap:body use="literal"></soap:body>
<service name="CamartStats"></service>
<pre><port binding="y:CamartStatsBinding" name="CamartStatsPort"></port></pre>
<pre><soap:address <="" location="http://localhost:8080/CamartStats/ws" pre=""></soap:address></pre>
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"/>

3.1.2 The prototype

The system is divided mainly in two parts, that are the CAMART for statistical analysis, that in its first prototype is quite raw in the statistics provided and in the operators that can be applied. The User interface is reported in the following. The first screen is a login screen:



After the login

🕲 Camart Statistic Service - Mozilla Firefox			
<u> Eile M</u> odifica <u>V</u> isualizza V <u>a</u> i S <u>e</u> gnalibri <u>S</u> trumenti <u>?</u>			0
🔷 🗸 🛶 - 🥩 💿 🚷 💌 http://localhost:8080/C	amartStats/filter.jsp		Vai 💽
🌮 Come iniziare 🔂 Ultime notizie 🌮 Mozilla Italia 🌮 Forum di	aiuto 📋 Tomcat Server Admi 🗋 Your Go	ogle 1.1 - 10	
🖉 RoboForm 🝷 Cerca 🔍 🏑 Logins 👻 🍰	ocalhost-tomcat (+4) 🛛 🏼 🖓 Fabrizio Fior 🧯	🛿 ffioravanti 🛛 🍰 Salva Genera 🏑	
AXMEDIS Camart Statisti	c Service		
		Get Logs	
	Start date:	2006-05-12 03:04:45	
		Filters	
	AXOID:		
	AXCID:		
	AXDID:		
	AXDOM:		
	AXWID:		
	Chart 🗖	Top 3 AXOID 3	add another chart
	(c) Exitech 2005 Camart		
Completato			.;

Where it can be evidenced that after providing a user name and password and a search criteria in the Date Field, the system will ask for the records contained in the AXCS and after getting such information the record are filtered according to some criteria based on "equal" operator applied to the fields AXOID, AXCID, AXDID, AXDOM, AXWID.

Moreover it is possible to add charts that are summary of the statistics in the form of Top and Bottom ten that can be provided for AXOID, AXCID, AXDID, location and operation.

By adding two charts we obtain:

🕲 Camart Statistic Service	- Mozilla Firefox				
<u>Eile M</u> odifica <u>V</u> isualizza V <u>a</u> i	S <u>e</u> gnalibri <u>S</u> trumenti <u>?</u>				
💠 • 🍦 - 🛃 😢 🗧	1 Ittp://localhost:8080/CamartStats/filter.jsp#				💌 📀 Vai 💽
🐢 Come iniziare 🔂 Ultime notizi	ie 🌮 Mozilla Italia 🌮 Forum di aiuto 📋 Tomcat Serv	ver Admi 🗋 Your	Google 1.1 - 10		
📟 RoboForm 👻 Cerca	🔽 🍰 Logins 👻 🍰 Localhost-tomcat (+4)	Fabrizio Fior	🍪 ffioravanti	👙 Salva 🛛 🍯 Gener	a 🖉
Camart Statistic Service	Axmedis - Activity	🗔 Goog	gle Calendar		
AXMEDIS	Camart Statistic Service				
					Get Logs
				Start date:	2006-05-12 03:04:45
					Filters
				AXOID:	
				AXCID:	
				AXDID:	
				AXDOM:	
				AXWID:	
				Chart 🗹	Top Image: Submit Image: Accord and another chart Bottom 5 V location V Submit Reset
) Exitech 200 Camart		
Completato					

If a request without filtering is issued a web page like the following is obtained:

🕹 Camart Statistic Service - Mozilla Firefox						
Ele Modifica Visualizza Vaj Segnalibri Strumenti 2						
🖕 • 🧼 - 🥰 😢 🏠 http://locahost:8080/CamartStats/Statistics.jsp 🔽 💟 Vai 💽						
🏶 Come iniziare 🔂 Ultime notizie 🏶 Mozilla Italia 🏶 Forum di aiuto 🛛	🗋 Tomcat Server Admi 🗋 Your Google 1.1 - 10					
📟 RoboForm 👻 Cerca 🛛 👻 🏑 Logins 👻 🎎 Localhost	-tomcat (+4) 🛛 🕹 Fabrizio Fior 🕹 ffioravanti 🛛 🍰 Salva 💋 G	enera 🔬				
Camart Statistic Service	Google Calendar			×		
AXMEDIS Camart Statistic So	ervice - Requested Logs			<))		
Hello test						
Result U Number of collected Logs 100						
Collapse/expand logs table						
Log Id	AXOID	Version	AXCID			
CSO_560ead4e-b2d8-339b-af26-940c49e27c3c	OBJ_fd7914a4-4476-3764-a70c-5adb0744cf23	1.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_		
CSO_a22bcc04-ec8c-3115-bb70-ba488a5d3dc3	OBJ_887215ee-98f6-3eaf-972b-8f2d8a0613a1	7.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_		
CSO_1efac220-5bac-3170-8d98-ed6d9e73b34a	OBJ_9ecc229e-a301-3e6a-a248-0bf23a7f9573	4.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_!		
CSO_eb9a2151-faab-3eeb-98f4-beb1153b6019	OBJ_14ac2d94-ae7c-3036-8e4a-b36d28e7eddb	4.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_!		
CSO_0bd70949-71c2-3e77-9cff-4095a2669d8e	OBJ_34c17c3f-e1eb-3b35-8c0c-70614dcd54ae	6.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_'		
CSO_87b076f0-05fb-3905-ba58-80a0e5ebc847	OBJ_74661a65-7bdc-3121-857a-d94df284356f	1.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_:		
CSO_f60f129c-5a84-3801-a501-b491a5b963c8	OBJ_b27a7f61-95cd-3042-b9b4-3574ec31df17	5.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_'		
CSO_b6cb2ca5-dd50-37df-a55d-f919a9ac4ff4	OBJ_4a1ce19f-2370-3edc-a9f0-f28db7cb4d35	4.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_1		
CSO_85a7894c-7a54-3789-b3f5-f44a307e5668	OBJ_f162ff44-d840-3821-8163-b1c3e9b0deae	4.0	BUS_d0719d28-e695-4db7-841c-f078ae7fdfb6 DIS	_;		
		• •		>		

Camart Statistic Service - Mozilla Firefox					
Ele Modifica Visualizza Vaj Segnalibri Strumenti ?					ं
🖕 • 🧼 - 🥰 💿 🕋 ៧ http://localhost:8080/CamartStats/Statist	ics.jsp			🗸 🔘 Va	i G.
🕐 Come iniziare 🔊 Ultime notizie 🗭 Mozilla Italia 🌑 Enrum di aiuto 🗋 Tomcat	Server Admi D Your Google 1, 1 - 1	1			
Control in the local of t	-4) 🔐 Fabrizio Fior 🆓 ffioravan	i 🏼 🔬 Salva 🏼 🎜 Genera 📝	a a a a a a a a a a a a a a a a a a a		
Camart Statistic Service	Google Calendar				×
AXMEDIS Camart Statistic Service	e - Requested Logs				
Hello test					
Result 0					
Number of collected Logs 100					
Collapse/expand logs table					
Log AXOID Version AXCID AXDID AXDOM AXWID	Execution Owner	Location Operation	Operation Details	Protection	Registration
la	Hmestamp Name	la	Id	Stamp	Timestamp
Top V 3 AXOID chart					
Pos AXOID	Count				
1 OBJ_exitechtest-1c56-3e2b-a023-d88271051	4				
2 OBJ_exitechtest-4b24-3fe8-a839-a44538b30	2				
3 UBJ_55ba81b7-db8t-32ft-a999-4ec8bd4fb66b	1				
Bottom 🔽 5 LOCATION chart					
Pos LOCATION	Count				
1 Area1_NorthAmerica	2				
2 Area2_Europe	3				
3 No other LOC & TION present	95				
	(c) Exitech 2005	2006			
Ca	man Statistics Web Applicat	on and web Service			~
Completato					

And by collapsing the results we obtain:

The charts can be provided in the form of the opposite of the request in terms of bottom and top:

ie godifica ýsvaliza Vaj Segnalibri grumenti 2
I I I I I I I I I I I I I I I I I I I
Come Initiare & Utime notice P Moulla Itals P Forum di aiuto 1 Tomcet Server Admi 1 Your Google 1.1 - 10 Robertom • Cerca V & Logins • & Locahost-tomcet (+4) & Fabriab Fior 9 frioravanti & Salva G Genera Camart Statistic Service Axmedis - Activity III Google Calendar AXMEDIS Camart Statistic Service - Requested Logs Hello test
Roboforn - Cerca Subject - Subject Annote (+4)
Camart Statistic Service Camart Statistic Service - Requested Logs Hello test
AXMEDIS Camart Statistic Service - Requested Logs Hello test
Hello test
Hello test
Result 0
Number of collected Logs 100
Collapse/expand logs table
Log AXOID Version AXCID AXDID AXDOM AXWID Timestamn Name Location I do Stamp Trotection Registration Transetamn
Bottom 🤜 3 AXOID chart
Pos AXUID Court 1 OP 1 6366-574 365 3773 847 500451131apt 1
OBJ_050845745082574550857450857450857121884 OBJ_050845745087458640318721884 I OBJ_05084575709173858541840318721884 I
3 OBJ_bde5dd63-dc6a-36af-989d-b142afec4ded 1
-
Top v 5 LOCATION chart
Pos LOCATION Count
95
2 Area2_Europe 3
3 Area1_NorthAmerica 2
No other LOCATION present
(c) Exitech 2005-2006
Carnart Statistics Web Application and Web Service
the line allow the second se

The filtering is now provided AXCS server side in order to minimize the load on the network, and the results can be filtered as in the example below, where a filter on both AXOID and AXCID are provided.

Comart Statistic Service - Mozilla Firefox		
(in gound goudace vg Signal gound i	~	O Vai C.
n Come iniziare 🔂 Ultime notizie 🌮 Mozilla Italia 🌮 Forum di aiuto 📋 Tomcat Server Admi	Your Google 1.1 - 10	
🔄 RoboForm 👻 Cerca 🔍 🏑 Logins 👻 Localhost-tomcat (+4) 🛛 🕹 Fab	io Fior 🕹 ffioravanti 🏼 🍰 Salva 🍯 Genera 🏑	
Axmedis - Activity	i Google Calendar	₩
AXMEDIS Camart Statistic Service		
	Get Logs	
	Start date: 2006-05-12 03:04:45	
	AXOID: OBJ_exitechtest-1c56-3e2b-a023-d88221	051
	AXCID: BUS_d0719d28-e695-4db7-841c-f078ae	7fdft:
	AXDID:	
	AXUUM:	_
	Chart 🗹 Top 🔍 3 🔍 AXOID 💌 add	another chart
	Submit Reset	
	(c) Exitech 2005	
Completato		
The results obtained are:		
Camart Statistic Service - Mozilla Firefox File Modifica Visualizza Vaj Segnalbri Strumenti 2		
Camart Statistic Service - Mozilla Firefox Ele Modifica Visualizza Vaj Segnalibri Strumenti ∑ → - 20 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)		2 Vai (C,
Camart Statistic Service - Mozilla Firefox Ele Modifica Vjsualizza Vaj Segnalibri gtrumenti Z Image: The Statistics of the Statistics	Your Google 1.1 - 10	🔹 🗘 Vai 💽
Camart Statistic Service - Mozilla Firefox File Modifica Yeukaza Yai Segnalibri Strumenti Z Image: Second S	Your Google 1.1 - 10 Izio Fior	
Image: Service - Mozilla Firefox File Modifica Yesualtza Yesualtza Yesualtza <	Your Google 1.1 - 10 Izlo Flor Google Calendar Google Calendar	
Camart Statistic Service - Mozilla Firefox Ele Modifica Visualizza Vaj Segnalibri Strumenti 2 · · · · · · · · · · · · · · · ·	Your Google 1.1 - 10 Store Source Sour	- C (
Camart Statistic Service - Mozilla Firefox File Modifica Vysualiza Va Segnalbri Strumenti 2 Image: Segnalbri 2	Your Google 1.1 - 10 Ør Fforavanti Salva	
Camart Statistic Service - Mozilla Firefox Ele todifica Visualiza Vai Segnalibri Strumenti 2 Come inclare Ultime noticie Mozilla Italia Forun di auto Tomcat Server Admi RoboForm Cerca Camart Statistic Service AXMEDIS Camart Statistic Service - Requ Hello test	Your Google 1.1 - 10 Your Google 1.1 - 10 Google Calendar Insteed Logs	
Camart Statistic Service - Mozilla Firefox File (Indifica Visualiza Va) Segnalbri Strumenti 2 Come iniziare Ultime notizie P Mozilla Rala Forum di aluto Tomcat Server Admi RoboForm - Cerca Camart Statistic Service Aximeto S Camart Statistic Service - Request Hello test Result 0	I Your Google 1.1 + 10 Bio Fior	Voi C.
Camart Statistic Service - Mozilla Firefox Ele Modifica Visualiza Val Segnalibri Strumenti 2 Collander Content Statistic Service Result Number of collected Logs 4 Collander Logs 4 Colla	I Your Google 1.1 - 10 Bio Fior	
Camart Statistic Service - Mozilla Firefox Fie (todifica Visualiza Va) Segnalitri Strumenti 2 Come inclare Ultime noticie Mozilla Itala Forun d auto Tomcat Server Admi Come inclare Ultime noticie Mozilla Itala Forun d auto Tomcat Server Admi Come inclare Ultime noticie Mozilla Itala Forun d auto Tomcat Server Admi RoboForm Cerca Come Statistic Service Admi Come Statistic Service Result O Number of collected Logs Collapse/expand logs table Log Id	Your Google 1.1 - 10 Bio Fior-warbi	
Camart Statistic Service - Mozilla Firefox Ce todifica Visualiza Vai Segnalitri Strumenti 2 Come indiare Contenentiate Mozilla Italia Porun di auto Tomaat Server Admi Roboform - Cerca Contenentiation - Tomaat Server Admi Roboform - Cerca Contenentiation - Tomaat Server Admi Comment Statistic Service Admi AXMEDIS Camart Statistic Service - Request Hello test Result Collapse/expand logs table Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ exitechtest	Your Google 1.1 - 10 Bio Floravanti Salva Image: General of the salva of th	C Var C C
Camart Statistic Service - Mozilla Firefox Fle Modifica Visualiza Vis Segnalitri Service Come indiare Utime notice Mozilla Itala Forum di auto Tomcat Server Admi Contact Statistic Service Admin Aximedis - Activity AXMEDIS Camart Statistic Service - Requ Hello test Result Collapse/expand logs table Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ_exitechtest CSO 8f181946-5b88-317f-9218-adb17c7046db OBJ exitechtest	Your Google 1.1 - 10 ibb Fior	Cf078ae7fdfb6 DIS_76f5- 1c-f078ae7fdfb6 DIS_76f5-
Camart Statistic Service - Mozilla Firefox File (todifica Visualiza Va) Segnalitri (strumenti 2) Come indiare (Come notice) Mozilla Italia Perumenti 2) Come indiare (Come notice) Mozilla Italia Perume d'uto Come at Server Admi Come indiare (Come notice) Mozilla Italia Perume d'uto Come at Server Admi Come indiare (Come notice) Mozilla Italia Perume d'uto Come at Server Admi Come Statistic Service Aximedis - Activity Aximedis - Activity Hello test Result Collapse/expand logs table Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ_exitechtest CSO_8f181946-5b88-317f-9218-adb17c7046db OBJ_exitechtest CSO f49e0dc3-aec1-39e0-925e-3d4eb03dd694 OBJ exitechtest	Your Google 1.1 - 10 ibio For	
Camart Statistic Service - Mozilla Firefox Pe Modifica Vysueliza Vy Segnalitri Strumenti 2 Comercial Statistic Service / Mozilla Itala Forund auto Tomcat Server Admi Comercial Vysueliza Vy Segnalitri Vysueliza Vy Segnalitri Vysueliza Vysueli Vysueliza V	Your Google 1.1 - 10 Bit Fioravanti Salva Genera Ø iso Scogle Calendar Image: Salva secondar Image: Salvase	
Camart Statistic Service - Mozilla Firefox Pe (todfica Visualiza Va) Segnaltici Strumenti 2 Come inclare Utime noticie Mozilla Italia Forum d auto Tomoct Server Admi Coment Statistic Service Admice Camart Statistic Service - Requ Hello test Result Result Collapse/expand logs table Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ_exitechtest CSO_619586da-3ec1-39e0-925e-3d4eb03dd694 OBJ_exitechtest CSO_609c8cd4-29d4-365b-b481-9adefdb5da26 OEJ_exitechtest	Your Google 1.1 - 10 Bit Floravanti Salva Genera J Image: Google Calendar J Salva Genera J Image: Society Calendar Image: Society Calen	
Camart Statistic Service - Mozilla Firefox Cerear Statistic Service - Mozilla Firefox Come Indiare Souther notice Come Indiare Souther nother notice Come Indiare Souther notice Come In	Your Google 1.1 - 10 izio Fior	
Camart Statistic Service - Mozilla Firefox Fe godifica Visualiza Va Segnalitri gtrumenti 2 Come indiare Visualiza Va Segnalitri gtrumenti 2 Come to serve Admi Result Number of collected Logs 4 Collapse/expand logs table Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ_exitechtest CSO_609c8cd4-29d4-365b-b481-9adefdb5da26 OBJ_exitechtest CSO_609c8cd4-29d4-365b-b481-9adefdb5da26 OBJ_exitechtest Top V 3LOCATION chart Pos LOCATION 1 Areal NorthAmerica	Image: Source Cooling Colored	C-f078ae7fdfb6 DIS_76f5- 1c-f078ae7fdfb6 DIS_5032 1c-f078ae7fdfb6 DIS_66da 1c-f078ae7fdfb6 DIS_66da
Camart Statistic Service - Mozilla Firefox Fle Modifica Yes Yes Yes <th>Your Google 1.1 - 10 Dio Flor If forevanit If forevanit If forevanit If forevanit Jessted Logs Version AXCD Ic56-3e2b-a023-d88271051 2.0 BUS_d0719d28-e695-4db7-847 Ic56-3e2b-a023-d88271051 2.0 BUS_d0719d28-e695-4db7-847</th> <th></th>	Your Google 1.1 - 10 Dio Flor If forevanit If forevanit If forevanit If forevanit Jessted Logs Version AXCD Ic56-3e2b-a023-d88271051 2.0 BUS_d0719d28-e695-4db7-847	
Camart Statistic Service - Mozilla Firefox Pe (todifica Visualiza Vis Segnalitri Strumenti 2 Come indiare (Come notate) Come i	Your Google 1.1 - 10 Bib Fior-Warbit	
Camart Statistic Service - Mozilla Firefox Fle typelica Yei Yei Yei <td>Your Google 1.1 - 10 Dip Form.</td> <td></td>	Your Google 1.1 - 10 Dip Form.	
Comment Statistic Service - Mozilla Firefox Cerear Veueliza Val Segnality Strumenti 2 Commendates Utime notice + Mozilla Italia + Porun di auto interest Admi Roboform - Cerca Commendates Utime notice + Mozilla Italia + Porun di auto interest Admi Roboform - Cerca Commendates Utime notice + Mozilla Italia + Activity AXMEDIS Carmant Statistic Service - Request Hello test Result Log Id CSO_bc57866a-6e0f-3c75-8177-617abac35b96 OBJ_exitechtest CSO_f181946-5b88-317f-9218-adb17c7046db OBJ_exitechtest CSO_f49e0dc3-aec1-39e0-925e-3d4eb03dd694 OBJ_exitechtest CSO_609c8cd4-29d4-365b-b481-9adefdb5da26 OBJ_exitechtest Top I 3LOCATION chart Pos LOCATION 1 Area1_NorthAmerica 2 Area2_Europe 3	Your Google 1.1 - 10 Dip Form.	C-f078ae7fdfb6 DIS_76f5- 1c-f078ae7fdfb6 DIS_5032 1c-f078ae7fdfb6 DIS_66da 1c-f078ae7fdfb6 DIS_2e33

AXMEDIS project

3.2 CAMART and Administrative Information Integrator

3.2.1 Introduction

The role of Core Accounting manager and Reporting Tool (CAMART) is strictly bound with database for logs (provided by AXCS) since it has to collect information regarding the B2B. For example to have a table of Business counterparts that distribute, integrate, etc. AXMEDIS Objects. They should have a contract with the AXMEDIS Factory that host the AXMEDIS database (AXDB). This information is useful to interpreting the Action Log Information coming from the AXCS databases, when available in the AXCS.

The information will be collected on schedule and CAMART will act as a client of the AXCS Reporting Web Service.

AXMEDIS system has to be scalable and therefore we will have to deal with the fact that some installation can have AXDB, AXCS and other supporting tools on different machines, while others can be less distributed due to a lesser need for speed or storage capacity.

The core accounting manager is a sort of Client side of the bridge between the AXDB and the AXCS databases in order to allow AXCS to be independent by the database. The server side in the AXCS is the Web Service: AXMEDIS Reporting Web Service. The CAMART can be interpreted as a part of the AXMEDIS Database Interface, since is the part of the system that allows writing data related to Action-Logs into the DB.

Administrative Information integrator is a critical part of the AXMEDIS system since it is the real bridge between the AXMEDIS world and the world of company's CMS and CRM for taking in account administrative and legal aspects (such reclaim for payment not done and so on).

This component has also a double face since it can operate in a dual manner: used for polling information from AXMEDIS system when needed by distributor for example, or user for pushing information in the CMS as soon as they are available for example in the case of collecting societies.

The operating mode is determined by accounting people during the installation/configuration of the system when it will be established whose fields have to be exported from the DB to the CMS and the frequency of exporting. When a frequency is set, the Administrative Information Integrator will work in push mode, pushing information in the CMS import area, otherwise it operates in polling mode by starting the update in the CMS by a link to a web page.

The principal specification arises, as always, from requirements. Administrative Information Integrator has to:

- *interface with different CMS technologies*: this means that administrative information integrator has to export its reports in a portable format such as an XML that will be defined in the detailed specification. The generated XML can then be parsed and transformed by the way of standard mechanisms such as XSL transformation;
- *store administrative information into the Content Provider database*: this operation will be possible in two ways, or by preparing a file to be put in the import area on the content provider database or by interfacing with the services offered by the CMS of the Content provider by standard mechanisms such as web services or other remote interface available to the Administrative Information Integrator;
- communicate with the AXDB to get administrative information related to a specific Content **Provider**: this is the minimum security requirement that have to be established in order to be sure to distribute information to entitled persons only.
- guarantee privacy of sensitive data via protection mechanisms: apart from what has already been stated, if a network connection is necessary to transfer data and the CMS of the Content Provider permits a connection on a secure channel, then the data will be sent encrypted.

3.2.2 The prototype

Regarding the Administrative Information Integrator (AII), the interface is quite raw, but the functionalities offered are quite stable apart some minor refinement already specified above.

This module is comprised of a daemon that collects info from AXCS and stores logs locally on AXDB for future reuse from AII.

The interface of this daemon is very simple and is reported below:



Once started the interface changes, showing the new status:

🕲 Camart Manager - Mozilla Firefox	
<u>Eile M</u> odifica <u>Vi</u> sualizza V <u>a</u> i S <u>e</u> gnalibri <u>S</u> trumenti <u>?</u>	0
🖕 • 🚽 - 🥰 🙁 🟠 🔣 http://localhost:8080/Camart/AxcsLogPollerSt: 🔍 🛇 Vai 💽	
🐢 Come iniziare 🔂 Ultime notizie 🏶 Mozilla Italia 🏶 Forum di aiuto 🗋 Tomcat Server Admi 🗋 Your Google :	1.1 - 10
🔤 🗸 Cerca 💽 🤹 Logins 👻 🎝 Localhost-tomcat (+4) 🛛 🕹 Fabrizio Fior 🕹 ffioravanti	🔬 Salva 🌺
Camart Manager	
Poller Started.	
Click to start or stop the Camart Axcs Log Poller	
Start Stop	
2006-08-29 11:37:08 - successfully inserted 0 record(s), 1 duplicate(s) found.	
Completato	

This thread runs in background and collects locally the remote logs provided by AXCS, showing also information on the logs inserted in the last poll with the amount of logs that were already present.

Regarding the Administrative Information Integrator seen from the user perspective, the authentication screen is the first page that appears:

🕲 Axmedis All - Mozilla Firefox	
File Modifica <u>Vi</u> sualizza V <u>a</u> i S <u>e</u> gnalibri <u>S</u> trumenti <u>?</u>	0
🖕 🗣 🖓 😒 😭 🔣 http://localhost:8080/AdminInformIntegrator/ 🔍 🖸 Vai 💽	
🐢 Come iniziare 🔂 Ultime notizie 🦚 Mozilla Italia 🀢 Forum di aiuto 📋 Tomcat Server Admi 🗋 Your Google 1.1 - 10	
📟 🔻 Cerca 💽 🔧 Logins 👻 🥋 Localhost-tomcat (+4) 🛛 🍪 Fabrizio Fior 🕹 ffioravanti 🏻 🍰 Salva 🂋 Genera	6
Axmedis Administrative Information Integrator Login	
User:	
Password:	
Login	
Completato	

and the User after a login with authentication and authorization phase is bring to the following User Interface that allows to:

- Configure the AII for the logged user, giving him the chance to select a CMS style and the FTP URL where the logs will be transferred after each data pushing
- Configure the time intervals in minutes between two pushing of data and enabling or disabling pushing
- Poll raw data or formatted data in the case the user has already saved a configuration

🕲 Axmedis All - Mozilla Firefox	
Eile Modifica Visualizza Vaj Segnalibri Strumenti ?	
🖕 🗣 🚽 🧭 🐼 😭 🔣 http://localhost:8080/AdminInformIntegrator/admin-in-in	
🐢 Come iniziare 💫 Ultime notizie 🐢 Mozilla Italia 🐢 Forum di aiuto 📋 Tomcat Server Admi 📄 Your Google 1.1 - 10	
📟 RoboForm 👻 Cerca 🛛 👻 🎎 Logins 👻 🎎 Localhost-tomcat (+4) 🛛 🍪 Fabrizio Fior 🕹 ffioravanti 🛛 🎲 Salva 🂋 Genera 🏑	
Axmedis Administrative Information Integrator Tools Welcome test (hash: kb3a6rk6573cesogjiqgks9ah)	
Configure Export URL (file and ftp schemes supported): CMS style: Value 1 Save configuration	
Push Data	
Period (in minutes): 15 Push active: Push data	
Poll Poll now	
Completato	

The system will push data in the configured ftp URL at the predefined interval in the format specified in DE 3.1.2.2.15 after getting them from the remote AXCS. In the case of polling the data in XML (formatted or unformatted) will be presented on the screen allowing the user to manually save the file for his own purposes and allowing him to use it immediately. The system tracks the time at which a log has been requested in order to avoid multiple gathering of the same data.

If the user has not chosen the configuration the general format is displayed, if the Poll now button is pressed:

Nozilla Firefox	
Ele Modifica Visualizza Vaj Segnalibri Strumenti 2	• O •
Indietro Aventi Ricarica Store Pagina iniziale	🖲 🕑 Vai 🕻 🗸
🌪 Come iniziare 🔂 Ultime notizie 🕐 Mozilla Italia 🗭 Forum di aluto 📄 Pagina di prova dell' 📄 Writing A JAX-RPC Cl	
Google + Cerca + 🔊 PageRank AS Ortografia + 🔽 Opzioni 🥢	
The Defermine of Core and Core	
	m
locanost >> locanost >> axob-test >> p	L.
Il file XML specificato apparentemente non ha un foglio di stile associato. L'albero del documento è mostrato di seguito.	
- <aiireport xsi:nonamespaceschemalocation="C:\Documents and Settings\giacomo\Documenti\Axmedis\AIIRecord v1-1.xsd"></aiireport>	
- <reportdate></reportdate>	
<startdate>2005-02-12 03:05:00 c/startDate></startdate>	
<enduate>2005-06-10-13:50:15:04/enduate></enduate>	
logid>1234	
<executiontimestamp>2005-02-12 03:05:00.0</executiontimestamp>	
<registrationtimestamp>2005-02-12 03:05:00.0</registrationtimestamp>	
<axod>vvvvvvv</axod>	
<axuid>ccccccccc</axuid>	
<axdd>>ccccccccccccc</axdd>	
<axlid> xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</axlid>	
<pre><devuce>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</devuce></pre>	
<pre><operation>!</operation> </pre>	
<include <="" include="" td="" vields=""><td></td></include>	
https://www.analytication.com	
<td></td>	
- <aiirecord></aiirecord>	
<logid>1</logid>	
<executiontimestamp>2005-02-12 03:05:45.0</executiontimestamp>	
<registrationtimestamp>2005-06-16 13:50:15:0</registrationtimestamp>	
<axod>objD</axod>	
<axuid>azud</axuid>	
<axdid-1113(axdid)< td=""><td></td></axdid-1113(axdid)<>	
And the second secon	
<pre><uevice=tostanteedem ingepinte="vievice=<br"><merstion>333</merstion></uevice=tostanteedem></pre>	
<pre>>loc</pre> /loc	
<isrc></isrc>	
<objectcode></objectcode>	
- <aiirecord></aiirecord>	
<logid>2</logid>	
<pre><execution1timestamp>dub-ub-Up 14/43/42.04/executionTimestamp></execution1timestamp></pre>	
<registration 15:00:10:04="" linestamp="" linestamp-2003-00-10="" registration=""> Complete and the stamp-2003-00-10 15:00:10:04/registration Linestamp></registration>	
Competato	

While after the configuration the format defined for CMS1 will appear:

🕲 Mozilla Firefox	
Elle Modifica Visualizza Vaj Segnalibri Strumenti <u>?</u>	9 🔘
Indetro Avanti Ricarica Stor Pagina iniziale	⑧ ♥Vai G.
🗭 Come iniziare 🔂 Ultime notizie 🗭 Mozilla Italia 🗭 Forum di aluto 📄 Pagina di prova dell'i 📄 Writing A JAX-RPC Cl	
Concle + PageBank ASC Outpoursels + PageBank ASC Outpoursels + PageBank ASC Outpoursels	
😫 Koborhorm 👻 Cerca 🔍 🐳 Localnost-comcat (++) 🔮 Pabrizio Fior 🌚 moravand 💥 Salva 🥪 Genera	
bcalhost >> localhost >> axdb-test >> p Attp://localhost:0000tegrator/admin-in-in	×
Il file XIML specificato apparentemente non ha un foglio di stile associato. L'albero del documento è mostrato di seguito.	0
- <axroot></axroot>	
- <transaction></transaction>	
transactionid/1234/transactionid/ <td< td=""><td></td></td<>	
<a>Alternative and a second se	
<and>ccccccccccccccc/AND</and>	
<objectcode>ISRC+other metadata</objectcode>	
<usecode>1</usecode>	
<paymentform>x</paymentform>	
<quantity>1</quantity>	
<transaction value="">x</transaction>	
<trainsactionu2te>200-02-12</trainsactionu2te>	
<transactiontime (insection="" discount)<="" p="" visit=""></transactiontime>	
- <transaction></transaction>	
<transactionid>1</transactionid>	
<axod>objD</axod>	
<isrc>ISRC>ISRC</isrc>	
<axuid> and </axuid>	
<axdid>111</axdid>	
 subject-Cuter/Inter_Interdate subject-Cuter/Inter_Interdate subject-Cuter/Inter_Interdate 	
spaymentForm>	
<quantity>1</quantity>	
<transactionvalue>x</transactionvalue>	
<transactiondate>2005-02-12</transactiondate>	
<transactiontime>03.05:45.0</transactiontime>	
<transactiondiscount>x</transactiondiscount>	
Viransacium/	
- statistical/ stransactionId>>	
<axoid>obiD</axoid>	
<isrc>ISRC>ISRC></isrc>	
<axuid> anuid</axuid>	
<axdid>234</axdid>	•
Completato	

4 Bibliography

DE 9.1.1 Specification of CMS integration and feedback DE 9.1.2 Mock-up for CMS Integration and Feedback DE3-1-2-2-15 Specification of AXMEDIS Accounting and Reporting Video Demonstration: <u>http://www.axmedis.org/documenti/view_documenti.php?doc_id=2131</u>