

Test Module10.8

Encryption

Test Data Repository

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INTRODUCTION

The Test Data Repository is organized in several sub-chapters – one corresponding (Sub) Test Data Repository for each test module. This reduces complexity and guarantees higher readability and comprehensibility for the user.

Each of these documents has the same general structuring:

- ◆ **Agents & Access Controls:** This sub-chapter gives details about user profiles, user roles and user groups. Furthermore it will be explained which user roles have access permission to functions, aggregations and records. In addition we explain which user groups have access permission to aggregations and records.
- ◆ **Classification Scheme(s):** This sub-chapter includes all Classification Scheme(s) that are used within the corresponding sub-chapter of the test module. It lists information of the metadata of the classification scheme itself and of all aggregations and records within it.
- ◆ **Record types:** This sub-chapter gives detailed information about the records used.
- ◆ **Retention and Disposition Schedules:** This sub-chapter gives detailed information about the retention and disposition schedules used.
- ◆ **Content of captured records:** This sub-chapter gives detailed information about the content of the items that are captured as records. As these items are described before they are captured into the ERMS, no metadata elements can be used for the description.

To increase the usability of the Test Data Repository we marked the information in different colours. The blue coloured content represents the situation before test cases are executed (precondition). The red coloured content represents the situation after the test cases are executed (test result). Both situations are highlighted as far as possible. In some cases we used brackets (e.g. []) to highlight which entity is being affected by the test execution. Examples:

<i>Example</i>	<i>Explanation</i>
Class Corporate Direction	The item is a precondition for the test case. It has to be created before executing the test cases of the sub-chapters.
Class Corporate Direction	The item will be created within a test case.
[Class] [Corporate	The item will be deleted, reclassified, relocated when the test cases of the

Direction] sub chapter are being executed.

The metadata model requires metadata elements such as M163 *Identity.system_identifier* which are "populated" by the system when an agent is defined. We just use the values of these elements to have an internal linkage between our test data. These values do not have to match the existing values in the ERMS.

ON CHAPTER T10.8 - ENCRYPTION

8.1 Agents & Access Controls

Within this chapter we summarise all agents and access controls that are needed for testing. The first sub-chapter, as far as possible, provides an insight into the profiles of the agents (users, user roles and user groups) used. The second sub-chapter summarises the access controls for agents to entities (entity/agent) and for agents to functions.

8.1.1 Agents (Users, User Groups and User Roles)

The following tables show the metadata of agents (Users, User Groups and User Roles).

8.1.1.1 Users

Following users need to be created or will be created during the test execution:

M163	M167	M189	M171	M166	M165	M169	M170
Identity.system_identifier	Description.title	Description.email.address	Relation.entity_agent	Relation.has_role	Relation.is_member_of	Use.administrator	Use.inactive
<U01>	User1			<R01>		YES	<Active>
<U02>	User2			<R02>		NO	<Active>
<U03>	User3			<R03>		NO	<Active>
<U04>	User4			<R04>		NO	<Active>

8.1.1.2 User Roles

Following roles need to be created or will be created during the test execution:

M163	M167	M168	M171	Remarks and comments
Identity.system_identifier	Description.title	Relation.has_user	Relation.entity_agent	
<R01>	CentralAdministrator	<U01>		

<R02>	DecryptionKeyOwner	<U02>		Is the owner of a valid decryption key.
<R03>	NoDecryptionKeyOwner	<U03>		Is NO owner of a valid decryption key.
<R04>	Worker	<U04>		

8.1.1.3 User Groups

The values to be used for testing are arbitrary.

8.1.2 Access controls

The following tables show the Entity/Agent relation and the access of agents to functions.

8.1.2.1 Entity/Agents

The values to be used for testing are arbitrary.

8.1.2.2 Access permissions of user roles to functions

We assume that all user roles have access permissions to all functions.

8.2 Classification Scheme(s)

This section includes all classification scheme(s) which are used within the test cases of the corresponding test module. First of all you will find the metadata for the classification scheme itself.

The next chapter(s) describe(s) the metadata of the aggregations and records defined in the classification scheme(s).

Please note that:

- ◆ it is possible that more than one classification scheme is defined. Therefore the fully-qualified classification code contains a prefix that uniquely identifies an entity across different classification schemes. Example: A class has the fully-qualified classification code <CS01/001>. This means that prefix CS01 indicates the classification scheme as specified above (M044)
- ◆ we only take metadata into account which are needed for testing. A full approach is not intended here.

M044	M045	M046
Identity.system_identifier	Description.title	Description.abstract.description*
<CS01>	TestClassificationScheme1	

* Optional

8.2.1 TestClassificationScheme1 – metadata to aggregations and records

M012		M003	M143	M116	M117	M118	M119	M120
Description.classification.fully-qualified_classification_code	Type	Description.title	Use.status. encrypted_ in_transit	Use. technical_ environment. encryption_ algorithm	Use. technical_ environment. serial_number_ digital_ certificate	Use. technical_ environment. encryption_level	Event_history. date.encrypted	Event_history. date.decrypted



M012 Description.classification.fully-qualified_classification_code	Type	M003 Description.title	M143 Use.status.encrypted_in_transit	M116 Use.technical_environment.encryption_algorithm	M117 Use.technical_environment.serial_number_digital_certificate	M118 Use.technical_environment.encryption_level	M119 Event_history.date.encrypted	M120 Event_history.date.decrypted
<CS01/001>	Class	Business Units						
<CS01/001/001>	Class	Marketing						
<CS01/001/001/001>	Record	Record1	YES					
<CS01/001/001/002>	Record	Record2	YES	<algorithm>	<certificate number>	<encryption_level>	<date>	<date>
<CS01/001/002>	Class	Planning						
<CS01/001/002/001>	File	Shortterm Planning						
<CS01/001/002/001/001>	Record	Record3	YES					<date>
<CS01/001/002/001/002>	Record	Record4	YES					<date>
<CS01/001/002/001/003>	Record	Record5	YES	<algorithm>	<certificate number>	<encryption_level>	<date>	<date>
<CS01/001/002/001/004>	Record	Record6	YES					

8.3 Record Types

The values to be used for testing are arbitrary.

8.4 Retention and Disposition Schedules

The following table lists the metadata for the used retention and disposition schedules.

M008	M024	M014	M013	M052	M133	M015	M030
Identity.system_identifier.retention_and_disposition_schedule	Description.title*	Event_plan.event_type.disposition_action	Event_plan.period*	Event_plan.event_trigger	Use.status.inheritance	Reason	Description.Mandate*
<RDS01>	RDS_a01	Retain indefinitely	Indefinite	No		Test	Testing Regime

* Optional

8.5 Content of Captured Records

The following tables list all components, documents, document sets, fax and e-mails that are used within the test cases.

8.5.1 Documents

ID	Title	Format	Version	Highlighted content	Comment
<D01>	Document1				