

# Test Module10.13

## Security Categories

### Test Data Repository

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## Contents

<b>Introduction</b>	<b>3</b>
<b>on chapter T10.13 - Security Categories</b>	<b>5</b>
13.1 <i>Agents &amp; Access Controls</i>	5
13.1.1 <i>Agents (Users, User Groups and User Roles)</i>	5
13.1.1.1 Users	5
13.1.1.2 User Roles	6
13.1.1.3 User Groups	6
13.1.2 <i>Access controls</i>	6
13.1.2.1 Entity/Agents	6
13.1.2.2 Access permissions of user roles to functions	7
13.2 <i>Classification Scheme(s)</i>	9
13.2.1 <i>TestClassificationScheme1 – metadata of aggregations and records</i>	9
13.3 <i>Record Types</i>	12
13.4 <i>Retention and Disposition Schedules</i>	12
13.5 <i>Security Categories</i>	12
13.6 <i>Security Clearance</i>	13
13.6.1.1 Security clearance of users	13
13.6.1.2 Security clearance of user roles	14
13.7 <i>Content of Captured Records</i>	15

## 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:

Example	Explanation
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 Direction]	The item will be deleted, reclassified, relocated when the test cases of the sub chapter are being executed.
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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 T10.13 - SECURITY CATEGORIES

### 13.1 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.

#### 13.1.1 Agents (Users, User Groups and User Roles)

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

##### 13.1.1.1 Users

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

<b>M163</b>	<b>M167</b>	<b>M189</b>	<b>M171</b>	<b>M166</b>	<b>M165</b>	<b>M169</b>	<b>M170</b>
Identity.system_identifier	Description.title	Description.email.address	Relation.entity_agent	Relation.has_role	Relation.is_member_of	Use.administrator	Use.inactive
<U01>	CA_username			<R01>		YES	<Active>
<U02>	SR_username			<R02>		NO	<Active>
<U03>	MA_username			<R03>		NO	<Active>
<U04>	MA_username2			<R03>		NO	<Active>
<U05>	MA_username3		<EA01>	<R03>		NO	<Active>

### 13.1.1.2 User Roles

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

<b>M163</b> Identity.system_identifier	<b>M167</b> Description.title	<b>M168</b> Relation.has_user	<b>M171</b> Relation.entity_agent	Remarks and comments
<R01>	CentralAdministrator	<U01>		
<R02>	SecurityReviewer	<U02>		
<R03>	MarketingAdministrator	<U03>, <U04>, <U05>		

### 13.1.1.3 User Groups

The values to be used for testing are arbitrary.

## 13.1.2 Access controls

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

### 13.1.2.1 Entity/Agents

Following Entity/Agents describe which agent has no access to an entity of the classification scheme.

<b>M175</b> Identity.system_identifier	<b>M177</b> Relation.applies_to_agent	<b>M176</b> Relation.applies_to_entity	<b>M180</b> Use.rights.permission	<b>M181</b> Use.rights.end_date	<b>M179</b> Use.rights.start_date
<EA01>	<U05>	<CS01/001>	NO		

### 13.1.2.2 Access permissions of user roles to functions

	<R01>	<R02>	<R03>
Function	CentralAdministrator	SecurityReviewer	MarketingAdministrator
Add new classes	X		X
Create new files	X		X
Change file metadata	X		X
Maintain classification scheme and files	X		X
Delete files	X		X
Capture records	X		X
Relocate a record to a different file	X		X
Search for and read records	X		X
Change content of records			X
Change record metadata	X		X
Delete records	X		X
Place and remove disposal holds	X		
Retention and disposition schedule and disposition transactions	X		
Export and import files and records	X		
View audit trails	X		X
Configure and manage audit trail	X		X
Change audit trail data			X
Move audit trail data to off-line storage media	X		
Perform all transactions related to users and their access privileges	X		

	<R01>	<R02>	<R03>
Function	CentralAdministrator	SecurityReviewer	MarketingAdministrator
Allocate access controls to local administrator	X		
Allocate own access controls also to other users	X		
Maintain database and storage	X		
Maintain other system parameters	X		
Define and view other system reports	X		
Specify and change security categories	X	X	X



## 13.2 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	

### 13.2.1 TestClassificationScheme1 – metadata of aggregations and records

M012		M003		M172
Description.classification.fully-qualified_classification_code	Type	Description.title	Security_category	Relation.entity_agent
<CS01/001>	Class	Marketing	[SecurityClass.Secret] Location.Same Location	<EA01>
<CS01/001/001>	File	Policy Development	[SecurityClass.Secret] Location.Same Location	
<CS01/001/001/001>	Sub-file	2006	[SecurityClass.Secret] Location.Same Location	
<CS01/001/001/001/001>	Volume	1 <sup>st</sup> quarter	[SecurityClass.Secret] Location.Same Location	
<CS01/001/001/001/001/001>	Record	Record1	[SecurityClass.Unclassified] Location.Same Location	

M012		M003		M172
Description.classification.fully-qualified_classification_code	Type	Description.title	Security_category	Relation.entity_agent
<CS01/001/001/001/001/002>	Record	Record2	[SecurityClass.Secret] Location.Same Location	
<CS01/001/002>	File	Workforce Planning	[SecurityClass.Confidential]	
<CS01/001/002/001>	Record	Record3	SecurityClass.TopSecret	
<CS01/001/003>	File	Management Planning	SecurityClass.Confidential	
<CS01/002>	Class	Acquisition	SecurityClass.Confidential	
<CS01/003>	Class	Sales	[SecurityClass.Confidential]	
<CS01/003/001>	File	Sales Policy	[SecurityClass.Confidential]	
<CS01/003/001/001>	Sub-file	2007	[SecurityClass.Confidential]	
<CS01/003/001/001/001>	Volume	1 <sup>st</sup> quarter	[SecurityClass.Confidential]	
<CS01/003/001/001/001/001>	Record	Record4	[SecurityClass.Confidential]	
<CS01/004>	Class	Infrastructure	[SecurityClass.Restricted]	
<CS01/004/001>	File	Infrastructure Policy	[SecurityClass.Restricted]	
<CS01/004/001/001>	Sub-file	2005	[SecurityClass.Restricted]	
<CS01/004/001/001/001>	Volume	1 <sup>st</sup> quarter	[SecurityClass.Restricted]	
<CS01/004/001/001/001/001>	Record	Record5	[SecurityClass.Restricted]	
<CS01/005>	Class	Finance	[SecurityClass.Restricted]	
<CS01/005/001>	File	Finance Policy	[SecurityClass.Restricted]	
<CS01/005/001/001>	Sub-file	2005	[SecurityClass.Restricted]	
<CS01/005/001/001/001>	Volume	1 <sup>st</sup> quarter	[SecurityClass.Restricted]	

M012		M003		M172
Description.classification.fully-qualified_classification_code	Type	Description.title	Security_category	Relation.entity_agent
<CS01/005/001/001/001/001>	Record	Record6	[SecurityClass.Restricted]	
<CS01/006>	Class	Management	[SecurityClass.Confidential]	
<CS01/007>	Class	Accounting	[SecurityClass.Unclassified]	
<CS01/007/001>	File	Accounting Policy	[SecurityClass.Unclassified]	
<CS01/007/001/001>	Sub-file	2005	[SecurityClass.Unclassified]	
<CS01/007/001/001/001>	Volume	1 <sup>st</sup> quarter	[SecurityClass.Unclassified]	
<CS01/007/001/001/001/001>	Record	Record7	[SecurityClass.Unclassified]	
<CS01/008>	Class	Human Resources	[SecurityClass.Restricted]	
<CS01/008/001>	File	Employees	[SecurityClass.Restricted]	
<CS01/008/001/001>	Sub-file	Outsourcing	[SecurityClass.Restricted]	
<CS01/008/001/001/001>	Volume	CompanyA	[SecurityClass.Restricted]	
<CS01/008/001/001/001/001>	Record	Record8	[SecurityClass.Restricted]	
<CS01/009>	Class	Telecommunication	SecurityClass.Confidential	
<CS01/009/001>	File	Technical Infrastructure	[SecurityClass.Confidential]	
<CS01/009/001/001>	Sub-File	Phones	[SecurityClass.Restricted]	
<CS01/009/001/001/001>	Volume	Wireless Communication	[SecurityClass.Unclassified]	

### 13.3 Record Types

The values to be used for testing are arbitrary.

### 13.4 Retention and Disposition Schedules

The values to be used for testing are arbitrary.

### 13.5 Security Categories

The following table shows the security categories of **TestSecurityCategory1** that are required for the test cases.

Reference Identity	Type	Title	values	Remarks and comments
<SC01>	main category	Security Categories		
<SC01/01>	sub-category	Security Class	Top Secret	Highly restricted access
			Secret	
			Confidential	
			Restricted	
			Unclassified	Unrestricted access
<SC01/02>	sub-category	Caveat	NATO Eyes Only	
			WEU Eyes Only	
<SC01/03>	sub-category	Descriptor	Commercial	
			Personnel	
			Management	
			Audit and Accounts	
<SC01/03>	sub-category	Location	Same Location	Highly restricted access.

			Same Country	
			Worldwide	Unrestricted access.
<SC02>	<b>main category</b>	<b>Security Categories2</b>	Top Secret	Highly restricted access
			Secret	
			Confidential	
			Restricted	
			Unclassified	Unrestricted access

## 13.6 Security Clearance

### 13.6.1.1 Security clearance of users

Security category	Value	CA_username	SR_username	MA_username	MA_username2	MA_username3
Security class	Top Secret	X				
	Secret			X		X
	Confidential				X	
	Restricted					
	Unclassified		X			
Caveat	EU Eyes Only	X	X	X	X	X
	WEU Eyes Only					
Descriptor	Commercial					
	Personnel	X	X	X	X	X
	Management					

Security category	Value	CA_username	SR_username	MA_username	MA_username2	MA_username3
	Audit and Accounts					
Location	Same Location					
	Same Country	X	X		X	X
	Worldwide			X		

### 13.6.1.2 Security clearance of user roles

Security category	Value	CentralAdministrator	MarketingAdministrator	SecurityReviewer
Security class	Top Secret	X		
	Secret			
	Confidential		X	
	Restricted			
	Unclassified			X
Caveat	EU Eyes Only	X	X	X
	WEU Eyes Only			
Descriptor	Commercial			
	Personnel	X	X	X
	Management			
	Audit and Accounts			
Location	Same Location	X		
	Same Country		X	X

Security category	Value	CentralAdministrator	MarketingAdministrator	SecurityReviewer
	Worldwide			

### 13.7 Content of Captured Records

The values to be used for testing are arbitrary.