Macintosh HD:Users:jon:Documents:DLM Forum:DLM Foundation:Branding:Logos:MoReq logos:MoReq2010:MoReq2010_Reg:MoReq2010_Reg_pms.eps

MoReq2010®

Modular Requirements for Records Systems

Test Framework

Test Module 1: Users and groups

Version 0.2 BETA

Copyright © 2011 DLM Forum Foundation, all rights reserved

# Scope

This test module tests requirements from the following sections of the MoReq2010® specification:

* **2. System Services**
* **3. User and Group Service**
* **10. Searching and Reporting Service**
* **11. Export Service**
* **101. Graphical User Interface**
* **102. Application Programming Interface**

Of these the major emphasis of the test module is placed on **3. User and Group Service**.

This test module should be used whenever the core services of MoReq2010® are being tested and must be tested after **Test Module 0: Familiarisation and training**.

Additional notes are provided to test centres for clarity throughout. From time-to-time the test scripts will be updated; be sure to check that you are using the most up-to-date version of the testing materials.

Macintosh HD:Users:jon:Documents:DLM Forum:DLM Foundation:Branding:Logos:MoReq logos:MoReq2010:MoReq2010_Reg:MoReq2010_Reg_pms.eps

# TEST MODULE 1: USERS AND GROUPS

(To be completed by the test centre)

# 1.1 Observation record

Supplier name

Product name and version

Test centre name

Date of test

Test location

Supplier representative(s) present during testing

Test centre representative(s) present during testing

DLM Forum observer(s) present during testing

Test system technical architecture, hardware, software and operating system(s)

Test outcomes

Fill in with 🗹 or 🗷 to ensure all test outcomes are met

🞏 The test system was correctly configured prior to testing

🞏 The test system was not reconfigured during testing

🞏 The test module was completed in a single session

🞏 All test cases in the test module were completed, in order

🞏 All test cases in the test module were completed successfully

Refer to the individual test results for all test cases in this test module

Additional remarks or observations

# 1.2 Test script – Users and groups

All test cases in the test script for this test module must be completed in order before moving onto the next test case.

## T1.2.1 – Test case

### 1.2.1.1 Test case description

**Initial error check**

### 1.2.1.2 Test case preconditions

* Test system is operational
* Test data (see appendix **1.A Test data**) are loaded onto test system
* Where the test system uses an API then a suitable test harness has been provided (see the **Test Framework: Overview and Instructions, 4.1 Providing a test harness for API interfaces**)
* The test system has been configured, under **R2.4.13** such that performing any function system wide will generate an event under **R2.4.15** and **R2.4.16** – in other words, all function definitions must have their Generate Event Flag (**M14.4.34**) set
* The test system has been configured, under **R2.4.20** such that the events generated by all functions system wide will be retained by residual entities – in other words, all function definitions must have their Retain On Destruction Flag (**M14.4.88**) set
* If the model role service is implemented then the test system has been configured, under **R4.5.8** such that every access control list is set to inherit all roles, not just administrative roles – in other words, the Include Inherited Roles Flag (**M14.4.43**) for all access control lists for all entities is set by default
* If a native role service is implemented then the test system must deliver an equivalent level of functionality to that provided by the roles listed in appendix 1**.A.2.1 Role entities**

### 1.2.1.3 Test case steps (instructions)

* Before logging into the test system take a copy of the external error log, under **R2.4.7**

### 1.2.1.4 Test case post-conditions (expected result)

* Errors in the external error log must contain at least the information listed under **R2.4.7**

### 1.2.1.5 Notes to test centre

* Check whether there are any errors generated by functions failing to perform under **R2.4.8**
* Note that **R2.4.8** is not tested directly unless an error occurs during testing, instead it is tested indirectly through this test case

### 1.2.1.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.2 – Test case

### 1.2.2.1 Test case description

**Initial compliance check**

### 1.2.2.2 Test case preconditions

* **T1.2.1** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.1** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.2.3 Test case steps (instructions)

* Log into the test system as user **Usr.1.1** under **R3.4.1**
* Generate the compliance report for the test system under **R2.4.5**

### 1.2.2.4 Test case post-conditions (expected result)

* User **Usr.1.1** logs in successfully
* The compliance report contains all of the information and metadata required by **R2.4.5** and **R2.4.2**
* Specifically, the compliance report must show compliance with, at least:
  + **User and Group Service v1.x** (**cd532472-85b0-4c1c-82b4-5c8370b7d0e6**)
  + **Model Role Service v1.x (2f6d05c6-51e6-4a32-a7fc-c0a6883eb85b)**

**OR Native Role Service v1.x (d945dcd9-dc2d-491d-965a-11ce936d044b)**

* + **Model Metadata Service v1.x** (**a600f8d0-2d58-418e-bb41-211d1fd42350**)

**OR Native Metadata Service v1.x** (**66bf4419-d92f-4358-8506-7ee9c06abdcd**)

* + **Searching and Reporting v1.x** (**f09984a5-dd31-44d8-9607-22521667c78a**)
  + **Export Service v1.x** (**2777ab81-057e-4aa4-9595-69459ec2dc1e**)
  + **Graphical User Interface v1.x (0f9584e5-552a-4a79-a8ea-3c2801765255)**

**AND/OR Application Programming Interface (654633ec-8b17-4a3c-a483-436ee2bd506a)**

* The compliance report must use the UUIDs listed above, under **R2.4.23**

### 1.2.2.5 Notes to test centre

Describe in the remarks how the user performs a compliance check.

### 1.2.2.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.3 – Test case

### 1.2.3.1 Test case description

**Browse available services (or bundles of services) and inspect the metadata of the user and group service**

### 1.2.3.2 Test case preconditions

* **T1.2.2** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.2** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.3.3 Test case steps (instructions)

* Browse the services (**E14.2.14**) of the test system, under **R2.4.3**
* Inspect the metadata of the user and group service or the bundle of services that contains the user and group service, under **R2.4.3**

### 1.2.3.4 Test case post-conditions (expected result)

* The test system must allow browsing of all services listed under **R2.4.1**, either as individual services or within one or more bundles of services
* The test system must allow inspection of the metadata of services or bundles of services where each service or bundle of services has the metadata listed under Inspect the metadata of the user and group service or the bundle of services that contains the user and group service, under **R2.4.3**
* The metadata of the user or group service or bundle of services must match the compliance report generated previously under **T1.2.2**

### 1.2.3.5 Notes to test centre

It is possible that the test system implements all services as part of a single bundle. In this circumstance the metadata will relate to the test system as a whole.

### 1.2.3.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.4 – Test Case

### 1.2.4.1 Test case description

**Modify the metadata of the user and group service**

### 1.2.4.2 Test case preconditions

* **T1.2.3** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.3** was completed
* The test operator is logged in as user **Usr.1.1**
* The Title (**M14.4.104**), Description (**M14.4.16**) and Owner Information (**M14.4.62**) for the user and group service or bundle of services containing the user and group service must NOT have been set to the values below prior to this test case

### 1.2.4.3 Test case steps (instructions)

* Modify the metadata of the user and group service or bundle of services containing the user and group service, under **R2.4.4**, as follows:
  + Change Title (**M14.4.104**) to “MoReq2010® Test System”
  + Change Description (**M14.4.16**) to “Test Module 1: Users and groups”
  + Change Owner Information (**M14.4.62**) to the name and address of the test centre
* Add a comment, “Changed during testing” under **R2.4.18**

### 1.2.4.4 Test case post-conditions (expected result)

* The metadata is modified correctly to the input values
* The comment has been accepted as part of the event generated by the changes to the metadata

### 1.2.4.5 Notes to test centre

* Make a note (or screenshot) of the values of the metadata prior to changing them
* Ensure that you can include the Unicode “®” character (U+00AE) in accordance with **R2.4.28**

### 1.2.4.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.5 – Test Case

### 1.2.5.1 Test case description

**Browse the event history of the user and group service**

### 1.2.5.2 Test case preconditions

* **T1.2.4** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.4** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.5.3 Test case steps (instructions)

* From the user and group service or bundle of services containing the user and group service browse to its event history under **R2.4.19**
* Browse to and inspect the metadata of the most recent “System – Modify Metadata” (**F14.5.162**) event under **R2.4.19**

### 1.2.5.4 Test case post-conditions (expected result)

* The “System – Modify Metadata” event must have the metadata listed under **R2.4.16** and **F14.5.162**
* The Created Timestamp (**M14.4.9**) for this event must show that the event occurred when test case **T1.2.4** was performed and the Performed by User Identifier (**M14.4.83**) must show it was performed by **Usr.1.1**
* The metadata change entry (**D14.3.3**) for this event must show that the Title, Description and Owner Information metadata were all changed in accordance with **T1.2.4**

### 1.2.5.5 Notes to test centre

The previous test case **T1.2.4** should have caused the event to be generated under **R2.4.15**

### 1.2.5.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.6 – Test Case

### 1.2.6.1 Test case description

**Find and inspect Usr.1.1, Usr.1.2, Grp.1.1 and Grp.1.2**

### 1.2.6.2 Test case preconditions

* **T1.2.5** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.5** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.6.3 Test case steps (instructions)

* Search under **R10.4.1** for entities whose names begin “Usr.1.”, restricting the search under **R10.4.2** to entities of type “User”
* Inspect the metadata of **Usr.1.1** and **Usr.1.2** under **R3.4.14**
* Search under **R10.4.1** for entities whose names begin “Grp.1.”, restricting the search under **R10.4.2** to entities of type “Group”
* Inspect the metadata of **Grp.1.1** and **Grp.1.2** under **R3.4.14**

### 1.2.6.4 Test case post-conditions (expected result)

* The first search should return **Usr.1.1** and **Usr.1.2**
* The metadata of **Usr.1.1** and **Usr.1.2** must be in accordance with the test data in **Appendix 1.A**
* The second search should return **Grp.1.1** and **Grp.1.2**
* The metadata of **Grp.1.1** and **Grp.1.2** must be in accordance with the test data in **Appendix 1.A**

### 1.2.6.5 Notes to test centre

The entity types for “User” (**E14.2.16**) and “Group” (**E14.2.10**) may have localised titles under **R2.4.10**.

### 1.2.6.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.7 – Test Case

### 1.2.7.1 Test case description

**Browse the entity types in the user and group service**

### 1.2.7.2 Test case preconditions

* **T1.2.6** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.6** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.7.3 Test case steps (instructions)

* From the user and group service or bundle of services containing the user and group service browse to the associated entity types under **R2.4.9**
* Inspect the metadata of the Group entity type under **R2.4.9**
* Inspect the metadata of the User entity type under **R2.4.9**

### 1.2.7.4 Test case post-conditions (expected result)

* The “User” (**E14.2.16**) and “Group” (**E14.2.10**) entity types must be present and associated with the user and group service or a bundle of services including the user and group service
* The “User” (**E14.2.16**) and “Group” (**E14.2.10**) entity types must have the metadata associated with them under **R2.4.10**

### 1.2.7.5 Notes to test centre

* MoReq2010® makes no provision for modification of the metadata values of entity types
* The entity types for “User” (**E14.2.16**) and “Group” (**E14.2.10**) may have localised titles under **R2.4.10**.

### 1.2.7.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.8 – Test Case

### 1.2.8.1 Test case description

**Browse the function definitions for an entity**

### 1.2.8.2 Test case preconditions

* **T1.2.7** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.7** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.8.3 Test case steps (instructions)

* From the “User” (**E14.2.16**) entity type browse to its function definitions under **R2.4.11**
* Browse to and inspect the metadata of the “User – Inspect” (**F14.5.187**) function definition under **R2.4.11**

### 1.2.8.4 Test case post-conditions (expected result)

* The following function definitions must be present under “User”:
  + “User – Add Contextual Metadata” (**F14.5.177**)
  + “User – Browse Records Due For Disposal” (**F14.5.178**)
  + “User – Create” (**F14.5.179**)
  + “User – Delete” (**F14.5.180**)
  + “User – Delete Residual Event” (**F14.5.181**)
  + “User – Delete Residual Metadata” (**F14.5.182**)
  + “User – Destroy” (**F14.5.183**)
  + “User – Detailed Report” (**F14.5.184**)
  + “User – Export” (**F14.5.185**)
  + “User – Exported” (**F14.5.186**)
  + “User – Inspect” (**F14.5.187**)
  + “User – Inspect ACL” (**F14.5.188**)
  + “User – Inspect Event“ (**F14.5.189**)
  + “User – Modify ACL” (**F14.5.190**)
  + “User – Modify Metadata” (**F14.5.191**)
  + “User – Modify Originated Date/Time” (**F14.5.192**)
  + “User – Report Authorisation” (**F14.5.193**)
  + “User – Report Group Membership” (**F14.5.194**)
  + “User – Search” (**F14.5.195**)
  + “User – Summary Report” (**F14.5.196**)
* The “User – Inspect” (**F14.5.187**) function definition must have the metadata listed under **R2.4.12**
* In particular, the Generate Event Flag (**M14.4.34**) and the Retain On Destruction Flag (**M14.4.88**) metadata elements should be set

### 1.2.8.5 Notes to test centre

Under **R2.4.12** the function definitions listed above may have localised titles and descriptions

### 1.2.8.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.9 – Test Case

### 1.2.9.1 Test case description

**Modify the metadata of a function definition**

### 1.2.9.2 Test case preconditions

* **T1.2.8** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.8** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.9.3 Test case steps (instructions)

* Clear the Generate Event Flag (**M14.4.34**) for the “User – Inspect” (**F14.5.187**) function definition under **R2.4.13**
* Clear the Retain On Destruction Flag (**M14.4.88**) for the“User – Inspect” (**F14.5.187**) function definition under **R2.4.20**
* Add a comment, “Not required in accordance with organisational policy” under **R2.4.18**

### 1.2.9.4 Test case post-conditions (expected result)

* The Generate Event Flag (**M14.4.34**) metadata element must not be set
* The Retain On Destruction Flag (**M14.4.88**) metadata element must not be set
* The comment has been accepted as part of the event generated by the changes to these metadata elements

### 1.2.9.5 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.10 – Test Case

### 1.2.10.1 Test case description

**Browse the event history of a function definition and inspect an event**

### 1.2.10.2 Test case preconditions

* **T1.2.9** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.9** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.10.3 Test case steps (instructions)

* From the “User – Inspect” (**F14.5.187**) function definition browse to its event history under **R2.4.19**
* Browse to and inspect the metadata of the most recent “Function Definition – Modify Event Generation” (**F14.5.92**) event under **R2.4.19**
* Browse to and inspect the metadata of the most recent “Function Definition – Modify Retain Event On Destruction” (**F14.5.93**) event under **R2.4.19**

### 1.2.10.4 Test case post-conditions (expected result)

* The “Function Definition – Modify Event Generation” event must have the metadata listed under **R2.4.16** and **F14.5.92**
* The Created Timestamp (**M14.4.9**) for this event must show that the event occurred when test case **T1.2.9** was performed and the Performed by User Identifier (**M14.4.83**) must show it was performed by **Usr.1.1**
* The metadata change entry (**D14.3.3**) for this event must show that the Generate Event Flag (**M14.4.34**) was cleared
* The comment for this event should be that entered in **T1.2.9**
* The “Function Definition – Modify Retain Event On Destruction” event must have the metadata listed under **R2.4.16** and **F14.5.93**
* The Created Timestamp (**M14.4.9**) for this event must show that the event occurred when test case **T1.2.9** was performed and the Performed by User Identifier (**M14.4.83**) must show it was performed by **Usr.1.1**
* The metadata change entry (**D14.3.3**) for this event must show that the Retain On Destruction Flag (**M14.4.88**) was cleared
* The comment for this event should be that entered in **T1.2.9**

### 1.2.10.5 Notes to test centre

* The previous test case **T1.2.9** should have caused these events to be generated under **R2.4.15**
* This is an example where a single user action in the previous test case will generate two events in the event history
* This is shown by the same event comment, entered once by the user, appearing in both events

### 1.2.10.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.11 – Test Case

### 1.2.11.1 Test case description

**Check that the “Function Definition – Modify Event Generation” (F14.5.92) function definition cannot be configured not to generate an event**

### 1.2.11.2 Test case preconditions

* **T1.2.10** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.10** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.11.3 Test case steps (instructions)

* Search for the function definition “Function Definition – Modify Event Generation” under **R10.4.1**
* Inspect the metadata of the “Function Definition – Modify Event Generation” (**F14.5.92**) function definition under **R2.4.11**
* Attempt to clear the Generate Event Flag (**M14.4.34**)

### 1.2.11.4 Test case post-conditions (expected result)

* The function definition must be discoverable by searching
* The metadata for the function definition must be that listed under **R2.4.12**
* The test system must prevent the clearing of the Generate Event Flag (**M14.4.34**) under **R2.4.14**

### 1.2.11.5 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.12 – Test Case

### 1.2.12.1 Test case description

**Inspect own metadata**

### 1.2.12.2 Test case preconditions

* **T1.2.11** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.11** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.12.3 Test case steps (instructions)

* Browse or search for the currently logged in user (**Usr.1.1**)
* Inspect the metadata for user **Usr.1.1**, under **R3.4.14**

### 1.2.12.4 Test case post-conditions (expected result)

* **Usr.1.1** is found
* The metadata for **Usr.1.1** is the same as that listed under **R3.4.1**

### 1.2.12.5 Notes to test centre

* It should be possible to browse or search for a user
* The test system may also have a shortcut to the metadata of the current user – ask to see this if it is available and indicate in the additional remarks below

### 1.2.12.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.13 – Test Case

### 1.2.13.1 Test case description

**Modify own metadata**

### 1.2.13.2 Test case preconditions

* **T1.2.12** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.12** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.13.3 Test case steps (instructions)

* Modify the metadata for **Usr.1.1** under **R3.4.3**:
  + Change Title (**M14.4.104**) to “MoReq2010® Chief Tester (Usr.1.1)”
  + Change Description (**M14.4.16**) to “Name changed to Chief Tester”
* Add a comment “Changed during compliance testing” under **R2.4.18**

### 1.2.13.4 Test case post-conditions (expected result)

* The Title and Description have been updated for **Usr.1.1**
* The comment has been accepted as part of the event generated by the changes to these metadata elements

### 1.2.13.5 Notes to test centre

* If the user and group service is a wrapper for an external directory service then this function may occur outside the test system (if so, then enquire how, and how frequently, the metadata is propagated into the test system)
* This test script will continue to use the term “Usr.1.1” to refer to this user entity
* Ensure that you can include the Unicode “®” character (U+00AE) in accordance with **R2.4.28**

### 1.2.13.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.14 – Test Case

### 1.2.14.1 Test case description

**Modify another user’s metadata**

### 1.2.14.2 Test case preconditions

* **T1.2.13** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.13** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.14.3 Test case steps (instructions)

* Browse or search for the user **Usr.1.2**
* Inspect the metadata for user **Usr.1.2**, under **R3.4.14**
* Modify the metadata for **Usr.1.2** under **R3.4.3**:
  + Change Title (**M14.4.104**) to “MoReq2010® Assistant Tester (Usr.1.1)”
  + Change Description (**M14.4.16**) to “Name changed to Assistant Tester”
* Add a comment “Changed by User.1.1 during compliance testing” under **R2.4.18**

### 1.2.14.4 Test case post-conditions (expected result)

* **Usr.1.2** is found
* The metadata for **Usr.1.2** is the same as that listed under **R3.4.1**
* The Title and Description have been updated for **Usr.1.2**
* The comment has been accepted as part of the event generated by the changes to these metadata elements

### 1.2.14.5 Notes to test centre

* This test script will continue to use the term “Usr.1.2” to refer to this user entity
* Ensure that you can include the Unicode “®” character (U+00AE) in accordance with **R2.4.28**

### 1.2.14.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.15 – Test Case

### 1.2.15.1 Test case description

**Create new users**

### 1.2.15.2 Test case preconditions

* **T1.2.14** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.14** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.15.3 Test case steps (instructions)

* Create a new user (Usr.1.3) under **R3.4.2** with the following metadata:
  + Set Title (**M14.4.104**) to “MoReq2010® Test User (Usr.1.3)”
  + Set Description (**M14.4.16**) to “User created during compliance testing”
* Create a new user (Usr.1.4) under **R3.4.2** with the following metadata:
  + Set Title (**M14.4.104**) to “MoReq2010® Test User (Usr.1.4)”
  + Set Description (**M14.4.16**) to “User created during testing”
* Create a new user (Usr.1.5) under **R3.4.2** with the following metadata:
  + Set Title (**M14.4.104**) to “MoReq2010® Test User (Usr.1.5)”
  + Set Description (**M14.4.16**) to “User created during module testing”

### 1.2.15.4 Test case post-conditions (expected result)

* The three new users have been created with metadata under **R3.4.1**
* The Title and Description for each user has been set in accordance with the data above

### 1.2.15.5 Notes to test centre

* The new users must also be given role **Rol.1.2** (see **Appendix 1.A: Test Data For Test Module 1**) or equivalent if the test system does not implement the model role service
* If the user and group service is a wrapper for an external directory service then this function may occur outside the test system (if so, then enquire how, and how frequently, the new users are propagated into the test system)
* This test script will use the terms “Usr.1.3”, “Usr.1.4” and “Usr.1.5” to refer to these user entities
* Note the time of completion of this test case before moving onto the next test case – it will be used to generate a report in a later test case **T1.2.24**

### 1.2.15.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.16 – Test Case

### 1.2.16.1 Test case description

**Add new users to groups**

### 1.2.16.2 Test case preconditions

* **T1.2.15** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.15** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.16.3 Test case steps (instructions)

* Add the users **Usr.1.3**, **Usr.1.4** and **Usr.1.5** to the group **Grp.1.2** under **R3.4.4**

### 1.2.16.4 Test case post-conditions (expected result)

* **Grp.1.2** is found
* The users **Usr.1.3**, **Usr.1.4** and **Usr.1.5** now belong to group **Grp.1.2**

### 1.2.16.5 Notes to test centre

* There may be multiple ways to add users to groups in the test system and it may be done externally to the test system if the user and group management is part of an external directory service
* Observe how the group the users are put into is found and linked to the users
* Also observe whether it is possible to add both users simultaneously or whether this has to be done separately
* Place observations in the remarks below
* Note the time of completion of this test case before moving onto the next test case – it will be used to generate a report in the later test cases **T1.2.24** and **T1.2.31**

### 1.2.16.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.17 – Test Case

### 1.2.17.1 Test case description

**Change the metadata of an existing group**

### 1.2.17.2 Test case preconditions

* **T1.2.16** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.16** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.17.3 Test case steps (instructions)

* Browse or search for the group **Grp.1.1**
* Inspect the metadata for group **Grp.1.1**, under **R3.4.14**
* Modify the metadata for **Group.1.1** under **R3.4.10**:
  + Change Title (**M14.4.104**) to “MoReq2010® Managers Group (Grp.1.1)”
  + Change Description (**M14.4.16**) to “Only place senior managers in this group”
* Add a comment “Changed during compliance testing” under **R2.4.18**

### 1.2.17.4 Test case post-conditions (expected result)

* **Grp.1.1** is found
* The metadata for **Grp.1.1** is the same as that listed under **R3.4.8**
* The Title and Description have been updated for **Grp.1.1**
* The comment has been accepted as part of the event generated by the changes to these metadata elements

### 1.2.17.5 Notes to test centre

* Depending on implementation this function may be done outside the test system as part of an external directory service (if so, then enquire how, and how frequently, modified group metadata are propagated into the test system)
* This test script will continue to use the term “Grp.1.1” to refer to this group entity

### 1.2.17.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.18 – Test Case

### 1.2.18.1 Test case description

**Create new groups**

### 1.2.18.2 Test case preconditions

* **T1.2.17** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.17** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.18.3 Test case steps (instructions)

* Create a new group (Grp.1.3) under **R3.4.9** with the following metadata:
  + Set Title (**M14.4.104**) to “MoReq2010® Test Group (Grp.1.3)”
  + Set Description (**M14.4.16**) to “Group created during compliance testing”
* Create a new group (Grp.1.4) under **R3.4.9** with the following metadata:
  + Set Title (**M14.4.104**) to “MoReq2010® Test Group (Grp.1.4)”
  + Set Description (**M14.4.16**) to “Group created during testing”

### 1.2.18.4 Test case post-conditions (expected result)

* The two new groups have been created with metadata under **R3.4.8**
* The Title and Description for each group has been set in accordance with the data above

### 1.2.18.5 Notes to test centre

* If the user and group service is a wrapper for an external directory service then this function may occur outside the test system (if so, then enquire how, and how frequently, the new groups are propagated into the test system)
* This test script will use the terms “Grp.1.3” and “Grp.1.4” to refer to these group entities

### 1.2.18.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.19 – Test Case

### 1.2.19.1 Test case description

**Add users to additional groups**

### 1.2.19.2 Test case preconditions

* **T1.2.18** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.18** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.19.3 Test case steps (instructions)

* Add the users **Usr.1.3** and **Usr.1.4** to the new group **Grp.1.3** (created in **T1.2.18**) under **R3.4.4**

### 1.2.19.4 Test case post-conditions (expected result)

* The users are added to the group
* The users are **not** removed from group **Grp.1.2**

### 1.2.19.5 Notes to test centre

Following this test case the users should now belong to both groups

### 1.2.19.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.20 – Test Case

### 1.2.20.1 Test case description

**Move a user from one group to another**

### 1.2.20.2 Test case preconditions

* **T1.2.19** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.19** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.20.3 Test case steps (instructions)

* Add the users **Usr.1.5** to the new group **Grp.1.3** (created in **T1.2.18**) under **R3.4.4**
* Remove (simultaneously if possible) user **Usr.1.5** from **Grp.1.2** under **R3.4.4**

### 1.2.20.4 Test case post-conditions (expected result)

* The user is added to group **Grp.1.3**
* The users is removed from group **Grp.1.2**

### 1.2.20.5 Notes to test centre

* Following this test case the user must only belong to group **Grp.1.3** and must no longer belong to **Grp.1.2**
* Some test systems may be able to facilitate moving a user from one group to another as a single operation
* Other test systems will need to add and remove under **R3.4.4**
* Note the time of completion of this test case before moving onto the next test case – it will be used to generate a report in a later test case **T1.2.24**

### 1.2.20.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.21 – Test Case

### 1.2.21.1 Test case description

**Log out, log on as a different user and test access rights to user and group entities**

### 1.2.21.2 Test case preconditions

* **T1.2.20** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.20** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.21.3 Test case steps (instructions)

* Log out of the test system as **Usr.1.1** under **R3.4.1**
* Log into the test system as **Usr.1.2** under **R3.4.1**
* Test and ensure that as **Usr.1.2** the following functions **can** be performed:
  + **Usr.1.2** can generate a compliance report (see **T1.2.2**)
  + **Usr.1.2** can browse services or bundles of services (see **T1.2.3**)
  + **Usr.1.2** can browse the event history of the user and group service (see **T1.2.5**)
  + **Usr.1.2** can find and inspect **Usr.1.1**, **Usr.1.2**, **Grp.1.1** and **Grp.1.2** (see **T1.2.6**)
  + **Usr.1.2** can browse the entity types in the user and group service (see **T1.2.7**)
  + **Usr.1.2** can browse the function definitions for an entity (see **T1.2.8**)
  + **Usr.1.2** can browse the function definitions for an entity (see **T1.2.8**)
  + **Usr.1.2** can inspect its own metadata (see **T1.2.12**)
* Test and ensure that as **Usr.1.1** the following functions **cannot** be performed:
  + **Usr.1.2** cannot modify the metadata of the user and group service (see **T1.2.4**)
  + **Usr.1.2** cannot modify the metadata of a function definition (see **T1.2.9**)
  + **Usr.1.2** cannot modify its own metadata (see **T1.2.13**)
  + **Usr.1.2** cannot modify another user’s metadata (see **T1.2.14**)
  + **Usr.1.2** cannot create new users (see **T1.2.15**)
  + **Usr.1.2** cannot add or remove users from groups (see **T1.2.16**, **T1.2.17**, **T1.2.19** and **T1.2.20**)
  + **Usr.1.2** cannot create new groups (see **T1.2.18**)

### 1.2.21.4 Test case post-conditions (expected result)

* The test system operator is logged in as **Usr.1.2**
* **Usr.1.2** is found to have different access rights to **Usr.1.1** in accordance with the test data in **Appendix 1.A**

### 1.2.21.5 Notes to test centre

* The access rights of **Usr.1.2** are different to those of **Usr.1.1** because they are given different roles in the test data in **Appendix 1.A**
* As a general rule, **Usr.1.1** is given read and write access to entities in the user and group service while **Usr.1.2** is given read only access to the same entities.

### 1.2.21.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.22 – Test Case

### 1.2.22.1 Test case description

**Browse the event history of a user**

### 1.2.22.2 Test case preconditions

* **T1.2.21** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.21** was completed
* The test operator is logged in as user **Usr.1.2**

### 1.2.22.3 Test case steps (instructions)

* Find or browse to user **Usr.1.2** (self) under **R3.4.14**
* Browse the event history of **Usr.1.2** under **R2.4.19**
* Inspect each “User – Inspect” (**F14.5.187**) event in the event history that has occurred during the testing session

### 1.2.22.4 Test case post-conditions (expected result)

* **Usr.1.2** can be found
* The event history of **Usr.1.2** can be browsed
* There have been no “User – Inspect” (**F14.5.187**) events added to the event history of **Usr.1.2** since event generation was turned off under **T1.2.9**

### 1.2.22.5 Notes to test centre

In other words:

* There **must** be an event in the event history for when **Usr.1.1** inspected **Usr.1.2** in **T1.2.6**
* There **must** **not** be an event in the event history for when **Usr.1.1** inspected **Usr.1.2** in **T1.2.14**
* There **must** **not** be an event in the event history for when **Usr.1.2** inspected **Usr.1.2** in **T1.21**

### 1.2.22.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.23 – Test Case

### 1.2.23.1 Test case description

**Inspect the event history of a group**

### 1.2.23.2 Test case preconditions

* **T1.2.22** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.22** was completed
* The test operator is logged in as user **Usr.1.2**

### 1.2.23.3 Test case steps (instructions)

* Find or browse to group **Grp.1.2** under **R3.4.14**
* Browse the event history of group **Grp.1.2** under **R2.4.19**

### 1.2.23.4 Test case post-conditions (expected result)

* Group **Grp.1.2** can be found
* The event history of group **Grp.1.2** can be browsed
* The event history of group **Grp.1.2** shows:
  + The addition of user **Usr.1.2** prior to testing
  + The addition of users **Usr.1.3**, **Usr.1.4** and **Usr.1.5** during **T1.2.16**
  + The removal of user **Usr.1.5** during **T1.2.20**

### 1.2.23.5 Notes to test centre

Under **R3.4.4** adding and removing users from groups must always generate an event – event generation cannot be turned off for these functions

### 1.2.23.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.24 – Test Case

### 1.2.24.1 Test case description

**Report group membership for a user**

### 1.2.24.2 Test case preconditions

* **T1.2.23** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.23** was completed
* The test operator is logged in as user **Usr.1.2**

### 1.2.24.3 Test case steps (instructions)

* Under **R3.4.7** generate a report on group membership for user **Usr.1.3**: immediately at the time of completion of **T1.2.15**
* Under **R3.4.7** generate a report on group membership for user **Usr.1.4**: immediately at the time of completion of **T1.2.16**
* Under **R3.4.7** generate a report on group membership for user **Usr.1.5**: immediately at the time of completion of **T1.2.20**

### 1.2.24.4 Test case post-conditions (expected result)

* Immediately upon completion of **T1.2.15**, user **Usr.1.3** belonged to no groups
* Immediately upon completion of **T1.2.16**, user **Usr.1.4** belonged to group **Grp.1.2**
* Immediately upon completion of **T1.2.20**, user **Usr.1.5** belonged to group **Grp.1.3**, but **not Grp.1.2**

### 1.2.24.5 Notes to test centre

* The test system may require that all users belong to at least one group – effectively an “All Users” group
* If this is the case then **Usr.1.3**, **Usr.1.4** and **Usr.1.5** will all belong to the “All Users” group **plus** any other groups they may belong to
* Place observations in remarks below

### 1.2.24.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.25 – Test Case

### 1.2.25.1 Test case description

**Delete a user**

### 1.2.25.2 Test case preconditions

* **T1.2.24** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.24** was completed
* The test operator is logged in as user **Usr.1.2**

### 1.2.25.3 Test case steps (instructions)

* Log out of the test system as **Usr.1.2** under **R3.4.1**
* Log into the test system as **Usr.1.1** under **R3.4.1**
* Find and delete user **Usr.1.5** under **R.3.4.5**

### 1.2.25.4 Test case post-conditions (expected result)

* The test system operator is now logged in as **Usr.1.1** (again)
* **Usr.1.5** was found and has subsequently been deleted
* There is no residual entity for **Usr.1.5**

### 1.2.25.5 Notes to test centre

* Under **R3.4.5** the user can be deleted (all trace removed from the system) because the user account has never been used to access the test system
* Under **R3.4.5** deleting a user may be an action that is performed externally to the test system

### 1.2.25.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.26 – Test Case

### 1.2.26.1 Test case description

**Delete a group**

### 1.2.26.2 Test case preconditions

* **T1.2.25** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.25** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.26.3 Test case steps (instructions)

* Find and delete group **Grp.1.4** under **R.3.4.11**

### 1.2.26.4 Test case post-conditions (expected result)

* **Grp.1.4** was found and has subsequently been deleted
* There is no residual entity for **Grp.1.4**

### 1.2.26.5 Notes to test centre

* Under **R3.4.11** the group can be deleted (all trace removed from the system) because no users have ever been added to the group
* Under **R3.4.11** deleting a group may be an action that is performed externally to the test system

### 1.2.26.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.27 – Test Case

### 1.2.27.1 Test case description

**Destroy a user**

### 1.2.27.2 Test case preconditions

* **T1.2.26** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.26** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.27.3 Test case steps (instructions)

* Find user **Usr.1.2** under **R3.4.14**
* Attempt to delete **Usr.1.2** under **R3.4.5**
* Destroy user **Usr.1.2** under **R3.4.6**

### 1.2.27.4 Test case post-conditions (expected result)

* **Usr.1.2** was found
* **Usr.1.2** could not be deleted
* **Usr.1.2** was destroyed and there is a residual entity for user **Usr.1.2**

### 1.2.27.5 Notes to test centre

* Under **R3.4.5** the user **Usr.1.2** cannot be deleted because this user has previously accessed the test system
* The user must be destroyed instead – leaving a residual user entity
* Under **R3.4.6** destroying a user may be an action that is performed externally to the test system

### 1.2.27.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.28 – Test Case

### 1.2.28.1 Test case description

**Inspect a residual user**

### 1.2.28.2 Test case preconditions

* **T1.2.27** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.27** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.28.3 Test case steps (instructions)

* Search for user **Usr.1.2** under **R10.4.1**
* Find the residual entity **Usr.1.2** by configuring the search to return residual entities under **R10.4.17**
* Inspect the metadata of the residual entity user **Usr.1.2**
* Attempt to modify the metadata of user **Usr.1.2**
* Attempt to add the residual user **Usr.1.2** to group **Grp.1.3**
* Attempt to remove the residual entity **Usr.1.2** from group **Grp.1.2**

### 1.2.28.4 Test case post-conditions (expected result)

* The residual entity **Usr.1.2** does not appear in search results unless residual entities are specified under **R10.4.7**
* The metadata of residual entity **Usr.1.2** cannot be modified under **R3.4.3**
* The residual user **Usr.1.2** can no longer be added to, or removed from, active groups

### 1.2.28.5 Notes to test centre

It is not possible to undertake these operations because the user is no longer active

### 1.2.28.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.29 – Test Case

### 1.2.29.1 Test case description

**Browse the event history of a residual user**

### 1.2.29.2 Test case preconditions

* **T1.2.28** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.28** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.29.3 Test case steps (instructions)

* Browse for user **Usr.1.2** under **R3.4.14** and confirm that it no longer appears when browsing
* Change the browsing parameters under **R2.4.22** such that residual entities are included and browse to **Usr.1.2**
* Browse the event history of residual entity user **Usr.1.2**
* Attempt to find a “User – Inspect” (**F14.5.187**) event in the event history of user **Usr.1.2**

### 1.2.29.4 Test case post-conditions (expected result)

* The residual entity **Usr.1.2** does not appear when browsing unless residual entities are specifically included under **R2.4.22**
* The event history of residual entity **Usr.1.2** no longer contains any “User – Inspect” (**F14.5.187**) events

### 1.2.29.5 Notes to test centre

* As previously discovered in **T1.2.22** there was previously an event in the event history of **Usr.1.2** for when **Usr.1.1** inspected **Usr.1.2** in **T1.2.6**
* However, this event has now been deleted when **Usr.1.2** was destroyed in **T1.2.27** because the Retain On Destruction Flag (**M14.4.88**) was cleared in **T1.2.9**

### 1.2.29.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.30 – Test Case

### 1.2.30.1 Test case description

**Destroy a group**

### 1.2.30.2 Test case preconditions

* **T1.2.29** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.29** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.30.3 Test case steps (instructions)

* Find group **Grp.1.2** under **R3.4.14**
* Attempt to delete **Grp.1.2** under **R3.4.11**
* Destroy group **Grp.1.2** under **R3.4.12**

### 1.2.30.4 Test case post-conditions (expected result)

* **Grp.1.2** was found
* **Grp.1.2** could not be deleted
* **Grp.1.2** was destroyed and there is a residual entity for group **Grp.1.2**

### 1.2.30.5 Notes to test centre

* Under **R3.4.11** the group **Grp.1.2** cannot be deleted because it has been used
* The group must be destroyed instead – leaving a residual group entity
* Under **R3.4.12** destroying a group may be an action that is performed externally to the test system

### 1.2.30.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.31 – Test Case

### 1.2.31.1 Test case description

**Report user membership of a group**

### 1.2.31.2 Test case preconditions

* **T1.2.30** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.30** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.31.3 Test case steps (instructions)

* Under **R3.4.13** generate a report on user membership for residual group **Grp.1.2** immediately at the start of testing this test module
* Under **R3.4.13** generate a report on user membership for residual group **Grp.1.2** immediately at the time of completion of **T1.2.16**
* Under **R3.4.13** generate a report on user membership for residual group **Grp.1.2** at the current time

### 1.2.31.4 Test case post-conditions (expected result)

* Immediately upon the start of testing, group **Grp.1.2** was active and had one active member: **Usr.1.2**
* Immediately upon completion of **T1.2.16**, group **Grp.1.2** was active and had four active members: **Usr.1.2**, **Usr.1.3**, **Usr.1.4** and **Usr.1.5**
* Right now the group **Grp.1.2** is residual and has two members: **Usr.1.2** (residual) and **Usr.1.3** (active)

### 1.2.31.5 Notes to test centre

Note that **R3.4.13** refers to any “nominated group” and is not confined to only groups that are currently active

### 1.2.31.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.32 – Test Case

### 1.2.32.1 Test case description

**Export user and group data**

### 1.2.32.2 Test case preconditions

* **T1.2.31** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.31** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.32.3 Test case steps (instructions)

* The user exports the users **Usr.1.1** and **Usr.1.2** under **R11.4.1** (excluding residual entities)
* The user exports the groups **Grp.1.1** and **Grp.1.2** under **R11.4.1**, including residual entities in accordance with **R11.4.2**
* The user exports the whole user and group service under **R11.4.1** (excluding residual entities)
* The text comment for each export under R11.4.5 should be: “Test case T1.2.x: export of *<name>*”

### 1.2.32.4 Test case post-conditions (expected result)

* Each of the three sets of exported data has its own universally unique export identifier, under **R11.4.4**
* Each of the three sets of exported data has the appropriate text comment, under **R11.4.5**
* The exported data for **Usr.1.1** matches that expected (\* see notes) under **R11.4.3**, **R11.4.6**, **R11.4.7** and **R11.4.9**
* The exported data for **Usr.1.2** matches that expected (\* see notes) under **R11.4.3**, **R11.4.6**, **R11.4.7** and **R11.4.9**
* The exported data for **Grp.1.1** matches that expected (\* see notes) under **R11.4.3**, **R11.4.6**, **R11.4.7** and **R11.4.9**
* The exported data for **Grp.1.2** matches that expected (\* see notes) under **R11.4.3**, **R11.4.6**, **R11.4.7** and **R11.4.9**
* The exported data forthe user and group service matches that expected (\* see notes) under **R11.4.3**, **R11.4.6**, **R11.4.7** and **R11.4.9**
* The export identifier and export comment can be found in the export event generated under **R11.4.10**, and stored in the event history of each entity exported
* The exported XML data is in Unicode, under **R2.4.28**
* All textual metadata elements in the exported XML data are accompanied by a language identifier, under **R2.4.28**
* All timestamps in the exported XML data are in the W3C XML dateTimeStamp format and include time zone information, under **R2.4.27**

### 1.2.32.5 Notes to test centre

* (\* see above) Definitive comparative test data is not yet available, as the test framework is in beta, and export data must currently be checked by hand
* To export multiple entities (such as **Usr.1.1** and **Usr.1.2** or **Grp.1.1** and **Grp.1.2**) the test system may allow the entities to be selected first and then an export initiated, or an export to be initiated followed by the selection of the entities (either is acceptable)
* Ensure that **Usr.1.1** and **Usr.1.2** are exported together within a single export, and not as two individual exports
* Ensure that **Grp.1.1** and **Grp.1.2** are exported together within a single export, and not as two individual exports

### 1.2.32.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.33 – Test Case

### 1.2.33.1 Test case description

**Final compliance check**

### 1.2.33.2 Test case preconditions

* **T1.2.32** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.32** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.33.3 Test case steps (instructions)

* Generate the compliance report for the test system (reference **R2.4.5**)

### 1.2.33.4 Test case post-conditions (expected result)

* The compliance report contains all of the information required by **R2.4.5**
* Specifically, the compliance report must show compliance with, at least:
  + **User and Group Service v1.x** (**cd532472-85b0-4c1c-82b4-5c8370b7d0e6**)
  + **Model Role Service v1.x (2f6d05c6-51e6-4a32-a7fc-c0a6883eb85b)**

**OR Native Role Service v1.x (d945dcd9-dc2d-491d-965a-11ce936d044b)**

* + **Model Metadata Service v1.x** (**a600f8d0-2d58-418e-bb41-211d1fd42350**)

**OR Native Metadata Service v1.x** (**66bf4419-d92f-4358-8506-7ee9c06abdcd**)

* + **Searching and Reporting v1.x** (**f09984a5-dd31-44d8-9607-22521667c78a**)
  + **Export Service v1.x** (**2777ab81-057e-4aa4-9595-69459ec2dc1e**)
  + **Graphical User Interface v1.x (0f9584e5-552a-4a79-a8ea-3c2801765255)**

**AND/OR Application Programming Interface (654633ec-8b17-4a3c-a483-436ee2bd506a)**

* The compliance report must use the UUIDs listed above, under **R2.4.23**

### 1.2.33.5 Notes to test centre

The compliance report should be identical to the compliance report generated by test case **T1.2.2**.

### 1.2.33.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

## T1.2.34 – Test Case

### 1.2.34.1 Test case description

**Final error check**

### 1.2.34.2 Test case preconditions

* **T1.2.33** has previously been completed successfully during the same test session
* The test system has not been reconfigured or restarted since **T1.2.33** was completed
* The test operator is logged in as user **Usr.1.1**

### 1.2.34.3 Test case steps (instructions)

* Log out of the test system
* Take a copy of the external error log, under **R2.4.7**

### 1.2.34.4 Test case post-conditions (expected result)

* Errors in the external error log must contain at least the information listed under **R2.4.7**

### 1.2.34.5 Notes to test centre

* Check which errors have occurred in the external error log since the start of the test module (compare against the external error log copy obtained under **T1.2.1**)
* Check whether there are have been any errors in this period generated by functions failing to perform under **R2.4.7**
* For any each error that has occurred the current user at the time the error occurred must have had access to the extended error information under **R2.4.8**
* Note that **R2.4.8** is not tested directly unless an error occurs during testing

### 1.2.34.6 Results

Test system operator for this test case

Result

🞏 Correct – result as expected

🞏 Incorrect – unexpected result or outcome

🞏 Incorrect – operation could not be initiated

🞏 Incorrect – crash, timeout or failed to finish for any reason

Observations

One or more of the test case steps…

🞏 …required more than one user action to complete (remark below)

🞏 …provided limited or no feedback to the user (remark below)

🞏 …was dependent on one or more previous user actions (remark below)

Additional remarks on observations

Macintosh HD:Users:jon:Documents:DLM Forum:DLM Foundation:Branding:Logos:MoReq logos:MoReq2010:MoReq2010_Reg:MoReq2010_Reg_pms.eps

# APPENDIX TO TEST MODULE 1

# 1.A Test data

The test system must be pre-loaded with at least the test data given here.

## 1.A.1 User and group service

### 1.A.1.1 User entities

| Title | Groups | Roles | Comment |
| --- | --- | --- | --- |
| **Usr.1.1** | * Grp.1.1 | **For Usr.1.1:**   * Rol.1.1 | Power user, member of group with read/write |
| **Usr.1.2** | * Grp.1.2 | **For Usr.1.2:**   * Rol.1.2 | Essential user, member of group with read only |

### 1.A.1.2 Group entities

| Title | Roles | Comment |
| --- | --- | --- |
| **Grp.1.1** | **For User and Group Service:**   * Rol.1.3 * Rol.1.5 * Rol.1.7 | Has read/write (inherited by all group members) |
| **Grp.1.2** | **For User and Group Service:**   * Rol.1.4 * Rol.1.6 * Rol.1.8 | Has read only (inherited by all group members) |

## 1.A.2 Role service

### 1.A.2.1 Role entities

| Title | Administrative? | Functions (access control) | Comment |
| --- | --- | --- | --- |
| **Rol.1.1** | No | * User – Browse Records Due For Disposal (**F14.5.178**) * User – Detailed Report (**F14.5.184**) * User – Export (**F14.5.185**) * User – Search (**F14.5.195**) * User – Summary Report (**F14.5.196**) | Power user |
| **Rol.1.2** | No | * User – Detailed Report (**F14.5.184**) * User – Search (**F14.5.195**) | Essential user |
| **Rol.1.3** | Yes | * Entity Type – Inspect (**F14.5.83**) * Entity Type – Inspect ACL (**F14.5.84**) * Entity Type – Inspect Event (**F14.5.85**) * Entity Type – Modify ACL (**F14.5.86**) * Function Definition – Inspect (**F14.5.87**) * Function Definition – Inspect ACL (**F14.5.88**) * Function Definition – Inspect Event (**F14.5.89**) * Function Definition – Modify ACL (**F14.5.91**) * Function Definition – Modify Event Generation (**F14.5.92**) * Function Definition – Modify Retain Event On Destruction (**F14.5.93**) * Service – Inspect (**F14.5.158**) * Service – Inspect ACL (**F14.5.159**) * Service – Inspect Event (**F14.5.160**) * Service – Modify ACL (**F14.5.161**) * Service – Modify Metadata (**F14.5.162**) * Service – Report Compliance (**F14.5.163**) | Read/write services |
| **Rol.1.4** | Yes | * Entity Type – Inspect (**F14.5.83**) * Entity Type – Inspect ACL (**F14.5.84**) * Entity Type – Inspect Event (**F14.5.85**) * Function Definition – Inspect (**F14.5.87**) * Function Definition – Inspect ACL (**F14.5.88**) * Function Definition – Inspect Event (**F14.5.89**) * Service – Inspect (**F14.5.158**) * Service – Inspect ACL (**F14.5.159**) * Service – Inspect Event (**F14.5.160**) * Service – Report Compliance (**F14.5.163**) | Read only services |
| **Rol.1.5** | Yes | * Group – Add Contextual Metadata (**F14.5.93**) * Group – Add User (**F14.5.94**) * Group – Create (**F14.5.95**) * Group – Delete (**F14.5.96**) * Group – Delete Residual Event (**F14.5.97**) * Group – Delete Residual Metadata (**F14.5.98**) * Group – Destroy (**F14.5.99**) * Group – Inspect (**F14.5.101**) * Group – Inspect ACL (**F14.5.102**) * Group – Inspect Event (**F14.5.103**) * Group – Modify ACL (**F14.5.104**) * Group – Modify Metadata (**F14.5.105**) * Group – Modify Originated Date/Time (**F14.5.106**) * Group – Remove User (**F14.5.107**) * Group – Report User Membership (**F14.5.108**) | Read/write groups |
| **Rol.1.6** | Yes | * Group – Inspect (**F14.5.101**) * Group – Inspect ACL (**F14.5.102**) * Group – Inspect Event (**F14.5.103**) * Group – Report User Membership (**F14.5.108**) | Read only groups |
| **Rol.1.7** | Yes | * User – Add Contextual Metadata (**F14.5.177**) * User – Create (**F14.5.179**) * User – Delete (**F14.5.180**) * User – Delete Residual Event (**F14.5.181**) * User – Delete Residual Metadata (**F14.5.182**) * User – Destroy (**F14.5.183**) * User – Inspect (**F14.5.187**) * User – Inspect ACL (**F14.5.188**) * User – Inspect Event (**F14.5.189**) * User – Modify ACL (**F14.5.190**) * User – Modify Metadata (**F14.5.191**) * User – Modify Originated Date/Time (**F14.5.192**) * User – Report Authorisation (**F14.5.193**) * User – Report Group Membership (**F14.5.194**) | Read/write users |
| **Rol.1.8** | Yes | * User – Inspect (**F14.5.187**) * User – Inspect ACL (**F14.5.188**) * User – Inspect Event (**F14.5.189**) * User – Report Authorisation (**F14.5.193**) * User – Report Group Membership (**F14.5.194**) | Read only users |