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Release Note for Test Center 11.0.701

Test Center 11.0.701 contains the following changes and enhancements:

Test Center

Client

In the options settings you can choose whether the TPA file handling should be done internally or via the standard browser.

Administration

Import and restore of workspaces with a size >2GB is again possible without errors (11840).

This bug fix also eliminates any errors that may have occurred in connection with large workspaces with the tools: DBEdit, DBAdmin, CheckVersion, CheckDB.

Release Note for Test Center 11.0.700

Test Center 11.0.700 contains the following changes and enhancements:

Test Center

Infrastructure

- All components of Test Center have now been created with the current development environment Visual Studio 2019. This means that all C++ components now run with VC runtime 142 and all .NET components at least with version 4.5.
- This then also affects all third-party components, which are now also available in the latest version, including:
 - the CORBA Middleware Orbix with the version 6.3.12
 - the used data base Fast Objects 14.0
 - and the licensing software FlexNet 11.18

Here the current license files with the version 11.18 can be used, if they are available as pure ANSI/ASCII files and do not contain any special characters, like umlauts or currency characters. It is also not allowed that special characters occur in comments. More details can be found in the installation documentation of the release. The FlexLM 11.18 service can also be used by older releases, so it is compatible.

Client

Replacement of the internal browser control based on Internet Explorer with an Edge (Chromium) based control.

Administration

- Import and restore of locked workspaces with TPA part is possible again without errors (16701)
- Many dialogs now have a minimum size that cannot be undercut (16702, 16705-16710)
- Sorting of workspaces by process number in the table is done lexicographically instead of numerically (16711)
- Filtering by name no longer works in the "Workspace environment" tab (16728)
- When editing existing extra menus in AdminClient, the OK button is not enabled correctly (16699)

- Confirmation dialogs for deleting and copying of many workspaces now display all selected elements as a list (16704)
- It is now possible to display currently running test executions, the so-called job control (16176).

PublicAPI

- Public API should allow setting the executing attribute for the executable elements of Planning & Control (16535)
- Allow backup of servers with TPA part (16630)
- Assign a data structure template to a data structure (16680)
- Allow access via OID for objects of type: ActionWord, DataStructure, ActionWordTemplate, DataStructureTemplate, TemplateFolder (16684)
- It is now possible to access the Public API via Python (Jython 2.7.2). (16639)

DBExport

Resolved deviations:

- Test results tab on test execution job: Moved dialog entries (16372)
- Infinite loop when exporting TestPrepPhases (16638)
- UDAs are not exported (16650)

Integration Defect Management with JIRA

- Integration JIRA: Using the internal browser to display JIRA pages. By using Chromium view in the client, displaying JIRA pages in the client is possible from 11.0.700 and also the recommended setting.
- If a defect cannot be created due to the work status of the test execution task, then there is a corresponding message and a recommendation. Affected are test execution tasks with work status canceled, postponed or planned. Until now, the corresponding message was only available for the status planned.

Test Process Automation

Enhancements and bug fixes

- Remote jobs and timestamps: preserving timestamps of files on remote jobs. (16623) Note: For existing projects, the preservelastmodified="true" attribute must be set for the following tasks for the change to take effect: <copy>, <move> <fixCrLf> <replace> and <ReplaceRegExp>.
- Plugin configuration is also possible for locked workspaces (16701)
- Dialog DTE user credentials allows regular expressions. In the DTE User credentials dialog, regular expressions can now be used for host as well as for domain and user. In particular, it is now possible to define a user ID for all hosts with a single entry by entering .* for Host, i.e. dot followed by asterisk. (16733)

Test Center Release Information 11.0.600

Test Center 11.0.600 includes the following changes and enhancements:

Test Center

Client

- Tab „*Test Results*“ for Test Execution Tasks: Dialog entries displayed shifted. (16372)

PublicAPI

- New methods allow the mdofocation and management of extra menus. (16364)

XML-Import

- Wrong import path leads to endless loop (16563):
The performance of the XML import has been significantly improved.
This also considerably shortens the XML import of a file containing individual incorrect objects. The impression of an endless loop no longer arises.
The XML import succeeds except for the incorrectly specified objects and outputs a corresponding error message at the end. For large imports, the process can still take several hours.

Test Process Automation

General

- Test execution: Improvement of the error message if the Action Word library or the test procedure is not set. Failure to set the Action Word library or test procedure on the test execution job will usually cause automated test execution to fail. The same applies to test sets and schemes. From now on you can see exactly from the message which test execution or scheme or test set is affected and which attribute still has to be set. (10877)
- Restarting the TPA service: improving stability. (16541)

DTE

- Remote parallel execution: The Task Server checks whether the next port number for the Task Agent is free or not instead of assigning it cyclically. If all ports for the Task Agents are occupied when DTE is started, DTE refuses to execute with an appropriate message. (16554)
- Remote execution: If a target computer cannot be reached or execution is no longer possible, this is now indicated by the message. (16581)

Integrations

- Continuous Integration: TPA Service runbatch delivers return code and message even after execution has been aborted via the Test Center Client. (15232)
- Delete extra menus when plug-ins are deactivated: If you deactivate a plugin, TPA will delete the plugin's extra menu group. Affected are the plugins for the integration with JIRA, Ranorex and TestComplete as well as the Plugin Dashboard. Other elements are left in case of accidental deactivation. (16558)
- Integration TestComplete: The Update Actionwords action is possible for a test suite with more than 10K keyword tests, no timeout. (16603)

Technical Updates

- Update of the CORBA middleware: The communication layer of the product has been updated with the updated version of the third-party product Orbix 6.3.11 and is therefore also suitable for the latest operating system versions.
- Taking over a workspace environment of major release 11 during the server installation (16301)

Test Center Release Information 11.0.502

Test Center 11.0.502 includes the following changes and enhancements:

Test Center

ManagementServer

- Troubleshooting session management. All information about the session is now cleanly deleted when logging out.
- Bug fixing: Transaction shells of persistent objects can hang during parallel logons. This gap has now been closed to prevent this from happening again.
- The management server now also recognizes when an API server terminates improperly and can correctly remove it from its process list, even in this case.
- Databases larger than 4 GB can now be restored or imported normally via the Admin Client. (16576)

Application Server

- By using a new stream class, a possibility of memory leaks is eliminated. This is especially useful for long running processes. (16610)

Administration

- The administration client now only reacts to incoming notifications every 5 seconds. This means that this client does not cause performance problems with mass requests and high server load when it must react to the large number of notifications. The value for this cycle time can be set to any value greater than one second using the *UpdateCycleTime* parameter when the client is started. The value is specified in milliseconds. Default: 5000, minimum: 1000. (16612)

Migration plugin Adminclient

- The migration of the management server database to release version 11.0.5 can now be done via the adminclient again. The migration plugin was adapted for this purpose. (16550)

MRT: Propagation Editor

- Starting processes are now created in the standard CORBA namespace, so you can now use the centrally available parameters (e.g.: PortRange, PublishedName, etc.). (16611)

Tool CheckVersion

- Failed GUI migration due to ambiguous database types: Adjustment of the version recognition so that the database versions of all previously released database types are made unique again. (16550)

Test Center Release Information 11.0.501

Test Center 11.0.501 includes the following changes and enhancements:

Test Process Automation

TPA Web Server

- Fixed bug 16541: The automatic start of the TPA Server service often fails after a server restart if the corresponding FlexLM service is set to delayed start. The service then hangs during shutdown and can no longer be started in the normal way. This will no longer happen, the shutdown will no longer hang. However, the FlexLM startup type should not be set to delayed start.

Test Center Release Information 11.0.500

As of release 11.0.500, SQS-TEST®/Professional Suite has a new name:

Expleo-Test/Professional.

SQS Editor is now **TPA Editor**.

Test Center 11.0.500 contains the following changes and enhancements:

Test Center

Client

- The update interval for the test execution overview is now configurable in the range from 1 to 60 seconds.

Administration

- Using the AdminClient you are now able to define extra menus for environments. The extra menus defined in an environment are available within all work areas belonging to that environment (16330).

Test Process Automation

TPA

- Action Word Incompatibility: Improved messages when using an Action Word in a test execution that is not compatible with the implementation. The corresponding Action Word, parameter, test case, step and test is specified in the error message. (14300)
- Remote execution, configuration of missing properties: The task <remotejob> checks if certain default properties are defined. In case one of these properties is missing, the test execution will be aborted. This can now be bypassed. (16496)
- TPA backups no longer contain null byte files. (16480)
- Schedules: It is no longer possible to specify a date in the past or with an incorrect format. The system correctly calculates and displays the next start time. (9954)
- No duplicated entries in the context menu for automation. (16065)

SQS-Editor / Notepad++

- Code Snippets for Notepad++: As an alternative to the TPA Editor (previously SQS Editor) we now offer a plugin for the freely available Notepad++. The plugin provides a number of useful code snippets that are often used in the environment of the TPA component. (16406)

Integration Abweichungsmanagement mit JIRA

- No additional Explorer window: The menu item "Edit Defect" directly opens the page for editing the issue in JIRA. (13736)

Test Center Release Information 11.0.401

Test Center 11.0.401 contains the following changes and enhancements:

Test Center

API Server

- Fixed bug when creating attachments with method `CreatePlainAttachmentBytes`.
- Dates for creation/modification are now correct when creating attachments.

Test Center Release Information 11.0.400

Test Center 11.0.400 contains the following changes and enhancements:

Test Center

Client

- In the quick evaluation of test execution orders, only the status of the open test results is changed at step level; the status of test results that have already been evaluated remains unchanged as far as possible (13857).
- Two weeks before the expiration of the Test Center license, a message is displayed to the user (16053).
- Using the context menu, you can include all test cases or tests of a test object in the coverage relationship of a requirement or remove them from it (4292).
- Extra menus can be defined for work areas, which are displayed depending on the selected object.
- If extra menus are embedded in submenus, these submenus are deactivated if they do not contain menu entries for the selected object type (14742).
- Themes of a test plan can be exported and subsequently supplemented by an import (2755).

PublicAPI

- New methods "CopyWorkspace" and "CopyWorkspaceWithTPA" for copying of workspaces. (16174)
- New methods "ExecuteTask" and "ExecuteTaskAsync" for execution of tasks with and without waiting. (13953)

MRT

- Only those source workspaces are displayed for which the logged in user has reading rights.
- Only those target workspaces are displayed for which the logged in user has all rights. (11463)

Test Process Automation

TPA

- Execution of the task `<remotejob>` as administrative task: The task `<remotejob>` intercepts missing properties. (13916)
- The name of the target computer is now recorded in every DTE Task Agent log file (16391).

SQSEditor

- The SQS editor does not lose any changes and does not block any editing. (13281 und 13755)

Test Center Release Information 11.0.303

Test Center 11.0.303 contains the following changes and enhancements:

Test Center

Test Center Client

- Clipboard content that are stored as attachments now get a timestamp from the insertion time.

Migration

- From now on, the creation and modification date are preset with the creation and modification date of the corresponding database object during migration.

CheckDB

- The display of the last modified object (-DetectLastChange) only displays time stamps between 1.1.1970 and the current time. Objects with invalid timestamps are ignored.

Test Center Release Information 11.0.302

Test Center 11.0.302 contains the following changes and enhancements:

Test Center

Test Center Client

- The time stamps are now correctly displayed in the list of attachments of the test results in the tab of a test execution job.
- The button displayed in the view bar when the integration manager "Defect" is activated can be hidden via an entry in the Windows registry.

Hiding this button is done via the registry key:

```
Computer\HKEY_CURRENT_USER\Software\SQS\SQS-TEST/Professional  
NL\11.0.1\DefectButton and the DWORD value Enable realized. 0 hides the button, 1 displays  
the button according to the previous conditions (IMD and TPA activated for the opened WS).
```

CheckDB

- Detects/Corrects unset creation/modification times of attachments.

Test Center Release Information 11.0.301

Test Center 11.0.301 contains the following changes and enhancements:

Test Center

Application Server

- Database errors in scope of missing CompressedBlobs are corrected automatically now.

Test Center Release Information 11.0.300

Test Center 11.0.300 contains the following changes and enhancements:

Test Center

Administration

- Configuration of workspace environments: Used parameters of a server no longer have to be modified manually, but can be edited directly via the graphical user interface (e.g. specification of a new license server or a new license file). (13796)
- Workspace administration:
 - The Administration Client can now be used to create or delete a TPA part for existing workspaces. (15710, 16232)
 - Consistent display of the current state of the environment when importing, restoring and deleting workspaces. (16178, 16179, 16180)
- TPA configuration: Automatic adaptation of the TPA configuration to LOCALSYSTEM when the user is removed via the AdminClient. (11447)
- More fixed bugs:
 - Resize layout problems fixed. (14713)
 - When deleted, databases will not be removed from the file system. (16277)
 - German resource revision. (16298)

Test Center Client

- Display of step test cases, which were deactivated for execution, in addition to the Test Design View now also available in the Planning & Control View as well as in the Requirements view (context menu of the workspace). (13888)
- New help-menu entry opens the selection of user manuals (SelectManual.htm). (13810)
- Parameter Mode "Input/Output" is now correctly adopted when creating templates from an Action Word instance. (2781)

XML-Import

- Enhancement of the import of extra menus for Test Execution Tasks (15641)

Test Log Editor

- Removed error message when saving TLOGs. (15735)
- Problems with the use of special characters fixed. (14167)

CheckDB

- New parameter *DetectLastChange* for *CheckDB* retrieves date and user of last database change (6355).

Test Process Automation

DTE

- The behaviour of the target computer component DTE no longer has to be configured manually in the call. The current settings can now be displayed and edited via a new graphical user interface. (16182)

TPA

- Deleting TPA parameters will now affect the TPA configuration. (16208)
- Revision of the TPA parameter management. (16206)

Java implementation

- The Java components of SQS-TEST®/Professional are now all created with OpenJDK.
- An Open Java Runtime (JRE) is delivered with this version and ensures error-free use of all product components.
- An additional installation of a JRE on the client computer is no longer necessary.

Test Center Release Information 11.0.200

Test Center 11.0.200 contains the following changes and enhancements:

Test Center

Client

- New dock view "Job Control" listing all Schemes, Test Cycles, Topics and Test Execution Tasks currently executed by TPA
- Steps of test case sequences can be disabled for execution (563). All disabled steps in a workspace can be listed and re-enabled in a result table.

Test Log Editor

- New toggle button in the toolbar to change the work status of Test Execution Tasks (finalised / in progress). The dialogue box when closing TLE is being omitted.

Public API

- New method "GetAllDisabledCalls" at the Workspace (ICWorkspace) for identifying all disabled steps in test case sequences
- New method "GetServerContexts" to retrieve available server contexts.
This functionality can be used without previous login only via the new COM-interface SQSTCAPI.

Installation

- Improved arrangement of documentation files (manuals, help files, tutorials)

Administration

- Improved handling of imports of workspaces containing a TPA part (import possible only where workspace language setting corresponding to TPA language setting)

Technical Updates

Integration Ranorex

- Now supporting Ranorex version 8.x.

Test Center Release Information 11.0.100

Test Center 11.0.100 contains the following changes and enhancements:

Test Center Client

- Short cuts can be defined for most menu items (5620).
- Test Execution Tasks are displayed on a separate tab for Tests.
- Reports for Test Execution Tasks:
 - attributes "Description of Test" and "Description of Test Case" were displayed only when not empty (12951).
 - Informations about the last execution can be selected (TPA execution), Start- and End-Time were displayed with date:hour:min (10725).
 - Filtering: In test filters it is now possible to filter for test execution tasks (1177).
 - In filters of types Test, Test Case, Requirement and Test Item it is now possible to filter for work tasks.

Test Log Editor

Importing, exporting and modifying manually executed Test Execution Tasks with Test Log Editor is significantly faster.

AdminClient

- When creating a new environment, a TPA environment can now be created directly.
- The TPA environment is also included when deleting an environment.
- All functions at the work area now include corresponding TPA work areas. This includes:
 - Create New: Here the available TPA templates are offered and also used when creating.
 - Copy: An existing TPA workspace is copied and, if necessary, renamed.
 - Import: If a TPA workspace exists in the import directory, it is also imported.
 - Restore: If a TPA workspace exists in the backup directory, it is also restored.
 - Save: If a TPA workspace is available, it can also be saved directly.
 - Delete: If a TPA workspace exists, it can also be deleted directly.
 - Edit: If a TPA workspace exists and the name is changed, it is also renamed.
- TPA configuration: Input of optional parameters in AdminClient no longer need Enter to be pressed for adoption (Issue 12800).

Test Process Automation

TPA

- The cancel button for jobs in the TPA Execution tab for test executions, test cycles, themes, test-sets and schemes, cancels now all subordinated jobs too. (Issue 6206)
- Document / Copy Link: Document link works even if the workspace is not open.
- Typo correction in the script *tparunbatch.js*. (Script example to illustrate the TPA service *runbatch*.)

TPA Server

Smarter caching of user information in the TPA server reduces the number of necessary server requests for parallel execution of automatic tests to a relevant degree and thus increases the possible throughput of tests.

DTE

Merge from 10.8.006.

Integration Defect Management with JIRA

- The SQSEditor is the configured editor for customizing the integration. (Bug 13967)
- Merge from 10.8.007.

Administration

- The Test Center Administration is now able to create new workspaces including Test Process Automation. All workspace templates are available there. (CR 9958)
- TPA runs all activated plugin configurations automatically for imported and for restored workspaces. No more configuration needed in that case. (Issue 9733)
- Now, you can set the workspace for Administrative Tasks <deleteoutdateditems> and <cleantestexecutionlogsatonce> (CR 10351). Deleting malformed archives is now possible too.

Test Center Release Information 11.0

Test Center 11.0 contains the following changes and enhancements:

Test Center

- Reporting: New external Report Viewer displaying reports and analyses. The previous limitation to a maximum of 5 reports opened simultaneously no longer exists.
- New enumeration type „editor“ (Issue 7295)
- Configurable layout management for displaying Test Results and Attachments (Issue 10112)
- New COM interface for PublicAPI supporting 64 bit Office programs. Workspaces can explicitly be restored, deleted and backed with this interface. This is the replacement for the previous COM interface (COMet), which will be dropped in later releases.
- New PublicAPI methods for Workspaces and Defects

Technical Updates

Third party components are updated to ensure the operability of SQS-TEST®/Professional for current and future windows operating systems and to close potential security gaps

Test Process Automation

TPA

- Bug fix: No compatibility view required for select dialog. (Directory, file or document selection dialog for export test system, backup workspace or document selection for schedules.)
- The `<exception>` task, in addition to the `<handler>` for handling `BuildExceptions`, also accepts the new task `<finally>`, which is executed in any case to simulate the *try-catch-finally* logic from Java.
- The `<postfix-global>`, `<postfix-test>`, and `<postfix-step>` tasks are executed in any case, even if an error occurs.
- Improved support for Continuous Integration with *tparunbatch.js*: The TPA service for the execution of test execution tasks provides the return code and the last message, similar to tab *Test Results* of the *Planning & Control* view as well as a link to the *Job Protocol*. The script `<install_path>\wl\<version>\tomcat\bin\tparunbatch.js` uses this service and is in fact an example of using that service (CR 10396, Issue 10394).
- Security: It is no longer necessary to unlock Java in the Web client: TPA does not use the Java plugin for IE anymore. (Issue 9762)
- SQSEditor is no longer loaded from the server and must be installed on the client side. The installation location can be selected freely, i.e. the previous restriction that SQSEditor must be installed in the same directory for all machines is omitted (issue 9760).
- Multi-language import of test systems: if the language of the source is different from the current language of the test system, the test system import already translates known elements and identifiers (Issue 838, CR 1215).
- Cross-project `DeleteOutdatedItemsEx` and `CleanTestExecutionLogsAtOnce` (Issue 10119). In addition, `CleanTestExecutionLogsAtOnce` can also delete archives that do not conform to the standard. Attribute `deletemalformed = "true"`.
- Running test execution tasks with `<remotejob>`:
 - Correction of the default value for the `FailOnError` attribute (`true`).
 - If the remote procedure contains coding errors, verbose messages are attached to the job log. (Issue 6085)

- The file `<jobDirectory>\Remote\<remoteTargetName>\all.properties` contains all properties from the remote execution.
- The logs from the target machine (if DTE is accessible) can also be found in the event of an error under `<jobDirectory>\Remote\<remoteTargetName>`.
- A DTE instance can operate TPA servers independently of the language (en/de).
- TPA intercepts initialisation errors more accurately than in previous versions (CR 6609).
- Task `<setstepresult>`: New, optional attribute `comment`.
- Task `<importstepresults>`: In addition to the status, a comment for the test step result can optionally be specified (Property `de.sqs.tpa.status.s${step.number}.comment`).
- When a test data function produces an error, then the error message also contains the step number, the test case name of the step and the test step. Thus, finding the source of the problem is now very easy.

DTE

- FIX: Parameter `-sequentialserver true` works again.
- The message notification is switched off by default.
- Technical change: There is a single, language-independent task Agent profile: `agent_all.xml`. DTE creates the profiles `agent.xml` and `agent_en.xml` at run time for compatibility reasons, but they are identical to `agent_all.xml`.

Configuration

- The editor can be configured with two values:
 - The value `[sqseditor]` is the recommended setting and enables editing with SQSEditor.
 - The value `[shortcut]` means each user defines the personal, preferred editor through the file links on the client. The relevant file extensions are: `*.xml; *.properties; *.txt; *.jsp _)`

Integration Ranorex

- The integration Ranorex can now handle Ranorex solutions that contain multiple projects.
- A description of the Ranorex modules and parameters is visible after an update in the action Word template.
- If the execution of a Ranorex step provides warnings, the corresponding test step result in Test Center retrieves a hint as a comment of the step.
- It is possible to change the target computer in a chain of test steps.
- It is possible to perform test steps that do not correspond to Ranorex modules and omit them in the Ranorex protocol. (Test steps with pure TPA action words.)

Integration Defect Management with JIRA

- SQS-TEST shows JIRA pages in external WEB-Browser, not in the Test Center Client. This ensures compatibility with JIRA in the Cloud. The menus *Open defect*, *Show defect* and *JIRA Defect Tracking* are concerned. You may change this behavior via configuration.
- The integration can read user defined fields from JIRA. (Fix for Bug 13469.) This contains all field types shown in the Standard Custom Fields creation mask from JIRA: free text, list, multi-selection, labels, 2-step cascading selection, user selection and a few others.

SQSEditor

Improved templates for tasks.

Test Center Release Information 10.8.007

Test Process Automation

Integration Defect Management with JIRA

Fix for Bug 14585: The integration supports defect creation with all JIRA system fields and all custom fields of following types: Checkboxes, Date Picker, Date Time Picker, Label, Number Field, Radio Buttons, Select List (with single choice), Select List (with multiple choice), Text Field (multi-line), Text Field (single-line), URL Field and User Picker (single user).

Test Center Release Information 10.8.006

Test Center 10.8.006 contains the following changes and enhancements:

Test Center

- Public Api Server, Bugfix: Create Attachments by Public Api Server.
- Test Log Editor:
 - Renaming of attachments is now possible.
 - 10.5 like locking of opened tlog files.

Test Process Automation

DTE

- DTE under SUN identifies correctly the platform, sparc or x86. (Bug 13824)
- DTE under Windows and under SUN: A previous Java installation is no more mandatory for remote job execution via DTE with user switch, i.e. it is not necessary at all.
- DTE under Windows runs a user switch even if the installation path contains a blanc. (Bug 14022)

Integration Defect Management with JIRA

Merge from 11.0.000.

Test Center Release Information 10.8.005

Test Center 10.8.005 contains the following changes and enhancements:

Test Center

Client Bugfix: Date UDAs from a result table will be now exported correctly to an Excel sheet.

Test Process Automation

- Bug fix: No compatibility view needed for select dialog. (Directory, file or document selection dialog for export test system, backup workspace or document selection for schedules.)
- New documentation paragraphs:
 - TPA Reference: how to solve name collisions. How to write your own task. Amongst others.
 - Test Process Automation Administration: Global Plugin Configuration
- Global TPA plugin configuration extension: You may suppress UDA creation via test system configuration.
- SQS-Editor Fix: Issue 7058: Wrong path representation.
- Protocol optimization for test execution: TPA writes tpalog.xml at the end of run only.

Test Center Release Information 10.8.004

Test Center 10.8.004 contains the following changes and enhancements:

Test Center

Applicationserver

Bugfixing in the area of client Transactions:

Pure CORBA calls like '_is_a' get an different handling during a client transaction.

APIServer

Bugfix for DeleteTrialExecution:

If the logged in User has no privilege to delete the trial execution, the exception includes an error text. You can access this text as shown in this example (you should do this for all IAPIExceptions !):

```
catch (IAPIException e)
{
    String err = e.Text;
    System.out.println("Error=" + err + "number:" + e.Number);
}
```

Result:

```
Error=Could not delete TrialExecution (NoPrivilege)number:10099
```

Client

The description text font size for imported objects (imported by XML, public API or TPA) are set to 10pt.

AdminClient

The rights to edit and/or delete the port ranges of an environment is now restricted to local admins and admins of a single environment. After the creation of an environment there will be a hint, how to activate TPA also for this environment, if it is available.

Test Process Automation

TPA

- Task <importxmlfile>:
 - The task accepts GZIP-format packed input files. If the input is not packet, the task pack it before import. The max size of input file passing import increases in factor 31 therefore.
 - Error message improvement for the case, the XML input file contains errors.
- Task <formatnumber>:
 - The task and the test data function processes almost arbitrary big numbers. (More than 17 digits allowed.)
 - The corresponding test data function accepts, as the task do, a country (locale) as an optional parameter: =formatnummer(<VALUE>,<FORMAT>[,<LOCALE>])
- Task <importteststepresults/>:
 - The import do not stop, if results for some steps are missing.
 - Documentation and messages improvements.
- Compare protocols line number start with one instead of zero.

Automation tool integration

The documentation for the integration interface for automation tools is now available. (German version only.)

Test Center Release Information 10.8.003

Test Center 10.8.003 contains the following changes and enhancements:

Test Center

Managementserver

- Using ServiceUser and ServicePassword in the TPA configuration can lead to a server crash initiated by the start of the Adminclient after a restart of an environment. This bug is fixed now.
- Calling persistent objects at Application- and Managementserver handle the elementary CORBA requests like '_is_a', '_narrow',... in a special way to prevent the processes from deadlocks and increase performance.

Client

- Language specific bugfixing at some dialogs (3083).
- Parameter ForceRequest will be logged in the client log (8347)
- Optimized layout management in test execution view (10112).
- Last chosen object type will be restored in the search dialog after client restart(10348).

AdminClient

Fixed bug of reacting wrong to updates in tab User Administration.

Test Log Editor

Selecting the first attachment of a testcase now works (7510).

Test Process Automation

DTE and TPA

Language independent remote procedures: The imports agent_en.xml and agent.xml may be replaced by agent_all.xml. You may develop language independent test systems in that way.

Integration Defect Management

Defect creation is possible, even if defect fields in defect management tool contain non-ASCII characters.

Test data

The task <sql> may use UCanAccess as JDBC driver and is therefore still runnable. Attributes:
driver="net.ucanaccess.jdbc.UcanaccessDriver" url="jdbc:ucanaccess://file".

Test Center Release Information 10.8.002

Test Center 10.8.002 contains the following changes and enhancements:

Test Center

Client

Changes adopted from version 10.7.003

Administration

Modified hint, when workspace environment stops

Application Server

Action Word or Data Structure templates can be deleted, also when using Test Cases are locked.

Test Process Automation

Ranorex Integration

The integration supports Ranorex Versions 6.0 and 5.4.3 as well.

DTE

Unknown or misspelled parameters are shown in the detail dialog and in stdout.

Miscellaneous

Merge from 10.7.003.

Test Center Release Information 10.8.001

Test Center 10.8.001 contains the following changes and enhancements:

Test Center

- Bugfix: temporary files, during the use of AdminClient, will be also deleted now in the case of error.
- The attribute "Author" will be shown sorted in the dynamic filter dialog (Issue 8221).

Test Process Automation

DTE

- Displaying Messages: If an error during startup occurs (port number is in use, for example) and DTE should show the user interface (Parameter -ui yes or omitted), then DTE shows an error message dialog. The dialog is system-modal. Therefore it is hard to overlook the arising problem.
- Program argument processing extension: Identical behavior as TestCenter applications.
- Bugfix: Hanger on exit under Windows 7 32-bit fixed.

Test Center Release Information 10.8.000

Test Center 10.8.000 contains the following changes and enhancements:

Test Center

General changes and extensions

- You can also associate requirements with each other. This enables you to relate requirements which belong to each other, e. g. when working with business processes. You will find the new tab "Used Requirements" with selected requirements. To analyse requirement relations you can use system filter, filter definitions as well as reports.
- Result table contents can now be exported directly to Excel or HTML file (Issue 2591).
- Comment of test result can be displayed in test execution task tables (3870).
- The workspace selection dialog shown the workspaces sorted by name (Issue 4956).
- Main tabs can be closed by context menu (Issue 6562)

Various bug fixes

- Some error messages contains user and password (Issue 4314).
- Corrected link to the Administration.pdf (Issue 6408).
- Bug fixing at the password check routine (Issue 8305).
- CREATEUPDATE available for linked attachments (Issue 8716).
- The splash screen will be shown direct (Issue 8731).
- The client will be restarted directly, if the server connection is lost (Issue 8732).
- Test execution tasks with deep step hierarchies can be reported (Issue 9264).
- Fixed sorting error with the number of logged in users (Issue 8309).

Administration

- Significantly enhanced configuration and maintainability with automated workspaces in Administration - this regards to those workspaces that include a TPA part.
 - Automated workspaces can be saved and restored in Administration. (5184)
 - Importing automated workspaces with their TPA part is possible.
 - You can reconnect automated workspaces to their TPA part.
 - Automated workspaces are being highlighted in blue colour on tab "Workspaces".
 - When deleting automated workspaces, you can select to also delete their TPA part.

Test Process Automation

TPA

- Workspace wizards renamed: now the name indicates for which purpose or integration the workspace is configured and if the wizard sets up an initial system or contains a functional sample solution.
- The Action Word Comment Headers in Action Words remain even after the generation of action word libraries. (Issue 6199)
- Menu for task documentation: The TPA reference can also be called up via the TPA interface under the menu *Extras >> TPA Reference*.
- The TPA documentation is already available with the installation of the Test Center Client. Thus, the TPA documentation is available locally to every user.
- TPA checks activation of JavaScript. (Issue 8253)
- New task `<actionwordlibraries/>` to import all action word libraries from a folder. The folder can also stem from a different workspace. The number of action word libraries can be influenced by regular expressions.

- Extension of task `<importteststepresults>`. Furthermore, this task belongs to testcenter plugin.
- Credentials are no more shown in error messages. (Issue 4314)
- Short name limited to 8 characters for all wizards to set up a workspace.
- Documentation revising. (Issue 3269)

Technical extension: Integration interface for automation tools

TPA offers a new integration interface for automation tools in SQS-TEST®/Professional. The interface consists of a Web-Service for Action Word Template update in Test Center as well as Action Word Library update in TPA and of a standardized way to create workspace assistants.

New Ranorex integration (Issue 4704)

- Detailed tutorial on how to use the integration.
- Two new workspace assistances are available for the integration with Ranorex in TPA:
 - Automation with Ranorex (sample solution): fully operative sample solution of the tutorial.
 - Automation with Ranorex: initial system for the integration with Ranorex.
- A Ranorex add-on allows the creation and update of action word templates in Test Center and action word libraries in TPA from Ranorex. (The Ranorex add-on uses the web service interface for automation tool integration mentioned above.)
- An included Ranorex project contains modules for the automation of different interface elements (buttons, dropdown lists, tables, etc.) as well as user code for value extract and transfer from the application under test to the test design in the Test Center.

Administration and Configuration

- It is possible to safe, restore and delete workspaces and the configuration of all test systems consistently via the Administration of Test Center. (Issue 6500) In addition to that, the configuration of the test systems is possible via a web service. Thus, all existing TPA test systems can be configured by scripting. (Issue 5184)
- New administrative task *hard drive space checker*.
- The administrative task *Job Maintenance* deletes orphaned directories (name equals an OID for which no object exists in the workspace anymore) and now includes a check only, but do not delete button.
- In the configuration for the integration with Ranorex or with TestComplete, you can adopt version and server independent default values with a click. This is helpful for migration purposes or when correcting a false configuration.

Integration Defect Management

Improved logging: analogous to the detailed job log of a test execution, the detailed information of operations in the integration with JIRA can be displayed with the menu *Document >> update log or Job >> execution log*.

Test Center Release Information 10.7.003

Test Center 10.7.003 contains the following changes and enhancements:

Test Center

Display a message dialog, if a request to TPA returns a HTTP status different from 200, i.e. OK. (10077)

Test Process Automation

- If a test execution runs after a workspace switch occurs while a job is still running, the user receives a prompt to restart the client or to start another client. (Issue 10077)
- Cleanup in session management.

Test Center Release Information 10.7.002

Test Center 10.7.002 contains the following changes and enhancements:

Test Center

- Enumerations in dynamic filter will be displayed sorted in edit mode (5141).
- First input field is focused in the dynamic filter dialog (8391).
- Bug fixing at configurability of folder, action word- and data structure template views.
- Public API enhancement: Access to the OID of trial execution object via generic interface.

Test Center Release Information 10.7.001

Test Center 10.7.001 contains the following changes and enhancements:

Test Center

- Filter EnumUDA changed from sValue to eValue. No error, if EnumUDAs will be renamed.
- Bug fixing in the area of changing between workspaces.

Administration

- Bug fixing in the area of creating a user for the tomcat service.
- Bug fixing in the area of workspace synchronisation.

Test Process Automation

Restore Workspace: File coding fix.

Test Center Release Information 10.7.000

Test Center 10.7.000 contains the following changes and enhancements:

Test Center

General

- When comparing objects you can save the object comparison in ASCII format or RTF text to analyse the object's information further with external diff tools (6566).
- Requirements now have to be covered by test cases and tests clearly being allocated to a test item. As a result creating test cases and tests directly under requirements became obsolete. Clear allocation improves user guidance and makes it easier to manage test cases and tests.
- You can copy the snapshot's text by shortcut Ctrl + C (8333).

User interface improved

- Scalable dialogue windows to e.g. view large description fields more easily
- More distinguishable icons for test case, test, test item, and folder, in particular to differentiate them when combining test case sequences
- Test case path will be displayed in specification table for a better overview (1756).

Planning & Control improved

- You can edit test execution tasks in Working Set (3771).
- You can filter test execution tasks by execution mode (5667).

Administration

- New setting for workspaces, which enables you to select, whether you want to work with schemes or test schedules or both in view Planning & Control. Depending on your setting the related functions are being displayed or being hidden in Test Center.
- When setting user rights for a workspace you can activate or deactivate a right for all users of your workspace environment at the same time (6452).

Test Process Automation

TPA

- You can configure TPA completely in the Test Center Administration.
- A selective test execution task run for a test package depending on quality status is now possible because improvements for task `<getorder/>`.
- Tasks from testcenter plugin reading Test Center attributes, `<getorder/>`, `<getexecutionphase/>`, `<getdefect/>`, `<getscheme/>`, for example, accept attribute names in both languages, German and English, independently of TPA server language.
- A license for test data management plugin is no more needed for task `<xmlimport/>`. In addition: SQS-Editor has a corresponding task template.
- TPA skips the creation of final protocol, `Follow-Up Settings.html`, when property `de.sqs.tpa.config.protocol.endproperties` has value `false`. This extension is useful for test executions with many steps.
- It is not necessary to unlock edited documents for re-edit them.
- TPA Reference: improved documentation of numerous tasks.
- Bugfix Test data function `<formatdate/>`.

DTE

- The DTE-process shows itself either as symbol of the taskbar or as a dialogue.
- If the DTE-process displays itself as an icon, then DTE shows all messages as taskbar short info.
- If the DTE-process displays itself as a dialog, DTE shows following details: Parameters, last messages, values of the runtime environment.
- DTE shows in both cases the port number and the last message.

Administration

- Save and restore workspace: Optimized procedure and improved logging. In addition: The results dialog does not show the protocol itself, but the location of the logs, because this is in general very extensive for a dialog.
- When you create a new workspace for TPA, the Workspace Assistant creates documents and scheduler entries for administrative tasks automatically.
- Maintain archive and maintain jobs: Options are simplified. Both display the result as a download link.
- If you delete the TPA part of a workspace, then TPA also clears menu entries for TPA in Test Center and disables the Automation view. The same applies to the Integration Defect Management JIRA and all other workspaces possessing a TPA part.
- Extension of the documentation Test Process Automation - Administration.
- The Workspace assistant "Automation (TestComplete)" provides a well-defined default value for TestComplete suites directory.

Installation

- The installation asks explicitly the language for TPA.
- A Quick-Install Guide for TPA is now available.

Technical Changes

- The TPA user interface is adjusted to the current browser, no compatibility mode required.
- TPA-Server initialization protocol improvement.
- Improving the session handling and licensing.
- Configuration files `ppm.xml` and `server.xml` do not contain clear-text password of technical user.

Test Center Release Information 10.6.003

Test Center 10.6.003 contains the following changes and enhancements:

Bug fixing for reports (SUN) start and end dates corrected

Test Center Release Information 10.6.002

Test Center 10.6.002 contains the following changes and enhancements:

- Internal interface enhanced regarding SQS-TEST® | Qallisto
- Extended support for automated tests in Test Center by creating additional shortcuts
- Controlling an external import with XML Import adjusted

Test Center Release Information 10.6.001

Test Center 10.6.001 contains the following changes and enhancements:

Test Center

- Local Tests can be displayed in the Test selection dialog and assign to Test Items.
- The Test Case context menu contains the menu item "Select Test...".
- Bug fixing in the copy routine for Test Cases / Tests with Attachments.
- Bug fix at copying of data structure or action word parameters.

Administration

- Bug fixing in the area of creation from workspace environments
- Bug fixing in the area of removing and creating of allowed processes

Test Process Automation

The new document types „Maintain Archives“ and „Maintain Jobs“ replace “Maintain Repositories”. Those implement optimizations for orphaned archive and old jobs clean up.

Test Center Release Information 10.6.000

Test Center 10.6.000 contains the following changes and enhancements:

Test Center

Test Execution significantly optimised

- If no editor has yet been assigned for a test execution task when it is being executed, the currently logged in Test Center user will automatically be assigned as editor. (378)
- When executing test execution tasks manually and directly in the Test Center, a time stamp including date and user name will be added to the comment field of the test result.
- You can analyse your current project status also for test execution topics. These new analyses are Test Execution Topic Work Status and Test Execution Topic Quality Status. (190)
- When calling "My Tasks" you can also choose to include user group tasks. (1105)
- You can now assess, when the test execution task's work status has been changed for the last time. You can find the new attribute "Work Status Date Changed" in the test execution task's filter definition as well as in result tables (initially you will have to set this attribute in the table settings to visible.) (905)
- Test execution and work tasks as well as schemes and test sets may be edited in the Working Set.

Working with test sequences much more comfortable

- Finding and changing a single test in a test sequence is more easy now. When selecting a different test for a test sequence the test's specification is being displayed as additional information. Also you can see all tests of the selected test case and you can filter this list. You can use regular expressions.
- If a test case is dragged by drag and drop from dock view Test Design to line Steps in the specification table, the test case will not only be added as a test case step, but will receive a new (empty test step) as a new default - instead of the default test of the test case.
- Local and re-used steps are visualised differently to distinguish them more easily. A local test case step or test step respectively does not have a link symbol – contrary to a re-used test case step or test step respectively.

User interface optimised

- To find the element you are looking for more quickly, additional information is being displayed in tooltips when using dock views or selection dialogues - this information may be e.g. the element's description or ID. You can activate or deactivate this option in Options respectively. (1765)
- You can reset all dock views to restore their initial condition.
- To ensure a better overview, a few less frequently used icons were deleted from the Explorer tool bar. You can still find these functions in menu Edit or in appropriate context menus or by keyboard shortcuts respectively. Following functions are affected: Show objects in Working Set, Search object, Create report, Open Explorer
- Additionally the Explorer icon bar has been divided into two icon groups - the first one New helps you to create new Planning & Control view elements, the second one Execution enables you to assess test execution tasks directly in the Test Center.
- Print preview has been deleted.
- In Snapshot, test cases and tests are displayed more compactly.

Export workspace data to use for external analysis (186)

The new program DBExport exports raw data from a Test Center workspace to edit and analyse the data with other programs. You will find further information in manual DatabaseAdministration.pdf.

Bug fixes and technical updates

- Initial values of data structure and action word templates will only be transferred for new parameters, when synchronising data structures or action words with their templates.
- When reusing test execution tasks, test locations will be adopted as well, if they exist.
- Links may be added to tab Attachments & Links, if they link to the same file name, but are saved in a different directory. (1178)
- Integration Defect Management JIRA has been updated to JIRA interface REST for JIRA versions 5 and 6. (608)

Administration

- New option when creating workspaces enables you to set in the Administration, if Log Steps should be set when creating a new test set or scheme initially.
- Another new option when creating workspaces defines, if test cases will be deleted, even when references to requirements (coverage) still exist.
- You can now distinguish the Administration from other Java applications in the Task Manager (Windows) by the PID (Process Identifier). You find this number in the About tab (first line, next to version number, in brackets.) (1110)
- For each Application Server (workspace) a separate XML and PublicAPI Server is provided to simplify working with several workspaces parallelly. (664)

Test Log Editor

- Extensive user interface changes to simplify working with the Test Log Editor.
- Every Test Log will be opened in a separate window.
- The Test Log Editor displays, if a connection to the Test Center exists or if you are working offline.

Resolved Issues

186, 190, 378, 468, 558, 573, 608, 664, 905, 1105, 1110, 1178, 1339, 1703, 1753, 1765, 2434, 2602, 3269, 3863, 4103, 4222

For further information please contact our support.

Test Process Automation

TPA

- Assistant “Automation (Ranorex)” allows an integration with Ranorex.
- The Tasks `<startcriticalsection/>` and `<endcriticalsection/>` protect resource-intensive operations against multiple parallel call.
- The detailed execution log contains the end time of execution.
- Running in Batch: Running a test set lying directly below a test cycle is now in batch possible.
- SQSEditor supports a setting to determine the language of its graphical interface and the language of help contents regardless of environment language.
In particular: Configuring `[sqseeditor] -language en` for Text editor in Test System Configuration cause SQSEditor always to start in English.
- The documentation in English is now available.

DTE

Technical change in socket communication: Attribute keep alive is now set.

Test Data Management

Bug fix for fields of type TIMESTAMP containing both, date and time.

Integration Defect Tracking tools with JIRA

- Technical redesign: Integration uses JIRA REST interface. Therefore is in particular now possible to read field Labels from JIRA.
- Missing properties needed to show attributes from JIRA in Test Center are now implemented.

Test Center Release Information 10.5.006

Test Center 10.5.006 contains the following changes and enhancements:

- Bug fixing in the copy routine for Test Cases/ Tests with Attachments.
- Bug fix at copying of data structure or action word parameters.

Test Center Release Information 10.5.005

Test Center 10.5.005 contains the following changes and enhancements:

Test Center

License Manager, Management Server

Bug fix for startup in the correct order, if using 64 bit systems

Administration

- Bug fix for detecting local systems when using SUN
- Bug fix for displaying correct source and target path in Migration tab

APIServer

Methods GetShortName, GetOwnID, GetDescription and GetCreator are now offline available.

Test Center Client

Editor list will be sorted in alphabetical order, when edited

Test Log Editor

Bug fix for displaying OLE attachments (cannot be opened)

Test Process Automation

Fix for plugins external and testcenter avoiding loss of configuration settings.

Test Center Release Information 10.5.004

Test Center 10.5.004 contains the following changes and enhancements:

Test Center

License Manager

Bug fix in licensing mechanism.

Test Process Automation

- Optimizing for executions containing many steps in case switch Log Steps is off.
- It is now possible to create result comparison reports showing all Blanks included in compared files.
- Final processing bug fix impacting test executions containing many structures.

Test Center Release Information 10.5.003

Test Center 10.5.003 contains the following changes and enhancements:

Test Center

AdminClient

Creating new environments is now also possible in installation path with blanks and round brackets.

Automated startup after a system reboot

- On 64 bit operating systems you could have had trouble, if the license manager was called to early. In case of failure you was not able to logon to the running environment. You have manually to stop and restart this environment that you can continue your work. This problem was eliminated with this patch.

ApplicationServer

- Bug fix concerning generating object IDs for Test Execution Tasks.
- Corrupt objects, where an attempt was made to access objects, that has been deleted or has not been stored, can be deleted without checking any references.
- Synchronization changed for data structure & action word templates. For newly added parameters in the template, the initial values are taken in the match. For existing parameters, the initial values are not accepted.

ApplicationServer/Client

Bugfix was made by automated deleting of defects. Defects will only be deleted, if no more test will be referenced.

Client

- Resolved bug occurring in Work Tasks table when re-sorting columns
- "Reset Dock View" now resets destroyed dock views (which are no longer available) in addition to invisible / hidden dock views. These dock views are being minimised and displayed as tabs left and right of the main frame's margin.
- Time stamp may be added to the task description, when execute a manual test execution task.

DBEdit

New command: GenerateTaskIDs (-Command GenerateTaskIDs) generates new Objekt-IDs for all tasks (work- and testexecutiontasks)

PublicApiServer

New textdump for log "CObjectManager::~CObjectManager deleting <number> objects from cache"

Test Process Automation

Integration Defect Tracking Tools

- Interface invisible administrator password is also not included in source code of JIRA configuration website dialog.

Test Center Release Information 10.5.002

Test Center 10.5.002 contains the following changes and enhancements:

Test Center

General

- Bug fix in the workspace selection dialog.
- The automatic logout functionality can be activated by a key in HKEY_LOCAL_MACHINE. This may overwrite user specific settings.
Key HKEY_LOCAL_MACHINE\SOFTWARE\SQS\SQS-TEST/Professional NL\UserInactivity
DWORD AfterMinutes
DWORD ExitAppAfterInactivity 1 activate the automatic logout.

Client

A new menu item "Reset Dock View" has been inserted under main menu "View". In case of selection, all active dock views are being minimised and displayed as tabs left and right of the main frame's margin.

Test Process Automation

DTE

- New parameters for use in restrictive environments.
- Improvements in process / thread management and socket communication.
- Improved logging.

Test Center Release Information 10.5.001

Test Center 10.5.001 contains the following changes and enhancements:

Test Center

MRT

Bug fixes from 10.4.007 adopted:

- Application Server bug fixed. Caused MRT Configurator to run in an endless loop when trying to synchronise missing enumeration type attributes
- Application Server bug fixed. Prevented MRT Configurator from synchronising locked tests
- MRT Configurator message changed for multiple referenced test cases

Administration

Bug fix regarding file dialog when handling UNIX paths

Test Process Automation

New SQSEditor and TPA-Applet manifest entries following new Java 1.7.0_45 security requirements.

Test Center Release Information 10.5.000

Test Center 10.5.000 contains the following changes and enhancements:

Test Center

Trial execution directly from the view [Test Design](#)

Tests can be directly trial executed in the Test Design to check used parameters. For this it is no longer necessary to define a test schedule or scheme in the view Planning & Control. Especially for automated test execution and debugging purposes this is extremely helpful.

Optimised manual test execution

- In order to optimise the work with multi-branched test scenarios, test results including test result steps will always be initialised with the post condition status N/A, when executed. This has the effect that the test result receives the quality status Passed, even if the test result itself is not assessed with a quality status.
- Test results may be assessed at schemes, too.

Capture note for elements

From now on, you can capture changes, flags or other comments in the form of Notes and thus understand its development at a glance. This is possible in the views Requirements, Test Design and Templates The notes are saved including time stamp and user information permanently on the respective element.

New analysis for test items and requirements

- You can check the quality status and number of test execution tasks whose assigned tests belong to a test item. You find these new analyses "Test Results of Test Items" and "Test Results of Requirement Compliances" at test items and requirements or their folders respectively.
- Analysis regarding test items and requirements also include sub-test items or sub-requirements respectively.

Optimised usability

- With the introduction of the new Explorer tab bar you can switch between the opened Explorers back and forth. You can embed the Explorer tab bar at various points and create greater clarity in everyday work.
- If you add several topics to your topic directory you can set more easily which topics are valid for test preparation or test execution respectively. Choose Select All or Deselect All in the context menu of the appropriate column.
- Optimised use of test execution tasks: you can display test sets in test execution task tables; and you can sort test execution task filter definitions by test schedule, test execution or test set

Multi-Release-Testing optimised

When synchronising test cased re-used steps are no longer included. This prevents that often re-used test case steps are synchronised in other test cases.

XML-Import enhanced

- Initial values of data structure and action word templates and their parameters may be imported
- Re-used test steps may be imported
- Optimised error log and stability
- Compressed XML files may be used when in gz format

Integration Defect Management

Jira version 5.2 is now supported

Test Process Automation

TPA

- The task `<clearpropertiesbyregexp/>` unset all properties whose names matches a given regular expression.
- For every action-word parameter a property `${<PARAMETER>.mode}` is set with the mode of the parameter (Input,Output,Input/Output).
- The task `<compareresults/>` allows to use a fixed size char family to be used in comparison protocols. Set attribute `fixedcharsize="true"` to use this.
- When executing tests in a trial execution the property `${order.istrialexecution}` is set to `,true'`.
- Math operations handle big values of type "long" correctly. Operations Add, Sub, Mod and Mult use type "long", if attribute "type" is not set.
- Document update (for example, raw data export) can now be started by calling a link via http-GET from an external tool.
 - Menu *Edit/ Copy link* provides one link for e-mail and one for update.
 - Utility `<intallationpath>\tomcat\bin\httpget.jar` provided to send the request.

Dashboard and Workbench

Raw data export enhancement for Dashboard and Quality Intelligence: Other DBs different from MS-Access, like HSQL for example, can be accessed for raw data export by setting DB-URL and DB-Authentication.

Test Center Release Information 10.4.007

Test Center 10.4.007 contains the following changes and enhancements:

Test Center MRT

- Application Server bug fixed. Caused MRT Configurator to run in an endless loop when trying to synchronise missing enumeration type attributes
- Application Server bug fixed. Prevented MRT Configurator from synchronising locked tests.
- MRT Configurator message changed for multiple referenced test cases