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1 GENERAL

This document describes the changes in Testnet 5.1 compared to Testnet 5.0.

The main difference for the database server is the new Oracle 9i database platform and changes to the database model. The changes are field lengths, new columns and new tables.

The main difference for the Workhorse server is that the service BT Transfer is split into two new services called BT Send and BT Receive. This release also contains the application QSP Transfer Plus. The Store and Fetch applications are also rewritten as services.

2 WORKHORSE

2.1 Mule

| Version | Change |
|---|---|
| 5.1.0 | No changes. |
| Fixed issues prior Testnet 5.1 project | |
| | Error messages were only shown if logging was enabled (LogLevel > 0). |

2.2 Parser

| Version | Change |
|---|---|
| 5.1.0.0 | New function getTstatusInfoAndType called by BT Send. |
| Fixed issues prior Testnet 5.1 project | |
| | Added functions getNode and getCardmark. To be used from QSPTTransferPlus. |
| | Don't generate error when missing mp in Pamela protocol. |
| | Fixed an old bug that caused problems when a MP-name is part of another MP-name in the same protocol. |

2.3 Store service

| Version | Change |
|----------------|--|
| 5.1.2321.23151 | DB changes. |
| | More than one instance of Store can be run on the same computer. |
| | It is possible to set up in configuration file if different date but same revision will be accepted for criteria file. |
| | Handling of new tags in Pamela <CIRC>, <BLOB>, <LAYOUT>, <FIRSTFAILED>, <RUNMODE>, <STRUCT> and <DELREV>. |

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|---|--|
| | Service using ODP.NET instead of ODBC connection to database. |
| | Results other than PASS and FAIL can be stored in database. Translation is set up in configuration file and stored in table RESULT_TRANSLATION. If no translation is found the result is always "FAIL". |
| Fixed issues prior Testnet 5.1 project | |
| | Limits for <MP:B> rows in criteria got values from previous measurement point. Now NULL-values are saved instead since Boolean don't have limits. |
| | Corrected bug when getting error message: "save_l_file: Layoutfile with this revision but another date is already stored in database." The error was occurring even though the protocol contains a layout file with the same date. |
| | Error message is shown and rrr-file created if a criteria file with same revision but different date is already stored in database for Pamela protocol. |
| | Limits for text measurements are different length than the value. Now both can be up to 128 characters for Pamela protocols. |
| | Pamela protocols without criteria weren't stored even if the criteria already exist in database. |

2.4 Fetch service

| Version | Change |
|---|---|
| 5.1.2321.23163 | DB changes. |
| | More than one instance of Fetch can be run on the same computer. |
| | Service using ODP.NET instead of ODBC connection to database. |
| Fixed issues prior Testnet 5.1 project | |
| | Limits for text measurement values are different length than the value. |

2.5 BT Send (part of former BT Transfer)

| Version | Change |
|---|---|
| 5.1.0 | Handles sending of information from protocols to Bartrack. |
| | Sends test type to Bartrack if set up in registry to send. |
| Fixed issues prior Testnet 5.1 project | |
| | Uses 1/10 of a second as the minimum "scan-for-file-loop time", the SecondsBetweenScan parameter now means 1/10 of a second. E.g. SecondsBetweenScan=5 gives scan |

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| frequency 0.5 seconds. |
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2.6 BT Receive (part of former BT Transfer)

| Version | Change |
|---------|---|
| 5.1.0 | Receives information from Bartrack. |
| | Receives test production comment from Bartrack and saves in IDNO table. |
| | Saves manufacturing date in IDNO table if received from Bartrack. |

2.7 QSP Transfer Plus

| Version | Change |
|---|--|
| 5.1.0 | Recompiled to match new version of Parser. |
| Fixed issues prior Testnet 5.1 project | |
| | Uses 1/10 of a second as the minimum "scan-for-file-loop time", the SecondsBetweenScan parameter now means 1/10 of a second. E.g. SecondsBetweenScan=5 gives scan frequency 0.5 seconds. |

3 DATABASE SERVER

3.1 Database

| Version | Change |
|---------|---|
| 5.1.0 | The database engine is changed to Oracle 9i. |
| | A lot of secondary unnecessary indexes dropped. |
| | Changes in length of columns like id_no, art_no, r_state, m_id etc. |
| | New tables: CIRCUMSTANCE ID_STRUCTURE NØDES RESULT_TRANSLATION TEST_BLOB |
| | Triggers on insert and delete of TEST_RECORD_HEADER |
| | New columns in tables IDNO, TEST_RECORD_HEADER, TEST_INSTRUMENT, WEEKTEST, WEEKRETE, WEEKSMP, TESTCR_G, TESTCR_M, TESTCR_T, TESTCR_C and TESTCR_X. |
| | New column ttime containing timestamp for all measurement tables: MEASUREMENT_VALUES, MEASX, TEXT_MEASUREMENT_VALUES, TMEASX, CURVE_MEASUREMENT_VALUES and CMEASX. |

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| | New columns (id_no and test_cnt) in TESTLAY to save layout files for individual protocol. |
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3.2 Script files and configuration

| Version | Change |
|---------|---|
| 5.1.0 | Keeping script from previous version one new script with all changes for 5.1 version of database. |

4 SHELL APPLICATION

4.1 Shell/Login

| Version | Change |
|---|---|
| 5.1.0.0 | DB changes. |
| | Removed button for application Multprot. |
| Fixed issues prior Testnet 5.1 project | |
| | Login-window isn't shown in taskbar. |
| | If login-window is closed with X the application is still running but no window is shown. |
| | Passwords containing the character 7 don't work. |

5 ANALYSIS TOOLS

5.1 Infodata

| Version | Change |
|---|--|
| 5.1.000 | DB changes. |
| | Selection of Repair info is not default anymore. |
| | Improved error messages if invalid or missing data in selection. |
| | Test production comment shown. |
| Fixed issues prior Testnet 5.1 project | |
| | The 'Clear sheet' function problem is now solved correctly. Format of time columns is done when clear sheet is used. The former version lost its format for the start time and end time columns. |
| | Measurement points, like 2.20 and 3.40 and so on, where treated as numbers and therefore truncated to 2.2 and 3.4. |
| | New functionality for using Cardmark as search criteria in specific search. |
| | New functionality to get measurement values and error group/point description by separate buttons or automatically at new search or running macro. |
| | Changed format on Start Time and End Time to contain |

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| | complete date + time represented as date and time format from Regional Settings. |
| | New "clear" and "import" functions in "Id.no filter". |
| | Fixed bug that occurred when running Oracle 8.1.7.7 ODBC driver. |

5.2 Measdata

| Version | Change |
|---|---|
| 5.1.000 | DB changes. |
| | Sheets and reports for Continuous R&R and Gauge R&R analyses added. |
| | New functionality to create two word reports, Continuous R&R report and Gauge R&R report, generated using the CONTWORDTEMPLATE.doc and GAUGEWORDTEMPLATE.doc templates. |
| | Macro functionality added, now possible to create and save a database selection in a macrofile and run a saved macrofile from Measdata. |
| Fixed issues prior Testnet 5.1 project | |
| | Increased the number of measurement points that was allowed in the criteria section that Measdata could view. The previous maximum was 2500. Now there is no restriction on the number of measurement points. |
| | MAX and MIN values in the sheet "Summary/measure point" are now always fetched from the selected measure point values. |
| | Text measurement values from TMEAS table where found for other test types while searching for a specific test type. Solution: Added test type for the WHERE clause in the SQL statement. |
| | Measurement points, like 2.20 and 3.40 and so on, where treated as numbers and therefore truncated to 2.2 and 3.4. |
| | In previous versions where trend sheets, distribution sheets and so on where calculated, the boolean measure points was treated wrong. Now it handles Boolean measure points correct. |
| | Problem with decimal numbers saved as text or big numbers in result sheet for Excel 2003. |
| | New feature to create "Sum per meas" sheet directly from "Sum per meas" sheet for selected test points. |
| | New sort button on "# Tested" in "Sum per meas" sheet. |
| | Changed font size in table Process Data found in Capability Report to avoid faulty page break. |
| | Fixed bug who sometimes occurred when having parameter file with more than 85 Mid. |
| | Removed unnecessary empty rows making the size of the |

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| | excel file much smaller. |
| | Fixed bug which marked the wrong product number in selection list when using parameter file and the number of product numbers has changed in database since the parameter file was saved. |
| | Fixed bug who gave "Runtime error 1004. Cannot rename a sheet to the same name as another sheet..." when making new selections after a previous big selection. |
| | Class Interval calculated with better precision. |
| | When selecting report criteria, limit file revision was limited to 4 characters, giving error "#Value!" when revision was longer. Revision length is now 6 characters supporting values PA15/5 etc. |
| | New "clear" and "import" functions in "Id.no filter". Import file format, id numbers in a list with a semicomma (;) at the end of each row. See example below: A57003DGF7; A57003DGFP; A57003DGFN; |
| | Summary Measurement point sheet expanded with Yield, Dpmo, Cpk, Capability information. |
| | New Capability Report and Graphs. The Ericsson "CapRep" macro previously used combined with Minitab now implemented in Measdata, generating Capability report using the CAPREPWDTEMPLATE.DOC template. |
| | Fixed bug with error message "Error! Excel error code: 1004. Excel error text: Paste method of Worksheet class failed" sometimes occurring first time the capability report is created. |

5.3 Weekdata

| Version | Change |
|---|---|
| 5.1.000 | DB changes. |
| | Selection of Repair info is not default anymore. |
| | Improved error messages if invalid or missing data in selection. |
| Fixed issues prior Testnet 5.1 project | |
| | Increased the timeout so that SQL statements taking long time now is executed without abnormal program termination. |
| | The line that showed the WEEKGOAL Target wasn't always shown correct. Now it is consequent. |
| | Measurement points, like 2.20 and 3.40 and so on, where treated as numbers and therefore truncated to 2.2 and 3.4. |
| | Improved performance in double-click on a measurement group. |
| | New functionality to use sw.id as first search parameter. |
| | New functionality to search on more than one cardmark in |

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| | specific search. |
| | The mp sheet now shows every description on a measurement point (in case of different version in criteria file). |
| | New function to adjust the printout format to A4. |
| | It's now possible to choose scale between 10% - 100% in steps by 10% by using a combobox in test sheet. |

5.4 Machtime

| Version | Change |
|---------|--|
| 5.1.0.0 | Changed search criteria for date to give start date and a number of days instead of start and stop date. |
| | Removed use of netnode.dat file. Nodes are fetched from NODES table in database instead. |

6 REPAIR TOOLS

6.1 Repair

| Version | Change |
|---------|---|
| 5.1.0.0 | DB changes. |
| | Application now only contains possibility to view and print protocols, all other functionality removed. |

7 ADMIN TOOLS

7.1 Admin

| Version | Change |
|---|--|
| 5.1.0.0 | DB changes. |
| | Removed all buttons but two in database tab. |
| Fixed issues prior Testnet 5.1 project | |
| | When correcting Pamela Protocols with 'testdate too old' the cursor was positioned at the end of the protocol instead of the date. |
| | Protocol truncated in display when larger than 70 KB. |
| | Fixed Oracle SQL problems: The Add Time function looked at the oldest record to get the start time. Now it looks at the last saved record. |
| | The button 'Show previous' did not show the 10 latest records by save time. It showed the 10 oldest records. Now it shows the 10 last saved records. |

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8 ARCHIVING

8.1 Archive

| Version | Change |
|---|--|
| 5.1.0.0 | DB changes. |
| Fixed issues prior Testnet 5.1 project | |
| | Sorting of measurement points is slow. |

8.2 Archive Search

| Version | Change |
|---------|-------------|
| 5.1.0.0 | No changes. |

8.3 Archive Config

| Version | Change |
|---------|-------------|
| 5.1.0.0 | No changes. |

9 DOCUMENTATION

Current document versions:

Delivered with Testnet 5.1 are the following documents:

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| Installation Guide | KS003B04ENV2_TNET51_Installation_Guide.pdf |
| System Administrators Manual | KS003B02ENV2_TNET51_System_Admin.pdf |
| User Guide | KS003B03ENV3_TNET51_User_Guide.pdf |
| Target Environment Specification | KS003A01ENV7_TNET51_Target_Environment.pdf |
| Release Notes | KS003A02ENV6_TNET51_Release_Notes.pdf |
| Product Description | KS003A03ENV4_TNET51_Product_Desc.pdf |
| Delivery Description | KS003A04ENV3_TNET51_Delivery_Desc.pdf |