

Testnet	Datum	Ref	Sidnr
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Ansvärlig		Johan Hansson	
Public	Titel Release Notes Testnet Version 6.7		

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1 GENERAL

This document describes the entire Testnet system.

The release also includes application updates according to received trouble reports, Change Requests and other improvements implemented in product since version 6.1.

2 TESTNET 6.1

2.1 Release 6.1.0.0

Previous corrections in patch 6.0.9.0 are included in release 6.1.0.0.

2.1.1 Test Reports

- Machtime – Chart limit of 255 number of data series.
- TQReport - Problem when many test stations.
- TQReport - Mismatch between numbers in header and other data.

2.1.2 Products

- Relations from PRIM faulty number of relations.

2.1.3 Modelling

- Error when trying to add new Product Place.

2.1.4 ReptileNET

- Error on save in Fast Input if #Faults>1.
- Macro handling adds data in wrong columns.
- Error when saving faults with Faulty Product as input setting.
- Sorting fault table makes wrong position is sent to CompView.
- Input Criteria form displays deactivated areas.
- Multiple positions from CompView doesn't work for Fast and Inspection Input.
- Action code isn't always displayed correctly.
- Right-click on unselected row in Analyze table gives error.
- Exchange of serial marked unit gives error if no serial number is given.

2.1.5 QSP Insert Service

- Reduce number of created rrr-files on error.

2.1.6 Change Requests

- ReptileNET - Changes to adapt to working with Reptile in AOI.
- Test Reports - Possibility to use TQ Report without QSP database.

2.1.7 New Functions

New functions modules delivered

1. AOI Interface in form of three windows services Orbotech, SAKI and DPC File services. These are included in the release but will be implemented upon request.
2. Protocol transfer from EMS to separate Testnet database. This is included in the release but will be implemented upon request.
3. Possibility to print protocols to PDF.

2.1.7.1 Orbotech File Service

A new file interface that reads tst and par files from Orbotech AOI equipment and stores the information in Quality (QSP) database.

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This is included in the release but will be implemented upon request.

2.1.7.2 SAKI File Service

A new file interface that reads xml files from SAKI AOI equipment and stores the information in Quality (QSP) database.

This is included in the release but will be implemented upon request.

2.1.7.3 DPC File Service

A new interface that reads information from Quality (QSP) database and from the information creates tst and par files. The files have the same format as files from Orbotech AOI equipment, and they are sent to DPC system.

This is included in the release but will be implemented upon request.

2.1.7.4 Protocol Transfer Service

A new interface that moves protocol files from one location to another, at the same time renaming them so that there is an unbroken sequence in the target directory. It also checks that the number of blob files is the same as the protocol stipulates.

This is included in the release but will be implemented upon request.

2.1.7.5 Web Protocol Print Service

A service that enables printing of protocols from Testnet_Web to PDF-files uses new version of pamPrint.dll.

2.1.7.6 Database

Both QSP and Testnet databases are updated in this release.

2.2 Release 6.1.1.0

2.2.1 Test Reports

- TQ Report modified warning if search made more rows than sheet can handle (65536 rows) now displays actual row count.
- If using Office 2010 generating some reports like Measdata, Machtime was considerably slower than in previous versions.
- Adjusted limits of TQ Report to 100 test stations and 5000 rows.
- Adjusted limits of TQ Report from 65000 rows to 65536 rows in raw_data sheet.

3 TESTNET 6.2

3.1 Release 6.2.0.0

Previous corrections in patch 6.1.1.0 are included in release 6.2.0.0.

3.1.1 QSPInsert Service

- Removed writing to C:\debug.log, now logs additional info to Event Log if LogLevel>1.
- Corrected error with sending protocols to QSP even if sending flag was set to not send.

3.1.2 Store Service

- Added serial number to error messages in store.log and Event Log
- Added missing parameter in config-file for installation kit

3.1.3 Mule Service

- Changed incorrect name in Event Log
- Warning logged to Trace Event Log if "File used by another process" error
- Creates counter files fileno.rec and pamout\pamout.rec if not existing
- If net95_mule.cnt is missing it is created with same contents as net95.cnt
- If pamela_mule.cnt is missing it is created with same contents as pamela.cnt

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- Removed unused log-file parameter from config-file

3.1.4 Fetch service

- Changed name of service to Testnet Fetch
- No fault logged when trying to read .req-file waits a while and tries to read again

3.1.5 BTSend Service

- Logs serial number when error on updating test status
- Creates pamela_corr.cnt and pamela_admin.cnt at startup if not existing

3.1.6 ReptileNET

- Changed from short datatype to integer where variable size might be an issue
- Wrong column was red when entering an invalid position
- Column widths in repair table wasn't saved properly
- Action Report error when searching big time span
- Want possibility to enter fault code and action code by entering text
- Errors in texts in settings form for BARAPIX and Alarm Category
- Fast Input - Wrong username (PC user) saved for test instead of Reptile user
- Claim of component dialog displayed when not supplying action code
- Cannot change action status for "old" faults

3.1.7 Testnet_Web

- Overview of possible open cursors in database when working with stored procedures to get data
- Not possible to use saved searches for TQReport.

3.1.8 TestnetAPI Webservice

- Overview of possible open cursors in database when working with stored procedures to get data
- Logs thousands of empty error messages

3.1.9 Change Requests

- Test Reports - TQ Report add Test Comment to Raw Data.
- Test Reports – Displaying yield without repair in TQ Reports
- Reports – Possibility to get all reports in Excel2010 format
- Store Service – Stores MP_TYPE in MEASUREMENT_VALUES and MEASX tables
- ReptileNET - Easier to find failed measurement point in protocol
- ReptileNET - Analyze - Get possibility to search other r-states even if hit on current
- ReptileNET - Confirm Exit for Fast Input and Inspection Input

3.1.9.1 Database

New field lengths in Testnet database including the affected applications.

New lengths are:

COMMENTT	VARCHAR2(255)
CIRC_DESCRIPTION	VARCHAR2(255)
SW_ID	VARCHAR2(25)

Removed update contents of WEEKTEST, WEEKRETE and WEEKSMP database tables from delete trigger for protocol.

Moved loading of data for TQ Reports to database and scheduled stored procedure instead of running scheduled scripts outside database.

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3.1.9.2 TestnetAPI Webservice

New functions in API:

- GetFaultMPList - Gets all previously reported erroneous measurement points
- GetCPKInfo - Gets an calculated CPK value for a product
- GetMaxMinValues - Gets a list of Mean, Minimum and Maximum values for measurement points within a Product and R-State

3.1.10 New Functions

3.1.10.1 TMS – Test station Monitoring System

3.1.10.1.1 General

The main purpose of TMS is to keep track of test station status to provide better monitoring and utilization of test stations. TMS tracks test station disturbances. A disturbance could be a stop because of breakdown or maintenance. It also tracks spare parts usage. Below is the TMS main functionality described. For more information, please read Testnet User Guide 6.2. Note! The TMS Administration must be prepared before start using this new functionality.

3.1.10.1.2 Functionality

TMS Reporting Client

This application is running at the test station. It is used to report eventual disturbances as when the test station is stopped and up and running again. Spare parts usage is also entered in this application.

Start this application with a browser and the URL:

[http://\[sever address\]/TMSClient/index.aspx](http://[sever address]/TMSClient/index.aspx)

Note! To be able to run this client, SilverLight version 4 (4.0.60831.0) browser plugin must be installed on your PC.

TMS Monitoring Client

This application is intended to be used to overview test stations status. Which test stations to view is filtered out by entering search criteria. The test stations in the search result are represented as boxes in a graphical overview.

Start this application with a browser and the URL:

[http://\[sever address\]/TMSClient/index.aspx#/monitor](http://[sever address]/TMSClient/index.aspx#/monitor)

Note! To be able to run this client, SilverLight version 4 (4.0.60831.0) browser plugin must be installed on your PC.

TMS Reports

Reported data from the TMS Reporting Client is collected in a couple of reports and can be viewed in Testnet_Web Client. Available reports are:

- Raw data
- Spare parts

TMS Administration

Functions like setting up which test stations that shall use the reporting client is found in Testnet_Web client.

3.2 Release 6.2.1.0

3.2.1 TMS Calc Service

- Faulty SQL statement when removing old measurement groups/points
- TMS Calc Service consumes very large amount of memory.

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3.3 Release 6.2.2.0

3.3.1 TestnetAPI Webservice

- Changed design of calls to database, split into multiple database calls.

3.4 Release 6.2.3.0

3.4.1 BT Send Service

- Rejects protocol with long <DUTNOTE> even though it isn't really used in application.
- Rejects protocol with special characters like "/" in <TYPE>-tag. Store allows this so BT Send shouldn't reject these.

4 TESTNET 6.3

4.1 Release 6.3.0.0

4.1.1 New Functions

New functions modules delivered

1. MI MES Data Provider.

4.1.1.1 MI MES Data Provider

A new server module that provides MI solution with test and quality data, according to predefined data contracts, runs as a windows service. Support of six contracts: Functional Test; Serial Number; Test Criteria; Measurement Value; Fault Search; and Repair.

4.1.1.2 Database

Both QSP and Testnet databases are updated in this release.

4.2 Release 6.3.1.0

4.2.1.1 MI MES Data Provider

- Correction, fetching data from database for contract Functional Test in several steps was not possible.

5 TESTNET 6.4

5.1 Release 6.4.0.0

Previous corrections in patches 6.2.1.0 to 6.2.3.0 are included in release 6.4.0.0.

5.1.1 ReptileNET

- Inspection Input - max 100 for tested
- Correction, system administrators could not correct other users input if they also belonged to group OPERATOR.
- Fast Input to comply with old QSP client ENTER key in order number and serial number fields will be treated as TAB.
- "Root element is missing" error message when opening Positions form.
- "Unexpected end of file has occurred. The following elements are not closed: Product ..." error message when opening Positions form.

5.1.2 Store Service

- Error for trigger INS_TRH when saving new protocol.
- Extra <END>-tag last in protocol gives error and Store is not continuing with next protocol.

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5.1.3 XrayToQSP

- Error when formatting insert date, always used AM/PM format so all data was found before noon every day.

5.1.4 TQ Report

- Changed handling of Test Production Comment now using current value.
- Error when setting min number of tests to 0.
- Adjusted limits of TQ Report to 40 fault codes (limits are now 100 nodes, 100 measurement values, 40 fault codes due to limits of 256 number of columns in excel 2003/2007)
- Corrected error causing error message "Error when running macro - Cannot use that command on overlapping sections" occurring if selection results in more than 40 fault codes

5.1.5 Measdata Report

- Corrected error causing error message: "Compile error in hidden module: VBA_GaugeRR...".
- When number of measurement points is multiple of 240 error occurred.
- When using file for individuals only 29 first were used. Expanded to 1000.
- "Delete method of Range class failed" for Office 2010 and many measurement points.

5.1.6 TMS Raw Data Report

- Corrected errors in calculation of disturbance time, MTTR, MTBF and changed to first time yield.
- When first running Machtime report then subsequent call to TMS Raw Data report fails.

5.1.7 Hierachical Yield Report

- Report was failing when no faults where entered for selected search criteria.

5.1.8 QSP Insert Service

- <FIRSTFAILED> row was not read.
- Measurement points with multiple rows were not marked as failed if first occurrence was PASS and any other FAIL.

5.1.9 Saved Searches for all Reports

- Saved searches with no name could not be removed.

5.1.10 Mule Service

- Protocols and blobs are deleted even if not distributed to all recipients.
- Mule reads protocol and waits for possible blobs parameter specifies how long to wait.

5.1.11 TMS Service

- In reporting client it was not possible to use ' characters in input fields.

5.1.12 MI MES Data Provider Service

- Support of two new contracts: Test Criteria Text; and Measurement Value Text.
- Updates in Testnet database to activate contracts Test Criteria Text and Measurement Value Text.
- Correction in stored procedure regarding control category when fetching data for contract Functional Test.

5.1.13 Vision Transfer Service

- Service only allows 5 characters in fault code but database allows 6.

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5.1.14 Machtime Report

Search page allowed report with 32 days which the report couldn't handle.

5.1.15 Change Requests

- ReptileNET – Keep size of troubleshoot window between Reptile sessions.
- ReptileNET- Input field for Repair time in Fast and Inspection Input.
- ReptileNET – input field for manual input of troubleshoot/repair time.
- Store – New error message if trying to store exactly same start and end time as previous protocol for individual.
- TMS – Adding Reporting client and monitor as links from Testnet_Web.
- Database – new index on TEST_RECORD_HEADER table (for TMS).

5.1.16 New functionality

5.1.16.1 Reptile.NET

- SWAP functionality – New test with FAIL result created on exchanged serial marked unit with same area, line, test category, failed measurement group/point and same test time as original test.
- Serial numbers from Bartrack is displayed when selecting position in tree view.
- Possibility to view protocols for tests where current serial number where exchanged.
- Use Barapix WCF service instead of local BARAPIX.dll. New setting in the configuration-file determining which to use, dll or wcf-service.
- Extended search possibilities in Analyze tab.

5.1.16.2 Protocol Correction

- Store, BT Send and QSP Insert stores rejected files in Testnet database.
- New page for handling protocol correction in Testnet_Web.

5.1.16.3 Central Database Archive

A new server for archiving Testnet protocols from all sites, hosting a MSQL database, Central Archive Database; and a WCF service, Central Database Protocol Archive Central Service.

This also demanded adaptations for existing services Store and Fetch as well as new search page in Testnet_Web.

5.1.16.4 Central Database Protocol Archive Data Provider Service

A new server module, running as a windows service, that retrieves test protocols and attached blobs from production databases; a directory; or a T95 Archive, and sends them in a zipped file to the WCF service Central Database Protocol Archive Central Service.

5.1.16.5 Central Database Protocol Archive Central Service

A new server module, running as a WCF service, installed on the new Central Database server. This service receives Testnet protocols and attached blobs from the windows service Central Database Protocol Archive Data Provider Service and stores the Testnet protocols and blobs in the Central Archive Database.

5.1.16.6 Central Database Protocol Archive Search GUI

- New page for handling search and reload in Central Database Protocol Archive in Testnet_Web.

5.1.16.7 Database

- A new database on the new database server where all archived test protocols and blobs are stored.
- QSP and Testnet databases are updated in this release.

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5.2 Release 6.4.1.0

5.2.1 Testnet Database

Trigger INS_TB on TEST_BLOB table dropped and triggers INS_T_TESTNET_TQ and DEL_T_TESTNET_TQ on table T_TESTNET_TQ are dropped, instead the functionality is scheduled in database.

5.3 Release 6.4.2.0

5.3.1 MI MES Data Provider

- Job state "Finished with error" is removed. Job stays in state "Execution" and will be executed again next time timer elapse.

5.3.2 Store Service

- Improved performance when saving measurement points to database.
- Parameters for controlling how many protocols handled in loop.
- Improved logging on errors when handling counter and protocol files.
- Now stores protocol even if not all blobs found.

5.3.3 Mule Service

- Waiting until test station released lock on protocol before trying to distribute it.
- Added waiting period if counter file is locked.
- Distribute protocols and found blobs even if not all blobs found.
- Improved logging on errors.
- Added cleaning up of files left in directories.

5.4 Release 6.4.3.0

5.4.1 ReptileNET Client

- Number of tested, faulty and manufactured is limited to 100 when correcting inspection input.
- Error when leaving action code empty when correcting faults.

5.4.2 Measdata Report

- Performance improvements for Office2010.

5.4.3 Testnet API WS

- Performance improvements for GetCPKInfo.
- New parameter added to result in GetCPKInfo.

5.4.4 CPK Calculation

- Performance improvements for retrieving CPK information.
- New window service to recalculate CP, CPK and PrevMPOK values when new test protocols are saved that affects old calculations.

5.4.5 MI MES Data Provider Export Service

- When fetching Functional Test for Delta timestamp is used as start time to retrieve data instead of end time for last Delta job.
- New SYS_SETTING to define whether duplicate files shall be saved or not.
- Trace logging is improved.
- Table MI_JOBS is improved, keeping values for number or rows received from database and number of deleted rows due to null values.
- Correction of missing rows for TestCriteria and TestCriteriaText.
- Correction of exporting correct control category and line for FunctionalTest.
- Correction to not export protocols reimported from Central Archive.

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- Improvements for start procedure of the service.
- Improvement made to be able to create a job where FunctionalTest data only will be fetched but not sent FTPS server.

5.4.6 Mule Service

- Added possibility of second input source with separate or same subscribers.

6 TESTNET 6.5

6.1 Release 6.5.0.0

Previous corrections in patch 6.4.3.0 are included in release 6.5.0.0.

6.1.1 Store Service

- Separated storing of actual protocol and blob files to speed up saving of protocols.
- Performance improvements.
- Parameter in configuration file added to set file encoding to handle special characters correctly.
- More stable when faulty characters last in file.

6.1.2 Mule Service

- If size of protocol is 0 it is not distributed by Mule, just deleted.

6.1.3 Fetch Service

- Parameter in configuration file added to set file encoding to handle special characters correctly.

6.1.4 CDBA Archive Data Provider

- The timer tick can now be updated and used without restart of service.
- Stability improvements. When resending record zip file to Central Archive is the file renamed to avoid file exist conflict, and the storing process to stop.
- Improved error logging. More details to be able to pinpoint the record causing the problem.

6.1.5 TestnetAPI Web Service

- Reads configuration file if connection string empty.
- Cleanup after database calls improved so database connection closed properly.

6.1.6 ReptileNET Client

- Parameter in configuration file added to set file encoding to handle special characters correctly when displaying protocols.
- Adjusted some field lengths as Test Production Comment is extended.
- If product structure in Testnet does not match the individuals gotten from Bartrack a warning message is displayed.

6.1.7 User Handling

It is now possible to create or change user and set a temporary password so it has to be changed at login.

6.1.8 TMS Clients

- TMS Disturbances - Additional info window too small, not entire window displayed with low screen resolution e.g. Spare Parts missing.
- TMS Monitor – Sorting of data in list boxes.

6.1.9 Modelling

- Selection in tree view kept after delete of product place.

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6.1.10 Protocol handling

- Possibility to filter data and multi select/deselect of protocols
- Keep scrolling position of page after selecting protocol (check box)
- General improved handling
- Removed extra character at end when fetching rejected protocols from database.

6.1.11 Blob Tool

- Extended search criteria, possible to search on first failed measurement point and limit on test count.
- Possible to download multiple Blob files at one time.
- Buttons to select and deselect all protocols in table.

6.1.12 View Protocol

- Parameter in configuration file added to set file encoding to handle special characters correctly when displaying protocols.
- Improved error messages in file handling of protocol printouts.

6.1.13 Test Production Comment

- Test production comment changed from character 30 to 450.
- Multiple TPC's are separated by semicolon(;) in the information in Testnet.
- All applications handling test production comment are reviewed and changed if needed: Reptile, Infodata, Measdata, TQ Report and BT Receive.

6.1.14 TQ Report

- Removed R-state from products list.
- Expanded all lists so they can display more rows.
- When not loading saved searches products will be filtered on time.
- Moved logo because in some cases it overlapped the pie chart.

6.1.15 Measdata

- Possible to choose either Cardmark or Test Production Comment when generating report.
- Expanded maximum number of criteria measurement points possible.
- Search window, test count 1 set as default value.
- Corrected error "Invalid Parameter" during creation of Gauge R&R Report.

6.1.16 All Reports

- Removed dates and times from saved searches.
- Made it easier to navigate through selecting saved searches through combo-box.

6.1.17 CPK Calculation

- Improved calculation performance by adding threading to the windows service. Number of threads is configured in SysSettings.
- Improved the procedure of old values by adding a new column in tables for CPK info and PrevMPOK. The column will contain the date and time for last fetch of the information.
- Added functionality by configuration send one or several measure points in one database request.

6.1.18 New Functionality

6.1.18.1 Support for Cyberoptics AOI Equipment

A new file interface that reads xml files from Cyberoptics AOI equipment and stores the information in Quality (QSP) database.

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This is included in the release but will be implemented upon request.

6.1.18.2 DPMO Report

DPMO Report from QSP client now among quality reports.

6.2 Release 6.5.1.0

6.2.1 Store Service

- Corrected error "System.IndexOutOfRangeException: Index was outside the bounds of the array. at TestnetStore.Pamela.saveMeasurementPoints(String& strErrMsg)" when saving to MEASX table in database.

6.2.2 ReptileNET Client

- When adding faults on tests not in chronological order the faults on later tests could be duplicated. This is now corrected.

6.2.3 Cyberoptics Service

- Correction made, service will not stop when connection with Bartrack or TFWWebService is lost.
- Improvement made, reduced the logging to Prevas_Error and Prevas_Trace.

6.3 Release 6.5.2.0

6.3.1 Measdata

- Correction of error when the first 200 column names (measurement points) were repeated for Excel2010 templates. This error also made the wrong measurement values got displayed for later instances of measurement points.

6.4 Release 6.5.3.0

6.4.1 Measdata

- Correction of error when generating Gauge R&R Sheet "It is not possible to create the Sum per meas sheet! Excel error code: 13. Excel error text: Type mismatch".

6.5 Release 6.5.4.0

6.5.1 SPU PRIM Service

- Support for PIWIN version R23 with more columns: "EU ECCN CODE", "ADD. EXP CODE", "US ORIG. PROD./TECH."

6.6 Release 6.5.5.0

6.6.1 BT Send Service

- Now uses WCF service instead of BARAPIX.DLL.
- Adaptions for MI contract for Bartrack.

6.7 Release 6.5.6.0

6.7.1 MI MES Export Service

- Support for contract version 004 for Measurement Values and Measurement Values Text, e.g. new field for test start time in exported contract.
- Correction of Scheduled Delta job.
- Improved performance when fetching Delta data for contracts Test Criteria and Test Criteria Text.
- Improvement to configure a Start-up Delta job when service is starting.
- Delta jobs will not be split into several; the configuration setting for splitting jobs into several will only affect Interval jobs.
- Correction of values Limit1 and Limit2 for Test Criteria.

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6.8 Release 6.5.7.0

6.8.1 MI MES Export Service

- Correction of sending export files to FTPS server.

6.8.2 BT Send Service

- New config parameter to configure whether or not to send Test Status to Bartrack.

7 TESTNET 6.6

7.1 Release 6.6.0.0

Patch 6.5.5.0, 6.5.6.0 and 6.5.7.0 will be a part of release 6.6.0.0.

7.1.1 QSP Insert Service

- Serial number for individual saved in log message when rejecting protocols.

7.1.2 Fetch Web Service

- If criteria had “-characters on measurement point the measurement points were missing when recreating protocol with Fetch.
- Cleanup improved to release resources quicker.

7.1.3 View/Print Protocol

- Timeout when waiting for protocol to print was too short.
- Search gave no result if space after serial number in search field.

7.1.4 Measdata

- Gauge R&R performance improvements.
- Problem creating Gauge R&R Report with Measdata Office 2003 template.
- Keeping serial numbers in between searches in search page.
- Problems with large searches.

7.1.5 ReptileNET Client

- Error message when missing report location improved in Fast- and Inspection Input.
- Error message even if no error when having assembled serial number structure when selecting position.

7.1.6 CDBA Central Service

- Improvement to set timeout value for database connection and database command.
- Improved logging.
- Improved error handling.
- Improvement for cleaning up in store and error folders.

7.1.7 BT Send Service

- Improved performance when saving rejected protocol to Testnet database.
- Made sure that protocols for individuals not found in Bartrack are deleted if the setting DeleteNotFoundInBT is set.

7.1.8 Change Requests

7.1.8.1 Blob

- Possibility to search for multiple serials added.
- Test station displayed in table.

7.1.8.2 Measdata

- Always displaying Main filter part in search page.

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7.1.8.3 Fault report positions vs fault codes

- The whole data table is formatted when activating makro.
- The header with report information and search criteria is filled out when no report data has been created.

7.1.8.4 View Protocol

- Test station displayed in table.
- Print button disabled during printout.

7.1.8.5 Modelling

- Products expanded after delete of product place.

7.1.8.6 Product Relations

- Keep Add dialog open after click on Add button to improve usability when adding multiple relations.

7.1.8.7 AOI Services

- Orbotech, SAKI and Cyberoptics services now uses BARAPIX WCF service instead of dll.
- Improved logging for Cyberoptics.
- Correction of moving Inspect files to error folder when XML validation failed.

7.1.8.8 QSP Insert

- Rewritten in .NET calling TestnetAPI and TFQ web services for database access.

7.1.8.9 ReptileNET Client

- Adapted to use new interface for CompView.
- Macro buttons as big as possible.
- Direct Repair removed from application.
- FEBA renamed to generic function where you can supply any link in config file.

7.1.9 New Functions

7.1.9.1 Products

- Display buttons in Products and Product Relations tab which generates Excel reports.

7.1.9.2 Test Station Admin

- Possibility to delete protocols with certain Test program, Test Criteria or Product.
- Possibility to send to specific modeling for combination of Test program, Test Criteria and/or Product.

7.1.9.3 QSP Insert

- Possibility to delete protocols with certain Test program, Test Criteria or Product.
- Possibility to send to specific modeling for combination of Test program, Test Criteria and/or Product.

7.1.9.4 Multi-board panels

Adaptions have been made to ReptileNET client, TestnetAPI web service, TFQ web service, Orbotech, SAKI, Cyberoptics and DPC services to handle multi-board panels:

- New column for AOI positions instead of comment field in applications and in database.
- New functions in TestnetAPI web service CreateAOIRelations, SetAOIDataHolder, GetAOIDataHolder and GetAOIRelations.
- New database table AOI_RELATIONS in Testnet database.
- ReptileNET only displays AOI inputs made on specific position when scanning serial number of MCM board or twin/triplet boards if checkbox checked in settings.

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7.1.9.5 ReptileNET API (WCF Service)

New ReptileAPI can be started automatically at startup of ReptileNET which can be used for controlling ReptileNET from Idefix. Five functions available and described in KS003M0078B02EN ReptileAPI Interface Description.doc:

- setSerial
- setSerialAndUser
- setSerialAndTimestamp
- setSerialUserAndTimestamp
- minimizeForm

7.1.9.6 ReptileNET Client

- Three different views in Reptile: Q-engineer, repair and operator.
- It shall be possible to change user without closing down the system.
- Show summarized time with unit in History form and Faults tab.
- Display fault_id in fault table in History form and Faults tab.
- Setting in config file if manual time input will be made in seconds or minutes.
- Disassemble/assemble individual when exchanging serial marked unit when already assembled in Bartrack.

7.2 Release 6.6.1.0

7.2.1 QSP Insert

- Corrected faulty handling of first failed measurement point and group.

7.3 Release 6.6.2.0

7.3.1 ReptileNET Client

- Handling of "Exchange of serial marked unit" corrected when using BARAPIX.
- Wrong column (Fault Code) hidden/displayed when selecting to view AOI Position.
- Incorrect spelling of column in Fault tab corrected.

7.3.2 Analysis – Search and Download Blobs

- Corrected download of selected Blobs, since no blobs was downloaded due to using incorrect parameters when fetching the blobs.

7.3.3 MI MES Export Service

- Support of contract version 005, e.g. fields *ExtractRangeFrom* and *ExtractRangeTo* is mandatory.
- Length of *AffectedPosition* for contracts *FaultSearch* and *Repair* is extended from 20 characters to 60.

7.4 Release 6.6.3.0

7.4.1 SAKI Service

- Disregards the <FaultyBoard> tag from SAKI files since they always contain 1 and that is wrong for single boards.

7.5 Release 6.6.4.0

7.5.1 QSP Insert

- Correction of incorrect format for station.
- Correction of length validation for MP Status.

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7.6 Release 6.6.5.0

7.6.1 QSP Insert

- Correction of protocol result status when status is ERROR.
- New App Setting in web.config. It gives the possibility to redirect protocols to Testnet Protocol Handling when unexpected error occur in TFQWeb Service. It is used when calling function to get mapping information.

7.7 Release 6.6.6.0

7.7.1 QSP Insert

- Correction of protocol result status when status is other than PASS. Every other status is treated as FAIL.
- Fix to avoid NULL Exception when calling TFQ to get mapping. The exception could be raised when cardmark mapping was specified in mapping tab without having mapping for PASS and FALSE result in Cardmark tab.
- Update Store Procedure
Minor change to make it possible to store cardmark mapping for both PASS and FAIL result. Previous was it only possible to store mapping for one of them.

7.8 Release 6.6.7.0

7.8.1 Testnet_Web

- View Protocol - Dates are disregarded when searching for exact serial number.
- Weekdata – Displaying descriptions for text measurement values.
- Fault Possibilities – Removed duplicates from Product drop down.
- Fault Possibilities – Possibility to enter text for Product number.
- TQ Report – Comment fields are now correct size so all data will be displayed.
- TQ Report – “Overflow” error when Raw_Data sheet containing more than 32767 rows of data corrected.

7.8.2 ReptileNET Client

- Column widths was not saved correctly in Troubleshoot mode, especially when showing and hiding AOI Position column.
- Column Headers now displays ... at end if entire text not visible.
- When exchanging serial marked unit you get a warning that nothing is disassembled/assembled if individual not connected in Bartrack.
- Same validity checks for default macros as when manually adding fault.
- Username could before be saved in lowercase, now it is always converted to uppercase.

7.8.3 Web Protocol Print Service

- Now handles special characters like å, ä, ö and ° correctly.

7.8.4 Store Service

- Store no longer stops when protocol is invalid with fault "Term too long in row...". The protocol is stored in database so it can be handled in Protocol Handling.

7.8.5 QSP Archiving

- Archiving of QSP data now handles AOI data with table CAUSE_OF_FAULT_AOI and the additional column POSITION_AOI in CAUSE_OF_FAULT table.
- Changed from import/export to datapump for handling archiving.

7.8.6 CPK Calculation service

- Threading for PrevMPOK recalculations is added.

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7.8.7 New Functions

7.8.7.1 ASO/BASO Functionality

Adaptions in Testnet_Web (Products tab), TFQ web service and QSP Insert service to handle setup of BASO product and automatic setup of corresponding ASO product.

7.8.8 Change Requests

7.8.8.1 Position Extended to 60 Characters

- Position field extended from 10 to 60 characters have implied changes to: both Testnet and QSP databases, ReptileNET client, Testnet_Web, TFQ web service, Vision Transfer service, SAKI and Cyberoptics services, SPU PRIM Server and QSP PRIM Server service.
- A number of other services/interfaces are tested to verify that they still work with the database changes

7.8.8.2 Database – Timestamp added when user last logged in

- Timestamp column added to AUT_USERS which is updated when user logs in either in Testnet_Web or ReptileNET.

7.8.8.3 Assembled By

- New field for Assembled By in Fast Input in Reptile also added the field in correction of tests.
- Display the Assembled By column in Quality Analysis in Testnet_Web.

7.9 Release 6.6.7.1

7.9.1 MI MES Export Service

- Upload files are deleted after a configured number of hours.
- When upload of a file to FTPS server fails, the upload file is deleted and uploaded again.
- Status of each upload to FTPS server is saved to a database table to be able to trace empty zip files.

7.10 Release 6.6.7.2

7.10.1 ReptileNET Client

- Removed the warning, "Nothing is disassembled/assembled if individual not connected in Bartrack" when exchanging serial marked unit, because it doesn't work with swap functionality.
- Corrected faulty choice of fault category when named partly same. For example "TROUBLE" and "FILTER TROUBLE".
- Sometimes Action Code was not updated properly when selecting new Fault Code.

8 TESTNET 6.7

8.1 Release 6.7.0.0

Patch 6.6.7.2 will be a part of the 6.7.0.0 Release.

8.1.1 TMS Phase 2

A number of demands for Test Station Monitoring is implemented:

- TMS Reporting Client - Additional Info dialog existing comment field is renamed and new is added and it is saved correctly in database

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- Raw Data Report - Existing comment field is renamed and new comment field is added and both fields can display 500 characters.
- TMS Administration - Import a spare parts list from Excel-file and specify for each test station whether to use the list.
- TMS Reporting Client - Additional Info dialog requesting usage of spare parts list for a test station. The spare parts can also be sorted on either Id or Description by clicking the corresponding labels. It is also possible to add spare parts manually, even if the test station is set up to handle certain spare parts list.
- TMS Reporting Client - Additional Information dialog to add Life Length, in number of cycles, for spare parts.
- Raw Data Report - The field Life Length for spare parts is added in report.
- Spare Parts Report - The field Life Length for spare parts is added in report.
- TMS Reporting Client – Possible to search for information on previous disturbances for specified measurement point to help when troubleshooting.
- TMS Monitoring Client – Possibility to create, copy, edit name and delete monitor layouts. Set different display options for the monitor layout.
- TMS Monitoring Client - Test Station in the monitor blinks until the initial disturbance status is changed to any other status.
- TMS Testnet Web, Reporting and Monitoring Client - Different colors can be used for different disturbance categories.

8.1.2 TFQ Web Service

- Configuration change. Web.config has new information regarding the runtime. Also possible to use relative path. Also TFQWebService.config has been moved to different folder.
- Position is now trimmed and converted to uppercase for functions:
CheckAndCreateComponent
GetAffectedProductsInXML
CheckParametersForCheckAndCreateComponent
CheckPosition
- New function for AOI is added: CheckAndCreateComponents
- Webservice is upgraded to .NET 3.5

8.1.3 Testnet_Web

- Test Station Admin – When searching for cardmark settings the test station combo is now sorted.
- Products – In some cases no hits were displayed when searching for a product with exact r-state and the product had no relations.
- Measdata – Corrected problems when number of rows exceeded 32767.
- Measdata – Hits when filtering on serial number even if tested with different criteria.
- Measdata – Setting correct Highest and Lowest value in Summary/measure point sheet when having very large measurement values.

8.1.4 AOI service

- Performance increased for big files

8.1.5 Change Requests

8.1.5.1 CDBA Data Provider

- Blob files are no longer archived in central archive.

8.1.5.2 MI MES Export Service

- 8 new contracts are added for AOI Inspection data and Manual Inspection.

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8.2 Release 6.7.1.0

8.2.1 CPKCalc Service

- Keeping data for PrevMPOK in database table is set by a separate configuration parameter than keeping data for CPK calculations.

8.2.2 MI MES Export Service

- Correction of exporting MI data for contract Repair and FaultSearch (Testnet, AOI and ManuallInspection).
- Correction of field MeasurmentValueText in contract MeasurmentValueText to not be formatted as a float value.
- Correction for all contracts of AOI and ManuallInspection to use UTC when naming MI export data files.
- Performance improvement for exporting both Interval and Delta data.
- Improved export of MI data by uploading files in separate thread. Exporting MI data will continue even when uploading files to FTPS server is not working.
- Improved configuration of service.

8.2.3 QSP Insert Service

- Missing protocols in sequence was handled correctly but counter file was not updated accordingly.
- When not being able to update counter file it was increased for each new attempt.

8.2.4 TMSCalc Service

- Changed saving of yield values to always use point in decimal values.
- Now tests with dates in the future is not included in calculating yield.
- Made changes so fetch from database is not made if no new data found for that test station.

8.2.5 TMS Service

- Changed fetching of yield values to take into account regional settings.

8.2.6 BT Receive Service

- Service stopped on serial numbers less than 10 characters when saving to IDNO files.

8.2.7 PRIM Converter Service

- New service replacing QSP PRIM Server and SPU PRIM Server services.

8.2.8 Testnet_Web

- Modelling - Handling of fault possibilities can now handle empty r-states.
- Modelling - Changed handling of Add and Remove buttons to improve performance for fault possibilities.
- TQ Report - Corrected error when too long sheet naming combinations is used in TQ report, causing sheet names not to be uniquely defined. Now, if a sheet name already exist when creating a new one, a new uniquely defined name will be created based on the beginning of the existing sheet name and the sign “_” and a counter as last characters.
- Machtime – Corrected error in 2010 template when test running over midnight.



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8.2.9 Reptile Client

- Changed handling of three input fields Order Number, Serial Number and Faulty Serial Number in Fast Input. The handling was changed because digits couldn't be entered in these fields on one site.

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8.3 Documents

Customer documents delivered with Testnet 6.7 are:

Reptile User Guide	KS003M0078B01V11 Reptile User Guide.pdf
System Administrators Manual	KS003B02ENV21 TESTNET67 System Admin.pdf
Testnet User Guide	KS003B03ENV18 TESTNET67 User Guide.pdf
Target Environment Specification	KS003A01ENV15 TESTNET66 Target Environment Specification.pdf
Release Notes	KS003A02ENV36 TESTNET67 Release Notes.pdf
TFQ Web Service Interface Description	KS003B16ENV3 TFQ_WS Interface Description.pdf
Testnet Web Service Interface Description	KS003M0084B01ENV13 TestnetAPI_WS Interface Description.pdf
ReptileAPI Interface Description	KS003M0078B02ENV1 ReptileAPI Interface Description.doc