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BatchXpert Release Notes

Contenido

Version 1.6

Version 1.6.0.0

This Release is a Feature release and adds new features for maintenance and administration of Recipes and Batch Configurator. Additionally, the Report viewer was enhanced with new and improved features. The "Sync Service" is introduced to automatically detect and Synchronize files between BatchXpert stations.

Batch Configuration
- Added support for Recipe Status, Recipe Type and more fields to Recipes
- Added support for IO-Type fields of Acts, Din, Ain and PID

Batch Reporting
- "High DPI" support for Batch Report Viewer
- Improved Batch Tracing to better show used materials by considering Transfer ID's. Now the Graphical view shows ToolTips for Batch Transfers and also indicate the Transfer Types.

Auditing
- Much improved "BatchConfig Audit Viewer". It now automatically filters out irrelevant messages when creating new Recipes.

Administration
- New Application "BatchXpert Sync Service" to automatically synchronize Databases of BatchXpert Stations between each other
- Added feature to set "BatchXpert Station Number" as Automatic. In this case the Station number will be queried from the Database Configuration
- Improved Project Startup and Shutdown logging
- Scheduled Backups can now be viewed, started and executed by "Users", not only "Administrators".
- When a Backup is running and requires to restart the system, it now shows a message and gives the option to postpone to the user.
- Projects can now be started, without Visualization Projects

Visualization
To be able to use the new modules, the GraphPic project >= 1.5 is required
- Much improved Multi Monitor Support for BatchXpert by using the new "MultiMon" module
- Improved Recipe Selection when starting Programs in the System
- Improved Enumeration and Material Selection Dialogs

Others
- Many bugfixes in most of the Applications
- Minor bug fixes in Installation Center

System Requirements
Are generally the same as in the previous version

- *Windows*
    - o *Windows 10 (all editions), recommended*
    - o *Windows 8.1 (all editions)*
    - o *Windows 8 (all editions)*
    - o *Windows 7 (all editions)*
- *Sql Server*
    - o *Sql Server 2017 Express (or better), recommended*
    - o *Sql Server 2016 Express (or better)*
    - o *Sql Server 2014 Express (or better)*
    - o *Sql Server 2012 Express (or better), not recommended, soon out of support by vendor*
    - o *Sql Server 2008 R2 Express (or better), not recommended out of support by vendor*
    - o *Sql Server 2008 Express (or better), not recommended out of support by vendor*
    - o *Sql Server 2005 Express (or better), not recommended out of support by vendor*
- *.Net*
    - o *Microsoft .Net Framework 4 Full*
    - o *Microsoft .Net Framework 4.5 Full*
    - o *Microsoft .Net Framework 4.6 Full*

Version 1.5

This Release is a Feature Release and Adds many new features for reporting, administration and Engineering, such as:

- Support for BatchXpert Projects
- View Manual Operations according to a Unit and Steps
- "Online Control Module Overview"
- "Alarm Groups" for GraphPic visualization
- Batch Configuration Database Auditing
- Improved and Enhanced Reporting (new Material Reports, Batch Trace Reports, new Report functions and support for conditionals and loops)
- Many Bug fixes and Improvements
- Added Support for "Sql Server 2016"
- Added Support for Windows 10

WARNING: due to changes in the Reporting system, existing report Templates must be updated before using in this Version. The update is performed automatically during Installation, but can be executed manually using the command line utility "BxUpdateReportTokens" found in the "Tools/Command line tools"- directory of the BatchXpert installation.

Online Control Module Overview

- View all current status of all Control modules, and easily find modules on Simulation, requesting Maintenance....

Batch Configuration

- Added Unit to Control module relations
- Added Polygon Tables as new Control Modules
- Actuators now have separate Feedback fields
- Batch Configurator is now Localized without database accesses which gives it the ability to be localized to more than the database languages. Added German, English, Spanish, Portuguese and French.
- Import/Export of configurations and configuration Fragments
- Support for Value Formatting on Analog Types

Database Auditing

- The Batch Configuration Database now permits a Fully Audit Trail, that records every change in any of the Configuration data's such as: Recipes, Set points, ...

Batch Report Viewer

- Added View for Manual Operations that occurred during the execution of an Unit/Step of an Batch
- Added new Sorting and Grouping Options (Group by Day) to the Batch Tree Views of the Reports
- Running Batches are now marked with green color in Batch list
- Added user editable Reports for Batch Tracing
- Batch Summary Reports now have access to Batch Trace and Material consumption data
- Reports now support "If/EndIF" and "ForEach/EndForEach" constructs
- New Helper tool for easy composition of Report functions

General

- Bug fixings in S7 Communication Driver
- Added Printing Capability to "Material Configuration"
- Many Bug fixings in "Material Configuration"
- Added Metadata to ".bxbak" Backup archives
- Added logging configuration to "system Management console"

Tools

- Added "Connection Checker" tool to test connectivity to Internet, PLC and Ping with GUI
- Added tool for Report function composition
- Added tool for automatic update for existing Report templates
- Added tool for Server independent Database Backups (Dumps)
- Added tool for enabling TCP connections to Sql Servers
- Added log file viewer for easier log analysis
- Improved installer to better handle Sql Server installation scenarios
- Integration of S7 Backup V2

System Requirements
- ***Windows***
  - ***Windows 10 (all editions), recommended***
  - ***Windows 8.1 (all editions)***
  - ***Windows 8 (all editions)***
  - ***Windows 7 (all editions)***
- ***Sql Server***
  - ***Sql Server 2016 Express (or better), recommended***
  - ***Sql Server 2014 Express (or better)***
  - ***Sql Server 2012 Express (or better)***
  - ***Sql Server 2008 R2 Express (or better), not recommended out of support by vendor***
  - ***Sql Server 2008 Express (or better), not recommended out of support by vendor***
  - ***Sql Server 2005 Express (or better), not recommended out of support by vendor***
- ***.Net***
  - ***Microsoft .Net Framework 4 Full***
  - ***Microsoft .Net Framework 4.5 Full***
  - ***Microsoft .Net Framework 4.6 Full***

Version 1.5.1.0

This Release is a Maintenance release with minor feature improvements

- Improved Project Startup and Shutdown
- Many bugfixes in most of the Applications
- Added option to copy parameters in Batch Configurator
- Much improved Recipe Administration in Batch Configurator. Full Recipes can now be copied and deleted at once
- Added Export functionality for Manual Operations to Excel and Csv files

Version 1.4

This release is a big Feature release and introduces Traceability, Material Management and enhances the Reporting Functionalities of BatchXpert.

WARNING: Starting from this version Microsoft .Net 4.0 is required. This makes it incompatible with Windows XP. Windows Xp is no longer supported from this version onwards.

Material Management
- All new Material management with Material configuration tool

BDE Trend
- All new Utility for generating trending data from historical batch data

Reporting
- New Batch Tracing functions implemented into the Batch Report Viewer
- Printing Templates are now stored on the Server Databases
- New Reporting Functions to be used in Reports
- New and Improved Excel Reports with better compatibility and new functions

Batch Configuration
- Comments for Control Modules, Phases, Recipe Steps, Parameters and Class Properties
- IO Parameters and Metadata for Control modules are now editable from Configurator
- Configuration for BatchXpert Stations and Project Metadata

Backup
- Implementation of automatic Backup Strategy. This can be administered via the "BatchXpert System Management Console"
- Backing up of all Relevant data is implemented
- Bug fixes in handling when Backing up the Visualization while GraphPic is running

General
- Added Languages French and Portuguese
- New Command line interface for "Project Administration Tool" and "DB Admin Tool"
- Integration of optional "S7 Backup" Package
- Integrated extensive Logging on all applications
- Many, Many minor bug fixes

System Requirements
- *Windows*
  - *Windows 10 (all editions)*
  - *Windows 8.1 (all editions)*
  - *Windows 8 (all editions)*
  - *Windows 7 (all editions)*
- *Sql Server*
  - *Sql Server 2012 Express (or better)*
  - *Sql Server 2008 R2 Express (or better)*
  - *Sql Server 2008 Express (or better)*
- *.Net*
  - *Microsoft .Net Framework 4 Full*

Version 1.4.2.0

Bug fixes and improvements. No now Features introduced.

Bug fixes in Material Management, Logging, Batch Configuration, Reporting and minor fixes in other modules

Version 1.4.1.1

Bug fixes and improvements. No now Features introduced.

Material Management
- Added Translations

BDE Trend
- Many Bug fixes in File handling and Charting

Batch Configuration
- Bug fixes in printing system, where some screens could not be printed

Documentation
- Actualized many Manuals

Backup
- Improved handling for Shutdown of GraphPic during Backup

Version 1.3

Introduction of new Application (Recipe Editor), New Database Update File format. New User Interface based on Ribbon and Introduction of SQL Server 2012 as recommended Database Server. Added support for Windows 8, 8.1 and current Sql Server Versions.

Notice: windows 8.1 is only supported with SQL server 2012 or newer, due to compatibility issues of SQL server 2005.

Reporting
- New Ribbon Based User Interface for Report viewer
- Bug fixes and minor Changes in Batch Report Viewer
- Restructuration of Reporting functionalities with new DLL to help integration of Web Reporting Project

Configuration
- New Ribbon Based User Interface for Batch Configurator
- Added Printing Features to Batch Configurator
- Bug fixes in Batch Configurator

Database
- New SQL Update File Format (. BXSQL) Version 2.0 is included
- Database Administration tool now supports restoring Backups from different SQL Server versions. This is needed for migration from 2005 to SQL Server 2012 or newer
- BatchXpert now includes the SQL Server 2012 instead the 2005, for compatibility with Windows 8
- Multiple Server to one Database event recording is now supported

Installer
- The SQL Server 2012 is now included by default in the Installation Center

General
- New "BatchXpert Starter" tool for easy starting up of the BatchXpert system
- New "BatchXpert Recipe Editor" for easy recipe editing and printing
- New "BatchXpert System Management Console" for managing BatchXpert System Settings
- New "BatchXpert Project Management" for Backing up and Administration of BatchXpert Projects
- Improved Compatibility with Windows 8
- Bug fixes in most applications

System Requirements
- *Windows*
  - *Windows 8.1 (all editions)*
  - *Windows 8 (all editions)*
  - *Windows 7 (all editions)*
  - *Windows Xp SP3 (all editions)*
- *Sql Server*
  - *Sql Server 2012 Express (or better)*
  - *Sql Server 2008 R2 Express (or better)*
  - *Sql Server 2008 Express (or better)*
  - *Sql Server 2005 Express (or better)*
- *.Net*
  - *Microsoft .Net Framework 3.5 Full*

Version 1.3.1.0

Minor Improvements and bug fixes

Database
- Added some Debugging code to the Database

Installer
- Corrected GraphPic User Privilege names

Batch configurator
- Bug fix in Batch Configuration where proposed phase number was not correct when phases where copied
- Bug fix where user could save datasets even when not logged in, after the database as refreshed
- Added Printing Functionality to most of the Configuration Nodes

General
- Added Icons to Project Administration Tool
- Minor Optimizations to Project Administration Tool
- Bug fix where Management Console crashed during Startup
- Added BatchXpert Acoustic Alarm tool for activating the PC Speaker as alarm Siren

Version 1.2

Implementation of Control Module Metadata System

- Batch Report Viewer now has icons for Control modules

- Corrected Version of Excel Batch Summary Reports

- New enhanced User Manuals

- Installer now installs GraphPic user Privileges

- Various bug fixes

System Requirements
- *Windows*
    - *Windows 8.1 (all editions)*
    - *Windows 8 (all editions)*
    - *Windows 7 (all editions)*
    - *Windows Xp SP3 (all editions)*
- *Sql Server*
    - *Sql Server 2012 Express (or better)*
    - *Sql Server 2008 R2 Express (or better)*
    - *Sql Server 2008 Express (or better)*
    - *Sql Server 2005 Express (or better)*
- *.Net*
    - *Microsoft .Net Framework 3.5 Full*

Version 1.1

- The BatchXpert System will now be deployed by using an Installer, that installs the System in a separate directory instead of installing it into the GraphPic Bin directory
- Introduced new Report Viewer with capabilities for viewing the "Batch Reports", "Manual Operation Reports" and "Batch Summary Reports".
- Introduced the BatchXpert Framework, which consists of .Net Assemblies that provide a Programing Interface for the BatchXpert PCS.
- Introduced "Excel Batch Summary" Reports. This Report consists of a Collection of Excel Macros, designed to interface with the BatchXpert Framework. It Provides powerful functions to create Excel based reports, from the data of Batch Reporting and Manual Operations.
- The Database is now better optimized for performance and Disk Space usage, and provides Multilanguage support, just as the rest of the BatchXpert System.
- Introduced the "BatchXpert Unit Recipe Viewer". This tool is called from the SCADA System, and shows a list of all phases of a Unit. It provides an overview of the Step chain of a selected unit. Currently it provides no method for controlling the Unit. This is still done by the SCADA System.
- Introduced the "BatchXpert DB Update". This tool provides a Graphical user Interface for installing BatchXpert Database Patches, in a safe way. This tool shall be used to install the database updates.

System Requirements
- *Windows*
  - *Windows 7 (all editions)*
  - *Windows Xp SP3 (all editions)*
- *Sql Server*
  - *Sql Server 2012 Express (or better)*
  - *Sql Server 2008 R2 Express (or better)*
  - *Sql Server 2008 Express (or better)*
  - *Sql Server 2005 Express (or better)*
- *.Net*
  - *Microsoft .Net Framework 2.0 Full*

Version 1.1.3.0

- Database Administration Tool now handles Command line parameters.
- Database Administration Tool now sets the correct user privileges when restoring backups
- Batch Report Viewer now stores "Batch summary" reports are now depending on Batch Area and Program Number
- Installer now installs fonts correctly
- Added Logging and debugging to SQL Database
- New Settings Table in SQL Database
- Various bug fixes

Version 1.1.2.0

- The BDE Historical database now handles cases when the configuration is inconsistent or missing.
- The BDE Historical database is now based on Stored procedures instead of embedded
- SQL-query
- Many bug fixes and optimizations in the BatchXpert Framework
- The "BatchXpert Database Administration Tool" can now upload a language file to the server. This helps for easy translation of the database.