

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

Version 5.1

Release date

August 13th, 2025

Main new features / bug fixes

General

- Improved suggested file names for reports now include the name of the parametrization (if applicable).
- Improved and unified file names in generated support packages.
- Column selection on "tree-table-views" (e.g., export) has been removed. There was no useful purpose.
- Archive & Live Log - Visualization: Improved time range selection and navigation.
- Archive & Live Log - Visualization: Common preselected range for identical units.
- DSfG - Update the DSfG data element list to "Auflage 8, 08/2023".
- Bugfix: Archive & Live Log-Visualization - Opening an empty archive causes an exception.
- Bugfix: Archive readout - Range selection by date time was not possible.

Npp devices

- General
 - Display the result of a failed password change in a modal dialog, including the original error message rather than just a log entry.
 - Display a more informative error message if a connection fails.
 - AFB GasQuality - Added gas components CO, He, and Ar to normal mode.
 - Parametrizations - A hint appears in the user profile view when user profiles are disabled
 - Parametrizations - Show the original device error message if the transfer fails
 - Parametrizations - Improved keyboard navigation: selected nodes no longer expanded automatically.
 - Bugfix: Parameterization from the support package displays "null" as the name.
 - Bugfix: The message "Exclusive mode is already in use" appears twice.
 - Bugfix: Some IO channels are missing from the parameter list report (e.g., MFE7).
 - Bugfix: Display - System icon missing after parameterization update.
- enCore Flow computer, Station controller & Data gateway
 - Support MC1/DC1 03-43.
- Ultrasonic meter
 - Support USM 03-44
 - Reynolds numbers for the "direct top" and "direct bottom" path types have been added.
 - Support for new diagnostic bits introduced in version 3-44.
 - New parameters introduced in version 3-44 have been added to the parameter views and the config report.
 - Meter factor added to the parameter view.
 - Dashboard - Optionally display relative pressure values (gauge).
 - Dashboard - Remember the last choice of switchable charts (e.g. SNR/AGC).
 - Dashboard - Transition Time and V Line charts added.
 - Dashboard - Support for new status bits introduced in firmware version 3-44.
 - Health care tests - Display of Health care tests according to ISO 17089-1:2019 introduced in firmware version 3-44.
 - Health care tests - Pearson correlations added. Configurable via AFB "Post Processing".
 - Health care test report - Current configuration added.
 - Health care test report - Improved default name.
 - Live log - Visualization-Shorter column names.
 - Live log - Visualization-Improved initial time range - all data is shown if available data is under 36 hours.
 - Signal captures - Display signal captures on the SD card and allow storage.
 - Signal captures - Always display all peaks if they are shown.
 - Signal captures - Diagnostic data display introduced in firmware version 3-44.

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- Bugfix: Transferring a parameterization to Q.Sonic version <3-40 was not possible.
- Bugfix: A parameterization from version 3.2 cannot be written back to the device without opening and saving it first.
- Bugfix: Viewing the HCT on the dashboard may, in rare cases, prevent the entire dashboard from functioning properly.
- Bugfix: A typo has been fixed, and a missing translation was added: Label "Threshold" & Tooltip.
- Bugfix: Health care test report: Units "as device" were not applied for calculated values.
- Bugfix: Signal captures: Signal captures were not always ordered by timestamp.
- Bugfix: Dashboard: "Unexpected exception" if meter is not parameterized "Einstellungen".

LIS200 devices

- General
 - Misleading parameter "Maximum flow rate of the encoder" removed.
 - WPP files updated.
- CL5G modem:
 - Required parameters for modem firmware updates (FOTA) added.
- DL230:
 - Show encoder timings for DL230.

Version 5.0

Release date

April 29th, 2025

Main new features / bug fixes

General

- New modern Look and Feel.
- New Look and Feel with support of dark mode.
- Improved action panel (bottom left below navigation).
- Improved window handling (no more unexpected size changes).
- Improved welcome screen and about dialog.
- Print action replaced by consistent creation
- Improved color scheme to be used throughout enSuite, including graphs in archive visualization and chromatography.
- Improved preset values for device connection and search device dialogs.
- New PDF preview for data books etc.
- Redesign, restructuring and bug fixes in online help.
- Avoid long waiting when opening save dialogs.
- Respect output window options.
- Masterview is now closed if parameterization could not be opened.
- Improved security - Database backup and encryption.
- Improved security - Replace enSuite launcher with signed version.
- Improved security - Always start enSuite with a disabled Trace Function.
- Export & import functions - New User Interface for total control over export details, incl. removal of sensitive data and export via mail.
- Export & import functions - Unified file format for export and import.
- Export & import functions - Export and import of archive data.
- Export & import functions - Export and import of device data, signal captures and chromatograms.
- Bugfix: Parameter comparison - Wrong formatting of automatic parameters fixed.
- Bugfix: Modbus AFB - Missing import register types added.
- Bugfix: NPP parameterization - Copy/paste can bypass expert mode lock.
- Bugfix: XFB not available in update from older version without that XFB.
- Bugfix: Exception when switching between normal mode and expert mode.

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PMC M&C Gas

- Bugfix: Missing localization of device type in some report headers.
- Bugfix: Bad display of user defined names if they contain special characters like "<".
- Bugfix: Unexpected error when characters like umlauts in password field.
- Bugfix: Wrong password rule for old devices.
- Bugfix: Exception that occurred in rare cases while exporting a log file.
- Bugfix: DSfG- Exception when adjusting gas composition via DSfG.
- Bugfix: DSfG- Entries missing in DSfG freeze function.
- Bugfix: DSfG- Local DSfG bus usage via USB can lead to multiple entries device entries.

Npp devices

- General
 - Support new register type for Modbus AFB 03-18.
 - Support new register type for Modbus AFB 03-19 (light registers).
 - Lock device instead of whole enSuite during transfers.
 - Improved NPP set date and time dialog.
 - Optimize Modbus parameterization (light registers).
 - Online help added in dialog for unit conversion.
 - Directly call context sensitive help for IO boards.
 - Security - Internal validation of parameter files before use.
 - Security - More noticeable message if the NPP certificate has changed.
 - Bugfix: Exception during NPP "update date and time".
 - Bugfix: AFB Configuration - No confirmation message after first confirmation was declined.
 -
- enCore Flow computer, Station controller & Data gateway
 - Support MC1 03-42.
 - Support FC1 03-43.
- Ultrasonic meter
 - Dashboard - "static" or "live" indicator added to pressure and temperature entries.
 - Signal analysis functions of "Pulse Tool" added to enSuite.
 - Show correct path names for Q.Sonic-max family.
 - Support parameter changes (MeasAppl 03-04) in dialogs and reports.
 - Bugfix: Error in "Static Density & Viscosity" calculation.
 - Bugfix: HCT VoS check inconsistent data in report.
 - Bugfix: In V3.2 missing IO parameters in config report.
- Gas Quality devices
 - Support EnCal3000 proChain 03-43.
 - EnCal3000 proChain - Grouping of peaks, handling of isomers.
 - EnCal3000 proChain - Recalculation according proChain 03-34, improved User Interface.
 - Bugfix: EnCal3000 proChain - Module number not shown on status screen.
 - Bugfix: EnCal3000 proChain - Missing GC seq.states "prepare measurement" and "ready for measurement".
 - Bugfix: EnCal3000 proChain - Exception when importing an empty Chromatogram file.
 - Bugfix: EnCal3000 proChain - Copy/paste to and from recalculation for 2 modules.
 - Bugfix: EnCal3000 proChain - Calculation of additional data fails if sections are not numbered consecutively.
 - Bugfix: EnCal3000 proChain - Chromatogram tooltips sometimes were not correctly placed and disappear.

LIS200 devices

- General:
 - Increase gap between Start and "automatisch starten".
- EK205/EK205-M
 - Include EK205-M address-structure.

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Change history Version 4 & 5

PMC M&C Gas

- Firmware V1.08 - Support new LIS addresses and dyn. removal of SMS Menu.
- Enable 3rd pressure calibration point in menu structure for EK205.
- DL230
 - Display of encoder timing parameters.

Gas-net devices

- Renaming of gas-net parameterizations is now supported

Version 4.9.5

Release date

January 16th, 2024

Main new features / bug fixes

Main new features / bug fixes

Npp devices

- General
 - Support new features in DEF files.
 - Online-Help for new event and error view added.
 - Document new user security enhancements.
 - Wizards, Suggest real approval instead of none.
 - Prepare for new enCore login.
 - Data books - hide edit button if read only, only show editable sections.
 - Bugfix: Possible problem during firmware update fixed.
 - Bugfix: Closing the Remote-Operation-Panel directly after opening leads to an error message.
 - Bugfix: User defined displays appear twice in exported parameterization.
 - Bugfix: Conversion of a baseplate fails when initiated by 'make compliant'.
 - Bugfix: Missing logout after closing the Event & Error list and when terminating param readout.
 - Bugfix: Missing GUI update in parameterization.
 - Bugfix: Fixed possible endless loop when importing bad log files.
 - Bugfix: NFC displays broken after upgrading parameter in normal mode.
 - Bugfix: DSfG - NullPointerException if DSfG bus analysis has changed.
- enCore Flow computer, Station controller & Data gateway
 - Support MC1/DC1 03-41-B.
 - Support enCore 03-41-C.
 - Adapt DSfG messages A 508/A 509 in Online Help.
 - Enhance normal mode for DSfG data logger.
 - MC1 - Extension for ExDE6.
 - MC1 - add section for datalogger source to data book.
 - Bugfix: Limit for FlowConv and GasQuality AFBs missing in MC1.
- Ultrasonic meter
 - Dashboard with user defined axis scale.
 - Inactive HealthCare tests- show the pointer in the red bar area.
 - Improve Health Care Report-Add data to the process condition.
 - Health Care Test-Grey-out charts at zero/low flow.
 - Improve Health Care Report-Improve Document Header selection for reports.
 - Implement a max zoom (resolution) limit in the VoG chart.
 - Bugfix: Inconsistency in the time stamp of the Logfile and MPC-file.
 - Bugfix: Last battery replace date not correct formatted.
 - Bugfix: Action 'New Reference case' is missing.
 - Bugfix: Changing the activation of the reference case is not consistent.

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PMC M&C Gas

- Bugfix: Language in Configuration Report mixed up - English/German.
- Bugfix: Add special DSP parameters to the configuration report.
- Bugfix: Fix support package content, so that it can be imported in enSuite.
- Bugfix: Fix UI updates of I/O Test mode.
- Bugfix: Health Care Test- Limits of the Profile Factor of Q.Sonic 3 and Q.Sonic 5 meters are set inverted.
- Gas Quality devices
 - EnCal3000 proChain - Compressed chromatograms with combined data of two modules.
 - EnCal3000 proChain - Show smoothed chromatograms (in all views).
 - EnCal3000 proChain - Visualize Integration Settings: Extend tooltips.
 - EnCal3000 proChain - Visualize Integration Settings: Show Sections in chart.
 - EnCal3000 proChain - Visualize Integration Settings: Show Filter settings in chart.
 - EnCal3000 proChain - At recalculation keep selected system when view changes.
 - EnCal3000 proChain - Use parametrization for building reports/boards.
 - EnCal3000 proChain - Create Calibration Report.
 - EnCal3000 proChain - Implement Application report.
 - EnCal3000 proChain - Implement Verification report
 - EnCal3000 proChain - Rename and reorder proChain status nodes.
 - EnCal3000 proChain - Add button to the "GC Overview" view to open the "Event and error list" directly.
 - EnCal3000 proChain - Add buttons to open Chromatograms to the proChain Main Status Screen.
 - EnCal3000 proChain - GC Overlay view: add actions "Show in chart" and "Hide in chart" into the context menu.
 - EnCal3000 proChain - Allow chr.gz files to be imported directly.
 - EnCal3000 proChain - TCD2 temperature missing in status view.
 - EnCal3000 proChain - German translations for GC AFB added.
 - Bugfix: EnCal3000 proChain - Incomplete renaming from 'Sequence State' to only 'State'.
 - Bugfix: EnCal3000 proChain - Open multiple Chromatograms at once leads to a wrong divider position.
 - Bugfix: EnCal3000 proChain - Displayed error message corrected if a chromatogram could not be imported.
 - Bugfix: EnCal3000 proChain - LED in PDF reports.
 - Bugfix: EnCal3000 proChain - CalBase & Height added to Calibration Report.
 - Bugfix: EnCal3000 proChain - GCAnalysis updated and handling of unknown versions improved.

LIS200 devices

- General:
 - New parameters for eDRX and PSM added to parameter tree for LIS200 devices.
 - For TCP connections, auto retries added to support NB-IoT devices with active eDRX.
 - WPP files updated and handle EK205-M like EK205
 - Display of the 2-/3-point calibration in data book.
 - Bugfix: Visualization - For EK280 and DL230 incorrect designation of the administrator lock in the logbook.
- EK series
 - Support SGERG-Mod-H2 mode at conversion settings.
 - Support GOST-30319 mode at conversion settings.

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Change history Version 4 & 5

PMC M&C Gas

Version 4.9.4

Release date

June 16th, 2023

Main new features / bug fixes

General

- Online help improved
- Improve the archive name when saving
- Remove Linux and Mac Os libraries from JNA

Npp devices

- enCore Flow computer, Station controller & Data gateway
 - Load device type and AFB info from Data base - replace layer registration
- Ultrasonic meter
 - Support USM 03-00
 - Support USM 03-02
 - Use SonicExplorer-Format as default-selection for logfile export
 - Add "fiscal"-label to make "reduced accuracy" status clearer
 - Allow editing/adding the name of logfiles and signal captures
 - One FARC for all USMs
 - Allow to rename NGQ log recordings
 - Enable properties editing for reference cases
- Gas quality devices
 - EnCal3000 proChain - Paste recalculation values into parameterization

LIS200 devices

- General
 - Show SMSC in tree structure
- EK series
 - Update wpp files for MKV variants (new G685-6)

Version 4.9.3

Release date

December 7th, 2022

Main new features / bug fixes

General

- Online help improved
- DSfG console - EADR combo box now also accepts manual entry

Npp devices

- General
 - New view to track and acknowledge alarms and warnings
 - New "save as" function for parameterizations
 - Enable save action also if Export view is selected
 - Live data & trending - Allow to display parameter values in "live data & trending"
 - Live data & trending - Allow copy/paste for listed data points
 - Improved readout of Dashboard data

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

- Improved message about buyable AFB
- Parameterization comparison improved when comparing units of imports (showed unexpected entry)
- Print device status to log after connection if device is in any stop condition
- Bugfix: Allow a 'space' as parameterization name
- Bugfix: Deadlock when names entered by the user contains '{'
- Bugfix: USB problems when communicating with ExMFE5-Simulators and enCore devices
- enCore Flow computer, Station controller & Data gateway
 - Support version 03-41 for FC1, ZM1 and BM1 including the respective approvals
 - Support version 03-41 for MC1 and DC1 without approvals
 - Support SGERG-mod-H2 in Normal Mode of FC1, ZM1, BM1 (GasQuality 03-16)
 - GasQuality parameter "Zm, Zb calculation input check" does no longer lock the expert mode
- Ultrasonic meter
 - Unit system conversion: Convert inches <-> meters in both directions
 - Bugfix: Dashboard-Health Care Tests – 'Unexpected exception' if the connection is not open
 - Bugfix: Closing the reference case view with changes triggers the wrong dialog.
 - Bugfix: HCT Reports (PDF) do not respect range definitions for the range bars
- Gas quality devices
 - Status and last results view replaced
 - Improved resolving of enumeration names
 - EnCal3000 proChain - Enabled generic reports (parameters, Modbus, network settings)
 - EnCal3000 proChain - Show Live Chromatogram for second module
 - Recalculation - Use consistent naming for components
 - Bugfix: Calibration report was not correct for versions before 3-40
 - Bugfix: Exception when pasting GCM parameters from version 03-39 in recalculation dialog

LIS200 devices

- General
 - Data book - Added values for ECC if ECC is available and active
 - Data book - Extended Output configuration: timings and HF settings
 - Data book - Time Shift Mode added
 - Parametrization - Time Shift Mode added
 - Parametrization - User access options added
 - Parametrization - Visibility condition for ECC changed from device menu settings to access right check
 - Parametrization - 3-point calibration: 3rd Calibration Point added for pressure and temperature sensors
 - Parametrization - WPP files updated
 - Bugfix: Parametrization - DSfG archive parameters could not be saved in saved parametrizations
 - Bugfix: Parametrization - LIS200 Connection settings: 'Administrator Lock handling' changes to 'Close always' by opening the settings dialog.

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

Version 4.9.2

Release date

May 5th, 2022

Main new features / bug fixes

General

- Internal library updates
- Bugfix: Archive view - Values of type integer are not displayed in the chart

Npp devices

- General
 - ExMFE5-Simulator integrated into enSuite
 - Hyperlink to log after parameterization readout added
 - Accept firmware containers with case insensitive extension (.sdmv2, .SDMv2, etc.)
 - Improved tab naming for different reports/data books
 - Improved remote display operation (especially on slow connections)
 - Advanced Modbus register view - list all registers by number
 - Bugfix: Refresh problem in Modbus list after adding new import register
 - Bugfix: Same username can be reused in different user profiles
 - Bugfix: DSfG archive readout last n entries did not work if archive contained less than n entries
 - Bugfix: Refresh problem in export tree after context change.
- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-39-D with MID approval
 - Provide all generic document types for all NFC devices: Modbus, IEC60870, network, parameter list
 - Consistent document names
 - IEC80670: Fixed wrong display of station in IEC report, missing localization
 - Removed internal parameters from NFC parameter list (report)
- Ultrasonic meter
 - Support all different NGQ device types of version 03.40
 - Improved dashboard and health care tests, especially for Q.Sonic-max6+
 - Improved and extended online help for NGQ
 - Create support package for all NPP devices
 - Bugfix: Issues with long term connections solved
- Gas quality devices
 - EnCal3000 proChain: Removed some information from calibration report, which was not available in older versions
 - Bugfix: Wrong folder order for saved chromatograms

LIS200 devices

- General
 - Support 32bit status register in archives (read via DSfG and LIS protocol)
- EK205/EK205-M
 - Support EK205 with internal modem
 - Updated data book EK205-M

Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

Version 4.9

Release date

January 21st, 2022

Main new features / bug fixes

Npp devices

- General
 - Support EnCal 3000 proChain 03-40-A
 - Compare parameterization function added
 - Convert unit system (metric, imperial) function added
 - 'Device service package function added (Analysis data for service activities)
 - Bugfix: Changes of invalid parameterization still visible if not saved
 - Bugfix: NullPointerException after deleting user-defined units
- enCore Flow computer, Station controller & Data gateway
 - Bugfix: Normal mode geometry correction: does not assign p and t at USM script
 - Bugfix: Cannot add USM Modbus to a serial port if locale is tr (Turkish)
 - Bugfix: Unit MMBtu is not displayed correctly during archive readout
 - Bugfix: Missing GUI update after ValueChanged (choice of IProt devices) in AFB IO-CPU board 0 - COM port 1&2
- Ultrasonic meter
 - New device parameterization dialogs added
 - New dashboard for live values, Reference-Cases and Health-Care-Tests
 - New functionality for device signal capturing and logging
 - New reports (PDF, CSV) for device configuration, Health-Care-Tests, logging
 - New online help
- Gas quality devices
 - Create Calibration report function added

LIS200 devices

- EK280
 - Support Firmware V2.60 including DSfG protocol
- CloudLink 5G modem
 - Support EK280 2.60 and DL230 1.15 for new CloudLink 5G modem

Version 4.8

Release date

November 11th, 2021

Main new features / bug fixes

General

- Improved table of DSfG freeze function, correct calculation of average values
- Bugfix: File-Choosers cannot be opened anymore if an invalid path was entered
- Bug fix: Problem with DSfG freeze function (access codes can be entered again)

Npp devices

- General
 - Bugfix: enSuite does not merge some archives via MMS and DSfG
 - Bugfix: Cannot exchange approval file via enSuite, button sometimes not active

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

- Bugfix: NPE in SetDateTimeController
- Bugfix: DSfG connection via USB shows up in navigation with IP address instead of "USB: local DSfG bus"
- Bugfix: enSuite 4.7 connection issues with devices prior to 03-39-A
- Bugfix: Drag and drop of exports sometimes leaves unassigned imports
- Bugfix: Closing parameterization with FB-Version change causes exception
- Bugfix: Superfluous actions on device types in product parameterizations
- Bugfix: NPP-USB - Connect triggers an error message if two devices are connected
- enCore Flow computer, Station controller & Data gateway
 - Support MC1 03-39-C
 - Support DC1 03-39-C
 - Support FC1 with MID approval Rev.7 (meter correction up to 20 points)
 - Wizard and normal mode for legal functions of DC1 added
 - Option for manual exclusion of I/O board from legal use removed
 - Data books – Data logger section for MC1 added
 - Bugfix: Invalid parameterization may show up as valid after reopening
- Gas quality devices
 - GasLab Q2 - Generate and sign FARC for GasLab Q2 NMi Rev. 3
 - Bugfix: GasLab Q2 - Software configuration offers duplicate entry for Q2 AFB

Version 4.7

Release date

July 16th, 2020

Main new features / bug fixes

General

- Notification window added for 32-bit version
- Parameter tables - Pressing the delete key, triggered the editor instead of deleting the selected rows
- Favorites - Delete Message improved
- Derby server option removed from the database settings
- WinPADS compatible Trace File generation removed
- Security log added (permanent log, with security relevant entries)
- Bugfix: Archive Export failed on some (very rare) system locales
- Bugfix: Serial connections not possible if the "High Entropy Bottom-up Randomization" is forced by Windows

Npp devices

- General
 - Security - TLS to secure MMS communication added
 - Security - TLS certificate handling in enSuite
 - Security - handling of sensitive data
 - Security - enSuite GUI changes for sensitive data
 - Security - export parameterization without sensitive data
 - Security - HTTP protocol for enCore remote operation panel removed
 - Security - Remote operation panel via MMS/TLS added
 - Security - Remote display (security adaptations) added
 - Open parameterizations prevented the deletion of other elements belonging to the same device
 - Pasting parts of parameterization do not update parameter table
 - Firmware configuration: confusion concerning FARC files
 - Modbus - Adding register takes too long
 - Modbus - Validation blocks GUI for too long time
 - Whitelist 'Holding time' on MFA8 MessageOut and TriggerOut

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

- DSfG freeze function - allow for simultaneous freeze of 2 streams
- DSfG GetIt - allow for tables with results of more than one std request (e.g. bka, bkc)
- enSuite wizards - add option for MFA8
- Bugfix: DSfG communication does not handle RMG devices correctly
- Bugfix: Some exports of AFB SoftPLC are not displayed correctly when assigned to imports
- Bugfix: Error when creating or importing log files for GQ adjustment via DSfG
- Bugfix: Parameter are missing when copying parameterizations
- enCore Flow computer, Station controller & Data gateway
 - Support FC1, BM1 and ZM1 version 03-39-A
- Gas quality devices
 - Support GasLab Q2 03-39-A
 - Support EnCal3000 proChain 03-39-A
 - EnCal3000 proChain - Peak Polarity added to recalculation parameters (in Overlay View)
 - EnCal3000 - direct MODBUS connection, overview page of latest measurements of all streams
 - EnCal3000 - import and display of chromatograms
 - EnCal3000 - assign gas-net 3000 devices (frontend) to EnCal3000 in navigation

LIS200 devices

- General
 - Data books - The data book tree in the parameterization reflects now the real data book
 - Data books - Texts between data books of different device types aligned
 - Data books - Note for cp-Value " not used for encoder operation" added.
 - Data books - Manufacturer ID according to DIN 43863-5 added (if available in device)
 - Data books - Information about SW-Update possibility added.
 - Data books - Mode of Volume Comparison added.
 - Data books - EK205 Output 2 added.
 - Document "BRG & HBA" approval number corrected.
 - Parameterization - Counter sync: "VbP"/"VnP" are now automatically written before the synchronization function is executed.
 - Parameterization - status values are now periodically updated.
 - Parameterization - Monthly event dialogues allowed "0" as day of month.
 - Parameterization - Inputs - "Gas Meter Type" changed to "Gas Meter Size".
 - Parameterization - Modbus: Support for devices with more than 70 registers.
 - Parameterization - Order of Parameters in Hardware menu changed according to new device versions.
 - Parameterization - List of communication status messages updated.
 - Parameterization - Modem Battery voltage - visibility restricted (not supported by all modems).
 - Saved parameterizations - Values with the format "ATTRIBUTE_SOURCE" (used by some FTP transmission modes) could not be restored.
 - Saved parameterizations - The limits of events (e.g. time windows) could not always be restored (the parameterization must be applied twice, if the source has changed).
 - Saved parameterizations - Offline view improved: more parameters can now be shown offline
 - Device search title - "(EK/DL Series)" added to "LIS200"

Gas-net devices

- Support gas-net D1n 1.03
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Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

Version 4.6.1

Release date

October 10th, 2019

Main new features / bug fixes

General

- DSfG console is now able to send time sync telegrams (Attention Z)

NPP devices

- General
 - Allow clock synchronization via MMS also if security switch is closed (Device is responsible for keeping restrictions e.g. sync interval).
 - Improved handling in MMS protocol - communication retries if device signals are busy (e.g. read out parameterization directly after restart)
 - Bugfix: Save button was not enabled after upgrading Normal Mode parameterization
- enCore Flow computer, Station controller & Data gateway
 - Support ZM1 03-38-A including signature function with MID/PTB approval (Rev. 4)
 - ZM1 - Provide recent default settings for GQ: Default gas quality settings for a new parameterization changed to MKV H-gas according to DVGW-486
 - Production year is now part of read out parameterization (\geq NPP 03-38) and will be printed in the data book
 - Missing message exports of 2nd stream added to Normal Mode
 - It is now possible to turn off wire break detection on ExMFE5 in Normal Mode

LIS200 devices

- General
 - WPP Files updated

Version 4.6

Release date

August 29th, 2019

Main new features / bug fixes

General

- Alternative to the tree view in the navigation window removed
- Visualization - Hint added to indicate that a column is calculated by enSuite

NPP devices

- General
 - Existing but unused AFBs can be removed from device during software update
- Gas quality devices
 - Support EnCal 3000 proChain 03-37

LIS200 devices

- General
 - LIS-200 Archives - Show short description of the value instead of LIS-200 address by default
 - Archive-Viewer - additional options to filter warnings and hints

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PMC M&C Gas

- FTP "Clear readout control" commands added
- WPP-Files updated
- Bugfix: Only available actions should be shown for a device in the favorites folder
- Bugfix: Measurement period archive EK260 - Some alarms and warnings are not handled correctly by the corresponding filters
- Bugfix: Visualization - Problems with value status filter solved

Version 4.5.3

Release date

July 12th, 2019

Main new features / bug fixes

General

- enSuite 32-bit version again available on the homepage

NPP devices

- General:
 - Improved online help for Orifice AFB
 - Bugfix: 'NullpointerException' when creating a new MC1 parameterization from scratch

LIS200 devices

- General
 - Parameters for 'Best-Netz' (available in EK280 V2.53) added
 - WPP-Files updated

Version 4.5.2

Release date

July 2nd, 2019

Main new features / bug fixes

General

- Improved handling of DSfG bus member list if only internal addresses are available
- Bugfix: Problem with reading archives (MMS) from devices with negative time zone solved

NPP devices

- General
 - Provide SigCheckV2 as separate tool for signature verification
 - Startup display - Predefined SFB display as startup display possible (e.g. error list main display)
 - Online help for AFB Orifice added
 - Bug fix: Problem when reading logbook from EnCal device solved
- enCore Flow computer, Station controller & Data gateway
 - Support MC1 03-36 (PTB approval for Signature Function)
- Gas quality devices
 - Support GasLabQ2 03-36

LIS200 devices

- WPP Files updated

Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

Version 4.5.1

Release date

May 29th, 2019

Main new features / bug fixes

NPP devices

- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-35-A (Support for Orifice meters)
- Gas quality devices
 - Support Q2 03-34-A (Support for AFB TCPSerial Revision 03-02-F)

Version 4.5

Release date

May 17th, 2019

Main new features / bug fixes

General:

- The setup includes now an OpenJDK version. Requirements changed: 64bit Windows 7 or newer- see enSuite installation-instruction
- Document function (data book): dialog did fail to open if the user defined logo has an unsupported format.
- Speed up archive readout for NPP devices

NPP devices

- General
 - Data books: Do no longer print current year as 'year of production', field left empty for editing
- enCore Flow computer, Station controller & Data gateway
 - Support MC1 03-34 (4 PreProc groups in MeasTools, IEC60870 with stations, DSfG signature unit without approval, DSfG event forwarding)
- Gas quality devices
 - Support Q2 Version 03-34

Version 4.4

Release date

March 7th, 2019

Main new features / bug fixes

NPP devices:

- General
 - New feature DSfG GetIt: Configure requests and export results for various verification and calibration purposes
 - HART calibration of Honeywell pressure transmitter can be done directly via the Flow Computer FC1
 - Counter comparison pre-warning value set to half of warning value in normal mode
 - Bugfix: Ask for new comparator settings if comparator setup changed
 - Bugfix: DSfG "Zeitsync durch Zentrale zulassen" does not work in normal mode
 - Bugfix: The DSfG console could not be opened from the favorites
- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-33-A

Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

- Gas quality devices
 - Support proChain 03-33-A

LIS200 devices:

- General
 - WPP-Files updated
- EK series
 - Calorific value for S-GERG added to the data book section of the parametrization.

gas-net devices:

- Connection to DSFG bus is also possible via serial connection (DSS)

Version 4.3.2

Release date

January 8th, 2019

Main new features / bug fixes

NPP devices:

- General
 - German-language properties for AFB Postprocessing added (translation of new parameters was still missing)
 - Bugfix: enSuite freezes when requesting the 'Remote operation panel' via USB if it is not supported by the device
 - Bugfix: Changes are sometimes not recognized by copy and paste operations
 - Bugfix: The hyperlink in the output window of imported NQM product parameterizations did not work

LIS200 devices:

- General
 - Parameter "Encoder reading cycle time" added
 - WPP Files updated
 - Lock handling changed: Admin Lock is now always closed by default at the end of a connection
 - Firmware update: Multiple devices can now be updated simultaneously
- Modem
 - ComTCPServ: Support for S0 parameter

gas-net devices:

- Bugfix: Set counters for gas-net series 1 not possible

Version 4.3.1

Release date

November 23rd, 2018

Main new features / bug fixes

NPP devices:

- General
 - Bugfix: Error using parameter 'Inhibit on revision' in Normal mode for pulses calculated from flow rate
 - Bugfix: enSuite hangs-up after definition of some min/max indicators

Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

- Bugfix: Error by assigning consumption values to pulse outputs
- Gas quality devices
 - Support EnCal 3000 proChain 03-32-A

Version 4.3

Release date

October 4th, 2018

Main new features / bug fixes

General:

- Files can now be imported by dropping them in an empty area of the navigation window
- Bugfix: Problem in 'Adjust gas composition' via DSfG

NPP devices:

- General
 - Missing 'set counters' for DSfG data logger in normal mode added
 - Bugfix: Possible wrong I/O description in data book
 - Bugfix: Wrong status of parameter activation checkboxes in online parameterization (normal mode)
- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-31-A
 - Support ZM1 03-31-A with PTB approval
- Gas quality devices
 - Support EnCal 3000 proChain 03-30-A
-

LIS200 devices:

- General
 - WPP-Files updated
- EK280
 - Data book for EK280-T added

Version 4.2.1

Release date

August 8th, 2018

Main new features / bug fixes

NPP devices:

- Ultrasonic meter
 - Support Q.Sonic Firmware V2.11 again

Parameterization & Analysis Software enSuite

Change history Version 4 & 5

PMC M&C Gas

Version 4.2

Release date

July 13th, 2018

Main new features / bug fixes

General:

- Handle incompatibilities in DSfG archive readout of RMG devices
- Improved DSfG connectivity via Modem

NPP devices:

- enCore Flow computer, Station controller & Data gateway
 - Support MC1 03-29-A (incl. general DSfG requester and IEC60870-5-104 standards)
 - Support BM1 03-29-A (MID release)

LIS200 devices:

- General
 - Bugfix: The "Sync to PC time" function could not be used if the time zone was negative

gas-net devices:

- Import ZUG files (DSfG connection parameters) from GASWORKS

Version 4.1.1

Release date

June 8th, 2018

Main new features / bug fixes

LIS200 devices

- General
 - Parametrization for FTP-Transmission improved
 - More names are now shown in the tree part of the parametrization.
E.g. the receiver's name in the telephone book
 - Support for fixed communication intervals smaller than "hourly"
 - Bug fix for the first versions of DL240 and EK260 devices:
Switching from or to time windows including midnight did not work correctly.
- DL230
 - WPP-Files for DL230 V1.01
 - Position of the CP-Value changed for DLs

Version 4.1

Release date

April 10th, 2018

Main new features / bug fixes

General

- Support of modem communication for DSfG

Parameterization & Analysis Software enSuite Change history Version 4 & 5

PMC M&C Gas

NPP devices:

- enCore Flow computer, Station controller & Data gateway
 - Support DSfG for FC1 in normal mode
- Ultrasonic meter
 - Support Q.Sonic Firmware V2.11

gas-net devices:

- Bug fix: 'select modem type'
- 'Set counters' added in function 'end of commissioning'

Version 4.0.2

Release date

March 6th, 2018

Main new features / bug fixes

NPP devices

- General
 - New MODBUS register format 'counter (fractional part)' available
 - Bug fix: Problem after closing enSuite with open USB connection
- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-28-A with MID approval
- Gas quality devices
 - 'Chromatograms' action removed for Q2 devices

Version 4.0

Release date

January 4th, 2018

Main new features / bug fixes

General

- Support of gas-net parameterizations

NPP devices

- enCore Flow computer, Station controller & Data gateway
 - Support FC1 03-27-A

LIS200 devices

- Modem
 - ComTCPServ - autobaud feature added