

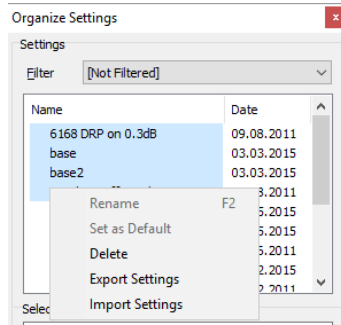
## What's new in ACQUA 3.4.100

### New Features:

- **Windows® 10 supported**
  - Requires a new version of the SQL server (SQL 2014)
  - Databases and backups created with SQL 2014 can no longer be used with SQL 2008 R2
  - ACQUA 3.4.100 still supports older Windows® versions (Windows® 7 or later)
  - In this case, SQL server update to SQL 2014 is not mandatory
- **Database Administrator: New functions**
  - The new functions "Batch Backup all Databases" and "Batch Restore Backups" make the migration to a new SQL server easier
  - When updating the server a backup of all data is recommended
  - The function "Show Database Overview" lists all databases on the server including paths, date of the last backup and overall size (for local server only)
- **HHP IV MotoMount**
  - Option BT-Vol HHP IV (Bluetooth Volume Control of DUT for HHP IV)
    - The volume of a clamped-in handset in a HHP IV MotoMount can be set during measurements via Bluetooth®
    - Fully automated measurements in combination with HHP IV
    - Significant time saving
    - Bluetooth® Dongle is inserted in the HHP IV
    - Control in ACQUA via Python script or via handheld unit
    - Possible with (almost) every mobile phone that supports the Human Interface Device 1.1 profile
    - This feature is a separate HHP IV option (Code 1415)
  - New drive speed mode: Fast Mode
    - Individual measurement positions can be approached up to four times as fast as normal drive speed mode
    - Measurement time reduces significantly
- **MFE VIII.1**
  - EVS
    - EVS codec is now available for the use with MFE VIII.1 as a new option (Cod-EVS)
    - This option supports:
      - All specified bandwidths (narrowband to fullband)
      - All specified bit rates/modes (including the AMR-WB interoperable mode)
      - Discontinuous Transmission (DTX)
      - Comfort Noise Generation (CNG)
      - Codec Mode Requests (CMR) in both directions



- Static jitter buffer instead of EVS's adaptive jitter buffer (guarantees accurate delay conditions)
  - Switching bandwidths manually during a measurement (call) is possible
  - Cod-EVS cannot be enabled on primary front end
- Network Impairments
  - Network impairments are now optionally available for the use with MFE VIII.1 (MFE VIII.1-IMP)
  - This option allows the simulation of different IP network impairments directly at the signal source (i.e. delay, jitter, packet loss)
  - Allows reproducible measurements even with activated DTX
  - This option can currently only be enabled on the primary front end
- **HIB I – Headset Interface Box**
  - In conjunction with ACQUA version 3.4.100 and the measurement front end MFE VI.1, users can apply HIB I
  - HIB I can serve as a reference front end for measuring and assessing the quality and standard compliance of (stereo) headsets and the headset functionality of telephones
  - The new front end is especially suited for measurements according to ITU-T P.381
- **ACOPT 2, Option Signal Analysis**
  - This ACQUA option is extended by the following Modulation Analyses:
    - Degree of Modulation vs. Time
    - Modulation Frequency vs. Time
    - Modulation Spectrum
    - Modulation Spectrum vs. Time
    - Modulation Spectrum vs. Band
    - Cepstrum
- **ACOPT 25, Option Psychoacoustic SMDs**
  - Now the following options are available:
    - Prominence Ratio
    - Fluctuation Strength
    - Articulation Index
    - Tonality
    - Tone to Noise
  - Except Tone to Noise, all analyses can be used with the Psychoacoustics SMD (Single Measurement Descriptor) automatically
- **Calculation -> Level shows the Peak value**
  - In addition to the overall level, the peak level and the frequency at which it occurs is displayed
- **Store Current Settings expanded**
  - Now the user can choose between storing the current settings or the active settings of the next measurement
- **Import/Export of individual settings**
  - Settings can be shifted between different ACQUA systems easily
  - All selected settings are exported to an XML file and several settings can be selected for import from a file



- **MFE VI**
  - Synchronization of MFE VI via AES input possible
- **Run Script**
  - Now also when opening/closing projects
- **Conditional Execution**
  - Now also for multiple selection
- **Tag Editor**
  - "Search" and "Replace" in tag values

### Bugfixes:

- Problems with dialogs behind the splash screen: Dialogs which were hidden by the ACQUA splash screen conveyed the impression that ACQUA has crashed; Now all dialogs should be displayed correctly
- Copy and paste of diagrams out of the ACQUA result diagram: All curves were not always copied
- Show measurement settings: The values for External Gain were not taken from the selected setting, but from the current setting
- MFE XI / A2DP: The preferred sampling rate was not set correctly
- Namespace Information: Namespaces were not applied in a standard and were also missing when copying/duplicating projects
- Message "HHP IV missing": Always appeared as soon as a SMD has HHP IV settings but no HHP IV was detected. Now, the user indicates that he has no HHP IV only once and the message will no longer be displayed.
- Tag Editor: Tag value lists are now sorted alphabetically