

## **What's new in ACQUA 3.2.100**

**Attention: ACQUA databases cannot be used by ACQUA versions earlier than 3.1.300 anymore once they have been opened with ACQUA 3.2.100!**



- Windows 8 / 8.1 supported
- MFE VIII.1
  - Control now via MFE VIII.1 Settings window in ACQUA and ACQUAlyzer
  - Use MFE VIII.1 as Audio Device via USB
- **New ACOPT 32: Speech-based Double Talk**
  - Requires ACOPT 32 (code 6859)
  - Listed by TS 26.131/32 Rel. 12
  - Integrated as ACQUA SMD
  - Manual analysis possible via ACQUAlyzer
- **ACQUAlyzer Calculation Menu:**
  - Double Talk analyses added
  - Enhanced TOSQA, EQuest, 3Quest, SNR-I and Double Talk Analysis
    - Select channels from different files
    - Select time range in calculation window
    - Seq. Windowing can be set where applicable
    - Default time ranges for known 'standard' files
- **New ACOPT 33: Turntable Support**
  - Requires ACOPT 33 (code 6864)
  - Supported turntable model: LinearX LT360
  - Requires adapter CUD I (code 6086), USB <> D-SUB 9-pin
  - New SMD Type: Turntable
  - Turntable positions can be listed in SMDs of this type
  - Tolerance scheme usage is possible
  - Turntable Settings window allows full control of turntable
- **Polar diagram**
  - Requires turntable option (ACOPT 33; cf. below)
- **Open additional projects in separate viewers (r/o)**
  - Selected results of all open projects will be displayed simultaneously in result diagram
  - Not available for ACQUA compact systems
- **Project Merge and Compare**
  - Projects can be compared comfortably and SMDs with results can be copied
  - Not available for ACQUA compact systems
- **Copy projects without time data**
  - When copying complete projects with measurement objects in the database manager, time files of results can be excluded to save disk space.
- **Conditional execution**
  - Starts or skips measurements after evaluating definable conditions
  - Evaluates variables
  - Works on SMDs and MMDs
  - Repeat n times if not OK
- **SMD Change History**
  - For each SMD separately (via context menu)
  - Overview of all changes in project (via "Project" in main menu)
  - "Copy project" in DB tree makes exact copy of project including history.
- **Event Log**
  - Event log traces changes chronologically over all projects (via "File" in main menu).
- **Export list of SMDs used in project to Excel (ACQUA Project Menu)**
- **Export to xlsx format possible**
- **System Variables**
  - These variables are the same for all measurement objects.

- They are prefixed by 'System.'
- **Variables can be of different types now: string, bool, int, double instead of double only.**
  - That's used for conditional execution.
- **Namespaces for variables**
  - A namespace is a prefix for a variable. It is like an MMD setting (and can be changed via MMD settings tab), all variable names used in subordinate SMDs will get the namespace prefix. Variables with the same name used in different branches of the tree access different values.
  - Namespace can be changed via MMD settings tab
  - SMD title in tree changes with namespace if placeholder %ns% is used
- **Store the results of all runs and channels to variables**
  - For compatibility, the names of the default variables are unchanged
  - All other variable names get a suffix: **CnRm**, n: **C**hannel number, m: **R**un number. Parts of the suffix will be omitted if not needed
- **Edit Tags**
  - Tags can be edited for multiple SMDs simultaneously
  - Tags can be created or deleted for all items at once
  - Individual items can be edited from this window
  - Tags are accessible via ACQUA scripts (e.g. for application force, use case, volume control etc.)
- **Advanced measurements settings**
  - Temporarily: Applies to next measurement only
  - Accessible via pressing Shift while clicking "Start measurement"
  - Options:
    - Don't apply MMD settings
    - Apply comment to each result
    - Repeat X times
- **MFE VI User Filter IN-/Export (MFE VI with BEQ Option only)**
- **MFE VI Filter Info (MFE VI with BEQ Option only)**
  - Shows positions and names of all available filters
  - If available, shows serial number of the associated head
- **MFE IX**
  - Buffer for bandwidth limitation: The specified amount of packets will be buffered, all further incoming packets are dropped (requires firmware 1.02 or later)
- **MFE XI**
  - Ready to support aptX® Codec, which is in preparation as MFE XI option
  - New Log: the old log could lead to hang-ups, if it contained a large number of entries.
- **Quality Pie**
  - 3QUEST SNG values can now directly be assigned to pie segments (assignments can be removed in the same manner)
  - Clicking on an pie segment will focus on the associated SMD in the measurement tree
- **Result Diagram**
  - Calculated curves and tolerances can be exported to Excel
- **FFT Smoothing changed**
  - All smooth modes selectable in SMDs
  - Moved from *Representation* to *Transformation*
  - Changed to a simpler smooth algorithm (averaging in given bandwidth)
- **New ACQUAlyzer analysis FFT Peak Hold added SMDs: FIR- and IIR-filtering also allowed in mode Analyze existing file**
- **SMDs: Ancestry Information**
  - Two text fields: *Underlying Standard* and *Database Version*. Can be set via "special features" in the SMD editor for each SMD separately or for all SMD's of a project when defining a new standard
- **SMD Correlation & Transfer Function:**
  - New Options *Envelope* and *Normalize*
- **DF/FF average updated (P.58 05/2013)**
- **Backup of settings**
  - If a settings file is corrupted, an older version will be used automatically.
- **Command files: Default commands executed if a measurement fails / is cancelled**
  - 'OnAbort': e.g. 'HAE OnAbort 'Stop<10>' stops HAE-BGN's playback when a measurement is interrupted.
- **New features for the signal editor:**

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- The spectrum of the edited mark can be shown
- Results of level calculations can be collected in a result window. Also active speech level can be calculated (ACOPT09 needed).
- File meta information can be edited
- Processing sets allow defining and storing complex processing procedures, which can be applied by one click
- **Optimized Anti-Aliasing Filters (MFE VIII, MFE X und MFE XI)**

By using longer filters a higher signal attenuation is achieved at the limit frequency. However, this leads to a slight increase in signal delays of these devices.

Sampling Rate	Additional Delay
8 kHz	1.3 ms
16 kHz	0.65 ms