



# **QMSOFT® Manual - QM-TASK**

*Release 8.1*

**L&W Gesellschaft für Fertigungsmesstechnik  
und Qualitätssicherung mbH**

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The automatic data comparison for the management of gauge information between a QMSOFT® environment and a parallel system is useful and necessary when a certain division of tasks has to take place between the two systems:

- QMSOFT® has extensive functions for the calculation of tolerances and target values in the field of classic test equipment in the field of length and the corresponding calibration procedures as well as for the creation of auditable calibration certificates.
- The strengths of the administration tool used in parallel may lie in its company-wide availability and in the integration of all business procedures and processes in the company.

This document is intended to help you to setup the QMSOFT® data synchronization feature by yourself. For further information on QMSOFT® or the range of services offered by L&W GmbH, please also visit our website <https://www.lw-gmbh.com>!

## 1.1 Basic technology of data synchronization

Technically, the data synchronization on the QMSOFT® side is implemented by a system service that is integrated into the Windows operating system of the host computer and conveniently runs on the server machine on which the QMSOFT® database server is installed. Relevant for the choice of host system is the best possible accessibility of the SQL server.

The data synchronization is file-based in a defined common directory for transfer from the third-party system (e.g. SAP) to QMSOFT® or from QMSOFT® to the third-party system.

Both directories must be readable and writable from both systems.

### Note

Please note the permission situation when setting up the service it must have access even if the user is not logged in!.

For each test equipment, a file is created in a format previously agreed between the third-party system support and L&W GmbH within the framework of a specification (e.g. XML, CSV, INI, XLS, etc.). The file structure is documented by L&W in a comprehensible manner in the form of an example.

The format of the files and their logical structure are adapted to the customer's wishes as part of a customization process, which incurs development costs!

The gauge is generally identified via the unique ID or equipment number, which is usually assigned automatically in the third-party system or in QMSOFT® (depending on customer specifications).

If test equipment is created manually in QMSOFT®, the person creating must ensure that the identification or equipment number has previously been generated in the third-party system. Complete validation cannot take place within QMSOFT® (only the uniqueness of the number is checked, not the syntax).

## 1.2 Data to be transferred

For the direction from QMSOFT® to the third-party system, the transfer file contains master data and history data (including the link to calibration certificate files stored in the same directory) For the direction from the third-party system to QMSOFT®, the transfer file usually only contains master data.

## 1.3 Frequency of data transfer

The timing of the data transfer can be flexibly adapted to current requirements on the QMSOFT® side:

- Transfer takes place when QMSOFT® starts.
- Transfer takes place when QMSOFT® closes.
- Transfer takes place according to a schedule.

In most cases, it makes sense to use a schedule. The following options are available to you:

- The starting point is a time for the start of the schedule (i.e. the time of the first data transfer); the time can be specified to the second.
- An interval specification (once, every second, every minute, hourly, daily, weekly, monthly) describes the frequency of the transmission relative to the time of the first transmission.

This should make it possible to cover most transfer scenarios.

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### Installation and configuration

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This section is intended to help you answer any questions that may arise before or during the installation of the software in order to avoid unnecessary effort and inappropriate configuration settings right from the start.

#### 2.1 Installation of the service

In the QMSOFT® program directory C:\Program files (x86)\Qmsoft\Bin you will find the start program QMSOFT®/QMTaskStarter (file name: QMTaskStarter.exe), which allows you to load and start the data exchange service. It is important to note that a functioning QMSOFT® environment is required for the program to run on the machine on which the synchronization service is to run.

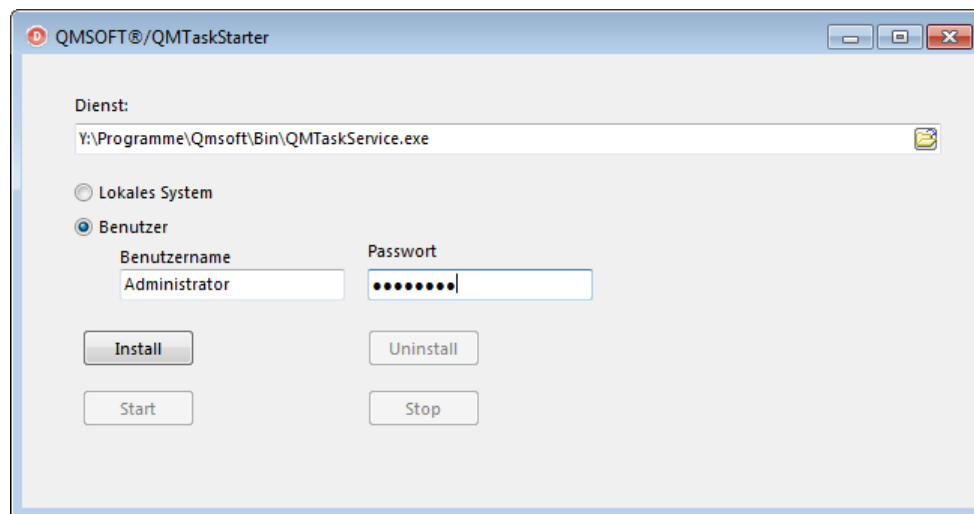


Fig. 2.1.1: QMSOFT®/QMTaskStarter.

The service to be installed in the form of the file QMTaskService.exe is located in the same directory as the launcher

Qmsoft.exe (by default in C:\Program files (x86)\QMSOFT\Bin).

Please ensure that the user under which the service is to run has the appropriate access rights to the transfer and program settings directories to be used!

Please ensure that the current user has write access to the QMTask.ini file so that configuration changes can be made without local administration rights.

With the help of the service management of the host system, you can check whether the service was successfully put into operation. There is also the option of reassigning the login information (and thus the access rights) if this should be necessary.

## 2.2 Setting up the transfer

Now start the QMSOFT® environment as usual, in the QMSOFT® window please click on the house symbol (location management).

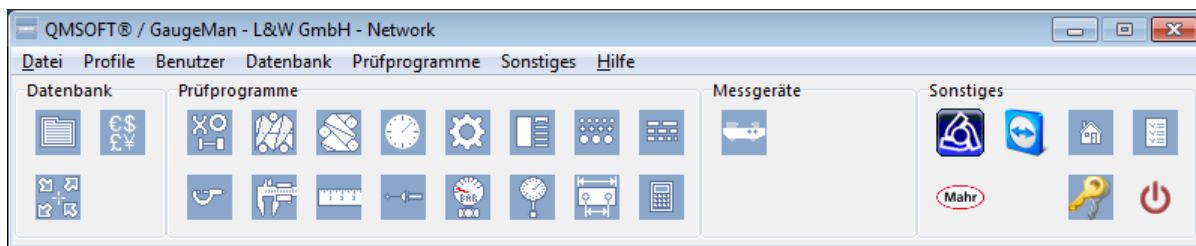


Fig. 2.2.1: Main windows of QMSOFT®/QM-GaugeMan.

In the task tree on the left side of the window that opens, look for the entry *Task Scheduler*, the screen should now look similar to the image below [Fig. 2.2.2].

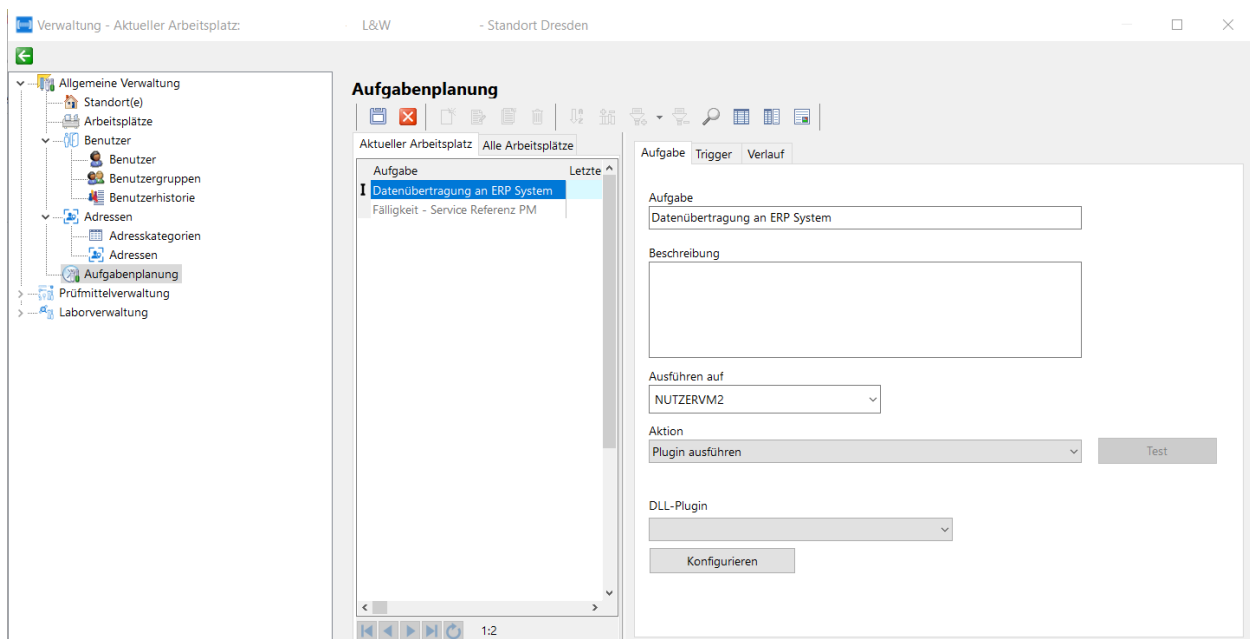


Fig. 2.2.2: Task scheduling in QMSOFT®.

In the “Task planning” form you will find functions for creating and editing plug-in component entries, which can be used, for example, for automated data exchange, as in the present case (see buttons in the toolbar).

- **TASK**  
In this field you enter a name for the task to be planned. This designation then appears in the list of tasks that have already been set up, so it must be unique,
- **DESIGNATION**  
Here you can describe the task in more detail with an additional text if the short description of the task is not very meaningful and allows ambiguities.
- **WORKSTATION**  
Here you specify the computer system on which the task is to be processed. In the majority of cases, this should be the designated server.
- **ACTION**  
Here, select the *Start Plug-In* option (the second selection option allows you to automate the backup of the QMSOFT® database).
- **DLL-PLUGIN**  
Tasks are processed (apart from performing the data backup) using external DLL files. Here you enter the name and path of the DLL file assigned to the task. Make sure that you write the path specification as it appears on the host system (see “Workstation”)!

The parameters assigned to the plug-in can then be configured using the **Configure** button. The following figure shows a corresponding example of such settings for connecting QMSOFT® to an SAP environment:

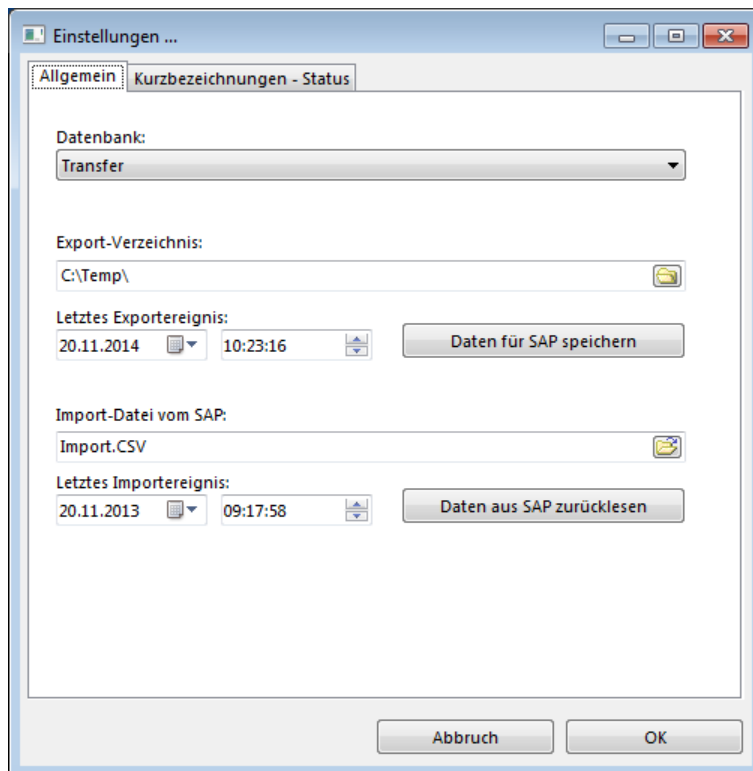


Fig. 2.2.3: Plug-In-specific example of configuration settings.

If all plug-in parameters are set correctly and confirmed with **OK**, you can check the correct function of the plug-in with the **Test** button.

**Note**

The processing of a plug-in usually takes place without user interaction, i.e. without corresponding visualization in the form of Windows dialogs.

The test result must be verified by examining the input/output directories and checking the files stored there for correct contents.

## 2.3 Error handling

Processing times can be checked using the event history in task scheduler (tab *Progress*).