

A 3D CAD rendering of a complex blue mechanical part, possibly a helmet component, with several red HyperMILL tool bits positioned for machining. The background is a dark blue gradient with a faint grid pattern.

*hyper*MILL®

OPEN MIND Tool Database - Synchronization



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1. Function of the synchronisation service and requirement



The following notes apply to the tool database from version **2023.2|Update 3**.

The synchronisation service can be used to synchronise a *hyperMILL* tool database with external tool data via a local Windows service or account. Setting up the service (as a local service or account) is described in section [Start the Synchronization Service \(page 8\)](#) before an exchange folder must be set up and user rights must be defined in the local security policy, see sections [Set up exchange folders and user rights \(page 4\)](#) and [User rights in local security policy \(page 6\)](#).

The following requirements must be met for the service to work:

1. A *hyperMILL* installation is mandatory because the tool database uses *hyperMILL* functions to create tool geometries.
2. A *hyperMILL* license must be available during the setup of the service. If the setup is complete, the licence is no longer required.
3. To synchronise tool data, a Windows folder must be set up as an exchange folder. The external tool management system must store the tool data in this folder.
4. The exchange folder must be provided with full access rights for the service.
5. The synchronization service can be set up only when using the **Account** option on an independent server for all databases to be synchronized. If the **Local service** option is used, the exchange folder and database must be located on the same computer as the synchronization service.



ENHANCEMENT OF THE SYNCHRONIZATION SERVICE

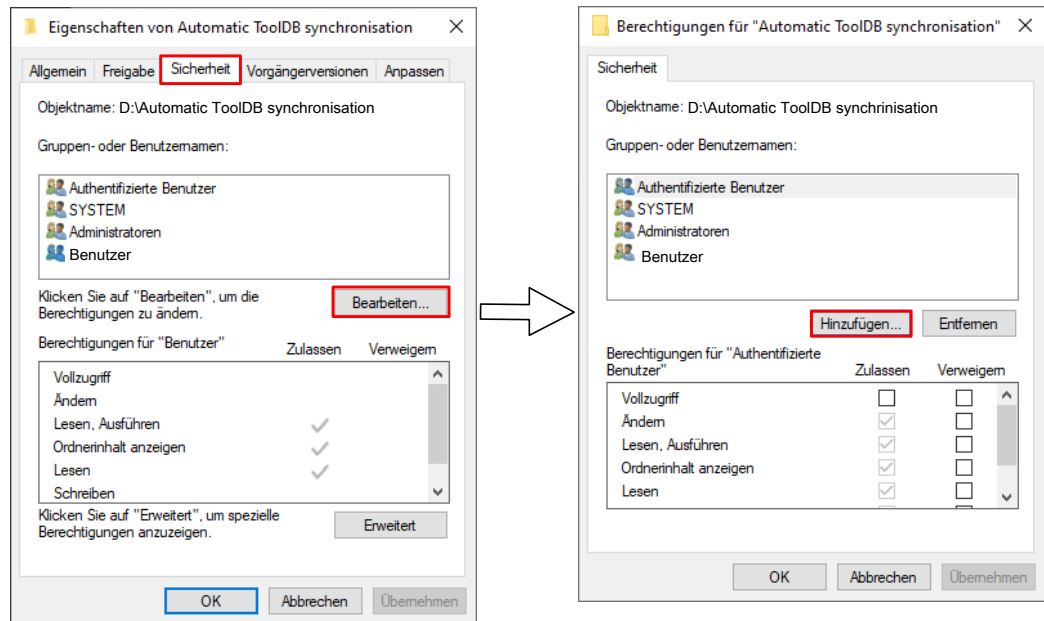
The synchronization service has been enhanced so that **multiple** instances located on a network (i.e. multiple exchange folders with corresponding *hyperMILL*-databases) can now be synchronized. Previously, the service only allowed one instance (exchange folder + corresponding *hyperMILL* database) on a local system.

For more information, see also the section [Austauschordner einrichten \(page 4\)](#) under **Local service or Account**.

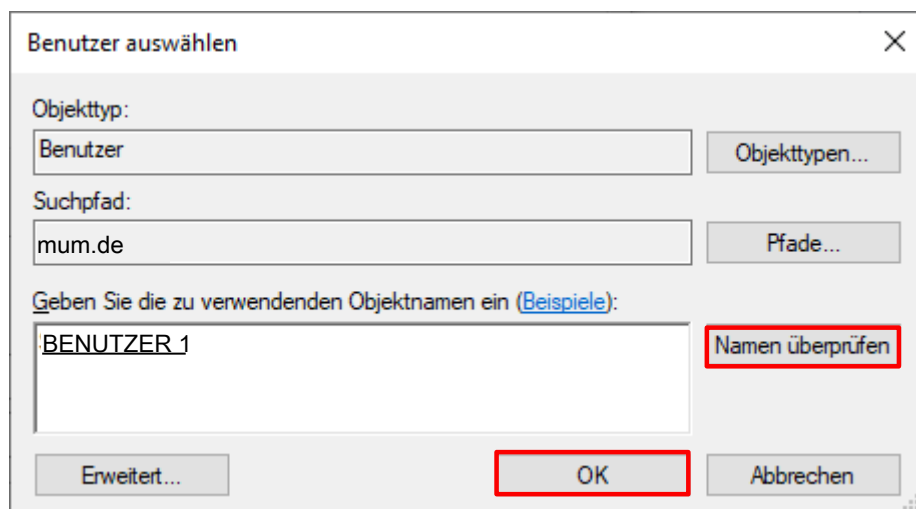
2. Set up exchange folders and user rights

To give the exchange folder the necessary access rights, proceed as follows:

1. Switch to the exchange folder.
2. Right-click and select **Properties** → **Security**. Click **Edit** and them **Add** to add a user or service account name.



3. Enter a unique name as the object name.



The name depends on whether you set up the synchronization service as a **Local Service** or as an **Account** (see also the instructions in the [Den Synchronisierungsdienst starten \(page 8\)](#) section).

Windows defaults for allowed user or service account names as **Local Service** are:

- **Local service, Everyone,**
- **Everyone,**

Windows defaults for allowed user or service account names as **Account** are:

- **Everyone**,
- all **User names** known in the network.

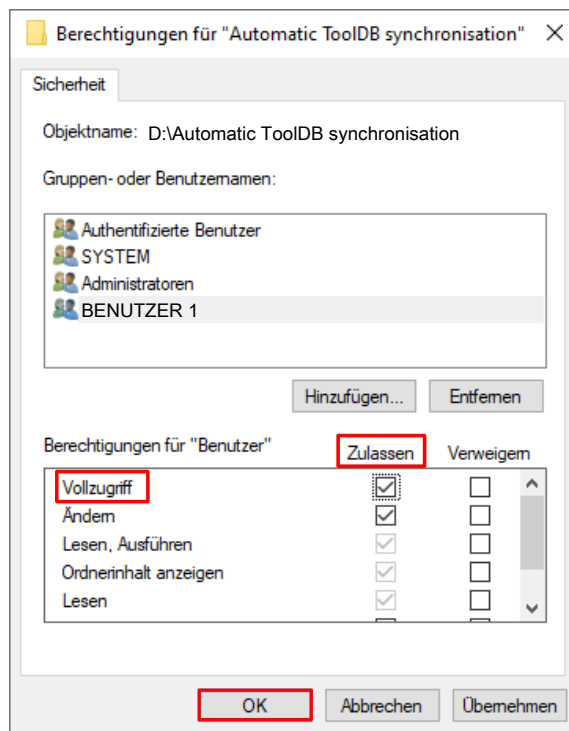
Click on **Check names**, to check whether the user name is known to the system. If this is the case, the object name is displayed as follows: **USER 1**. Confirm the dialog with **OK**.



LOCAL SERVICE OR ACCOUNT

If **Local Service** is used as option, only data (each exchange folder + associated *hyperMILL* tool database) located on the same computer as the synchronization service can be synchronized. If you want to synchronize data (exchange folders + associated *hyperMILL* tool databases) in a network, please use the Option **Account**.


4. In order to set up the required permissions for the previously created user name, you then set the checkmark for **Allow** → **Full access**. This is necessary because the service is used to both read and delete the data (after processing) in the exchange folder. Confirm the dialog with **OK**.

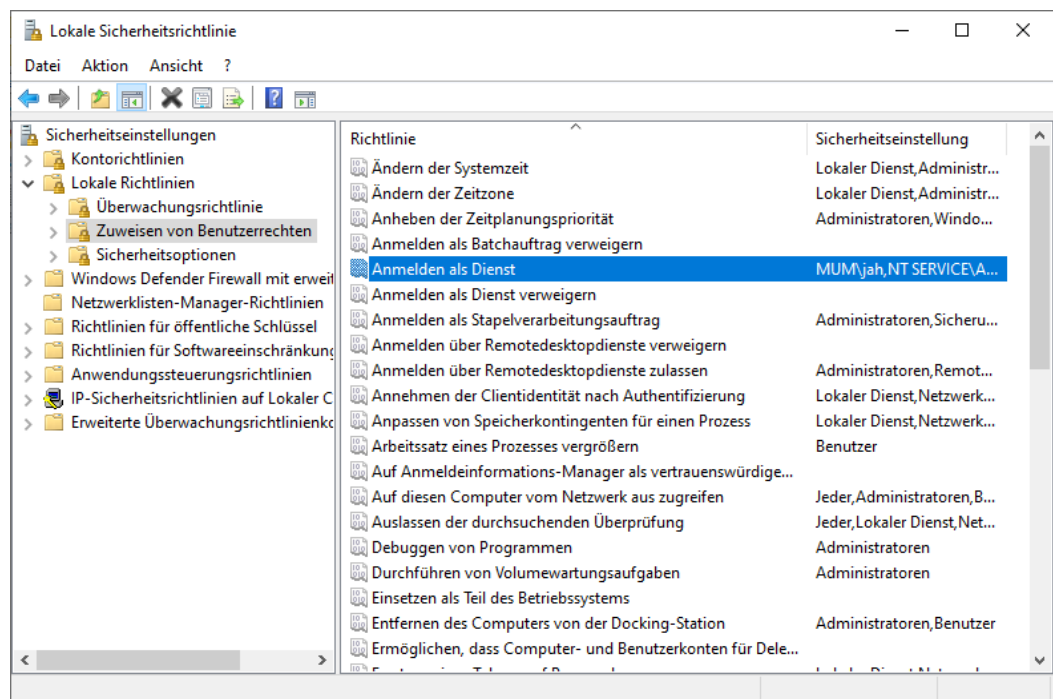


3. User rights in local security policy

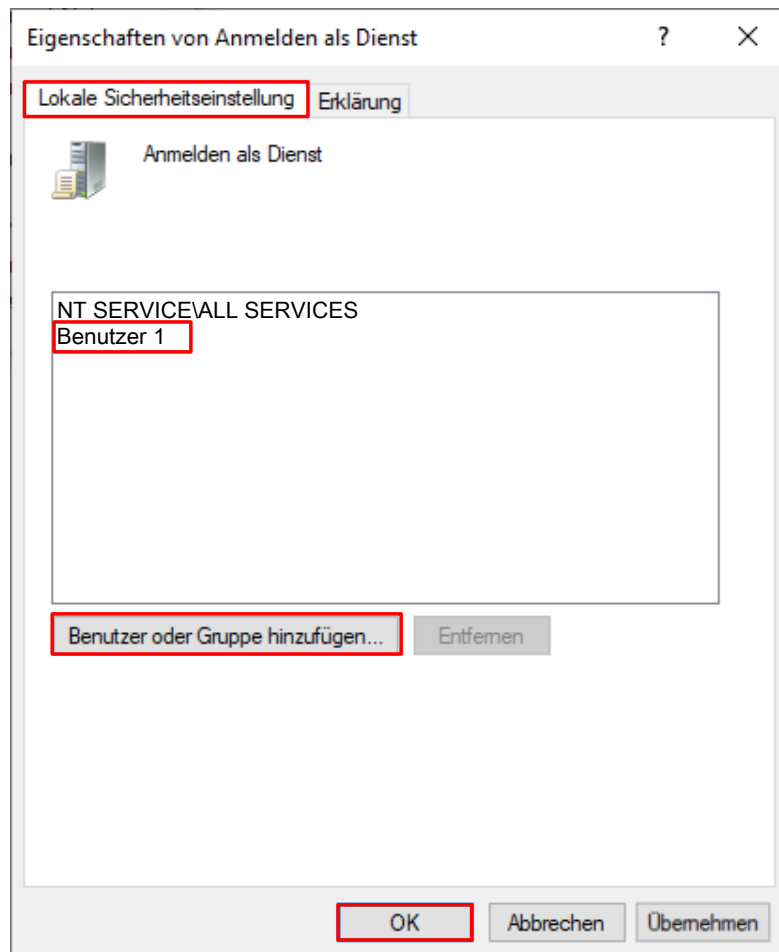


If the service was created with the **Account** option, an additional configuration is required in the Windows Services control panel. You must set up the relevant user rights for the previously created user account in the **Local security policy** dialog, if the synchronization service is running on a network. To do this, proceed as follows:

1.  Enter the **Local Security Policy** in the Windows search dialog (to the right of the Windows icon). Start the dialog.
2. Go to **Local Policy** → **Assign user rights** → **Log on as a service**. Double-click the **Log on as service** entry.



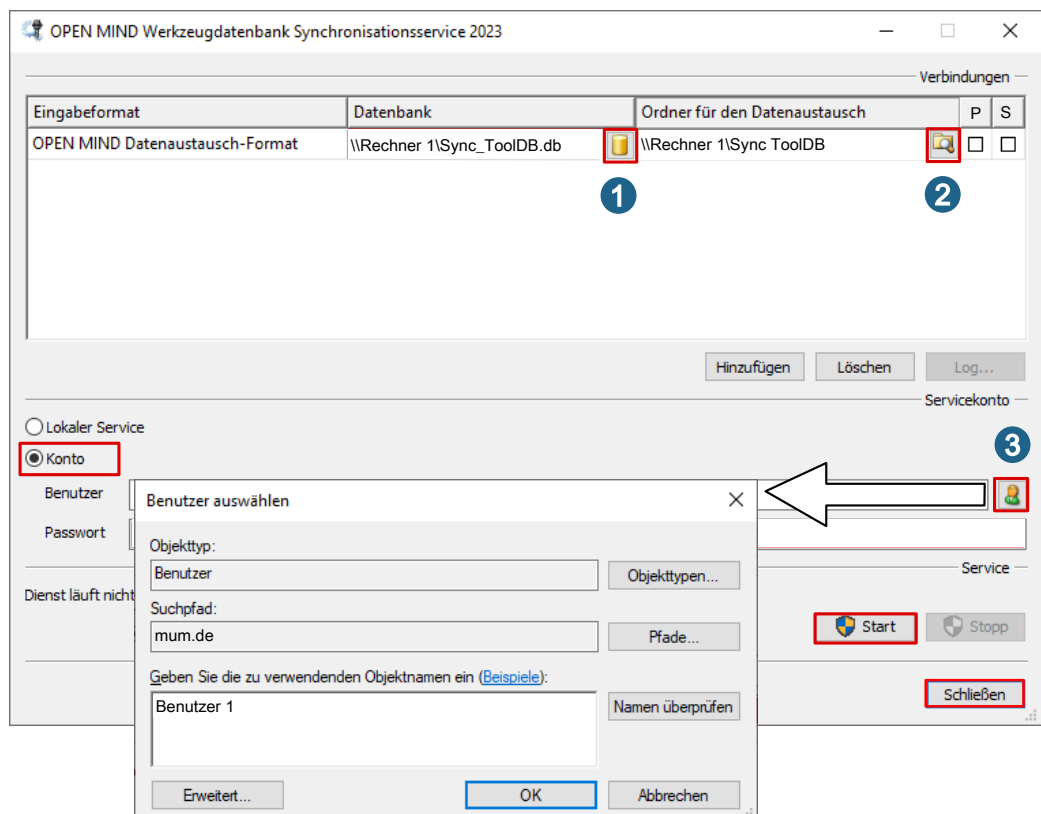
3. In the **Log On As Service Properties** dialog, on the **Local Security Settings** click **Add user group....** Enter the name of the user or user group for which you have set up user rights (see also section [Austauschordner und Benutzerrechte einrichten \(page 4\)](#)). Confirm the dialog with **OK**.



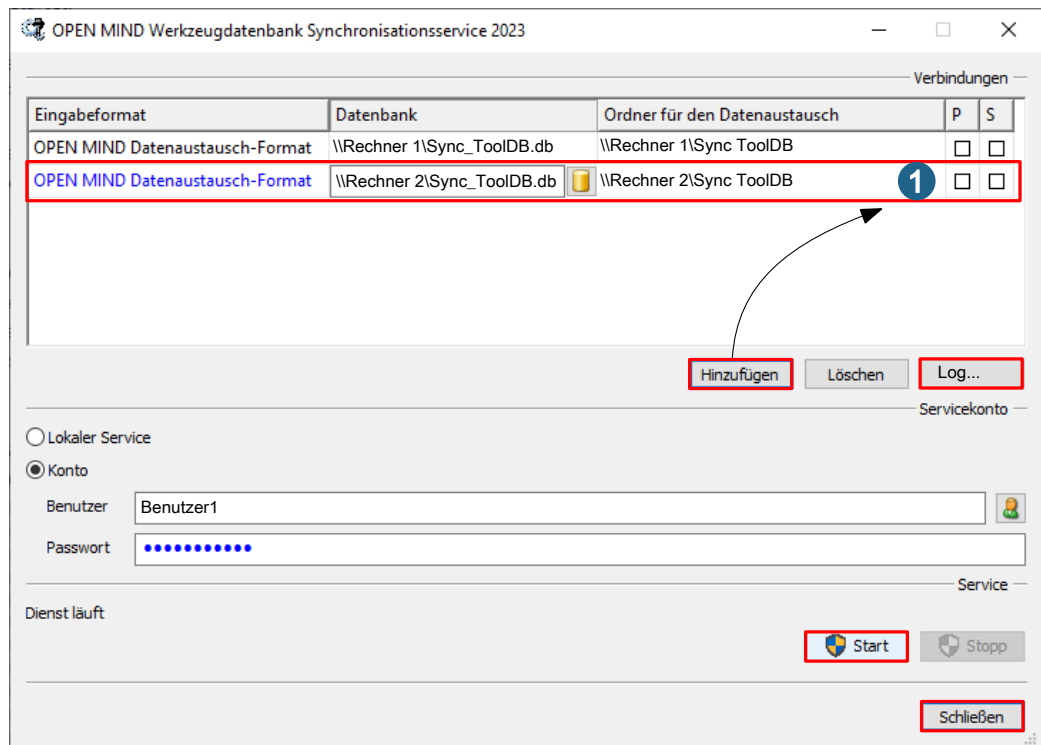
Note that the account must **not** be entered as **Deny service at Log on**. If this is the case, delete it there.

4. Start the Synchronization Service

1. Switch to the standard installation directory:
C:\Programme\OPEN MIND\Tool Database\[Versionsnummer]
2. Run the **omTdbServiceUi.exe** as administrator.
3. Click the **Add** button to show a line with the **Input format**, **Database** and **Data exchange folder** einzublenden.
4. At **Input format** define the format of the data to be imported. By default, the neutral data exchange format of OPEN MIND (.xml) is used.
5. Select **Database** and **Data exchange folder** and start the service.
6. If you set a check mark in the column **P** (Preserve) - **Preserve folder structure** the folder structure of the data will not be changed during import into the OPEN MIND database. The function is only available for the neutral data exchange format of OPEN MIND. With a check mark in the column **S** (Slave) - **Slave database** you determine whether this database (i.e. your OPEN MIND database) is to be "write-protected". Only the synchronization service can then write to the database, so that accidental changes are prevented.
7. At **Account** → **User** click on icon 3 to select a matching account that has the necessary access rights to the exchange directory and database, and enter the password. See also the description of the **User** in the previous section [Austauschordner einrichten \(page 4\)](#).



8. To synchronize another instance (exchange folder + *hyperMILL* database), click the **Add** button and define **Input format**, **Database** and **Data exchange folder** in the new line (1).



Multiple exchange folders can also be synchronized into one *hyperMILL*-tool database, but it is not permissible to store a folder for data exchange with multiple *hyperMILL* databases.

9. By clicking the **Log...** button you will get to the corresponding folder to display the *.log file for the selected line. Please check occasionally if the synchronization is running as desired. Incorrectly processed data is saved here for further analysis.
10. Click on the **Start** button to start to start the synchronization service. The service will activate **all** the created instances (exchange folder + *hyperMILL* databases). Clicking the **Stop** button deactivates all existing instances.
11. Close the dialog by clicking the **Close** button.