
Toolmaker Installation Manager (TIM) - Brief Instruction

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The Toolmaker Installation Manager (abbr. TIM) is a tool for the automatic preparation and installation of Toolmaker products for the IBM i including the updates, bug fixes and add-ons.

Toolmaker product WOPiXX is automatically installed by TIM, if the libraries WOPIX and DIRWEB are not found on the system.

What does TIM offer?

- Give a command, to download and automatically install a new Toolmaker product.
- Let **TIM** check for recent updates for your existing Toolmaker software and prepares for the installation accordingly, so that the running product will not be interrupted.
- If there are any corrections and extension for Toolmaker products available - you can setup **TIM** so that it will automatically install at a reasonable time at night.
- If you are not sure if your IBM i is compatible with a product or an update. **TIM** will automatically do that for you.
- If you have an ongoing installation process, and would like know what state it is currently in, are there any errors, and what you can do to solve the problem etc. - **TIM** will show you using a single menu item the status of the installation and eventually shows a list of problems that occurred during the installation process which includes suggestions for problem solving.

Installing TIM

In connection with the product installation, you receive a link to download and install the latest **TIM** version.

TIM will periodically update itself after the first install, it will create an inventory of the Toolmaker products and check if the system will allow the installation of a newer version of the software.

You can also use **TIM** to analyze the system properties:

To download the latest **TIM** version, click on the Link below:

<http://www.toolmaker.de/download/temp/tmstim/TMSTIM.htm>

After the download, you will find an EXE-File, in which you double click via PC to start the IBM i installation.

1st requirement is, that you are logged in as an Administrator. Windows would otherwise refuse to cooperate because of security concerns...

2nd requirement is, that the IBM i FTP-Service is active and in command CHGFTPA F4 is available in the following settings.

QSECOFR privilege is required, to run the command CHGFTPA F4.

```
Initial name format . . . . . *LIB  
Initial directory . . . . . *CURLIB
```

If *PATH and *HOMEDIR exists in the picture above, the installation of the EXE file will not work. Please check the daily activity on the FTP service in this case first. If you decide, to change the FTP setup temporary to *LIB and *CURLIB, you must restart the FTP server as follows:

```
ENDTCPSVR *FTP  
wait  
STRTCPSVR *FTP
```

Otherwise, the configuration change would not work or have a delayed effectiveness.

An **alternative installation** method for **TIM** will be explained at the end of this document.

Note: If TIM should determine, that the libraries WOPIX and DIRWEB are not available on the system, an order to install the product WOPiXX is automatically issued.

Starting TIM

Login as QSECOFR and start **TIM**

GO TIMENG

The TIM menu will appear. Select the "configuration" and set your desired parameters. With selection '2 = Change' the value including help text will be shown.

Important:

Change parameter **TIM_USRLIST** and specify, which users, that at least have ***ALLOBJ** und ***JOBCTL** authority, will have to work with **TIM**. QSECOFR will no longer be needed after that. For example users: WOIDT,GSC,RSC

Take option 5 at parameter **LAST_PING_RESULT** and check, if IBM i is able to reach the Toolmaker Server, in order to download information and install data. In case this test was not successful, the route in CFGTCP and the Domain Information (DNS-Specifications) needs to be verified. **TIM** uses FTP in passive mode, therefore port 21 and a negotiated free port will be used for data transfer.

In the parameter **SAVESYS_TIME**, set the time range when the backup is running on your system, so no installation will take place.

Use parameter **INSTALL_TIME** to determine the earliest time during the day that the installation may start. This setting will be ignored once you select immediate installation.

Check product status

From the menu, select product status to check the current Toolmaker product running on your system. Here you will receive the actual version and the availability of a new release.

To Place an Order

The installation commands are not directly called under **TIM**, but is issued an installation order.

Select Create a TIM order from the menu and then the required TIM function. Afterwards you can make a choice using the list of available products. At the end you can choose if you want to install immediately, delayed install, or a timed install.

Caution: In case this is an update, you should consider when is the best time during this critical phase to avoid conflicts with the current jobs and active users!

List of TIM-Functions:

CHANGE_ORDER	Change an install-order
GET_DOCUMENTS	Download product documents (to /documents folder)
INSTALL_PRODUCT	Install Toolmaker produkt
INSTALL_PTF	Install Toolmaker produkt-PTF
INSTALL_ADDON	Install Toolmaker produkt-ADDON
RECOVER_PRODINSTALL	Recover last product install
RECOVER_PTF	Recover last PTF install
REMOVE_ORDER	Remove a completed installation job
REMOVE_PTFSAVF	Remove old PTF backup files

TIM Subsystem and the Installation procedure

After manual or automatic start of the TIM subsystem, it will check in the background if an install order can be executed.

At the same time **TIM** will verify the possible download of the installation files, as well as the transfer of backup files in the **TIM** data library.

If necessary, the SAVFs will be unpacked and the programs are converted to the V7R1 format (Migration).

Required PTFs and Add-ons, as well as related products are prepared for installation.

When the installation time has come, the order in which the critical phase is installed, is controlled by **TIM**.

This includes the termination of the product activity, ending the connections to the IBM subsystems and objects, backing up the library of objects and the data of the products in the TIM backup library and of course to perform the actual installation.

After the preparation as described above, including the program-migration, has been successful, the exchange of objects is completed within a few moments.

It is followed by the installation of the required IFS files and converting the modified files with customer data.

Afterwards, if required, the PTF objects will be attuned and add-ons will be loaded.

Once the task is complete, the connections to the IBM subsystem will be restored and the product will be reactivated.

Monitoring the Installation

With Display Status TIM in the menu you can always get a complete overview.

You see pending installation jobs and their status.

If necessary, with **F10** you can view details about warnings and errors. For issues that can not be resolve by **TIM**, you will receive further instructions.

With **F11** you can open the program to change or create an order.

Missing connection to the Toolmaker Server?

If TIM cannot download due to limitations in your network or because it is blocked by a lock, TIM in the status display after F10 will show you a manual download.

TIM creates an HTML-File with Links to the currently required installation files in the IFS directory **/TMSTIM/input**. For example:
`_README_for_DOWNLOAD.htm`

Click one link after the other and download the information and installation files directly to the IFS directory.

/TMSTIM/input

With the active **TIM** subsystem, the files are recognized and transferred according to name and ending in the related **TIM-files** and **TIM** libraries.

EXE-Files and Documents

PC files and Software, that TIM has no idea what to do with, will be moved to the IFS-Directory.

/TMSTIM/pcinst

This can include the required PC clients and EXE files for direct installation which belong to the IBM i software.

Text- and PDF-Files will be moved into the IFS-Directory

/TMSTIM/documents

Among them could be Manuals and Read-me files with important tips.

Recover a previous version

The recover function allows restoring the backed-up version of the product.

If its absolutely necessary, it must be done shortly after the installation. File contents and data changes can be lost between installation and recovery

Don't try to **manually** recover backup files without contacting Hotline support.

Give an order to **recover**, in order to restore the previous state.

Edit completed orders

If the TIMs status display shows completed orders (status FINISHED), you must choose yourself, when you want this deleted.

On the other hand, those jobs offer a recovery, contrariwise after a certain time the recovery lost its taste, in which the old data was previously restored and in the meantime newly added or updated data are being lost.

Attention: To install a newer version of the product, you must delete the older and completed orders manually.

Deleting is done using the F11 key in the status display or item **Create a TIM order** in the menu. In the first selection from the list of actions you will choose **REMOVE_ORDER**, then the order and at the end you have to confirm a warning message.

TIM will go forth and delete all backup files related to the installation, among them are the backup files, work libraries, and the order entry.

This releases a lot of disk space, but it has the consequence that a recovery is excluded. At the same time it gives way for new and improved version of the same product.

Alternative Installation method for a Product – SAV

If you have received a link for the installation of a **product**, in which the downloaded file has the extension .sav and in the name it contains the term INST, PTF, or ADDON, you can directly download this file in the the IFS-Directory.

/TMSTIM/input

TIM recognizes the type of file, which will be transfer to a different IFS-Directory and automatically creates an immediate executable order of the installation (installation time *IMMED), if the configuration parameter INSTALL_ORDER is set to *AUTO. Is the Parameter set to *RELEASE, the order has the indication HOLD, then the user must manually enable the critical phase of the installation.

Alternative Installation method for a Product – EXE

If you have received a link for the installation of a **product**, in which the downloaded file has the extension .exe, first check with GO TIM selection preference, if the parameter INSTALL_ORDER is set to *AUTO.

If this EXE installer includes TIM support, you can take advantage of the installation requirement and at the start of the installation that it will be verified by TIM.

The process looks like this:

- Double click the EXE on the PC and Start the Installation.
- Which will transfer the installation file via FTP in a SAVF in Library QGPL.
- Then the installation program checks whether the support provided by TIM is available.
- In the positive case, the control will be given to TIM and the process of the EXE is terminated.
- In the negative case, the installation will continue in the classical manner.

Alternative Installation method for TIM

In case a Windows PC is not at hand to run an EXE file, you can manually download the TIM **SAV**-File and move it onto the IBM i and run the installation command.

Link for the TIM SAV-File:

www.toolmaker.de/download/temp/tmstim/INST_TMSTIM_02xx00.SAV

The **xx** needs to be replaced with TIMs current release number. The **file name** must be entered in uppercase.

The goal for the next steps is, to add the SAV-File in the SAVF TMSSAVF8 in library QGPL onto the IBM i. This can be directly done via FTP or the file will be transferred over an intermediate step over the IFS to the SAVF.

Was the SAV-File transferred to IFS in the /toolmaker directory, with these steps you can transfer it from a 5250 session to the SAVF TMSSAVF8 in QGPL:

```
A) DLTF QGPL/TMSSAVF8
B) CRTSAVF QGPL/TMSSAVF8
C) CPYFRMSTMF
    FROMSTMF('/Toolmaker/INST_TMSTIM_02xx00.SAV')
    TOMBR('/qsys.lib/QGPL.lib/TMSSAVF8.file')
    MBROPT(*ADD) CVTDTA(*NONE)
```

If the SAV-File should be transferred via FTP directly into the SAVF TMSSAVF8 in QGPL, process as follows and observe the parameters in the FTP dialog box:

Using the IBM i:

```
A) DLTF QGPL/TMSSAVF8
B) CRTSAVF QGPL/TMSSAVF8
```

Using the Client: (Example taken from windows)

```
C) FTP xxx.xxx.xxx.xxx (TCP-Adr. your IBM i)
   Name and Password (QSECOFR+KW)
   BIN (switch to binary mode)
   PUT
   local file: c:\xxx.SAV (xxx=Name of the backup file)
   remote file: QGPL/TMSSAVF8
   QUIT
```

Now the installation can be started. Please also work with QSECOFR:

1. RSTOBJ OBJ(INSTALL) SAVLIB(TMSTIMINS) DEV(*SAVF)
SAVF(QGPL/TMSSAVF8) RSTLIB(QTEMP)
2. QTEMP/INSTALL F4 with *SAVF TMSSAVF8 QGPL

Feedback for the developer

Please send an suggestions for improving by using the TIM hotline.