

UPDATE_ME (...) - Beta Version

Dear customer,

thank you for using Tigers in your applications. The Tiger support team is happy to supply you with the new BETA Version of „UPDATE_ME“.

„UPDATE_ME“ is a new method of updating your Tiger operated product remotely. If you want to update the Tiger programming you would transmit your new compiled file into the DATA area of your application program. When the transmission is complete and correct, you just use a single function:

RESULT = UPDATE_ME (PTR_TO_NEW_PROG, ERASE_OPTION)

to:

- 1.) erase the existing Tiger program,
- 2.) to move the new Tiger program from the DATA area into the program area
- 3.) to erase the whole data area (option = 1), or to leave it unchanged (=0)

This method of „in the field“ & „in full operation“ method has these advantages:

- You have widest freedom of transmitting a new version to your applications:
 - broadcasting
 - point-to-point connection,
 - transport through removable data storage media (SmartMedia e.g.)
- Security: any encryption method, password, PIN, TAN and error checking is applicable, as you need it.
- Full operation:
your application remains in full operation during transferring a new Tiger program. No matter how slow the transmission might be, or in case of frequent line breaks, ... etc. Only, when transmission is complete, a few seconds are needed to ERASE + UPDATE the Tiger program. Please see the example program and the instructions below for further details. If there is an error during the transmission, you can try again and your Tiger is not in PC-mode as before.
- distance:
you can update your tiger over a great distance with the mentioned security options. You can work with internet or with a LAN. Never had it been so easy and comfortable to you as now. If there is an error during the transmission, you can try again and your Tiger is not in PC-mode as before. There is no risk, if data get lost.

Installation:

Please note, that you absolutely need the tiger basic version 5.01.
Otherwise it is not possible to use this package!

First you have to double-click at the provided file UPDATE_ME.zip .
This file will extract automaticly. There will be 6 extracted files.
Please copy the two files with the ending .tac and tgbas32 in the 'bin'
directory in your tiger basic directory
(e.g. C:\program files\wilke technology\tiger basic 5.01\bin\).

Then copy the other files in the directory 'examples'.
Now you can start your programm normally.

For this method we created a new data type .tgc . This is very important for
this function. The programmes to which you would like to update has to be
.tgc files. If you compile your source code, a .tgr is created, but no one of this
type. So we added a new option in the editor. Please select

options --> compiler --> make file (*.tgc) for remote loading.

You only need this file, if this programm is one to which will be updated!
Otherwise you can skip this option.

Now the basic conditions for working with the update function are created!!

Instructions:

If the installation was successful, the rest will be easy, too.

To show you how easy it really is, please look up our example programmes. Open the file *UPDATE_ME_NEXT_GENERATION_V001.tig* and you see, it is only a programme, which shows a simple text at the LCD. There is also a compiled file *UPDATE_ME_NEXT_GENERATION_V001.tgc*, so you don't have to do anything, but normally you have to compile it before, then there is also the programme-code in a .tgc file.

Now open the file *UPDATE_ME_DEMO_V001.tig*. You see it is a very little programme, which is able to delete itself and load a new programme. Relevant for this option is only the line

```
ERG = UPDATE_ME ( NEW_PROG_HERE ,1).
```

Probably you have to change the path of the target-file at the end of the programme:

DATA FILE

```
"C:\programme\wilketechology\examples\UPDATE_ME_NEXT_GENERATION_V001.tgc"
```

You must enter the correct path in which you copied the files. This command saves the chosen file in the flash memory. So the conditions are set to update the tiger.

If you compile this programme and load it onto the tiger you can see the results.

It's not much work to do this yourself. First you have to declare a variable. If the update process is successful, you do not need this variable, but in the other case, this variable will show you the error-code and you can reconstruct the fault.

In the brackets are two parameters, first a label, where the new programme is. The Tiger has to know, where the new programme starts, because in the FLASH-memory can also be other data.

The second parameter can be set to 0 or 1. If it is set to 0, the flash memory will be unchanged after the process. The other case the flash will be erased after updating.

If the process is not successful the error will be shown on LCD. The method returns with the value of the error. So you can analyse the fault and try again. But the best is, that the old programme is not deleted and works further. This brings more security for you.

Important:

A programme can only be updated if this function is programmed in the programme itself. So klook up, that the new programme also has the feature to update, otherwise it is not possible to do it again.