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LOGO! Access Tool Help

Operating Instructions

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Introduction

1.1 Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit (<http://www.siemens.com/industrialsecurity>).

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under (<http://www.siemens.com/industrialsecurity>).

1.2 General introduction

LOGO! Access Tool is an add-in for Excel. It connects to LOGO! Base Module through HTTP.

With LOGO! Access tool, you can:

- Get value of LOGO! Variables (I, O, M and so on).
- Record all variables values and save them in log files.

Compatibility

LOGO! Access Tool supports the below excel versions and LOGO! Base Modules:

- Office Excel 2007, 2010, 2013 (both 32-bit version, and 64-bit version)
- LOGO! 8 and LOGO! 8.FS4

Operating the LOGO! Access Tool

2.1 Prerequisite

Note

You can only use the LOGO! Access Tool in Local Network with a firewall.

In current version, LOGO! Access Tool only supports one BM connection.

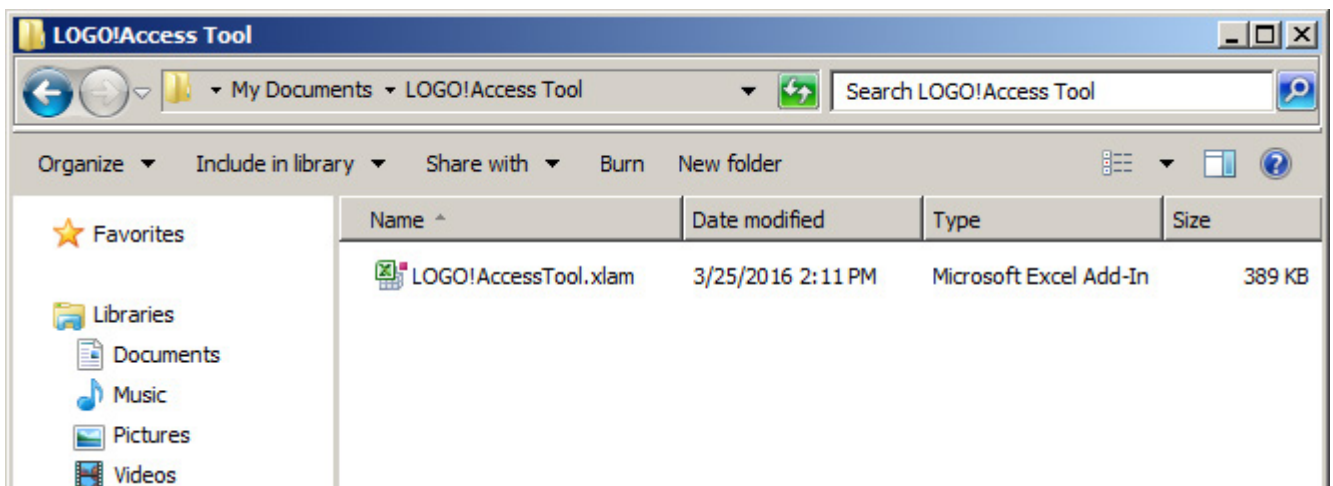
Before using LOGO! Access Tool, make sure that you meet the below requirements.

- Installed LOGO! Access Tool in Microsoft Excel.
- Connected your PC to the target LOGO! Base Module.
- Enabled the Web user access through LOGO!Soft Comfort. On how to enable the Web user access, refer to *LOGO!Soft Comfort Online Help*.

2.2 Install the LOGO! Access Tool

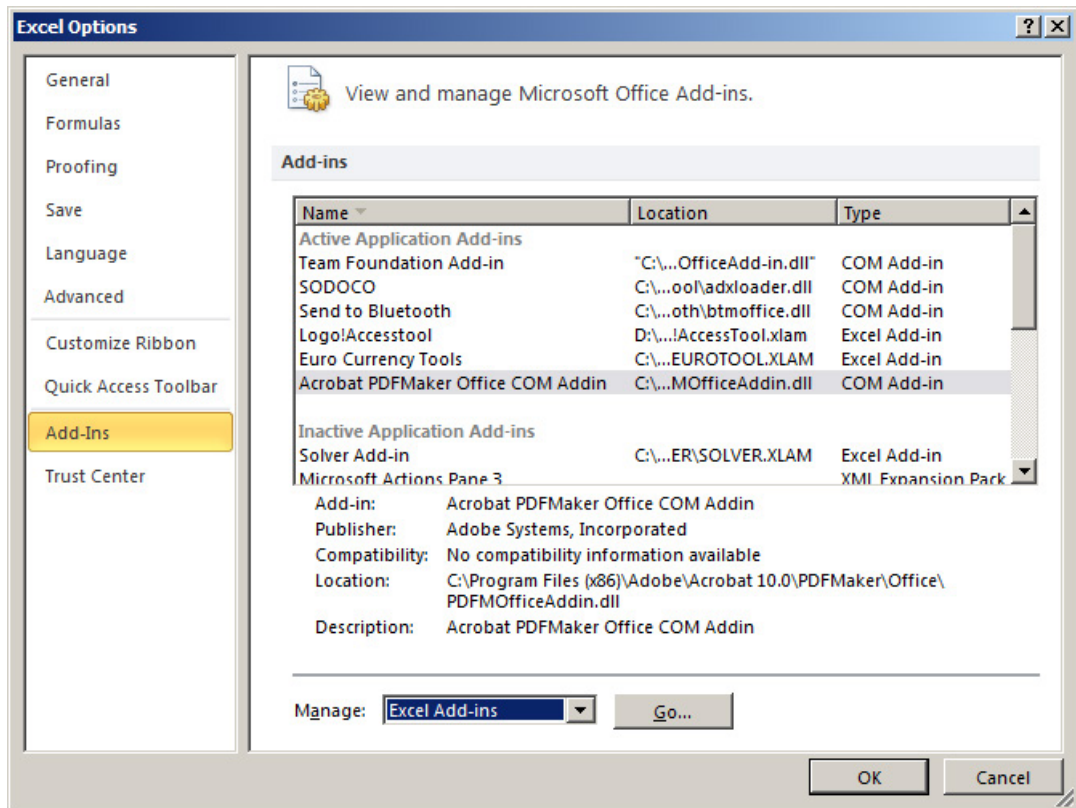
Before starting working with **LOGO! Access Tool**, you need to install it first.

1. Copy the LOGO! Access Tool to your computer.

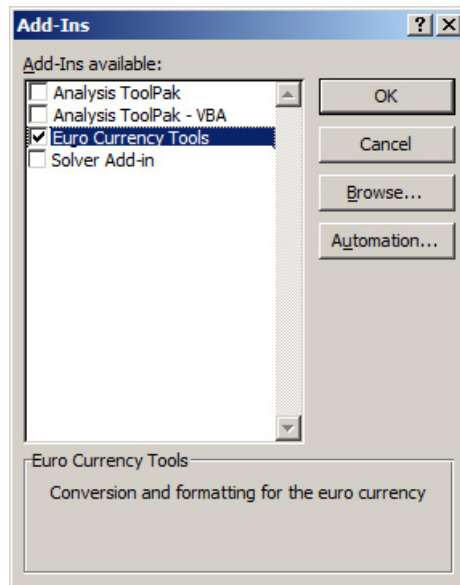


2. Start Excel.
3. Click the **File** tab, click **Options**, and then click the **Add-Ins** category on the left pane.

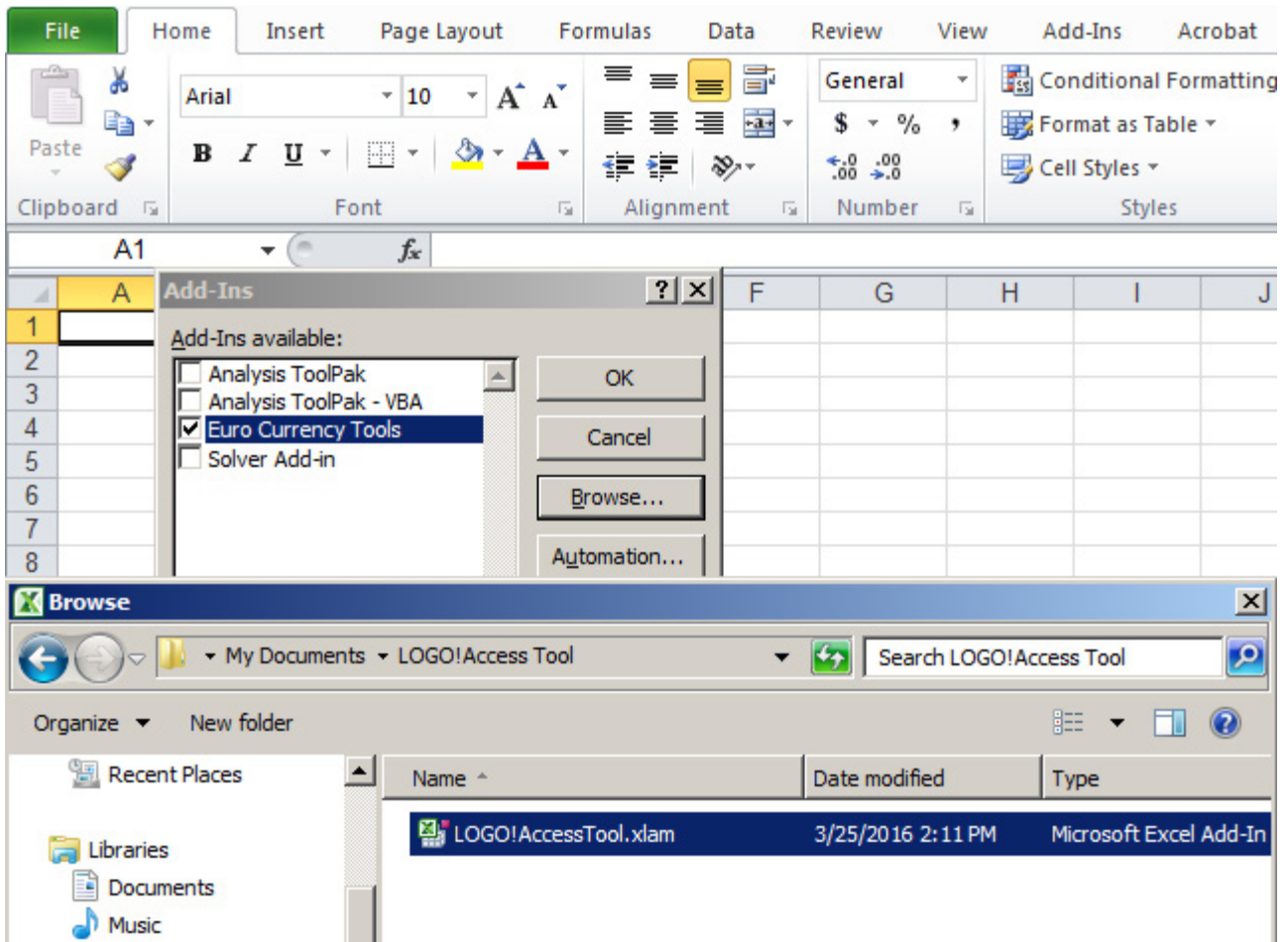
4. In the "Manage" box, select **Excel Add-ins**, and then click **Go...**.



5. In the "Add-Ins available" pane, click **Browse...**.



6. Browse to the folder which you save "LOGO! Access Tool" in step one and select the tool.



Result: LOGO! Access Tool is listed in the "Add-Ins available" dialog with its check box checked.

7. Click **OK**.

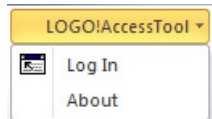
2.3 Get LOGO! Variable Value

Note

Make sure that you have enabled Web server access of the target LOGO! Base Module before using the LOGO! Access Tool.

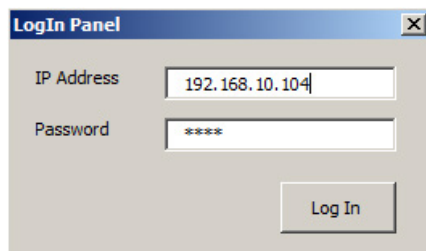
After installed the LOGO! Access Tool, follow the below steps to get LOGO! Variable values.

1. Click **LOGO!AccessTool** in Add-Ins tab.



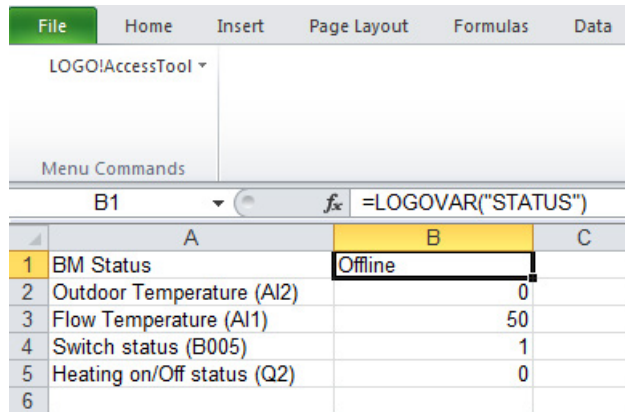
2. Enter the IP address and password of your LOGO! Base Module in the Access control Panel.

LOGO! Access tool share the same access control as Web server. If you have enabled Web user access without changing the password, you can log in with the default password "LOGO".



3. Click the **Log In** button.

4. Input "=LOGOVAR("id")" in a cell. Then the real time value of this specific variable is displayed in the cell. The variable value is updated every one second.



"id" means the identification for LOGO! variables. It consists of variable type and index. For one dimensional variables, there is only one index, for example: Q1, AI1, VW0. LOGO! also supports multiple dimensional variables which have multiple index, for example: SR1.1.

Note

When you input an invalid or unsupported id for LOGO!, **LOGO! Access Tool** cannot return values. The following table shows the variables that can be got with **LOGO! Access Tool**.

Variable	Variable Type	Valid Index		Remarks Example	Example
		Min	Max		
BM working status	STATUS	N/A	N/A	Offline Connecting Stop Running Recovering Invalid Status	
Flag	M	1	64		=LOGOVAR("M1")
Analog flags	AM	1	64		=LOGOVAR("AM1")
Digital Outputs	Q	1	20		=LOGOVAR("Q1")
Analog outputs	AQ	1	8		=LOGOVAR("AQ1")
Digital Inputs	I	1	24		=LOGOVAR("I1")
Cursor keys	Cur	1	4		=LOGOVAR("CUR1")
LOGO! TD Function keys	F	1	4		=LOGOVAR("F1")
Shift register bits	SR	1	4	The first dimension addresses index of SR	=LOGOVAR("SR1.1")
		1	8	The second dimension addresses index of SR	=LOGOVAR("SR4.8")

2.3 Get LOGO! Variable Value

Variable	Variable Type	Valid Index		Remarks Example	Example
		Min	Max		
Network inputs	NI	1	64		=LOGOVAR("NI1")
Analog Inputs	AI	1	8		=LOGOVAR("AI1")
Network analog inputs	NAI	1	32		=LOGOVAR("NAI1")
Network out-puts	NQ	1	64		=LOGOVAR("NQ1")
Network analog outputs	NAQ	1	16		=LOGOVAR("NAQ1")
Variable Memory (In Bit) (LOGO! 8.FS4 only)	VB	0	850	The first dimension addresses index of VB	=LOGOVAR("VB0.0")
		0	7	The second dimension address index of VB	=LOGOVAR("VB89.7")
Variable Memory (In Byte)	VB	0	850		
Variable Memory (In Words)	VW	0	849	The index is counted by Byte. It will try to reinterpret the byte and its next byte as a big-endian word.	=LOGOVAR("VW0")
Variable Memory (In Double Words)	VD	0	847	The index is counted by Byte. It will try to reinterpret the byte and its next 3 bytes as a big -endian double word.	=LOGOVAR("VD0")

5. To generate log files for a variable, input "=LOGOVARL("id")" in a cell. The log file updates every one second.
 - Log files are saved as csv files. The file name is composed of three parts: the excel file name, IP of the connected BM, and the time stamp. For example, Test_192.168.0.1_20160406080001.
 - The log files are saved in the parent folder of the working excel. If you haven't save the excel yet or the parent folder cannot be saved, the log files are saved in the *My document* folder of the Windows active user.
 - If you use LOGOVARL for multiple variables, their log files are saved in different columns of one csv file. The order of the variables in the log file (left-to-right) are set as the same as the order they listed in the table in step four (up-to bottom). See a period of an example log file below.

	B8		\sum	1		
	A	B	C	D	E	F
1	Time	Q2	AI1	AI2	VW0	
2	4/8/2016 15:17	1	1	1000	11730	
3	4/8/2016 15:17	1	1	1000	11730	
4	4/8/2016 15:17	0	1	1000	11730	
5	4/8/2016 15:18	0	1	1000	11730	
6	4/8/2016 15:18	0	1	1000	11730	

- You can add a suffix (@ serial number) to sort your variables in the log files. For example, if you have five variables in your working excel, you input them as LOGOVARL("Flag1@1"), LOGOVARL("I1@2"), LOGOVARL("Q1@3"), LOGOVARL("SR2.5@4"), LOGOVARL("F5@5"). Then the variables are listed in your log files as Flag1, I1, Q1, SR2.5, F5. The default serial number is 0.

Note

Capacity of LOGO! Access Tool

A csv file can have a maximum of 20000 lines. LOGO!Soft Comfort will automatically write to a new log file when a log file is full.

You can have up to 500 log files in a folder. When the limitation is reached, your old log files will be removed in chronological order.

LOGO! 8 can only synchronize 72 variables for all supported types.

LOGO! 8.FS4 can synchronize 75 consecutive VM or 7 discrete VM. LOGO! 8.FS4 has no limit for the other variables.

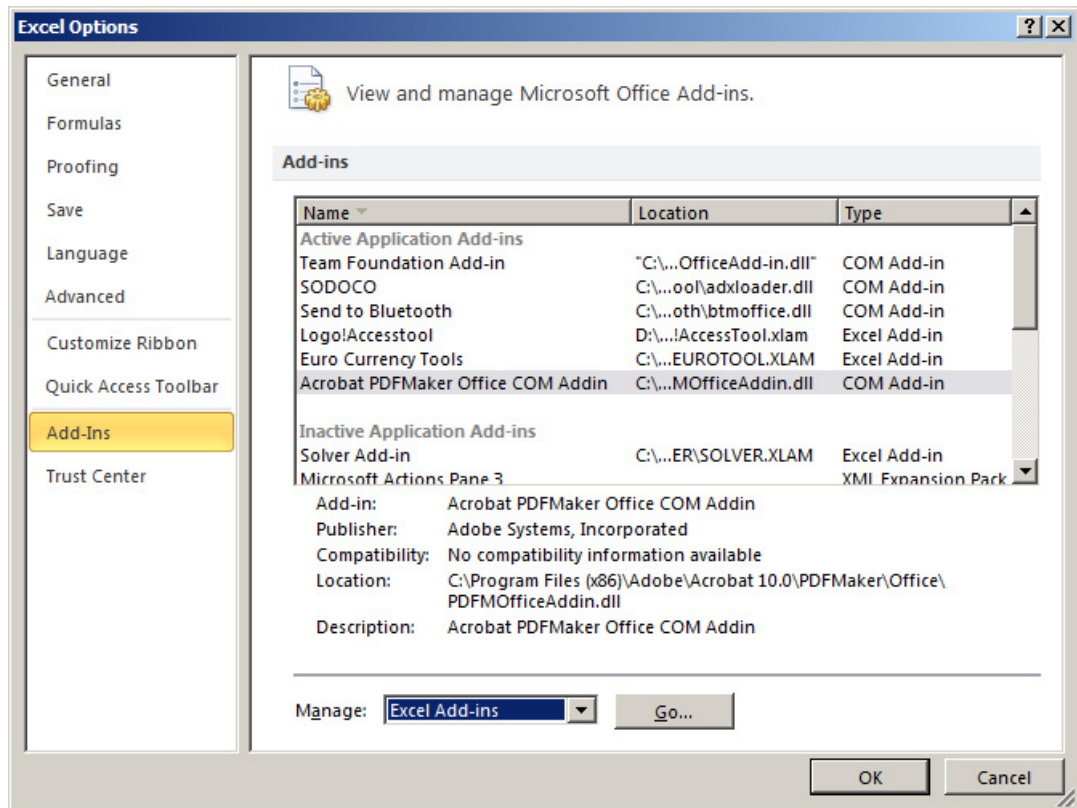
The variables which cannot be synchronized are returned as invalid values.

2.4 Uninstall the LOGO! Access Tool

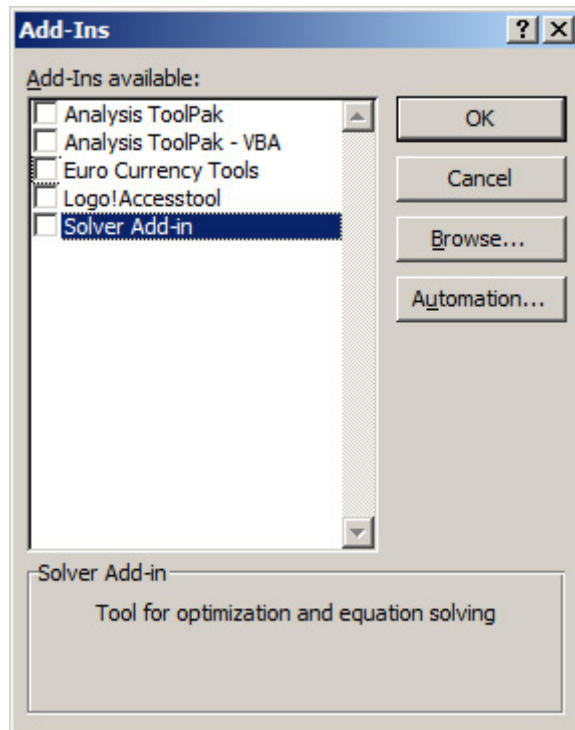
Follow the below steps to remove LOGO! Access Tool completely from your computer.

1. Start Excel.
2. Click the **File** tab, click **Options**, and then click the **Add-Ins** category on the left pane.

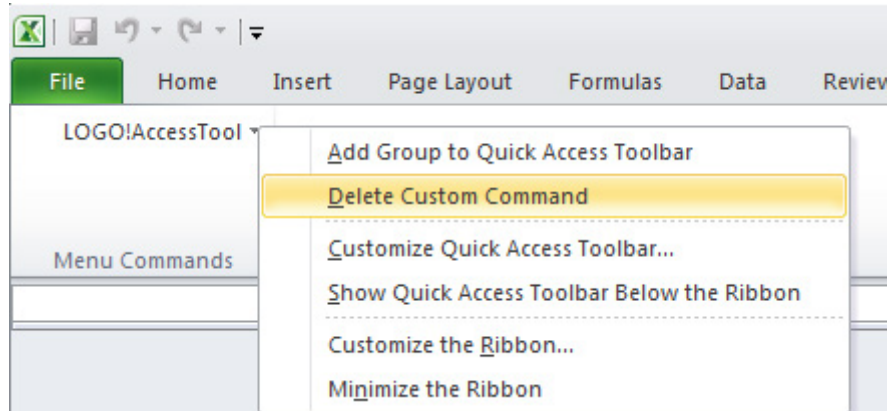
3. In the "Manage" box, select **Excel Add-ins**, and then click **Go...**.



4. In the "Add-Ins available" pane, uncheck the check box next to "LOGO! Accesstool"



5. Click **OK**.
6. On the **Add-Ins** tab, in the LOGO! Access Tool group, right-click **LOGO! Access Tool**.
7. Select **Delete Custom Command**.



8. Delete the source file LOGO! Access Tool from your computer.

Reinstall the LOGO! Access Tool

Your LOGO! Access Tool cannot work properly in the following cases.

- You moved your LOGO! Access Tool to another location.
- You update your excel to a higher version.
- You want use your excel workbook in another computer.

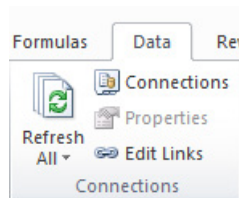
For the existing workbooks can work properly, follow the below steps to update the tool.

1. Reinstall your LOGO! Access Tool. On how to reload your LOGO! Access Tool, refer to Install the LOGO! Access Tool (Page 7).
2. Edit the links in your workbook.

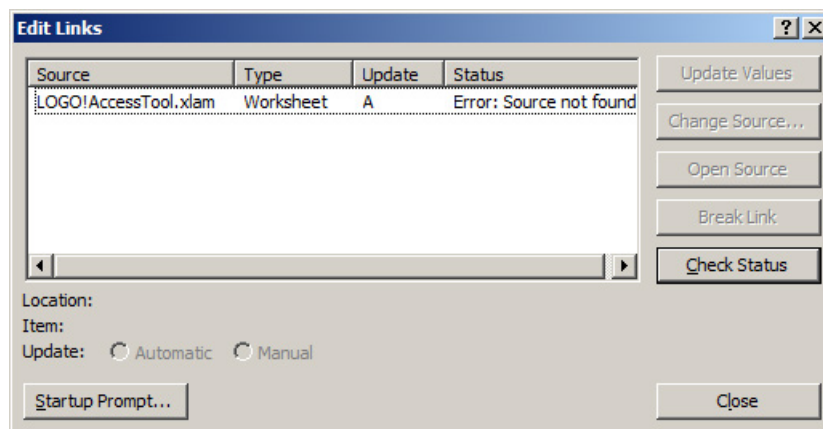
Edit the links in your workbook

Update the link to your LOGO! Access Tool according to the following instructions:

1. On the **Data** tab, in the Connections group, click **Edit Links**.

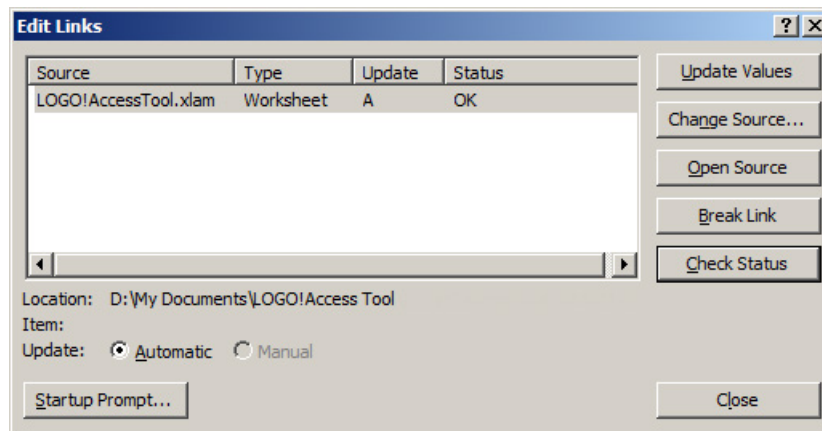


2. Check the status in the Status column.



3. Click **Change source...** and browse to the folder where LOGO! Access Tool stores.

- Click the LOGO! Access Tool to update the links. The status of the source changes to "OK".



- Click **Close**.

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