Check Time Synchronization Tool

SIMATIC PCS 7 / SIMATIC Information Server 2014 / Customized Reporting

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1 CheckTimeSync Tool

1.1 Description

The tool "CheckTimeSync.exe" is an application, which can be used to check the time synchronization of up to 12 computers in a computer network. It is possible to read the computer times cyclically or via push button. The defined computer names can be stored in a text file and can be reused any time.

1.2 Using CheckTimeSync.exe

1. Copy the files "CheckTimeSync.exe" and "ComputerName.txt" on your local machine.
2. Double-click on the file "CheckTimeSync.exe".

Get Time

Figure 1-1
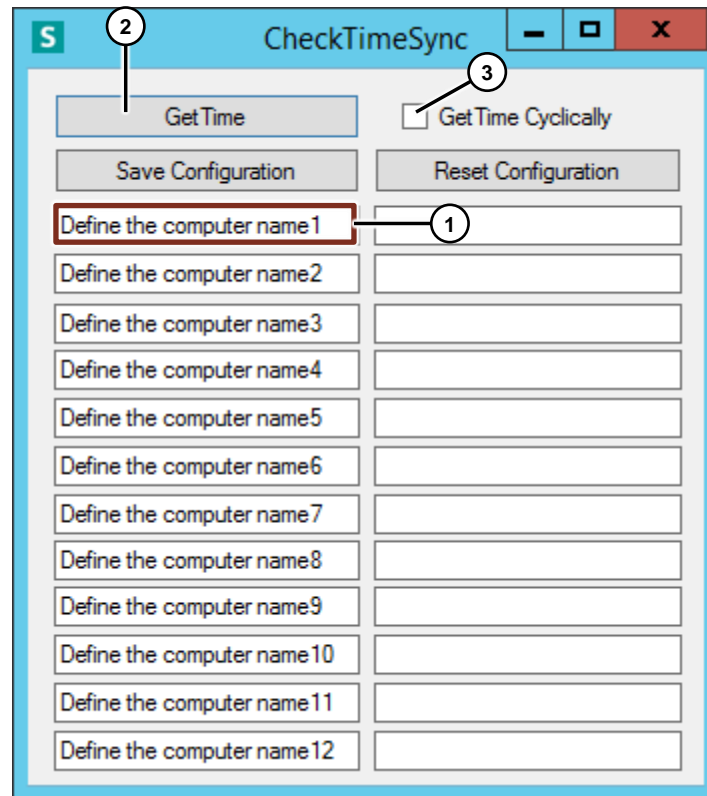
3. Define the computer names you like to "time check"(1).
4. Click on the button "GetTime"(2) in order to read all computer times one time.
5. Aktivate the Checkbox "GetTime Cyclically"(3) in order to read all computer times every 2 seconds.
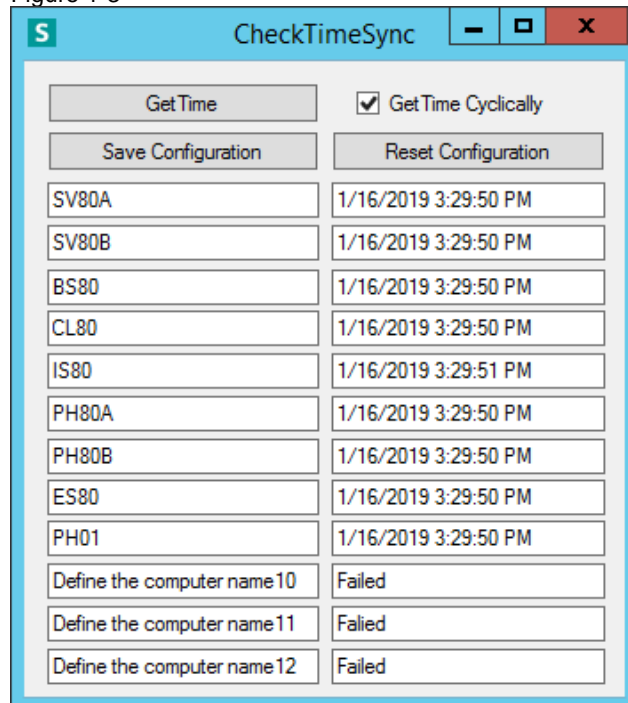
Save and Reset Configuration

6. Click on the button "Save Configuration" in order to save the defined computer names. The configuration is saved in the file "ComputerName.txt"
7. Click on the button "Reset Configuration" to restore the configuration, which was saved in the file "ComputerName.txt"

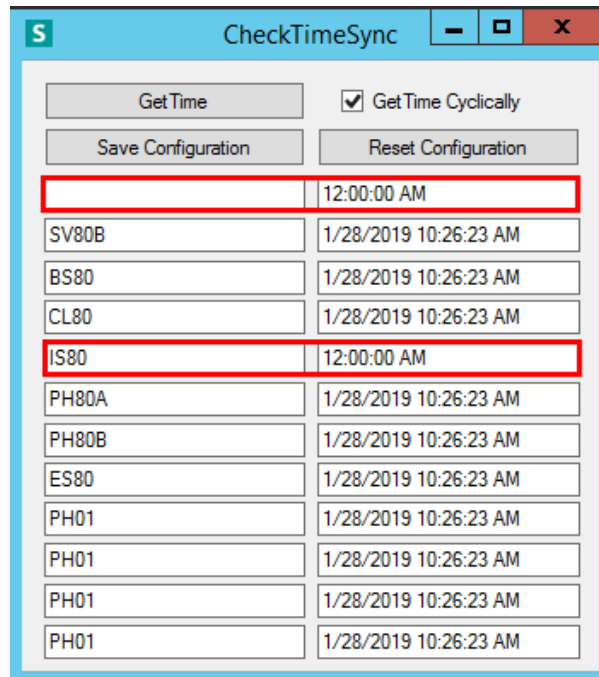Figure 1-2
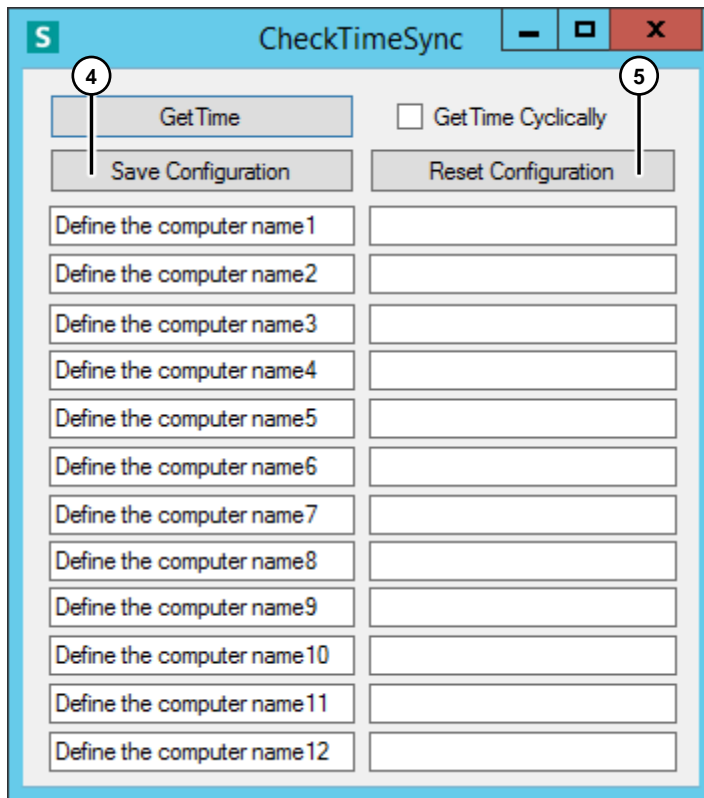
Result

Figure 1-3

Hint	The tool "CheckTimeSync.exe" is reading the computer times sequential. There is a very small delay between the time calls.

If the remote computer is not reachable the time stamp is marked as "Failed".

If the remote computer is reachable but the time call fails or the computer name is empty, the time stamp is marked as "00:00:00" or "12:00:00 PM", depending on the local machine time settings.

Figure 1-4

Get Time	☑ Get Time Cyclically
Save Configuration	Reset Configuration
	12:00:00 AM
SV80B	1/28/2019 10:26:23 AM
BS80	1/28/2019 10:26:23 AM
CL80	1/28/2019 10:26:23 AM
IS80	12:00:00 AM
PH80A	1/28/2019 10:26:23 AM
PH80B	1/28/2019 10:26:23 AM
ES80	1/28/2019 10:26:23 AM
PH01	1/28/2019 10:26:23 AM
PH01	1/28/2019 10:26:23 AM
PH01	1/28/2019 10:26:23 AM
PH01	1/28/2019 10:26:23 AM

Restrictions

- The tool "CheckTimeSync.exe" displays the time stamp as "hh:mm:ss". Checking the time synchronization including milli-seconds (ms) is not possible.
- If the remote time call fails, the tool is inoperable for a few seconds.

2 Appendix

2.1 Service and support

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2.2 Links and literature

Table 2-1

No.	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Link to this entry page of this application example https://support.industry.siemens.com/cs/ww/en/view/66579062
\3\	

2.3 Change documentation

Table 2-2

Version	Date	Modifications
V1.0	01/2019	First version