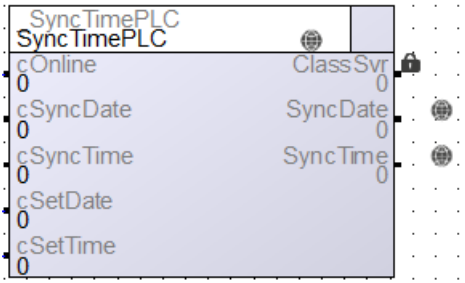
_SyncTimePLC



This class is used to synchronize the date and time of two CPUs

Interfaces

Servers

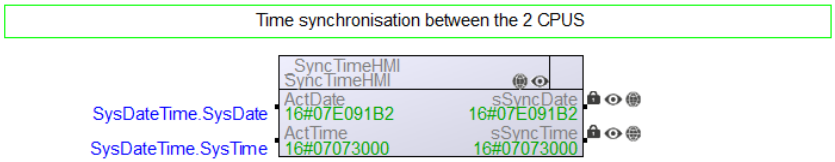
ClassSvr	Class Server
SyncDate	Date source (starting with V.2.0)
SyncTime	Time source (starting with V.2.0)

Clients

cOnline	Connection to read the online status of the Multimaster
cSyncDate	Date source (connection to read the date of the other CPU)
cSyncTime	Time source (connection to read the time of the other CPU)
cSetDate	Date destination (connection to set the date of source CPU)
cSetTime	Time destination (connection to set the time of the source CPU)

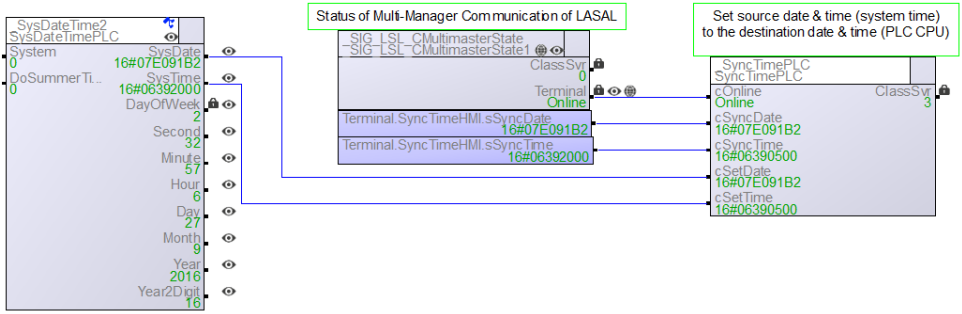
Use of old variants

The screen shots show the classes before Version 2.0.
Starting with V.2.0, the classes have additional connections If this is not used, the class can still operate in the old synchronization variant.



Date and time are output to the sSync servers and and transmitted via multi-master to the MC as world variables.

In the remote station (MC), the "_SyncTimePLC" class must be used.

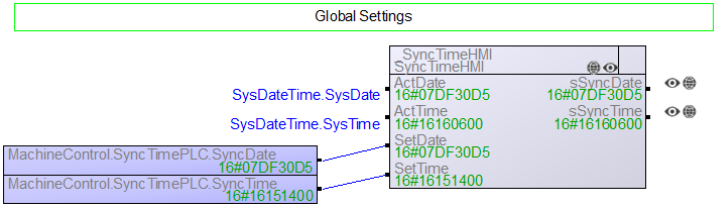


→the input is entered in the class server "SysDate" via the visualization and "SysTime" of the HMI object "SysDateTime"
→ the class servers mentioned above are connected to the Act clients of "SyncTimeHMI"
→ the "SyncTimeHMI" object stores the Act-Client data cyclicaly in the sSync-Server
→ the sSync servers are sent to the MC via the Multimaster - the cSync clients of the MC objects "SyncTimePLC" is connected there.
→ the MC object "SyncTimePLC" transfers the Sync client to the Set clients in minute intervals
The MC clock is now synchronized.

Disadvantage: it can take up to one minute, since it is now possible to react to the input directly.

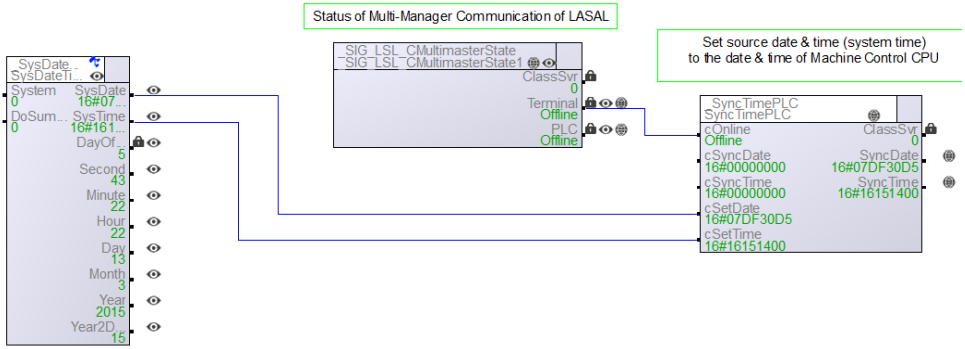
Using new variants

Starting with V.2.0, the classes have additional connections.



Date and time are output to the sSync servers, here input is now also possible!

In the remote station (MC), the "_SyncTimePLC" class must be used.



→the input is entered in the class server "sSysDate" via the visualization and "sSyncTime" of the HMI object "SyncTimeHMI"
→ the entries mentioned above are sent to the Act clients and therewith the connected class servers "SysDate" and "SysTime" of the HMI object "SysDateTime"
→ the entries mentioned above are also sent to the optional Set clients
→ the Set clients are connected with the Sync severs of the "SyncTimePLC" object on the machine control (MC) via MultiMaster
→ the MC object "SyncTimePLC" sends the new data with each Server write() to the Set clients
The MC clock is now synchronized.

Advantage: it is possible to react to the entries directly, the clock is immediately synchronized.