



INHECO ODTC® Control

For INHECO SiLA PMS Version: 0.2.0.0 and higher

► **User's Manual**

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1 IMPORTANT NOTES

1.1. General Information

Read the user instructions completely. The manual explains how to use the INHECO SiLA PMS to control the ODTC®. The INHECO SiLA PMS allows to operate the ODTC® as a stand-alone unit and is only delivered for testing the functionality. The ODTC® is not produced for stand-alone use but only for integration. In case these manual instructions are not followed, product damage cannot be excluded.

Missing or insufficient knowledge of the manual leads to loss of liability against INHECO GmbH.

This manual is part of the ODTC® and must be retained until the unit is disposed off and must be passed on with the device when the unit is taken over by a new user.

Manual instructions must be followed in order to ensure save handling of the unit.

Security-related warnings in this manual are classified into three hazard levels:

- The signal word **WARNING** indicates hazards which – without precautionary measures – can result in serious injury or even death
- The signal word **CAUTION** is given to indicate hazards which – without precautionary measures – can result in minor to moderate injuries or could impair functioning.
- The signal word **NOTE** stands for the general precautionary measures that have to be taken to avoid problems with the software when using it.

Contact INHECO in case there are any uncertainties of how to operate or how to handle the INHECO PMS.

Your opinion about this manual provides us with valuable insights on how we can improve this document. Please do not hesitate to direct your comments to sales@inheco.com, → How to contact INHECO, below.

1.2. Explanation of symbols

Symbol	Explanation
	Warning: Potential danger of serious injury or death.
	Note: Potential danger of material damage.
.	Bullet points indicate steps of instructions.
-	Hyphens refer to enumeration.
→	Arrows indicate: "refer to" and are mostly active links
blue writing	indicate a software button

1.3. How to contact INHECO

INHECO GmbH	
Address	Fraunhoferstr. 11 82152 Martinsried, Germany
Telephone - Sales	+49 89 899593 101
Fax	+49 89 899593 149
E-Mail - Sales	sales@inheco.com
E-Mail - Technical -Hotline	techhotline@inheco.com
Website	www.inheco.com

Technical Support & Trouble Shooting Instructions:

<http://www.inheco.com/service/technical-support.html>

1.4. Abbreviations and Glossary

Symbol	Explanation
SiLA	Standard in Laboratory Automation
PMS	Process Management Software
ODTC®	On Deck Thermal Cycler
FWCS	Firmware Command Set
.exe file	executable file
.xml file	file written in extensible markup language
°C	Degree Celsius
K	Kelvin
dll	dynamic link library
LAN	Local Area Network
GB	GigaByte
MB	MegaByte
IP	Internet Protocol
DHCP	Dynamic Host Configuration Protocol
TCP	Transmission Control Protocol
method	Defines all temperature steps for one single run.
temperature initialization step	A special step which is mandatory to set the ODTC® mount and lid to a defined start temperature before a method can start.
method set	Comprises all edited temperature initialization steps and methods

2 PRODUCT DESCRIPTION

2.1. Intended Use

The ODTC® needs to be addressed by a SiLA PMS (Process Management Software) for operation. For the Integration into SiLA based liquid handling workstations the already existing workstation SiLA protocol can be used to operate the ODTC®. For non SiLA based workstations an additional driver has to be written which translates the workstation protocol into a SiLA based protocol. The description of the command set and the SiLA communication protocol are part of the delivery of the ODTC®.

The temperature profiles have to be programmed in xml format and then transferred/loaded to the ODTC® via the Ethernet connector. The xml files must be created by using the ODTC® Script Editor. The ODTC® Script Editor allows an easy editing of temperature profiles and the translation into ODTC® compatible xml files. After editing the desired temperature profiles, the Script Editor translates the programmed temperature curves into ODTC® compatible xml files. The generated xml files can either be transferred by the PMS of the liquid handling workstations. The INHECO PMS is only delivered on request of login password for login section and for functional testing of ODTC® only.

You can request the necessary files for ODTC® Control from techhotline@inheco.com.

- SiLA PMS.exe
- Script Editor3.exe

NOTE

To use the open Script Editor button in the SiLA PMS the Script Editor3 needs to be installed with the ScriptEditor installer → **Manual Script Editor**, provided with the ODTC®.

3 SOFTWARE INSTALLATION

Please follow the instructions in the given order. Ignoring the correct order may cause complications during installation. Contact your system administrator to check requirements and settings.

3.1. Hardware and System Requirements

- Windows compatible x86 based CPU (32 and 64 bit is supported)
- Supported Architectures: x86; x64 and ia64 (some features are not supported on ia64 for example, WPF)
- Operating system: Windows XP, Windows Vista, Windows 7, Windows 8 or Windows 8.1
- .net framework 4.0 (client of full version) as the INHECO SiLA PMS is compiled with .net framework 4.0.
- Network Adapter: IEEE 802.3 Ethernet Network Interface (10/100/1000 BASE-T)
- Processor: 1GHz or faster
- Ram Minimum 512 MB
- Disk space minimum for x86: 850 MB
- Disk space minimum for x64: 2 GB

3.2. Local Network Requirements

NOTE

For the use of the INHECO SiLA PMS it might be necessary to adjust local network or PC settings. Thus your network administrator should perform the first installation of the ODTC® and the software.

Adjustments to local network:

- The ODTC® needs two TCP ports for communication. Port 7070 is for sending, port 8080 is for receiving. Please check the firewall settings.
→ microsoft windows 7: Open a port in windows 7 firewall
→ for other operating system: www.microsoft.com

NOTE

The ODTC® does not detect whether communication ports are blocked by a firewall or not. If the INHECO SiLA PMS does not receive any acknowledgments of the ODTC® please check the firewall settings.

If TCP Port 7070 and 8080 are already open and you still receive no acknowledgments check your Ethernet Network Adapter. If it is lower than 1 GB please change the ODTC® connection cable to the red Cross Over Ethernet cable (delivered with the ODTC®).

NOTE

Specifications within the windows firewall

- type of rule: Port
 - specific local port: 7070 and 8080
 - type of action: allow the connection
 - when does this rule apply: choose domain, private **and** public
-
- .net framework 4.0 (client of full version) is required
Download link .NET for installation also possible without Web-Access
 - For the allocation of the IP address → Determination of IP address, page 7 ff.

4 DAILY USAGE

4.1. Control the ODTC® with the INHECO SiLA PMS

As the communication interface of the ODTC® is based on a web based protocol (TCP/IP) the ODTC® can only be addressed if the IP address of the ODTC® is known. Depending on your network setup the IP address of the ODTC® can be static or a dynamic IP address can be provided by a DHCP server.

4.1.1. Determination of the ODTC® IP address

The delivered tool "INHECO ODTC® Device finder" helps you to get the IP address, assigned by the network DHCP server. The "INHECO ODTC® Device finder" is stored on the USB flash drive delivered with the ODTC®. (→ Manual ODTC®)

- Please open the file ODTC® DeviceFinder.exe with a double click and follow the instructions:



Fig.1: Screenshot of ODTC® Device finder before ODTC® is located

As soon as the ODTC® Ethernet interface is initialized (green light at right Ethernet connector → Manual ODTC®) the IP address is shown:

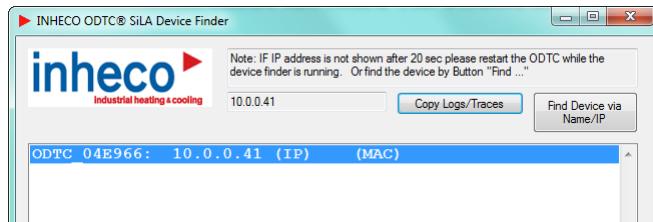


Fig.2: Screenshot of ODTC® Device finder after ODTC® is located

- Use the shown IP address (here 10.0.0.41) to communicate with the ODTC®.

NOTICE

The device finder shows all ODTC® which are connected to the network or to the PC you are using. To distinguish several ODTC® devices shown in this device finder use the NodeName → label on device (in this case ODTC_04E699)

Depending on the network (DHCP server) the IP address might change after a restart of the ODTC®. Please contact your system administrator for further assistance.

NOTICE

In case the ODTC® is not shown after initialization (green light at right Ethernet connector → page 12) restart the ODTC or use the button Find Device via Node Name/IP on the ODTC® label → page 13. If it still does not work please deactivate your WLAN.

4.1.2. User Interface INHECO SiLA PMS

- Open the software by double-clicking on data file **INHECO SiLA PMS.exe**
- After double clicking the following screen will open:

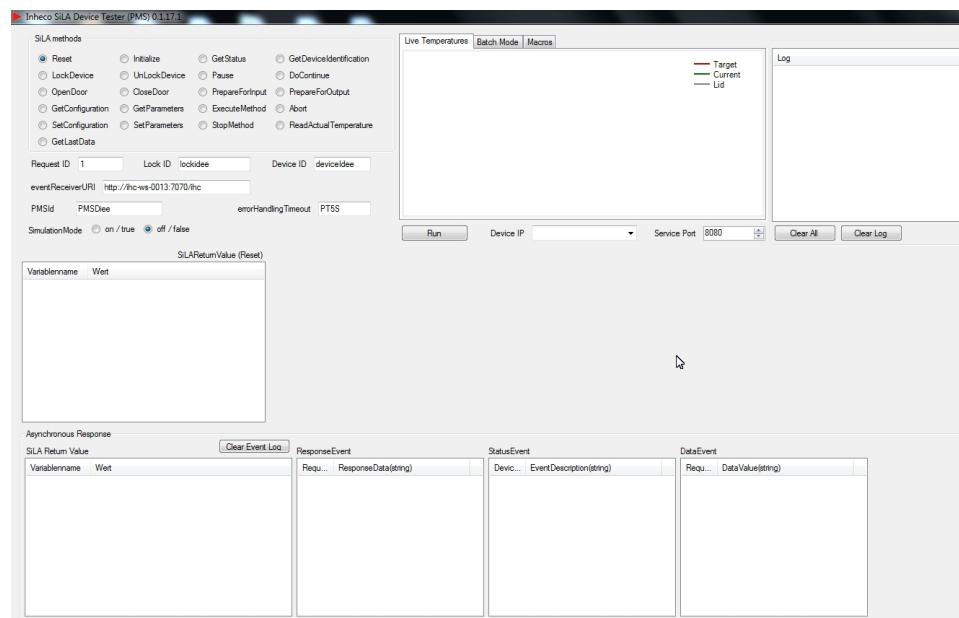


Fig.3: INHECO SiLA PMS User Interface

SiLA methods	pre-edited SiLA Commands. The selected commands can be executed by clicking the button "Run". Implemented SiLA commands are defined in SiLA Consortium, SiLA Device Control & Data Interface Specification Version 1.2.01 or INHECO Firmware Command Set. In the following only commands are mentioned which are necessary for ODTC® functionality tests.	
Reset	resets the ODTC®. All queues shall be emptied without sending response events of already started or queued commands.	
Initialize	initializes the ODTC® and sets the device in the state "idle".	
OpenDoor	opens the door of ODTC®	
CloseDoor	closes the door of ODTC®	
SetParameters	sets device class and device specific parameters within the state "idle" so that the new values are used for the next command invocation. Only the parameters that need to be changed have to be transmitted to the device.	
ExecuteMethod	starts a previously defined method with the device control software. A method is uniquely determined by its identifier "methodName".	
Abort	halts all executing asynchronous commands. Aborted commands cannot be continued.	
GetStatus	reports the state of the device. Important to find out if "idle" state is achieved.	
GetDeviceIdentification	delivers information by a SiLA defined complex data type, named SiLA_DeviceIdentification.	
Run	executes a SiLA Method	
Device IP	IP address of ODTC® must be entered here	

Live Temperatures	shows the temperature profile of the ODTC® while a method is executed. The vertical axis displays temperature (dimension 1/100 °C). The horizontal axis displays time (dimension 1/1000 s)
Log	shows the current entries to the log file.
Clear All	clears the information from the screen but not from the devices.
Clear Log	clears the information from the log window but not from the devices.
Area below SiLA-Method	provides information or input boxes which are depending on the selected SiLA Method. The specific user interfaces will be explained in the → Appendix, page 19 ff.
SiLA Return Value	each sent command gets a specific color. Successful commands will be displayed as follows: device class: 30 = SiLA class for PCR devices. duration: PTXX: duration in minutes and seconds message: Asynchronous command accepted return codes: different for each command. The specific return codes are defined in the SiLA firmware command set for ODTC®.
Asynchronous Response	shows the return answer of the ODTC® on an executed command. After the command is executed the color of the return answer in the "ResponseEvent" window will be displayed in the same color as the command sent in the "SiLA Return Value" window. (→ figures 4 and 5 below) device class: 30 (SiLA device class for PCR devices) duration: PTXX: duration in minutes and seconds message: Asynchronous command has finished (command has been executed) return codes: different for each command. The specific return codes are defined in the SiLA firmware command set for ODTC®.

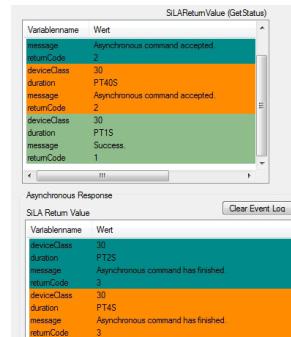


Fig.4: Color Management showing accepted command (last accepted command, here in green is not successful executed yet as last color in Asynchronous Response is different)

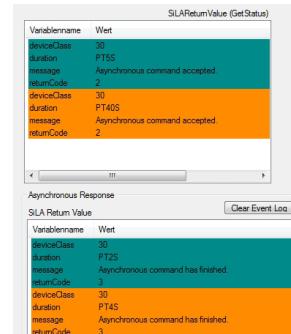


Fig.5: Color Management for successful executed command (last accepted command, here orange is successful executed as last color in Asynchronous Responses is the same color)

4.1.3. Get the ODTC® ready for operation ("idle" state)

Before the ODTC® is able to process any script or specific commands (like OpenDoor or CloseDoor) the ODTC® has to be set in "idle" state. The following steps in the INHECO PMS have to be performed to get the ODTC® in "idle" state.

NOTE

In case the ODTC® is controlled by a PC not connected via a local network (one-to-one communication), the eventReceiverURI has to be entered in addition:

- enter <http://IP-Address of controlling PC:7070/ihc> (for getting IP address of the PC → chapter 4.1.1, page 7.
(in image below: <http://ihc-ws-0013:7070/ihc>)
- if the PC and the ODTC® are connected to a local network, leave the eventReceiverURL as displayed in the window.

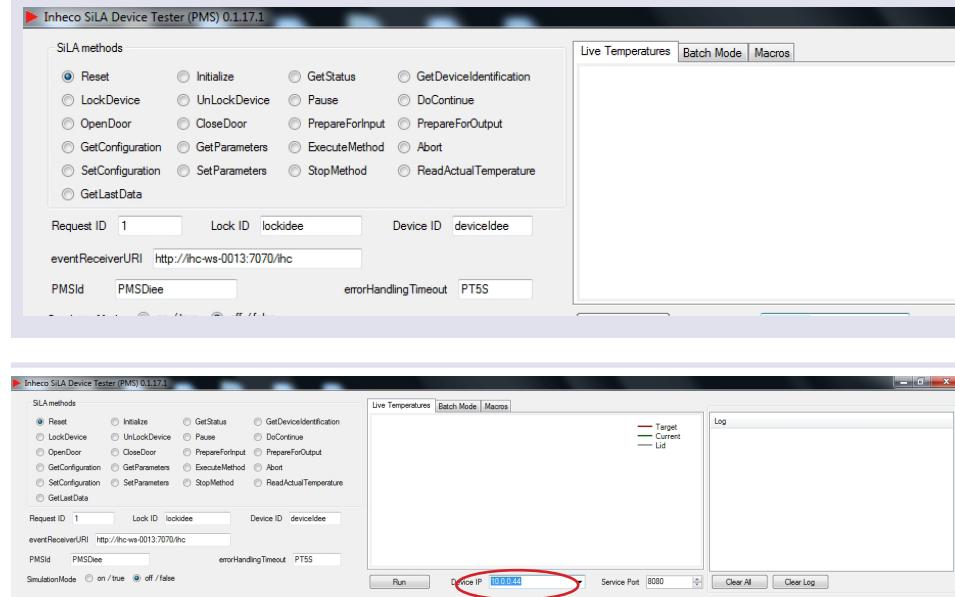


Fig.6: Enter Device IP address (e.g. 10.0.0.44), check **Reset** and click **Run**

- Enter IP address of ODTC® (for getting the IP address → chapter 4.1.1, page 7)
- After entering ODTC® IP address select SiLA Method **RESET**
- Click **Run** button

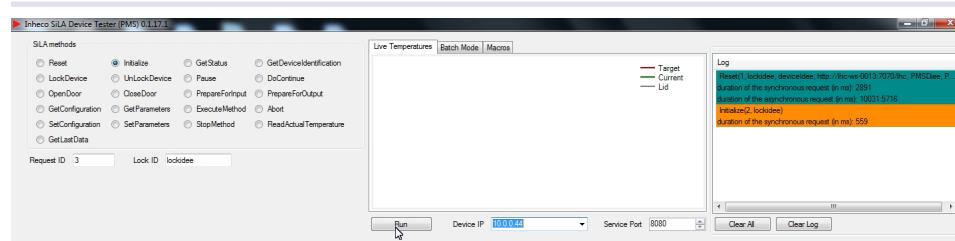


Fig.7: Select **Initialize** and click **Run** button

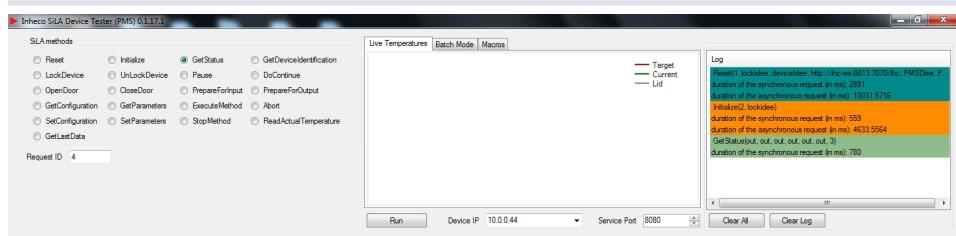


Fig.8: Select **GetStatus** and click **Run** button

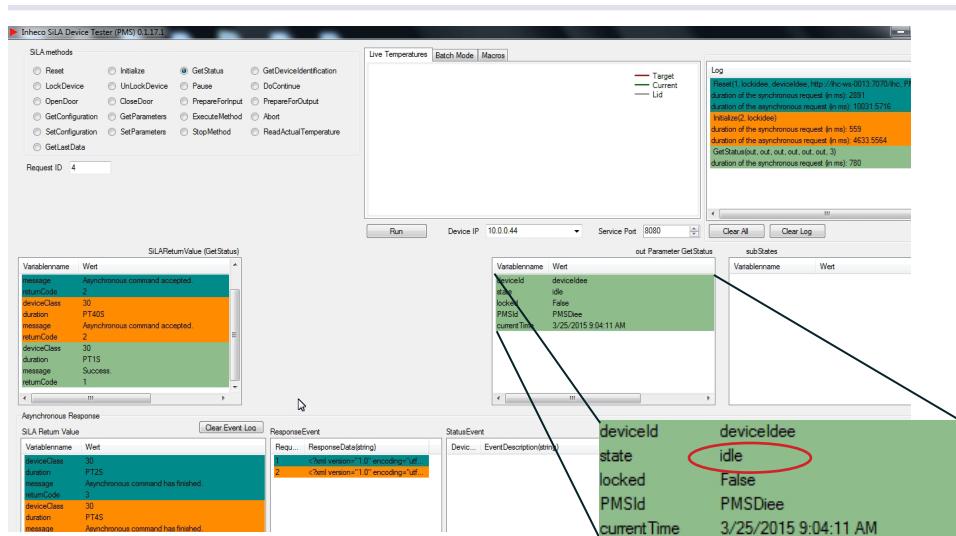


Fig.9: The "idle" state should be displayed in the "out Parameter GetStatus" after the initialize process is finished and the GetStatus command is executed.

Now the ODTC® is initialized and ready for operation.

4.2. Operating the ODTC®

The ODTC® needs to be controlled by a SiLA PMS (Process Management Software). If your liquid handling workstation already provides SiLA no driver development is needed to address the ODTC® (plug & play integration).

The INHECO PMS should only be used for testing the ODTC® functionality.

The temperature profiles have to be programmed in xml format and then transferred/loaded to the ODTC® via SiLA communication. The xml files must be created by using the ODTC® Script Editor. The Script Editor is delivered on the USB flash drive together with the ODTC®.

The following chapters describe how the INHECO PMS can be used to transfer a given thermal protocol and to test the general functions such as open door and close door.

NOTE

The ODTC® has to be in the state "idle".

4.3. Transfer of method / method set (xml file) to the ODTC®

4.3.1. Load a method with third party PMS

Contact liquid handling workstation manufacturer for further details.

4.3.2. Load a method with INHECO SiLA PMS

NOTE

The new ODTC SiLA PMS (version 0.2 and higher) is optimized for the use with the Script Editor 3. Contrary to former versions the Script Editor is no longer part of the PMS. An additional installation of the Script editor 3 (by using the Script Editor installer) is required to get access to the Script Editor through the INHECO SiLA PMS.

- By selecting [Set Parameter](#) the following window will be displayed in the area below "SiLA methods":

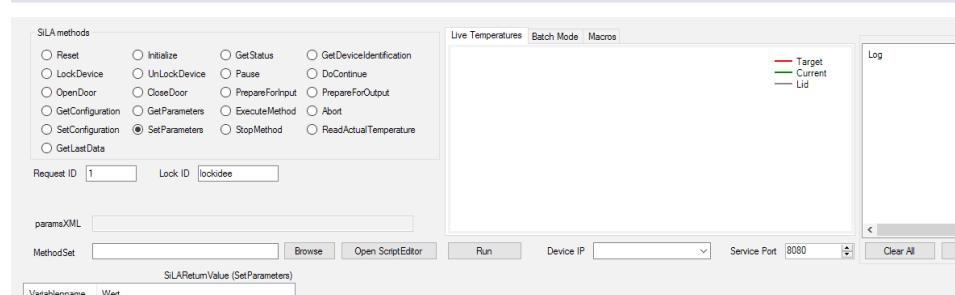


Fig.10: **SetParameter section**

- The SiLA PMS doesn't require the installation of the Script Editor 3 but the function "[open Script editor](#)" is then not available in the SiLA PMS software.

NOTE

The button "Open ScriptEditor" will start the ScriptEditor 3 when the installation was performed → **Manual Script Editor**, provided with the ODTC®.

- xml files (either generated with the Script Editor 3 or versions below) can be downloaded to the SiLA PMS software by using the [Browse](#) button.

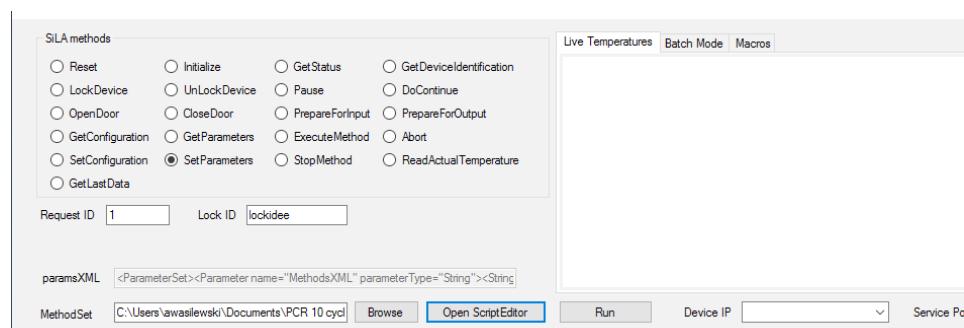


Fig.11: **Method set prepared for loading**

- As soon as the loading is finished successfully the paramsXML field is filled automatically and the transfer to the ODTC® can be started with the [Run](#) Button.

Now the methods are available to be executed by the command "ExecuteMethod"

4.3.3. ExecuteMethod

- Select **ExecuteMethod**
- Enter the method name

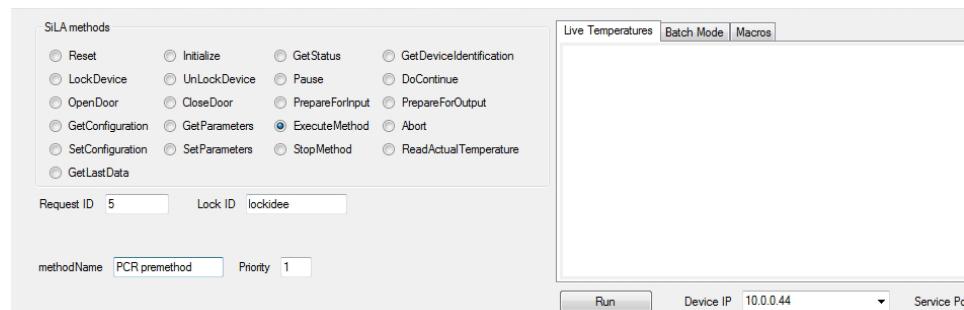


Fig.12: Entered method name

- Click on **Run** button

Now the method will be executed.

4.3.3.1 Wrong method selected

In case you have selected the wrong method, e.g. you want to start a method without the temperature initialization step (→ **Script Editor Manual**), you will receive the following message "invalid command parameter" in the SiLAReturnValue Section:

SiLAReturnValue (ExecuteMethod)	
Variablenname	Wert
message	Success.
returnCode	1
deviceClass	30
duration	PT2M
message	Asynchronous command accepted.
returnCode	2
deviceClass	30
duration	PT2S
message	Invalid command parameter Requested method
returnCode	11

Fig.13: Wrong method (ODTC® not in the correct state)

e.g. you want to start a method that does not exist, you will receive the following message "requested method not found" in the SiLAReturnValue section:

SiLAReturnValue (ExecuteMethod)	
message	Command accepted.
returnCode	0
message	Parameter 'Requested method 'PCR premethod 1' not found. Pa...

Fig.14: Wrong method (requested method not loaded to ODTC®)

4.3.3.2 Live temperature while method is executed

The section Live Temperature shows the current temperature of the ODTC® Mount and the ODTC® Lid. Furthermore the target temperature is displayed.

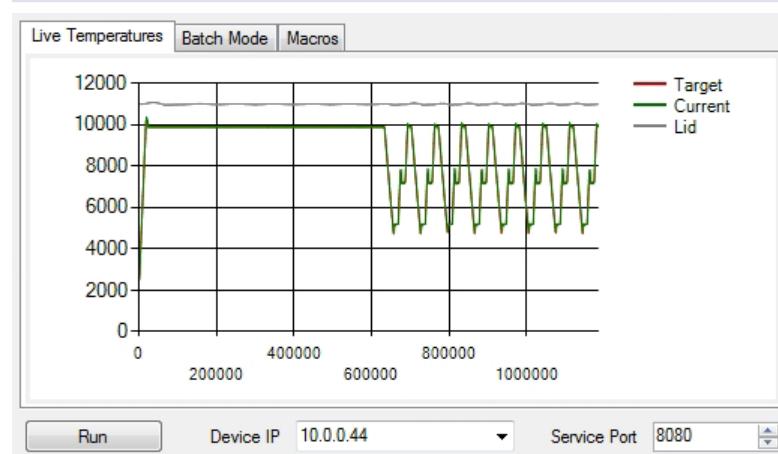


Fig.15: Live temperature display

The vertical axis displays temperature (dimension 1/100 °C). The horizontal axis displays time (dimension 1/1000 s)

4.3.3.3 Method ended successful

You can see when a method has finished:

- Live Temperature does not update anymore
- the SiLA return value is in "Asynchronous command has finished"

SiLA Return Value		ResponseEvent		Status
Variablenname	Wert	Req...	ResponseData(string)	
deviceClass	30	1	<?xml version='1.0' encoding='utf...	
duration	PT2S	2	<?xml version='1.0' encoding='utf...	
message	Asynchronous command has finished.			
resultCode	3			
deviceClass	30			
duration	PT4S			
message	Asynchronous command has finished.			
resultCode	3			

Fig.16: Color Management for successful executed command (last accepted command, here in orange and also successful executed command as ResponseEvent is showing the same orange color)

- the device will be in state idle. This can be checked with the command [GetStatus](#).

state	busy
locked	False
PMSId	PMSDiee
currentTime	3/25/2015 9:53:57 AM
deviceId	deviceledee
state	idle
locked	False
PMSId	PMSDiee
currentTime	3/25/2015 9:58:10 AM

Fig.17: Idle state

4.4. Stop executed method

- Select [StopMethod](#) and click Run

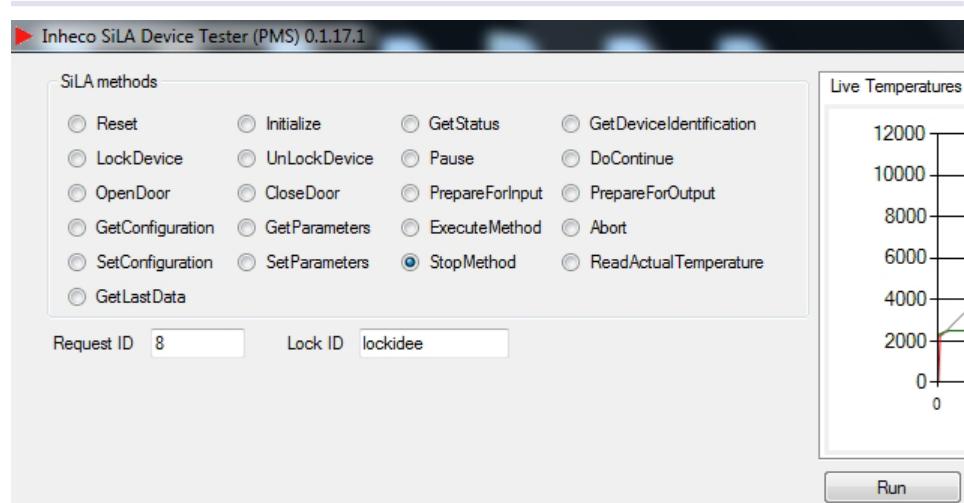


Fig.18: StopMethod Command

4.5. Additional INHECO PMS Features

4.5.1. GetStatus of ODTC®

Sending the command [GetStatus](#) will display the current states of the ODTC® in the "out parameter GetStatus" window.

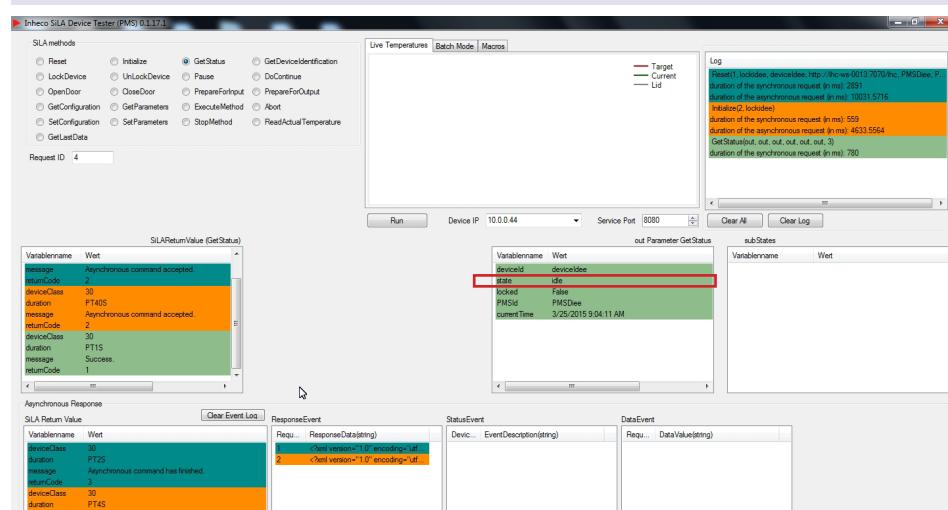


Fig.19: "idle" state after initialization

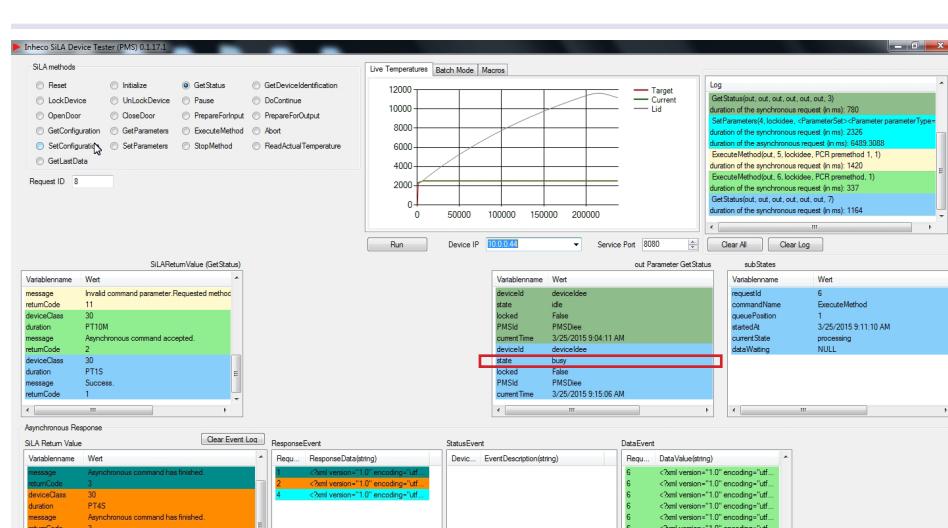


Fig.20: State is "busy" while a method is running

4.5.2. GetDeviceIdentification

The information about firmware version and serial number of the ODT® can be retrieved by sending the [GetDeviceIdentification](#) command.

- Select [GetDeviceIdentification](#)
- Execute with [Run](#)

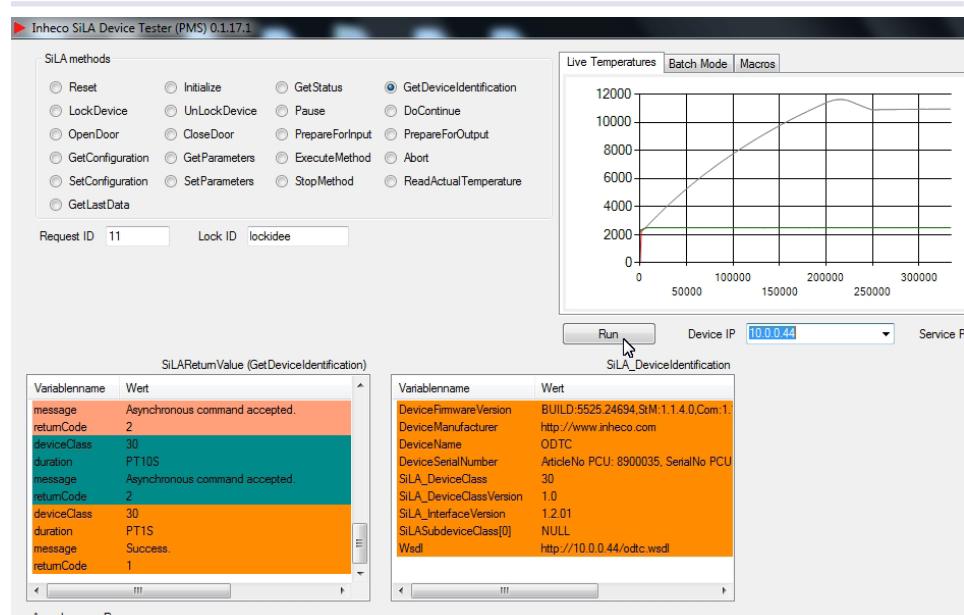


Fig.21: [GetDeviceIdentification](#)

The [SILA_DeviceIdentification](#) field does not display all information. To receive full information from the [SILA_DeviceIdentification](#) field mark the area and use [Ctrl+C](#). Open a txt Editor (e.g. word pad) and insert the copied data with [Ctrl+V](#).

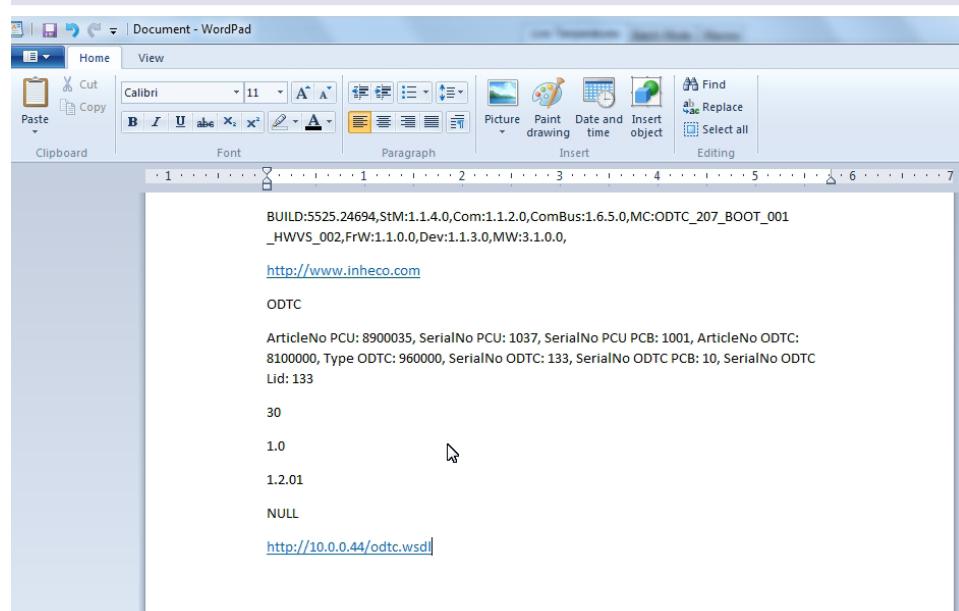


Fig.22: [Full device information](#)

5 APPENDIX

5.1. Specific User Interfaces depending on selected Command

The user interface of the PMS changes depending on the command selected in the SiLA Method.

5.1.1. User Interface while Reset is selected

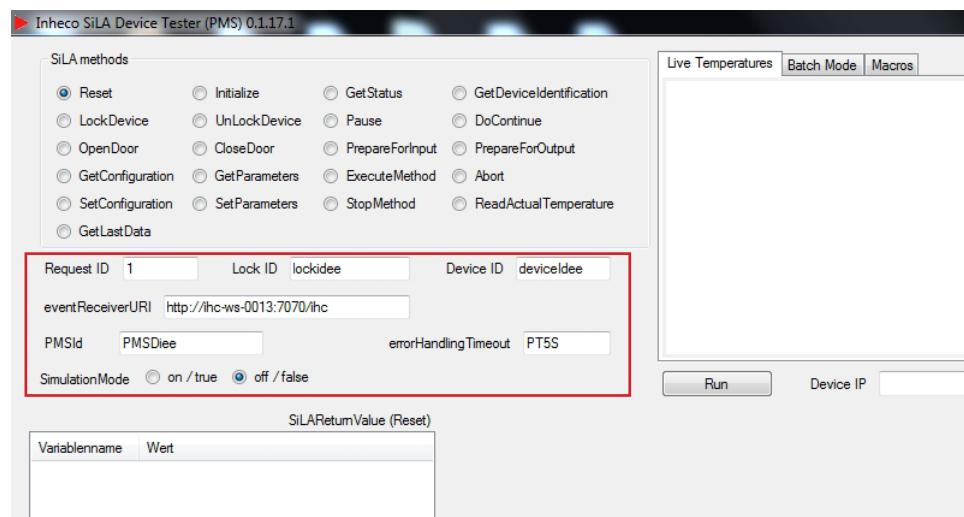


Fig.23: INHECO SiLA PMS User Interface while Reset is selected

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider
Lock ID	The ODTC® can be locked with the command Lock device using this Lock ID as password. The default LockID is "lockidee". The Lock ID can be changed by the user. In case the user forgot the Lock ID, the Lock ID can be reset by restarting the ODTC®.
Device ID	Shows the name of the device. The default Device ID is "deviceldee". The Device ID can be renamed by the user.
Event Receiver URI	If the PC is connected to a local network, leave the eventReceiverURI as displayed in the window. Otherwise follow steps in → chapter 4.1.3, page 10
PMSID	only for internal INHECO use
errorHandling Timeout	only for internal INHECO use
Simulation Mode on/of	only for internal INHECO use

5.1.2. User Interface while Initialize, OpenDoor, CloseDoor or Abort is selected

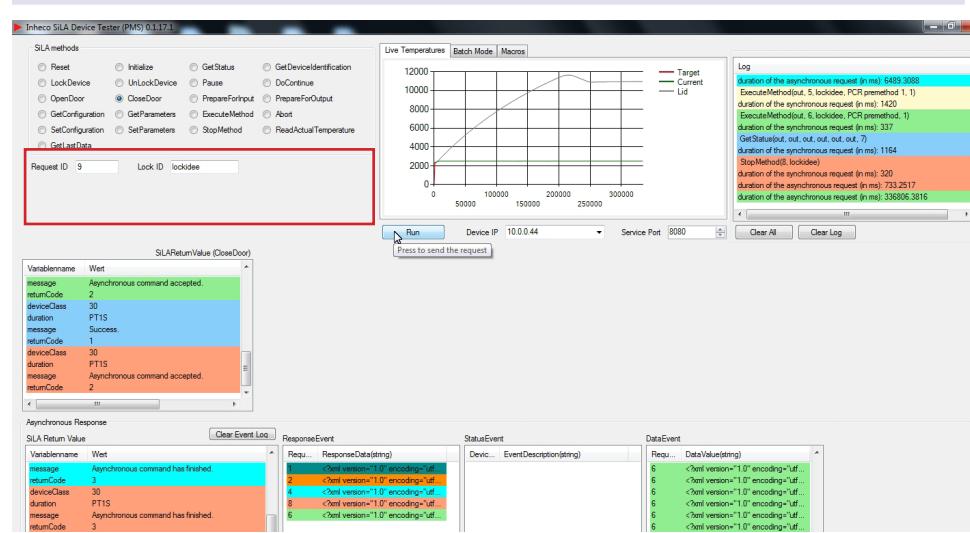


Fig.24: INHECO SiLA PMS User Interface while CloseDoor is selected

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider
Lock ID	The ODT® can be locked with the command Lock device using this Lock ID as password. The default Lock ID is "lockdee". The Lock ID can be changed by the user. In case the user forgot the Lock ID, the Lock ID can be reset by restarting the ODT®.

5.1.3. User Interface while SetParameter is selected

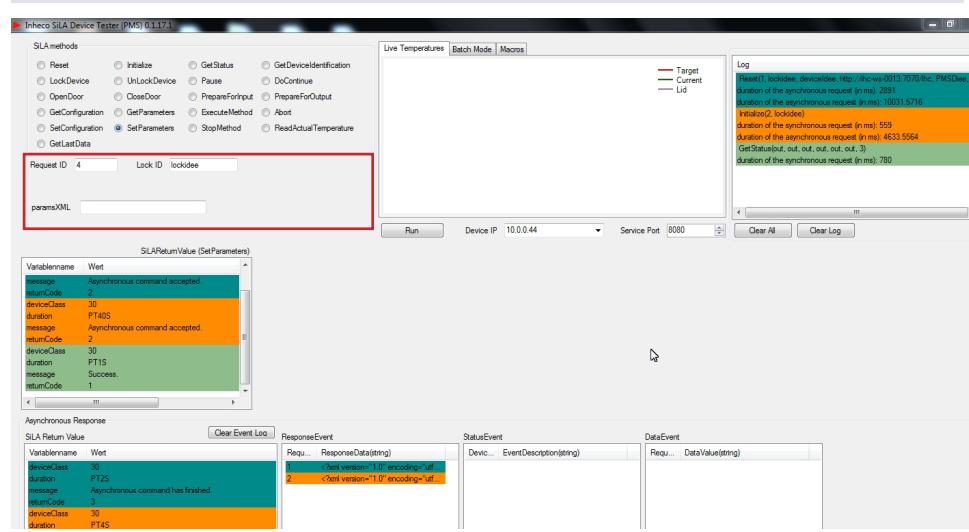


Fig.25: INHECO SiLA PMS User Interface while SetParameter is selected

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider.
Lock ID	The ODTC® can be locked with the command Lock device using this Lock ID as password. The default LockID is "lockidee". The lock ID can be changed by the user. In case the user forgot the lock ID, the lock ID can be reset by restarting the ODTC®.
paramsXML	Field to load the method set in xml format. Double-clicking on field will open Script Editor.

5.1.4. User Interface while ExecuteMethod is selected

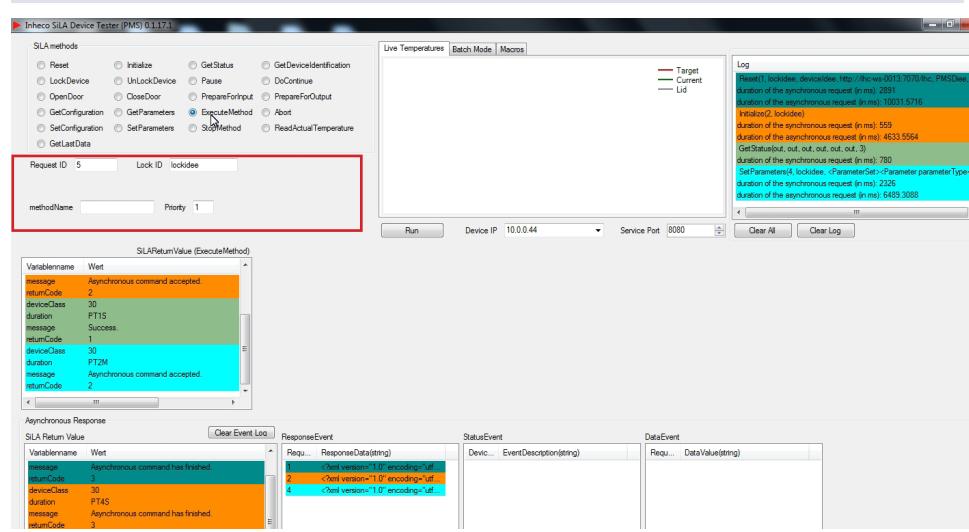


Fig.26: INHECO SiLA PMS User Interface while ExecuteMethod is selected

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider.
Lock ID	The ODTC® can be locked with the command Lock device using this Lock ID as password. The default LockID is "lockidee". The Lock ID can be changed by the user. In case the user forgot the Lock ID, the Lock ID can be reset by restarting the ODTC®.
methodName	Field to enter the method name of the loaded method / method set
Priority	1

5.1.5. User Interface while GetStatus is selected

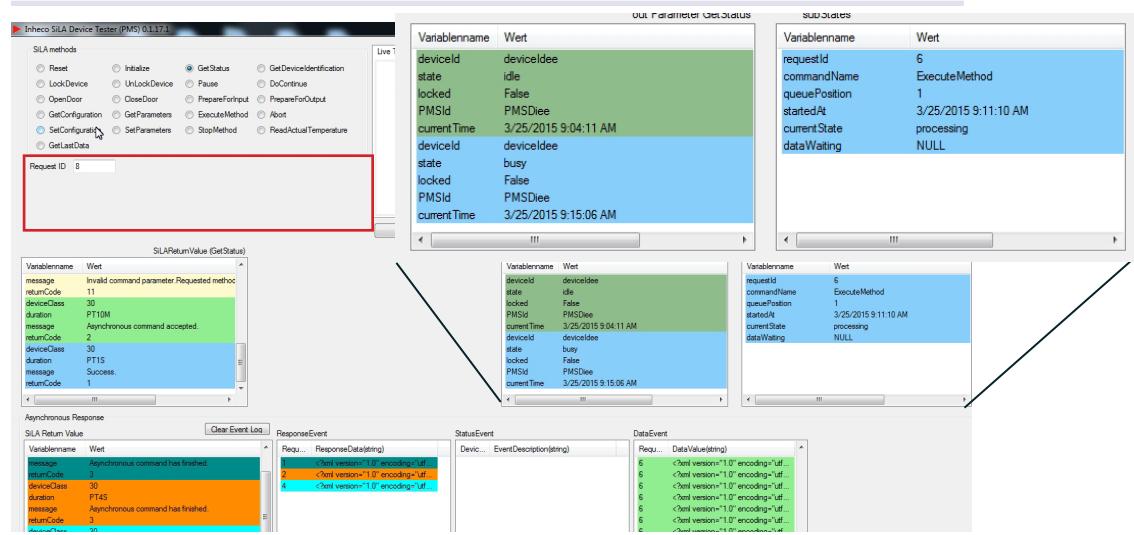


Fig.27: INHECO SiLA PMS User Interface while GetStatus is selected and executed with Run

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider.
out parameter GetStatus window	<p>shows following information:</p> <p>DeviceID: Default is deviceidee. If you have renamed the DeviceID the new name will be shown here</p> <p>State: e.g. idle (device is ready to accept new commands) or busy (device will not accept new commands)</p> <p>This SiLA information are defined following the SiLA Consortium, SiLA Device Control & Data Interface Specification Version 1.2.01</p> <p>locked: False (device is unlocked) or true (device is locked)</p> <p>PMSID: Default is pmsidee. If you rename the PMSID the new name will be shown here</p> <p>Current time: Shows the current time of μController which is preset to CET → Firmware Command Set for setting local time.</p>
subStates information window	<p>shows following information:</p> <p>Request ID: Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider</p> <p>CommandName: name of selected command (here execute method)</p> <p>queue Position: Position of the executed command in the queue. In standard operation there should be no queue.</p> <p>startedAt: Shows the time of μController when the command was executed</p> <p>current state: e.g. processing (command is still active)</p> <p>This SiLA information are defined following the SiLA Consortium, SiLA Device Control & Data Interface Specification Version 1.2.01</p> <p>dataWaiting: Shows the priority which is NULL</p>

NOTE

The current time and the startedAT time are corresponding with the time of the μPC which is preset to CET and might be significantly different from the time on the PMS computer.

5.1.6. User Interface while GetDeviceIdentification is selected

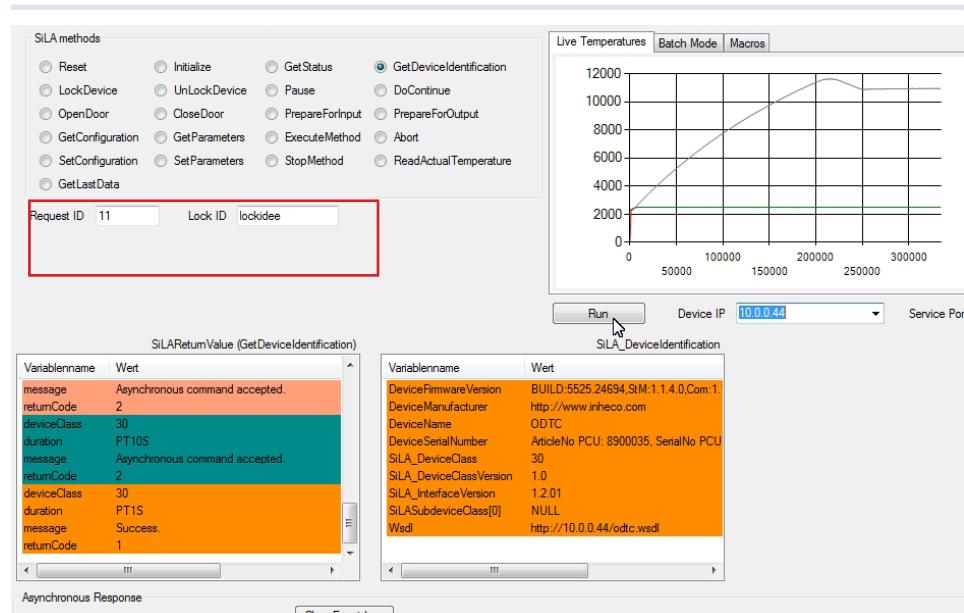


Fig.28: INHECO SiLA PMS User Interface while Set Parameter is selected

Request ID	Uniquely generated sequence number by the SiLA Service Consumer for identifying asynchronous answers by a SiLA Service Provider.												
Lock ID	The ODTC® can be locked with the command Lock device using this Lock ID as password. The default LockID is "lockidee". The Lock ID can be changed by the user. In case the user forgot the Lock ID, the Lock ID can be reset by restarting the ODTC®.												
SiLA_DeviceIdentification window *	<table> <tr> <td>Device firmware version</td> <td>shows information about the firmware version of the ODTC®</td> </tr> <tr> <td>Device Manufacturer</td> <td>shows the URL of INHECO</td> </tr> <tr> <td>Device Name</td> <td>ODTC®</td> </tr> <tr> <td>Device Serial Number</td> <td>article number and serial number of the ODTC® Power and Control Unit and the ODTC® Thermocycler</td> </tr> <tr> <td>SiLA Device Information</td> <td>displays: DeviceClass, DeviceClass Version, InterfaceVersion and SiLASubdeviceClass. This SiLA information are defined following the SiLA Consortium, SiLA Device Control & Data Interface Specification Version 1.2.01</td> </tr> <tr> <td>WSDL</td> <td>displays the Web Services Description Language file for the ODTC®</td> </tr> </table>	Device firmware version	shows information about the firmware version of the ODTC®	Device Manufacturer	shows the URL of INHECO	Device Name	ODTC®	Device Serial Number	article number and serial number of the ODTC® Power and Control Unit and the ODTC® Thermocycler	SiLA Device Information	displays: DeviceClass, DeviceClass Version, InterfaceVersion and SiLASubdeviceClass. This SiLA information are defined following the SiLA Consortium, SiLA Device Control & Data Interface Specification Version 1.2.01	WSDL	displays the Web Services Description Language file for the ODTC®
Device firmware version	shows information about the firmware version of the ODTC®												
Device Manufacturer	shows the URL of INHECO												
Device Name	ODTC®												
Device Serial Number	article number and serial number of the ODTC® Power and Control Unit and the ODTC® Thermocycler												
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WSDL	displays the Web Services Description Language file for the ODTC®												

* Window displays not all information. To see full information click on the section you want to see (blue marked). Use Ctrl+C to copy the section and copy the information into a text editor.