

SIMATIC HMI

WinCC flexible 2005 System functions

Printout of the Online Help

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Safety Guidelines

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 to property damage only 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

with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.

Caution

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Notice

indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

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 device/system may only be set up and used in conjunction with this documentation. Commissioning and operation of a device/system may only be performed by **qualified personnel**. Within the context of the safety notes in this documentation qualified persons are defined as persons who are authorized to commission, ground and label devices, systems and circuits in accordance with established safety practices and standards.

Prescribed Usage

Note the following:



Warning

This device may only be used for the applications described in the catalog or the technical description and only in connection with devices or components from other manufacturers which have been approved or recommended by Siemens. Correct, reliable operation of the product requires proper transport, storage, positioning and assembly as well as careful operation and maintenance.

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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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Events

1.1 Events (overview)

Introduction

In WinCC flexible, events (e.g. "Key pressed") can be linked with system functions and scripts. When the configured event occurs in runtime, the system function or the script triggers a certain action on the HMI device or the PLC.

For example, the system function "ActivateScreen" opens the given project screen on the HMI device.

Descriptions of events in ProTool and WinCC

For a better overview, the event description of WinCC flexible is compared to the old ProTool event description. A "--" means that the event is new.

Event description in ProTool V6.0	Event description in WinCC flexible
--	Runtime Stop
--	Little available memory
--	Little available memory, critical
Switch off	Switch off
Clear screen	Cleared
Load screen	Loaded
Screen change	Screen change
Double-click	Double-click
Switch on	Switch on
Select field	Enable
Exit field	Deactivate
Limit exceeded	Upper limit exceeded
Value below limit	Lower limit violated
Click	Click
Edit alarm	Edit
Alarm clears	Deactivate
Alarm arrives	Activate
Alarm acknowledged	Acknowledge
Change password	User change
Buffer overflow	Alarm buffer overflow

Event description in ProTool V6.0	Event description in WinCC flexible
Press key	Press
Release key	Release
Data log overflow Alarm log overflow	Overflow
Value change	Value change
Time expired	Time expired
Status change	Change

1.2 Cleared

Description

Occurs when the active screen on the HMI device is cleared.

Configurable objects

The event can occur with the following objects:

- Picture

1.3 Enable

Description

Occurs when the user selects a screen object using the configured tab sequence.

Note

When the user clicks a button, e.g. clicks a button with the mouse, the event "click" is triggered. When the user wishes to trigger the "Activate object" event, the user must select the button using the tabulator order.

Configurable objects

The event can occur with the following objects:

- User view
- IO field
- Graphic view
- Trend view
- Alarm view

- Recipes view
- Switch
- Button
- Slider control
- Status force
- Symbolic IO field

1.4 Change

Description

Occurs when the status of an object changes.

A status change of an object occurs when, e.g., the user activates a switch.

Configurable objects

The event can occur with the following objects:

- Slider control
- Symbolic IO field
- Gauge

1.5 Loaded

Description

Occurs when all configured screen objects are loaded in the given screen after a screen change.

Note

If, for example, a value from the PLC is to be displayed in an I/O field in the screen, it is possible that the connection to the PLC has not yet been established after the device has been started up. In this case, carry out a screen change.

The event "Screen change" is used when always the same system functions are performed after a screen change.

Configurable objects

The event can occur with the following objects:

- Picture

1.6 Switch off

Description

Occurs when the user puts the switch in the OFF position.

Configurable objects

The event can occur with the following objects:

- Switch

1.7 Edit

Description

Occurs as soon as the user edits an alarm in the alarm screen.

A system function in turn can be configured on the event "Edit." For example, it is possible to change to the screen in which the alarm appeared.

Configurable objects

The event can occur with the following objects:

- Alarm

1.8 Screen change

Description

Occurs when all configured screen objects are loaded in the screen after a screen change.

The event "Loaded" is used when you want to perform other system functions during a screen change to a certain screen.

Configurable objects

The event can occur with the following objects:

- Scheduler

1.9 User change

Description

Occurs when a user logs off at an HMI device or another user logs on at the HMI device.

Configurable objects

The event can occur with the following objects:

- Scheduler

1.10 Deactivate

Description

Occurs when the user exits a screen object.

A screen object can be left using the configured tabulator order or by performing another action with the mouse.

Configurable objects

The event can occur with the following objects:

- IO field
- Button
- Switch
- Symbolic IO field
- Trend view
- Slider control
- Alarm view
- Recipes view
- User view
- Status force

1.11 Double-click

Description

Occurs when the user double clicks on an object from the symbol library.

Configurable objects

The event can occur with the following objects:

- Symbol library

1.12 Press

Description

Occurs when the user presses a button.

Configurable objects

The event can occur with the following objects:

- Function key (global)
- Button
- Softkey
- Symbol library
- System key

1.13 Switch on

Description

Occurs when the user moves the switch to ON.

Configurable objects

The event can occur with the following objects:

- Switch

1.14 Deactivate

Description

Occurs when an alarm clears.

Configurable objects

The event can occur with the following objects:

- Alarm

1.15 Click

Description

Occurs when the user clicks a screen object with the mouse or a screen object on the touch display with the finger.

When the wrong screen object is clicked, the completion of the configured function list can be prevented. For this to be done, the mouse pointer is moved away from the screen object while the mouse button is being pressed. As soon as the mouse pointer leaves the screen object, the mouse button can be released. The function list will then not be completed.

On touch displays, the display must be touched with the finger until a reaction occurs, e.g. screen change.

Configurable objects

The event can occur with the following objects:

- Button
- Symbol library

1.16 Activate

Description

Occurs when a system message is triggered and displayed in the alarm screen.

Configurable objects

The event can occur with the following objects:

- Alarm

1.17 Release

Description

Occurs when the user releases a button.

This event does not occur, as long as the button remains pressed.

Configurable objects

The event can occur with the following objects:

- Button
- Symbol library
- Softkey
- Function key (global)
- System key

1.18 Alarm buffer overflow

Description

Occurs when the configured size of the alarm buffer is reached.

Configurable objects

The event can occur with the following objects:

- Scheduler

1.19 Upper limit exceeded

Description

Occurs when an upper limit of a tag is exceeded.

Configurable objects

The event can occur with the following objects:

- Tag

1.20 ESC pressed twice

Description

Occurs when the <ESC> key is pressed twice at the HMI device.

Configurable objects

The event can occur with the following objects:

- Softkey (ESC)

1.21 Acknowledge

Description

Occurs when the user acknowledges an alarm.

Configurable objects

The event can occur with the following objects:

- Alarm

1.22 Reach margin

Description

Occurs when the user reaches the beginning or the end of a scrollable area.

Configurable objects

The event can only be configured on the keys <Up> and <Down>, or on the keys on which the system functions "ScreenObjectUp" or "ScreenObjectDown" were configured.

1.23 Runtime Stop

Description

Occurs when the user exits the runtime software on the HMI device.

Configurable objects

The event can occur with the following objects:

- Scheduler

Note

Execute scripts at shutdown

If a script is configured for the "Runtime stop" event, only those functions may be used in the script which are specified as configurable objects in the reference of the "Runtime stop".

Ensure that the ending of the runtime is not interfered with by the execution of the script.

1.24 Overflow

Description

Occurs when the configured size of the archive is reached. The archive must have been created with the archive tag "Trigger event."

Configurable objects

The event can occur with the following objects:

- Logs

1.25 Toggle

Description

Occurs when the user toggles a switch (for example from "ON" to "OFF").

Configurable objects

The event can occur with the following objects:

- Switch

1.26 Lower limit violated

Description

Occurs when the lower limit of a tag is violated.

Configurable objects

The event can occur with the following objects:

- Tag

1.27 Little available memory

Description

Occurs when less memory is available than the configured minimum amount on the storage medium on which an Audit Trail is saved.

Configurable objects

The event can occur with the following objects:

- Audit Trail

1.28 Little available memory, critical

Description

Occurs when, on account of hardware, too little memory is available on the storage medium on which an Audit Trail is saved.

Configurable objects

The event can occur with the following objects:

- Audit Trail

1.29 Value change

Description

Occurs when the status of an object changes.

The value change of a tag can be triggered by the PLC or by the user, e.g. when a new value is entered.

Configurable objects

The event can occur with the following objects:

- Tag

1.30 Time expired

Description

Occurs when the time configured in the scheduler expires.

Configurable objects

The event can occur with the following objects:

- Scheduler

System functions

2.1 System functions from A to Z

Introduction

The following tables show the available system functions arranged according to groups. In WinCC flexible, the following name conventions apply to system functions: System functions which begin with a verb, e.g. "Start" or "Activate," can be used in scripts.

- System functions which begin with "Get," read a value, e.g. from a tag.
- System functions which begin with "Set" or "Write," write a value, e.g. to a tag.
- System functions that begin with the name of an ActiveX Control, for example HTMLBrowser, cannot be used in scripts.

Using system functions in scripts

Please use the English name of the system function in scripts. If the system function in question is allowed in a script, the English name of the system function is also found, e.g.:

GetPassword (tag)

Usable in the script: Yes (GetPassword)

System function names in ProTool and WinCC flexible

For a better overview, the system functions of WinCC flexible are compared to the old ProTool event label. A "--" means that the system function is new.

Logs

ProTool V6.0	WinCC flexible
Copy log	CopyLog
Clear log	ClearLog
Open logs	OpenAllLogs
Close logs	CloseAllLogs
Start log	StartLogging
Stop log	StopLogging
Start sequential log	StartSequenceLog
Logging tags	LogTag
--	SecureLogfile

Calculation

ProTool V6.0	WinCC flexible
Convert linear 1	LinearScaling
Convert linear 2	InvertLinearScaling
Value minus	DecreaseValue
--	DecreaseFocusedValue
Value plus	IncreaseValue
--	IncreaseFocusedValue
Set value	SetValue

User Administration

ProTool V6.0	WinCC flexible
User logoff	Logoff
User logon	Logon
Write user name in tags	GetUserName
Export/import passwords	ExportImportUserAdministration
Report change of password	TraceUserChange
Write password level in tags	GetGroupNumber
--	ShowLogonDialog
--	RecordUser

Screens

ProTool V6.0	WinCC flexible
Fixed screen selection	ActivateScreen
Variable screen selection	ActivateScreenByNumber
Screen selection previous	ActivatePreviousScreen
--	ActivateFirstChildScreen
--	ActivateLeftScreen
--	ActivateRightScreen
--	ActivateRootScreen
--	ActivateParentScreen

Bit processing

ProTool V6.0	WinCC flexible
Reset bit	ResetBit
Reset bit in tag	ResetBitInTag
Set bit	SetBit
Set bit while key pressed	SetBitWhileKeyPressed
Set bit in tag	SetBitInTag

Diagnostics

ProTool V6.0	WinCC flexible
Read S7 diagnostics buffer	GetS7DiagnosisBuffer

Print

ProTool V6.0	WinCC flexible
Print screen	PrintScreen
Print report	PrintReport

Settings

ProTool V6.0	WinCC flexible
Changing the operating mode	SetDeviceMode
Use screen keyboard On/Off	SetScreenKeyboardMode
Toggle window display	SetDisplayMode
Change language	SetLanguage
Connect/disconnect PLC	ChangeConnection
--	SetWebAccess

Alarms

ProTool V6.0	WinCC flexible
Display events alarm window	ShowAlarmWindow
Display event buffer window	ShowAlarmWindow
Display event message page	ShowAlarmWindow
Alarm report On/Off	SetAlarmReportMode
Delete alarm buffer	ClearAlarmBuffer
Edit alarm	EditAlarm
Acknowledge alarm	AcknowledgeAlarm
Display error alarm buffer	ShowAlarmWindow
Display alarm page	ShowAlarmWindow
Display system message text	ShowSystemAlarm

Recipes

ProTool V6.0	WinCC flexible
DAT data record to PLC	SetDataRecordToPLC
Load data record	LoadDataRecord
Delete record	DeleteDataRecord

ProTool V6.0	WinCC flexible
Save data record	SaveDataRecord
PLC record to DAT	GetDataRecordFromPLC
PLC data record to tags	GetDataRecordTagsFromPLC
Data record tags to PLC	SetDataRecordTagsToPLC
Export data records	ExportDataRecords
Import data records	ImportDataRecords
Convert data record number into name	GetDataRecordName
Delete data record memory	DeleteDataRecordMemory
Recipe tags online/offline	SetRecipeTags

System

ProTool V6.0	WinCC flexible
Start screen keyboard	OpenScreenKeyboard
Start command entry	OpenCommandPrompt
Start control panel	OpenControlPanel
Adjust contrast	AdjustContrast
Cleaning screen	ActivateCleanScreen
Backup RAM file system	BackupRAMFileSystem
Signal tone	SetAcousticSignal
Expand task manager	OpenTaskManager
Touch calibration	CalibrateTouchScreen

Keyboard

ProTool V6.0	WinCC flexible
Start screen keyboard	OpenScreenKeyboard
Start command entry	OpenCommandPrompt
Start control panel	OpenControlPanel
Adjust contrast	AdjustContrast
Cleaning screen	ActivateCleanScreen
Backup RAM file system	BackupRAMFileSystem
Signal tone	SetAcousticSignal
Expand task manager	OpenTaskManager
Touch calibration	CalibrateTouchScreen
--	SideDown
--	SideUp
--	SimulateSystemkey

Hotkey for screen objects

ProTool V6.0	WinCC flexible
Record display to PLC	RecipeViewSetDataRecordToPLC
Save record from display	RecipeViewSaveDataRecord
Save record from display as	RecipeViewSaveAsDataRecord
Synchronize record in display	RecipeViewSynchronizeDataRecordWithTags
Delete record	RecipeViewDeleteDataRecord
New record	RecipeViewNewDataRecord
PLC record to display	RecipeViewGetDataRecordFromPLC
--	RecipeViewMenu
--	RecipeViewOpen
--	RecipeViewRenameDataRecord
--	RecipeViewShowInfoText
--	RecipeViewBack
Stretch trend view horizontally	TrendViewExtend
Compress trend view horizontally	TrendViewCompress
Trend view read line On/Off	TrendViewSetRulerMode
Trend view read line backwards	TrendViewRulerBackward
Trend view read line forwards	TrendViewRulerForward
Trend view scroll forward	TrendViewScrollForward
Trend view scroll back	TrendViewScrollBack
Trend view back to beginning	TrendViewBackToBeginning
Start/stop trend log	TrendViewStartStop
Alarm view acknowledge alarm	AlarmViewAcknowledgeAlarm
Alarm view edit alarm	AlarmViewEditAlarm
Display alarm screen help text	AlarmViewShowOperatorNotes
--	SmartClientViewRefresh
--	SmartClientViewReadOnlyOn
--	SmartClientViewDisconnect
--	SmartClientViewConnect
	SmartClientViewLeave
Status/Control: Reading values	StatusForceGetValues
Status/Control: Writing values	StatusForceSetValues
--	ScreenObjectCursorDown
--	ScreenObjectCursorUp
--	ScreenObjectPageDown
--	ScreenObjectPageUp

Other functions

ProTool V6.0	WinCC flexible
Animate	SimulateTag
Start program	StartProgram
Stop runtime	StopRuntime
Display software versions	ShowSoftwareVersion
--	SendEmail
--	SeperateVariableFromHandwheel
--	ConnectVariableWithHandwheel

2.2 Logoff

Application

Logs off the current user on the HMI device

Syntax

Logoff

Usable in the script: yes (Logoff)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177 B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x

HMI device	configurable
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.3 AdjustContrast

Application

Changes the contrast of the display one level on the HMI device

Syntax

AdjustContrast (change)

Usable in the script: yes (AdjustContrast)

Parameter

Change

Determines how the contrast is changed:

0 (hmiDecrease) = Decrease: Decreases the contrast one level.

1 (hmiIncrease) = Increase: Increases the contrast one level.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

One button each for increasing and decreasing the screen contrast is desired.

Information for configuring

Two buttons are configured and the system function "AdjustContrast" is configured on the "Press" event. The parameters "Increase" and "Decrease" are allocated.

Procedure on HMI device

When one of the two buttons is pressed in runtime, the contrast is increased or decreased one level.

2.4 ActivateScreen

Application

Performs a screen change to the given screen.

Use the system function "ActivateScreenByNumber" to change from the root screen to the permanent window or vice versa.

Syntax

ActivateScreen (screen name, object number)

Usable in the script: yes (ActivateScreen)

Parameter

Screen name

Name of the screen to which you want to change.

Object number

The operator control element which receives the focus in the given screen after the screen change. The number of the operator control element is to be determined using the tabulator sequence during configuration.

When "0" is specified:

If the focus is in the permanent window when the system function is called up, the permanent window maintains the focus.

If the focus is in the root screen when the system function is called up, the first operator control element in the given screen receives the focus.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	X
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x

HMI device	configurable
Mobile Panel 177 DP	X
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Error alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired User change Alarm buffer overflow

2.5 ActivateScreenByNumber

Application

Performs a screen change to a screen depending on a tag value.

The screen is identified by its screen number.

Syntax

ActivateScreenByNumber (screen number, object number)

Usable in the script: yes (ActivateScreenByNumber)

Parameter

Screen number

Tag which contains the screen number to which should be changed.

When a change from the root screen to the permanent window is desired, "0" or "-1" is specified:

0 = Change from root screen to permanent window

-1 = Change from permanent window to root screen

Object number

The number of the screen object which receives the focus in the given screen after the screen change. The number of the operator control element is to be determined using the tabulator sequence during configuration.

When "0" is specified:

- If the focus is in the permanent window when the system function is called up, the permanent window maintains the focus.
- If the focus is in the root screen when the system function is called up, the first operator control element in the given screen receives the focus.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x

HMI device	configurable
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Error alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

Object	Event
Scheduler	Time expired User change Alarm buffer overflow

2.6 ActivateFirstChildScreen

Application

Performs a screen change to the screen which is at the far left at the child hierarchy level. The screen change is not performed if the active screen does not own any child screens.

Note

If you want to use the function, a navigation structure must have been configured in the "Screen navigation" editor.

Syntax

ActivateFirstChildScreen

Usable in the script: yes (ActivateFirstChildScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
TP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
TP 177B DP	x
TP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.7 ActivateLeftScreen

Application

Performs a screen change to the screen which is to the left of the active screen at the same hierarchy level.

No screen change takes place if there is no other screen to the left of the current screen.

Note

A navigation structure must have been configured in the "Screen navigation" editor.

Syntax

ActivateLeftScreen

Usable in the script: yes (ActivateLeftScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x

HMI device	configurable
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.8 ActivateCleanScreen

Application

Activates the clean screen on the HMI device. The display of the HMI device is disabled for the given period of time.

When the display of the HMI device is deactivated, it can be cleaned without triggering touch functions by mistake.

Syntax

ActivateCleanScreen

Usable in the script: No

Parameter

Period

Period for which the display is disabled. The time remaining is displayed as a progress bar.
Value range in seconds from 10 through 300.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
TP 270	x
MP 270B Touch	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.9 ActivateRightScreen

Application

Performs a screen change to the screen which is to the right of the active screen at the same hierarchy level.

No screen change takes place if there is no other screen to the right of the current screen.

Note

A navigation structure must have been configured in the "Screen navigation" editor.

Syntax

ActivateRightScreen

Usable in the script: yes (ActivateRightScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 170B	x
TP 177B DP	
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.10 ActivateRootScreen

Application

Performs a screen change to the screen which is defined as the start screen.
If the screen displayed is the root screen, a screen change will not take place.

Note

A navigation structure must have been configured in the "Screen navigation" editor.

Syntax

ActivateRootScreen
Usable in the script: yes (ActivateRootScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x

HMI device	configurable
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.11 ActivateParentScreen

Application

Performs a screen change to the parent screen of the active screen. The screen change is not performed if the active screen does not own any child screens.

Note

If you want to use the function, a navigation structure must have been configured in the "Screen navigation" editor.

Syntax

ActivateParentScreen

Usable in the script: yes (ActivateParentScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.12 ActivatePreviousScreen

Application

Performs a screen change to the screen which was activated before the current screen. The screen change is not performed if no screen was activated beforehand.

The last 10 screens that were called up are saved. A system message is output when you change to a screen which is no longer saved.

Note

If you want to use the function, the screen change has to be used in the navigation structure.

Syntax

ActivatePreviousScreen

Usable in the script: yes (ActivatePreviousScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.13 UpdateTag

Application

Reads the current value of the tag with the specified update identifier from the controller. .

Syntax

UpdateTag (update identifier)

Usable in the script: No

Parameter

Update identifier

Update identifier assigned to the tag that will be updated.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x

HMI device	configurable
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change
Function key (global)	Press Release
Function key (local)	Press Release
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.14 Logon

Application

Logs on the current user on the HMI device

Syntax

LogOn(Password, User name)

Usable in the script: yes (Logon)

Parameter**Password**

The tag from which the password for the user logging on is read.

User name

The tag from which the user name for the user logging on is read.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press

Object	Event
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.15 ArchiveLogFile

Application

This function moves or copies a log to another storage location for long-term archiving.

With audit trails always use the mode "Move log (hmiMove)", otherwise you'll be violating the FDA guideline with double data management.

Prior to this system function always execute the function "CloseAllLogs".

Syntax

ArchiveLogFile (Log type, Log, Path, Mode)

Usable in the script: : yes (ArchiveLogFile)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

2 (hmiAudittrailArchive) = Audit-Trail log

Log

Name of the log that is logged long-term.

Path

Path where the Audit-Trail log should be saved

Mode

0 (hmiCopy) = Copy log

1 (hmiMove) = Move log

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Audit Trail	Little available memory Little available memory, critical
Alarm log	Overflow

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Target

You want to move the audit trail from the local storage medium to the server so as to free up memory.

Information for configuring

At the event "Little available memory, critical" configure the following function list in the audit rail:

The screenshot shows the 'Audit Trail' configuration window. The 'Name' field is 'Audit-Trail_MixingStation'. The 'Storage' section shows 'Storage location' as 'File' and 'Path' as 'bt\SpeicherStaebchen\Storage Card2'. The 'Log activation' section has 'Enable logging at runtime start' checked. The 'Forcing' section has 'Allowed if storage space has been exhausted' checked and 'Signing may be bypassed' unchecked. The 'Function list' section shows a list of functions: 1. CloseAllLogs, 2. ArchiveLogFile (selected), 3. OpenAllLogs, and 4. <No function>. The 'ArchiveLogFile' function is configured with 'Log type' as 'Audit trail log', 'Log' as 'Audit-Trail_MixingStation', 'Directory name' as '\\ArchivServer\AuditTrail', and 'Mode' as 'Move'.

Name	Value
Name	Audit-Trail_MixingStation
Storage location	File
Path	bt\SpeicherStaebchen\Storage Card2
Low free storage space limit	64,0 MB
Log activation	<input checked="" type="checkbox"/> Enable logging at runtime start
Forcing	<input checked="" type="checkbox"/> Allowed if storage space has been exhausted. <input type="checkbox"/> Signing may be bypassed
Function list	<ol style="list-style-type: none"> CloseAllLogs ArchiveLogFile <ul style="list-style-type: none"> Log type: Audit trail log Log: Audit-Trail_MixingStation Directory name: \\ArchivServer\AuditTrail Mode: Move OpenAllLogs <No function>

Procedure on HMI device

- All log files will be closed.
- The Audit Trail file will be time-stamped and renamed. Next, the Audit Trail file will be moved to the server.
- All closed log files will be opened again.

2.16 LogTag**Application**

Saves the value of the given tags in the given data log.

This system function is used to archive a process value at a certain point in time.

Syntax

LogTag (tag)

Usable in the script: No

Parameter**Tag**

The tag whose value is logged. The tag is stored in the archive which is configured for the specified variable.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.17 EditAlarm

Application

Triggers the "Edit" event for all selected alarms.

If the alarms to be edited have not yet been acknowledged, the acknowledgment takes place automatically when this system function is called up.

Syntax

EditAlarm

Usable in the script: yes (EditAlarm)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.18 ScreenObjectCursorDown

Application

Performs the key function <Down> in the given screen object.

This system function is used when the integrated buttons of the screen object should not be used. The system function can be used for the following screen objects:

- User view
- Alarm view
- Recipes view

Syntax

ScreenObjectCursorDown (screen object)

Usable in the script: No

Parameter

Screen object

Name of the screen object in which the key function is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Figure	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.19 ScreenObjectCursorUp

Application

Performs the key function <Up> in the given screen object.

This system function is used when the integrated buttons of the screen object should not be used. The system function can be used for the following screen objects:

- User view
- Alarm view
- Recipes view

Syntax

ScreenObjectCursorUp (screen object)

Usable in the script: No

Parameter

Screen object

Name of the screen object in which the key function is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Figure	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.20 ScreenObjectPageDown

Application

Performs the key function <Down> in the given screen object.

This system function is used when the integrated buttons of the screen object should not be used. The system function can be used for the following screen objects:

- User view
- Alarm view
- Recipes view

Syntax

ScreenObjectPageDown (screen object)

Usable in the script: No

Parameter

Screen object

Name of the screen object in which the key function is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Figure	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.21 ScreenObjectPageUp

Application

Performs the key function <Up> in the given screen object.

This system function is used when the integrated buttons of the screen object should not be used. The system function can be used for the following screen objects:

- User view
- Alarm view
- Recipes view

Syntax

ScreenObjectPageUp (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the screen object in which the key function is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Figure	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.22 Direct key

Application

Allows rapid operation of keys on an HMI device without having communication caused delays occur.

This system function is used to set bits in the IO area of a SIMATIC S7 directly from the HMI device.

Note

If you have integrated WinCC flexible in SIMATIC STEP 7 and have configured a DP area in SIMATIC STEP 7: When the button on which the system function was configured is activated, a bit is set in the IO area of the CPU. Releasing the button resets the bit.

Information for configuring the system function

When a button is configured with the system function "DirectKey", a fixed area of the touch display is reserved for the DirectKey operation.

Screen objects which are over the button with the system function "DirectKey" in this area in runtime cover the button visually. However, the screen objects do not interfere with the triggering of the system function "DirectKey."



Warning

Triggering the system function "DirectKey" by mistake leads to the endangerment of persons or damage to the machine.

In order to avoid this danger, the following must be observed:

- When configuring the process screen, the button with the system function "DirectKey" must not be covered by a screen object.
- The dynamic positioning or display (release) of a screen object dependent on process values must not lead to a covering of the button with the system function "DirectKey" in runtime.

Note

Please observe this guideline during configuration. Check also existing configurations and adjust them immediately.

In the following cases, the covering of a button with the system function "DirectKey" does not lead to the problems named above:

- Operation of the alarm window
- Operation of the Recipe view
- Cancellation of the screen saver
- Use of the screen keyboard

- Use of an external application, e.g. Internet Explorer
- Executing the system function "ActivateCleanScreen"

Actions of DP direct-keys in offline operation.

When the system function "ChangeConnection" is performed with the parameter "offline" on the HMI device, the connection to the given control is disconnected.

Notice

Please note the following on the SIMATIC STEP 7 page as well as the WinCC page:

The DP direct-keys are still active in this case. If you activate a button with the "DirectKey" system function in "offline" mode or activate the direct key on a key device, the corresponding bit is set in the controller.

Syntax

DirectKey (bit)

Usable in the script: No

Parameter

Bit

Determines the bit which is set. Depending on the HMI device, the bit numbers 0 to 31 or 0 to 39 are possible.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
MP 270B Touch	x
MP 370 Touch	x

Configurable objects

Object	Event
Button	Press

Application example

Objective

You want to set bits in the IO area of a SIMATIC S7 directly from the HMI device using a button.

Requirements

WinCC flexible integrated in SIMATIC STEP 7 is installed.

During operation, the HMI device is coupled to a SIMATIC S7 through PROFIBUS DP.

At the time of the compilation of the project, WinCC flexible integrated was installed.

The bit area for direct keys is determined in SIMATIC STEP 7. For configuration see the "Communication" user's manual.

Information for configuring

Configure the button to be used as the direct key. Assign the system function "DirectKey" to the button. As a parameter, give the number of the bit which is to be set when the key is pressed.

Procedure on HMI device

When the direct key is touched, the bit is set, and reset when the key is released or the screen is exited.

2.23 PrintScreen

Application

Prints the screen currently being displayed on the HMI device from the printer which is connected to the HMI device.

Opened windows are also printed.

Note

The printer settings are taken over from the current settings in the Windows operation system.

Syntax

PrintScreen

Usable in the script: yes (PrintScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.24 PrintReport

Application

Prints the given report from the printer which is connected to the HMI device.

Note

The report is printed in the language which is set on the HMI device.

Syntax

PrintReport (report name)

Usable in the script: yes (PrintReport)

Parameter

Report name

Name of the report to be printed.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Alarm buffer overflow

2.25 RecordUserAction

Application

This system function is used to log user actions that are not automatically logged in the audit trail. You can also use this system function to require the user to enter an acknowledgment or an electronic signature and a comment for the operator action.

Syntax

NotifyUserAction (type of confirmation, comment required, object name, description)

Usable in the script: yes (NotifyUserAction)

Parameter**Type of confirmation**

Establishes how the action must be confirmed

0 = (None): No confirmation required, an entry is created in the audit trail

1 = (Acknowledgement): Acknowledgement, the user must acknowledge the action; an entry is created in the audit trail

2 = (Digital Signature): electronic signature, a dialog window opens in which the user must enter his electronic signature - an entry is created in the audit trail

Comment required

Establishes if one of the users must enter a comment. The comment is logged in the audit trail.

0 = (True): True; a dialog window opens in which the user must enter a comment

1 = (False): False; no comment required

Category

Category or class name of the modified object

Object name

Name of the modified object

Description

Text which describes the archiving user action

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow

2.26 IncreaseFocusedValue

Application

Adds the given value to the value of the tag which is connected to the input field (drop-down list, graphic selection list, slider bar) which has the current focus.

Syntax

IncreaseFocusedValue (value)

Usable in the script: yes (IncreaseFocusedValue)

Parameter

Value

The value which is added to the tag value.

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Scheduler	Time expired

2.27 IncreaseValue

Application

Adds the given value to the value of the tags.

$$X = X + a$$

Note

The system function uses the same tag as input and output values. When this system function is used to convert a value, help tags must be used. The tag value can be assigned to the help tags with the function "SetValue."

Syntax

IncreaseValue (tag, value)

Usable in the script: yes (IncreaseValue)

Parameter

Tag

The tag to which the given value is added.

Value

The value which is added.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x

HMI device	configurable
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

Object	Event
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.28 ExportDataRecords

Application

Exports one or all data records of a recipe to a CSV file.

One file is created per recipe. When only one path for the export is specified, the filename is automatically created from the respective recipe name.

Syntax

ExportDataRecords (recipe number/name, record number/name, file name, overwrite, output status message, processing status)

Usable in the script: yes (ExportDataRecords)

Parameter

Recipe number/name

Number or name of the recipe from which the data records are exported. Indicate "0" if recipe data records are to be exported from all available recipes.

Data record number/name

Number or name of the recipe data record to be exported. Indicate "0" if all recipe data records are to be exported.

File name

Name of the CSV file to which the recipe data records are exported. Also indicate the file location and the file ending (*.CSV), e.g. "C:\TEMP\Orange.CSV."

Note

If a storage card is used as file location, then indicate the file location as follows:
"\StorageCard\<File name>."

Overwrite

Determines whether an existing CSV file with the same name is overwritten:

0 (hmiOverwriteForbidden) = No: CSV file will not be overwritten. The export process will not be carried out.

1 (hmiOverwriteAlways) = Yes: CSV file is overwritten without a prompt for confirmation.

2 (hmiOverwriteWithPrompting) = After confirmation: CSV file is not overwritten until confirmed.

Output status message

Determines whether a status message is output after the export:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

You want to export all data records using a key.

Information for configuring

Configure the system function "ExportDataRecords" on the "Print" event of the desired key.
Transfer the following parameter:

Recipe number/name = 1

Data record number/name = 0

File name = c:\temp\orange.csv

Overwrite = 1

Output status report = 1

Tags can also be specified in place of the constants. Depending on the configuration, the operator can enter the desired values in the IO field or read from the PLC. In this way, the operator can determine which recipe data records are exported.

Procedure on HMI device

As soon as the key is activated, the system function is triggered. The constants or tags are evaluated. All data records of the Recipe 1 are exported to the file orange.csv. If the file already exists, it will be overwritten.

After exporting the data records, a system message is output.

2.29 ExportImportUserAdministration

Application

Exports all users of the user administration of the currently active project to the given file or imports the users from the given file into the currently active project.

Users, their passwords and rights are saved in the user administration.

All users are overwritten when importing. The imported users are valid immediately.

Syntax

ExportImportUserAdministration (file name, direction)

Usable in the script: yes (ExportImportUserAdministration)

Parameter

File name

Name of the file which contains the passwords or to which the passwords are written. Also indicate the file location and the file ending (*.TXT), e.g. "C:\TEMP\Passwords.TXT."

Note

If a storage card is used as file location, then indicate the file location as follows:
"\\StorageCard\<File name>."

Direction

Determines whether passwords are exported or imported:

0 (hmiExport) = Export: Passwords are exported.

1 (hmiImport) = Import: Passwords are imported.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Figure	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.30 GoToHome

Application

Performs the key function <Pos1> on the HMI device:

This system function is used when the HMI device does not have this functionality as default.

Syntax

GoToHome

Usable in the script: yes (GoToHome)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Scheduler	Time expired

2.31 GoToEnd

Application

Performs the key function <End> on the HMI device:

This system function is used when the HMI device does not have this functionality as default.

Syntax

GoToEnd

Usable in the script: yes (GoToEnd)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Scheduler	Time expired

2.32 HTMLBrowserStop

Application

Performs the function "Stop" the HTML browser.

Syntax

HTMLBrowserStop (screen object)

Usable in the script: No

Parameter

Screen object

Object name of the HTML browser in which the command is performed.

Configurable HMI devices

HMI device	configurable
PC/	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.33 HTMLBrowserRefresh

Application

Performs the function "Refresh" of the HTML browser.

Syntax

HTMLBrowserRefresh (screen object)

Usable in the script: No

Parameter

Screen object

Object name of the HTML browser in which the command is performed.

Configurable HMI devices

HMI device	configurable
PC/	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.34 HTMLBrowserForward

Application

Performs the function "Forward" of the HTML browser.

Syntax

HTMLBrowserForward (screen object)

Usable in the script: No

Parameter

Screen object

Object name of the HTML browser in which the command is performed.

Configurable HMI devices

HMI device	configurable
PC/	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.35 HTMLBrowserBack

Application

Performs the "Back" function of the HTML browser.

Syntax

HTMLBrowserBack ()
Usable in the script: No

Parameter

Screen object

Object name of the HTML browser in which the command is performed.

Configurable HMI devices

HMI device	configurable
PC/	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.36 InvertBit

Application

Inverts the value of the given tag of the "Bool" type:

- If the tag has the value of 1 (TRUE), it will be set to 0 (FALSE).
- If the tag has the value of 0 (FALSE), it will be set to 1 (TRUE).

Syntax

InvertBit (tag)

Usable in the script: yes (InvertBit)

Parameter

Tag

The tag whose bit is set.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Error alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.37 InvertBitInTag

Application

Inverts a bit in the given tag:

- If the bit in the tag has the value of 1 (TRUE), it will be set to 0 (FALSE).
- If the bit in the tag has the value of 0 (FALSE), it will be set to 1 (TRUE).

After changing the given bit, the system function transfers the entire tag back to the PLC. It is not checked whether in the meantime, other bits in the tag have changed. Operator and PLC may only read the tag until it is transferred back to the PLC.

Note

If the PLC supports BOOL tags, do not use this system function. Use the "InvertBit" system function instead.

Syntax

InvertBitInTag (tag, bit)

Usable in the script: yes (InvertBitInTag)

Parameter

Tag

The tag in which the given bit is set.

Bit

The number of the bit that is set.

When this system function is used in a script, the bits in a tag are counted from right to left. The counting begins with 0.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

Object	Event
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.38 ImportDataRecords

Application

Imports one or all data records of a recipe from a CSV file.

When a path is specified, all records of the given directory are imported.

Syntax

ImportDataRecords (file name, data record number/name, overwrite, output status message, processing status)

Usable in the script: yes (ImportDataRecords)

Parameter

File name

Name of the CSV file from which the recipe data records are imported. Also indicate the file location and the file ending (*.CSV), e.g. "C:\TEMP\Orange.CSV."

Note

If a storage card is used as file location, then indicate the file location as follows:
"\StorageCard\<File name>."

Data record number/name

Number or name of the recipe data record to be imported. Indicate "0" if all recipe data records are to be imported.

Overwrite

Determines whether existing recipe data records are to be overwritten:

0 (hmiOverwriteForbidden) = No: Recipe data records are not overwritten. The import process will not be carried out.

1 (hmiOverwriteAlways) = Yes: Recipe data records are overwritten without prompting.

2 (hmiOverwriteWithPrompting) = After confirmation: Recipe data records are not overwritten until confirmed.

Output status message

Determines whether a status message is output after the import:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press

Object	Event
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.39 InvertLinearScaling

Application

Assigns a value to the tag X, which is calculated from the value of the given tag Y using the linear function $X = (Y - b) / a$.

The tags X and Y must not be identical. This system function is the reverse function of the system function "LinearScaling."

Note

The tags X and Y must not be identical. If a tag is to be converted into itself, a help tag must be used.

The system function "SetValue" can be used to assign the value of the tags to be converted to the help tags.

Syntax

Invert LinearScaling (X, Y, b, a)

Usable in the script: yes (InverseLinearScaling)

Parameter

X

The tag which is assigned the value calculated from the linear equation.

Y

The tag whose value is used for the calculation.

b

The value which is subtracted.

a

The value through which is divided.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Runtime Stop

2.40 CalibrateTouchScreen

Application

Calls up a program for calibrating the touch screen.

During the calibration process, there is a prompt to touch five positions on the screen display. Touch the screen display within 30 seconds, to confirm the calibration process. If the calibration is not completed within this time span, the calibration settings are discarded. The user prompt is in English.

Use this system function the first time you start the HMI device.

Syntax

CalibrateTouchScreen

Usable in the script: yes (CalibrateTouchScreen)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
MP 270B Touch	x
MP 370 Touch	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.41 CopyLog

Application

Copies the contents of a log to another log.

Note

Process data can only be copied into other data logs. Alarms can only be copied into other alarm logs.

Syntax

CopyLog (log type, target log, source log, mode, delete source log)

Usable in the script: Yes (CopyLog)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

Target log

Name of the log into which the entries are copied (Target log).

Source log

Name of the log from which the entries are copied (Source log).

Mode

Determines what is done with copied entries in the target log:

0 (hmiOverwrite) = Overwrite: Existing entries are overwritten.

1 (hmiAbortIfNotEmpty) = Empty: The entries are copied only if the target log does not yet have any entries.

2 (hmiAppend) = Add: The entries are inserted at the end of the target log. When the configured size of the log has been reached, the target log is treated like a circulating log.

Delete source log

Determines whether the source log is deleted after copying.

0 (hmiNo) = No: Is not deleted.

1 (hmiYes) = Yes: Is deleted.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Runtime Stop

2.42 TrendViewScrollForward

Application

Scrolls forward one display width in the Trend view.

Syntax

TrendViewScrollForward (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which is scrolled forward.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.43 TrendViewScrollBack

Application

Scrolls back one display width to the left in the trend view.

Syntax

TrendViewScrollBack (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the trend view in which is scrolled back.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.44 TrendViewExtend

Application

Reduces the period of time which is displayed in the trend view.

Syntax

TrendViewExtend (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which the displayed time period is reduced.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press

Object	Event
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.45 TrendViewCompress

Application

Increases the period of time which is displayed in the trend view.

Syntax

TrendViewCompress (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which the displayed time period is increased.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.46 TrendViewRulerForward

Application

Moves the read-line forwards (to the right) in the trend view.

Note

In order to be able to move the read-line, the read-line must have been switched on. This is done by using the system function "TrendViewSetRulerMode."

Syntax

TrendViewRulerForward (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the trend view in which the read-line is moved forward.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.47 TrendViewRulerBackward

Application

Moves the read-line backwards (to the left) in the trend view.

Note

In order to be able to move the read-line, the read-line must have been switched on. This is done by using the system function "TrendViewSetRulerMode."

Syntax

Trend view ruler previous (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which the read-line is moved backwards.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.48 TrendViewSetRulerMode

Application

Hides or shows the read-line in the trend view. The read-line displays the Y value belonging to the X value.

Syntax

TrendViewSetRulerMode (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the trend view in which the read-line is hidden or shown.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.49 TrendViewStartStop

Application

Stops the trend recording or continues the trend recording in the trend view.

Syntax

TrendViewStartStop (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which the recording of the trend is started or stopped.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.50 TrendViewBackToBeginning

Application

Scrolls back to the beginning of the trend recording in the trend view. The start values of the trend recording are displayed there.

Syntax

TrendViewBackToBeginning (screen object)

Usable in the script: No

Parameter

Screen object

Name of the trend view in which the displayed time period is increased.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.51 LoadDataRecord

Application

Loads the given recipe data record from the memory medium of the HMI device in the recipe tags.

This system function is used, for example, to display a recipe data record in the recipe screen.

Syntax

LoadDataRecord (recipe number/name, data record number/name, processing status)

Usable in the script: Yes (LoadDataRecord)

Parameter

Recipe number/name

Number or name of the recipe from which a recipe data record is loaded.

Data record number/name

Number or name of the recipe data record to be loaded.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.52 GetUserName

Application

Writes the user name of the user currently logged on to the HMI device in the given tag.

If the given tag has a control connection, the user name is also available in the PLC. This system function makes it possible, for example, to implement a user-dependent release of certain functionalities.

Syntax

GetUserName (tag)

Usable in the script: Yes (GetUserName)

Parameter

Tag

The tag to which the user name is written.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow

2.53 GetDataRecordFromPLC

Application

Transfers the given recipe data record from the PLC to the memory medium of the HMI device.

Syntax

ExportDataRecords (recipe number/name, record number/name, overwrite, output status message, processing status)

Usable in the script: Yes (GetDataRecordFromPLC)

Parameter**Recipe number/name**

Number or name of the recipe from which recipe data records are transferred.

Data record number/name

Number or name of the recipe data record which is transferred from the PLC to the data medium of the HMI device.

Overwrite

Determines whether an existing recipe data record with the same name is overwritten:

0 (hmiOverwriteForbidden) = No: Recipe data record is not overwritten. The transfer process will not be carried out.

1 (hmiOverwriteAlways) = Yes: Recipe data record is overwritten without prompting.

2 (hmiOverwriteWithPrompting) = After confirmation: Recipe data record is not overwritten until confirmed.

Output status message

Determines whether a status message is output after the transfer:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x

HMI device	configurable
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

You want to transfer a data record from the PLC to the data medium of the HMI device using a key.

Information for configuring

Configure the system function "GetDataRecordFromPLC" on the "Press" event of the desired key. Transfer the following parameter:

Recipe number/name = 1

Data record number/name = 1

Overwrite = 1

Output status report = 1

Tags can also be specified in place of the constants. Depending on the configuration, the operator can enter the desired values in the IO field or read from the PLC. In this way, the operator can determine which recipe data record is transferred from the control.

Procedure on HMI device

As soon as the key is activated, the system function is triggered. The constants or tags are evaluated and the first data record of Recipe 1 is transferred from the PLC to the data medium of the HMI device. If the recipe data record already exists, it will be overwritten.

A system message is output after the transfer.

2.54 GetDataRecordName

Application

Writes the name of the given recipe and recipe data record to the given tags.

Note

If the recipe or the recipe data record do not exist, wildcards ("###") are written to the tags.

Syntax

GetDataRecordName (recipe number or recipe name, data record number or data record name, processing status)

Usable in the script: Yes (GetDataRecordName)

Parameter

Recipe number

Number of the recipe whose name is written to the given tag.

Data record number

Number of the recipe data record whose name is written to the given tag.

Recipe name

The tag to which the recipe name is written. The tag must be of the STRING type.

Data record name

The tag to which the name of the recipe data record is written. The tag must be of the STRING type.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press

Object	Event
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

You want to output the names of the displayed recipes and the name of the displayed recipe data record on the HMI device.

Information for configuring

Configure the following tags:

- "Rec number" of the INTEGER type
- "Rec data number" of the INTEGER type
- "Rec name" of the STRING type
- "Rec data name" of the STRING type

Configure a recipe view with the tags "Rec number" for the recipe number and "Rec data number" for the data record number.

Configure the system function "GetDataRecordName" on the event "Press" of a button and transfer the following parameter:

- Recipe number Rec number
- Data record number Rec data number
- Recipe name Rec name
- Data record name Rec data name

Configure two output fields and connect these to the tags "Rec name" and "Rec data name."

Procedure on HMI device

Select a recipe and a report number from the recipe view. As soon as the button is activated, the system function is triggered and the name of the recipe and the recipe data record are displayed in both output fields.

2.55 GetDataRecordTagsFromPLC

Application

Transfers the values of the recipe data record, which is loaded in the PLC, to the recipe tag. This system function is used, for example, during teach-in operations on a machine.

Syntax

GetDataRecordTagsFromPLC (Recipe number/name, processing status)

Usable in the script: Yes (Get record tags from PLC)

Parameter

Recipe number/name

Number or name of the recipe data record whose values are written from the PLC to the tags.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x

HMI device	configurable
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.56 GetGroupNumber

Application

Reads the number of the group to which the user logged on to the HMI device belongs, and writes it to the given tag.

Syntax

GetGroupNumber (tag)

Usable in the script: Yes (GetGroupNumber)

Parameter

Tag

The tag to which the number of the group is written.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired User change

2.57 GetPassword

Application

Writes the password of the user currently logged on to the HMI device in the given tag.

Note

Make sure that the value of the given tag is not displayed in another place in the project.

Syntax

GetPassword (tag)

Usable in the script: Yes (GetPassword)

Parameter

Tag

The tag to which the password is written.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired User change

2.58 LinearScaling

Application

Assigns a value to the tag Y, which is calculated from the value of the given tag X using the linear function $Y = (a * X) + b$.

The reverse function is the system function "InvertLinearScaling."

Note

The tags X and Y must not be identical. If a tag is to be converted into itself, a help tag must be used.

The system function "SetValue" can be used to assign the value of the tags to be converted to the help tags.

Syntax

LinearScaling (Y, X, a, b)

Usable in the script: yes (LinearScaling)

Parameter

Y

The tag which is assigned the value calculated from the linear equation.

X

The tag whose value is used for the calculation.

a

The value with which is multiplied.

b

The value which is added.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Screen	Loaded
	Cleared
Screen object	Press
	Release
	Click
	Change (or toggle for switch)
	Switch on
	Switch off
	Enable
	Deactivate
Scheduler	Time expired

2.59 ClearLog

Application

Deletes all data records in the given log.

Syntax

ClearLog (log type, log)

Usable in the script: yes (ClearLog)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

Log

Name of the log from which all entries are deleted.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Runtime Stop

2.60 DeleteDataRecord

Application

Deletes a recipe data record.

Several data records can be deleted from one or more recipes.

Syntax

DeleteDataRecord (recipe number/name, record number/name, confirmation, output status message, processing status)

Usable in the script: yes (DeleteDataRecord)

Parameter

Recipe number/name

Number or name of the recipe from which recipe data records are deleted. "0" is specified if you want to delete recipe data records from all available recipes.

Data record number/name

Number or name of the recipe data record to be deleted. "0" is specified if you want to delete all recipe data records.

Confirmation

Determines whether the operator should confirm the deletion:

0 (hmiOff) = Off: Deletion is begun without confirmation.

1 (hmiOn) = On: The starting of the deletion process must be confirmed.

Output status message

Determines whether a status report is output after the deletion:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.61 DeleteDataRecordMemory

Application

Deletes all recipes and recipe data records from the specified storage medium.

Syntax

DeleteDataRecordMemory (storage medium, confirmation, output status message, processing status)

Usable in the script: yes (DeleteDataRecordMemory)

Parameter

Memory location

Determines the memory location:

0 (hmiFlashMemory) = Flash memory: Internal flash memory of the HMI device

1 (hmiStorageCard) = Storage Card

2 (hmiStorageCard2) = Storage Card 2

3 (hmiStorageCard3) = Storage card MultiMediaCard

Confirmation

Determines whether the operator should confirm the deletion:

0 (hmiOff) = Off: Deletion is begun without confirmation.

1 (hmiOn) = On: The starting of the deletion process must be confirmed.

Output status message

Determines whether a status report is output after the deletion:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.62 ClearAlarmBuffer

Application

Deletes alarms from the alarm buffer on the HMI device.

Note

Alarms which have not yet been acknowledged are also deleted.

Syntax

ClearAlarmBuffer (Buffer type)

Usable in the script: yes (ClearMessageBuffer)

Parameter

Buffer type

Determines which alarms are to be deleted from the alarm buffer:

0 (hmiAll) = All alarms

1 (hmiAlarms) = Alarms

2 (hmiEvents) = Status messages

3 (hmiSystem) = System events

4 (hmiS7Diagnosis) = S7 Diagnostic events

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x

HMI device	configurable
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Alarm buffer overflow

2.63 ClearAlarmBufferProTool

Application

The system function exists to ensure compatibility.

It has the same functionality as the system function "ClearAlarmBuffer", but uses the old ProTool numbering.

Syntax

ClearAlarmBufferProTool (number of the alarm class)

Usable in the script: yes (ClearAlarmBufferProtoolLegacy)

Parameter

Number of the alarm class

Number of the alarm class whose messages are to be deleted:

-1 (hmiAllProtoolLegacy) = All alarms

0 (hmiAlarmsProtoolLegacy) = Fault alarms

1 (hmiEventsProtoolLegacy) = Operation alarms

2 (hmiSystemProtoolLegacy) = System alarms

3 (hmiS7DiagnosisProtoolLegacy) = S7 Diagnostic events

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x

HMI device	configurable
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Alarm buffer overflow

2.64 AlarmViewEditAlarm

Application

Triggers the event "Edit" for all alarms selected in the given alarm screen.

This system function is used when the integrated buttons of the ActiveX control should not be used.

A system function in turn can be configured on the event "Edit." For example, it is possible to change to the process screen in which the alarm appeared.

Note

If the alarms to be edited have not yet been acknowledged, the acknowledgment takes place automatically when this system function is called up.

Syntax

AlarmViewEditAlarm (screen object)

Usable in the script: No

Parameter

Screen object

Name of the alarm screen in which the event is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x

HMI device	configurable
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.65 AlarmViewAcknowledgeAlarm

Application

Acknowledges the alarms selected in the given alarm view.

This system function is used when the integrated buttons of the ActiveX control should not be used.

Syntax

AlarmViewAcknowledgeAlarm (screen object)

Usable in the script: No

Parameter

Screen object

Name of the alarm screen in which the event is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.66 AlarmViewShowOperatorNotes

Application

Displays the configured operator notes of the alarm selected in the given alarm screen.

Syntax

AlarmViewShowOperatorNotes (screen object)

Usable in the script: No

Parameter

Screen object

Name of the alarm screen in which the event is triggered.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.67 OpenAllLogs

Application

Reestablishes the connection between WinCC and the logs. Logging can be continued.

Note

The system function "StartLogging" is performed in order to restart logging.

Syntax

OpenAllLogs

Usable in the script: yes (OpenAllLogs)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x

HMI device	configurable
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired
Tag	Value change Upper limit exceeded Lower limit violated

Application example

Objective

You are in runtime and want to change the data medium on which the process values are logged.

Information for configuring

Configure the system functions "StopLogging" and "CloseAllLogs" on the "Close log" button.

Configure the system functions "OpenAllLogs" and "StartLogging" on the "Open log" button.

As parameter transfer the respective name of the log that is to be stopped and started.

Procedure on HMI device

When the button "Close log" is pressed, the given log is stopped and all open logs are closed. The data medium can be changed. The button "Open log" opens all logs and continues the logging in the given log.

2.68 OpenScreenKeyboard

Application

Hides or shows the screen keyboard.

The screen keyboard remains open until the screen keyboard is explicitly closed. In this way, the screen keyboard can also be used in other applications.

Syntax

OpenScreenKeyboard (display)

Usable in the script: yes (OpenScreenKeyboard)

Parameter

Layout

Specifies whether the window is opened minimized or maximized with the screen keyboard:

0 (hmiScreenKeyboardMinimized) = Minimized

1 (hmiScreenKeyboardMaximized) = Maximized

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.69 OpenCommandPrompt

Application

Opens a Windows system prompt.

This function is used, e.g., to copy files or to call up another application.

Syntax

OpenCommandPrompt

Usable in the script: yes (OpenCommandShell)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.70 OpenInternetExplorer

Application

Opens the Internet Explorer on the HMI device.

If the Internet Explorer is already open when the system function is called up, the Internet Explorer is closed and reopened.

Note

The Internet Explorer saves data temporarily in the DRAM file system of the HMI device, e.g. the last web sites that were be called up.

This data can be saved with the system function "SaveRAMFileSystem" so that it is still available after the restart of the HMI device.

Syntax

OpenInternetExplorer (Start page)

Usable in the script: yes (OpenInternetExplorer)

Parameter

Home page

The page which is loaded when Internet Explorer is called up, e.g. "www.siemens.com."

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

See also

BackupRAMFileSystem (Page 2-182)

2.71 OpenTaskManager

Application

Shows the task manager.

The task manager allows changing to other open applications on the HMI device.

Note

The appearance of the task manager depends on the operating system installed.

Syntax

OpenTaskManager

Usable in the script: yes (OpenTaskManager)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.72 OpenControlPanel

Application

Opens a window which displays the Windows CE control panel.

Using this system function, the following can be set on the HMI device:

- Select printer
- Select transfer properties
- Perform backup functions and restore functions
- Configure screen saver
- Configure flash memory

Syntax

OpenControlPanel

Usable in the script: yes (OpenControlPanel)

Parameter

--

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.73 PROFIBUSScreenNumber

Application

Sets the bit within the given bit area of a direct key and transfers it to the S7 controller to which the HMI device is connected. This ensures unambiguous allocation of a control bit to screen number at all times..

Without the use of the system function, the S7 controller must distinguish the respective functionality by means of the screen number. This delays the updating of the screen number after a screen change.

Syntax

PROFIBUSScreenNumber (bit)

Usable in the script: No

Parameter

Bit

Determines the bit which is set. Depending on the HMI device, the bit numbers 0 to 31 or 0 to 39 are possible.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
MP 270B Touch	x
MP 370 Touch	x

Configurable objects

Object	Event
Screen	Loaded
	Cleared

2.74 AcknowledgeAlarm

Application

Acknowledges all selected alarms.

This system function is used when the HMI device does not have an ACK key or when the integrated key of the alarm screen should not be used.

Syntax

AcknowledgeAlarm

Usable in the script: No

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x

HMI device	configurable
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle switch) Switch on Switch off Enable Deactivate

2.75 RecipeViewNewDataRecord

Application

Creates a new data record in the given recipe view.

Syntax

RecipeViewNewDataRecord (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view in which the new recipe data record is created.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.76 RecipeViewGetDataRecordFromPLC

Application

Transfers the data record that is currently loaded in the PLC to the HMI device and displays it in the recipe view.

Syntax

RecipeViewGetDataRecordFromPLC (screen object)

Usable in the script: No

Parameter

Screen object

Name of the recipe view in which the recipe data record from the PLC is displayed.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.77 RecipeViewDeleteDataRecord

Application

Deletes the data record which is currently displayed in the recipe view.

Syntax

Recipe view DeleteDataRecord (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view in which the displayed recipe data record is deleted.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x

HMI device	configurable
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.78 RecipeViewMenu

Application

Opens the menu of the specified simple recipe view.
Only use this system function at a simple recipe view.

Syntax

RecipeViewMenu (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view in which the menu is to be opened.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Screen	Loaded
	Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.79 RecipeViewOpen

Application

Displays the data record values in the given recipe view. The system function is not performed if the recipe data record values are already displayed on the HMI device.

This system function is used when a simple recipe view has been configured. In the simple recipe view, only one selection list is displayed at a time on the HMI device. The system function "RecipeViewBack" is used to display the previous selection list.

Syntax

RecipeViewOpen (screen object)

Usable in the script: No

Parameter

Screen object

Name of the recipe view in which the recipe data record is displayed.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.80 RecipeViewSetDataRecordToPLC

Application

Transfers the recipe data record which is currently displayed in the recipe view to the PLC.

Syntax

RecipeViewSetDataRecordToPLC (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view from which the recipe data record is transferred to the connected PLC.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.81 RecipeViewSaveDataRecord

Application

Saves the recipe data record which is currently displayed in the recipe view.

Syntax

RecipeViewSaveDataRecord (screen object)

Usable in the script: No

Parameter

Screen object

Name of the recipe view in which the recipe data record is saved.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.82 RecipeViewSaveAsDataRecord**Application**

Saves the data record currently being displayed in the recipe view under a new name.

Syntax

RecipeViewSaveAsDataRecord (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view in which the recipe data record is saved under a new name.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x

HMI device	configurable
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.83 RecipeViewSynchronizeDataRecordWithTags

Application

Synchronizes the values of the data record which is currently displayed in the recipe view with their recipe tags.

During synchronization, all values of the data record are written to their recipe tags.

Syntax

RecipeViewSynchronizeDataRecordWithTags (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view in which the values are synchronized with their tags.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.84 RecipeViewRenameDataRecord

Application

Renames the selected data record in the given recipe view.

Only use this system function at a simple recipe view.

Syntax

RecipeViewRenameDataRecord (screen object)

Usable in the script: No

Parameter

Screen object

Name of the recipe view in which the recipe data record is renamed.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.85 RecipeViewShowOperateNotes

Application

Displays the configured operator notes of the given recipe view.

Syntax

RecipeViewShowOperateNotes (screen object)

Usable in the script: No

Parameter**Screen object**

Name of the recipe view whose configured help text is displayed.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.86 RecipeViewBack

Application

Returns to the previous selection list in the given recipe view.

The system function has no effect if the recipe selection is displayed on the HMI device.
Operation sequence of the selection lists in runtime:

- Recipe selection
- RecipeDataRecordSelection
- RecipeDataRecordValues

This system function is used when a simple recipe view has been configured. In the simple recipe view, only one selection list is displayed at a time on the HMI device. The system function "RecipeViewOpen" is used to display the recipe data record values.

Syntax

RecipeViewBack (screen object)

Usable in the script: No

Parameter

Screen object

Name of the recipe view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x

HMI device	configurable
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.87 ResetBit

Application

Sets the value of a "Bool" type tag at 0 (FALSE).

Syntax

ResetBit (tag)

Usable in the script: yes (ResetBit)

Parameter**Tag**

The BOOL type tag which is set to 0 (FALSE).

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit

Object	Event
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.88 ResetBitInTag

Application

Sets a bit in the given tag to 0 (FALSE).

After changing the given bit, the system function transfers the entire tag back to the PLC. It is not checked whether in the meantime, other bits in the tag have changed. Operator and PLC may only read the tag until it is transferred back to the PLC.

Note

If the PLC supports BOOL tags, do not use this system function. Instead, use the system function "ResetBit."

Syntax

ResetBitInTag (tag, bit)

Usable in the script: yes (ResetBitInTag)

Parameter

Tag

The tag in which a bit is set to 0 (FALSE).

Bit

The number of the bit that is set to 0 (FALSE).

When this system function is used in a script, the bits in the given tag are counted from right to left independent of the PLC used.. The counting begins with 0.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit

Object	Event
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.89 ButtonPress

Application

Triggers the event "Press" on the given screen object.

This system function is used, for example when you want to operate a screen button using a function key of the HMI device.

Note

The system functions "ButtonPress" and "ButtonRelease" must always be configured together. Therefore, when the system function "ButtonPress" is configured on the event "Press" of a function key, then the system function "ButtonRelease" is configured on the event "Release" of the same function key.

Syntax

ButtonPress (screen object)

Usable in the script: No

Parameter

Screen object

Name of the screen object on which the event is triggered.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.90 ButtonRelease

Application

Triggers the event "Release" on the given screen object.

This system function is used, for example when you want to operate a screen button using a function key of the HMI device.

Note

The system functions "ButtonPress" and "ButtonRelease" must always be configured together. Therefore, when the system function "ButtonPress" is configured on the event "Press" of a function key, then the system function "ButtonRelease" is configured on the event "Release" of the same function key.

Syntax

ButtonRelease (screen object)

Usable in the script: No

Parameter

Screen object

Name of the screen object on which the event is triggered.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x

HMI device	configurable
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.91 CloseAllLogs

Application

Disconnects the connection between WinCC and all logs.

Note

Before you close a log, the logging function must first be stopped in the log. This is done by using the system function "StopLogging."

Syntax

CloseAllLogs

Usable in the script: yes (CloseAllLogs)

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

You are in runtime and want to change the data medium on which the process values are logged.

Information for configuring

Configure the system functions "StopLogging" and "CloseAllLogs" on the "Close log" button.

Configure the system functions "OpenAllLogs" and "StartLogging" on the "Open log" button.

As parameter transfer the respective name of the log that is to be stopped and started.

Procedure on HMI device

When the button "Close log" is pressed, the given log is stopped and all open logs are closed. The data medium can be changed. The button "Open log" opens all logs and continues logging in the specified log.

2.92 SetDataRecordToPLC

Application

Transfers the given recipe data record directly from the data medium of the HMI device to the PLC with which the HMI device is connected.

Note

The values of the recipe data record don't need to be displayed on the HMI device.

Syntax

SetDataRecordToPLC (recipe number/name, record number/name, output status message, processing status)

Usable in the script: yes (SetDataRecordToPLC)

Parameter

Recipe number/name

Number or name of the recipe from which recipe data record is transferred to the PLC.

Data record number/name

Number or name of the recipe data record to be transferred to the PLC.

Output status message

Determines whether a status message is output after the transfer:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.93 SetDataRecordTagsToPLC

Application

Transfers the values of the recipe tags to the PLC. The recipe tags contain the values of the data record which is displayed on the HMI device.

Syntax

SetDataRecordTagsToPLC (Recipe number/name, processing status)

Usable in the script: yes (SetDataRecordTagsToPLC)

Parameter

Recipe number/name

Number or name of the recipe from which recipe data record is transferred to the PLC.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.94 SendEMail

Application

Sends an e-mail from the HMI device to the given addressee.

This system function is used, for example, when, in the case of service, the alarm is to be passed on directly to the service technician.

Note

The option "Smart service" is needed for implementation. In order to be able to send alarms as emails as well, the HMI system must have an e-mail client at its disposal.

Syntax

Send e-mail (address, reference, text, reply address)

Usable in the script: yes (SendEMail)

Parameter

Address

The e-mail address of the addressee.

Reference

The reference line of the e-mail.

Text

The text sent in the e-mail.

Reply address

The e-mail address to which the addressee of this e-mail should send the reply.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.95 PageDown

Application

Executes the key function <Screen up> on the HMI device:

Syntax

PageUp

Usable in the script: yes (PageUp)

Parameter

-

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC/	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Scheduler	Time expired

2.96 PageUp**Application**

Executes the key function <Screen down> on the HMI device.

Syntax

PageDown

Usable in the script: yes (PageDown)

Parameter

-

Table 2-1 Principle

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC/	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Scheduler	Time expired

2.97 SetAcousticSignal

Application

Configures the acoustic check back of the HMI device when operating the touch screen.

Note

The configuration that was set at Switch off is reestablished when restarting the HMI device.

Syntax

SetAcousticSignal (volume)

Usable in the script: yes (SetAcousticSignal)

Parameter

Volume

Determines whether and how loud an acoustic signal is emitted:

-1 (hmiToggle) = Toggle: Toggles the emission of the acoustic signal as follows: Muted > Quiet > Loud.

0 (hmiMuted) = Muted: no acoustic signal

1 (hmiQuiet) = Quiet: quiet acoustic signal

2 (hmiLoud) = Loud: loud acoustic signal

Configurable HMI devices

HMI device	configurable
TP 270	x
MP 270B Touch	x
MP 370 Touch	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.98 SetDisplayMode

Application

Changes the settings of the screen in which the runtime software runs.

The runtime software runs in full-screen mode as default. The Windows task switch is disabled.

Syntax

SetDisplayMode (Display mode)

Usable in the script: yes (SetScreenMode)

Parameter

Display mode

Determines the settings for the screen in which the runtime software runs.

1 (hmiScreenFull): Full-screen Title bar of the screen is not visible

2 (hmiScreenMaximized): Maximized

3 (hmiScreenRestore): Restore: The last used screen setting is used. This display mode can only be used when the window is displayed minimized or maximized.

4 (hmiScreenMinimized): Minimized

5 (hmiScreenAutoAdjust): Automatic: The size of the window is set so that all screen objects within it are visible

6 (hmiScreenOnTop): Foreground; either the window appears in the foreground or the program icon related to the window flashes in the toolbar depending on the Windows setting. The setting can be changed in the Windows configuration and applies to all Windows applications.

Configurable HMI devices

HMI device	configurable
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.99 SetDeviceMode

Application

Toggles the operating mode on the HMI device. The following types of operation are possible: "Online", "Offline" and "Transfer."

Syntax

SetDeviceMode (operating mode)

Usable in the script: yes (SetDeviceMode)

Parameter

Operating mode

Determines the operation mode of the HMI device:

0 (hmiOnline) = "Online": The connection to the PLC is established.

1 (hmiOffline) = "Offline": The connection to the PLC is disconnected.

2 (hmiTransfer) = "Transfer": A project can be transferred from the configuration computer to the HMI device.

Note

If a PC is used as an HMI device, when toggling the operation mode after the transfer the runtime software is exited.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x

HMI device	configurable
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.100 SetBit

Application

Sets the value of a "Bool" type tag to 1 (TRUE).

Syntax

SetBit (Variable)

Usable in the script: yes (SetBit)

Parameter**Tag**

The BOOL type tag which is set to 1 (TRUE).

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Picture	Loaded Cleared

Object	Event
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.101 SetBitInTag

Application

Sets a bit in the given tag to 1 (TRUE).

After changing the given bit, the system function transfers the entire tag back to the PLC. It is not checked whether in the meantime, other bits in the tags have changed. Operator and PLC may only read the tag until it is transferred back to the PLC.

Note

If the PLC supports BOOL tags, do not use this system function. Use the system function "SetBit" instead.

Syntax

SetBitInTag (tag, bit)

Usable in the script: yes (SetBitInTag)

Parameter**Tag**

The tag in which a bit is set to 1 (TRUE).

Bit

The number of the bit that is set to 1 (TRUE).

When this system function is used in a script, the bits in the given tag are counted from right to left independent of the PLC used.. The counting begins with 0.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370B	x
MP 370B Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press

Object	Event
System key (global)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.102 SetBitWhileKeyPressed

Application

Sets the bit of the given tag to 1 (TRUE) as long as the user keeps the configured key pressed.

After changing the given bit, the system function transfers the entire tag back to the PLC. It is not checked whether in the meantime, other bits in the tags have changed. Operator and PLC may only read the tag until it is transferred back to the PLC. You should only access tag of the type BOOL with this function in order to avoid problems with overlapping accesses to the same tag.

Note

All functions on the event "Release" are performed immediately by means of a screen change configured for a key, even if the key is kept pressed.

If the system function "SetBitWhileKeyPressed" is configured for a function key, the bit is reset immediately following the screen change. This action is necessary since the key assignments change after the screen change.

Syntax

SetBitWhileKeyPressed (tag, bit)

Usable in the script: No

Parameter**Tag**

The tag in which a bit is temporarily set to 1 (TRUE). Use only tags of the type BOOL, as far as allowed by the control.

Bit

The number of the bit that is temporarily set to 1 (TRUE).

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
OP 170B	x
OP 177B DP	x
TP 177 DP	x
TP 177 PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 370	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow

2.103 SetScreenKeyboardMode

Application

Enables or disables the automatic display of the screen keyboard on the HMI device.

This system function is also used to prevent the display of the screen keyboard, e.g. because an external keyboard is connected to the HMI device.

Syntax

SetScreenKeyboardMode (Mode)

Usable in the script: yes (SetScreenKeyboardMode)

Parameter

Mode

Determines whether the screen keyboard is hidden or shown:

0 (hmiOff) = Off: Screen keyboard is hidden

1 (hmiOn) = On: Screen keyboard is shown

-1 (hmiToggle) = Toggle: Toggles between the two modes.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press

Object	Event
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.104 SetAlarmReportMode

Application

Switches the automatic reporting of alarms on the printer on or off.

Syntax

SetAlarmReportingMode (Mode)

Usable in the script: yes (SetAlarmReportMode)

Parameter

Mode

Determines whether alarms are reported automatically on the printer:

0 (hmiDisablePrinting) = Reporting off: Alarms are not printed automatically.

1 (hmiEnablePrinting) = Reporting on: Alarms are printed automatically.

-1 (hmiToggle) = Toggle: Toggles between the two modes.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x

HMI device	configurable
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Alarm buffer overflow

2.105 SetRecipeTags

Application

Changes the status of the recipe tags from "Online" to "Offline" and vice versa.

This system function is used, for example, when recipe data record values are fine tuned when starting up a machine.

Syntax

SetRecipeTags (recipe number/name, status, output status message, processing status)

Usable in the script: yes (SetRecipeTags)

Parameter

Recipe number/name

Number or name of the recipe in which the recipe data record is saved.

Status

Determines the status of the recipe tags:

0 (hmiOnline) = "Online": Value changes of the recipe tags are transferred immediately to the PLC connected to the HMI device.

1 (hmiOffline) = "Offline": Value changes of the recipe tags are only transferred to the PLC connected to the HMI device when, for example, the "WriteDataRecordTagsToPLC" system function is executed.

Output status message

Determines whether a status report is output after saving:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.106 SetLanguage

Application

Toggles the language on the HMI device. All configured text and system events are displayed on the HMI device in the newly set language.

Syntax

SetLanguage (Language)

Usable in the script: yes (SetLanguage)

Parameter

Language

Determines which language is set on the HMI device. The following specifications are possible:

- -1 (hmiToggle) = Toggle: Changes to the next language. The sequence is determined during configuration in the "Project languages" editor.
- Number which you have specified in the "Project languages" editor under "Order for language switching": Changes to the language with the given number.
- Language abbreviation in accordance with the VBScript5 reference: Changes to the language which corresponds to the specified language, for example "de-DE" for German (Germany) or "en-US" for English (United States of America).

An overview of the language abbreviations is available in the basic information of VBScript under the topic "Area diagram-ID (LCID) Diagram".

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired
Tag	Value change Upper limit exceeded Lower limit violated

2.107 SetConnectionMode

Application

Connects or disconnects the given connection.

Note

A connection to the PLC cannot be established until the operating mode ONLINE has been set on the HMI device. This is done by using the system function "SetDeviceMode."

Syntax

SetConnectionMode (mode, connection)

Usable in the script: yes (SetConnectionModeToPLC)

Parameter

Mode

Determines whether a connection to the PLC is established or disconnected:

0 (hmiOnline) = ONLINE: Connection is established.

1 (hmiOffline) = OFFLINE: Connection is disconnected.

Connection

The PLC to which the HMI device is connected. You specify the name of the controller in the connection editor.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Two typical examples of usage for this system function are as follows:

- Test

As long as no PLC is connected to the HMI device, no error messages will be output during the test on the HMI device. If the HMI device is connected to a PLC, the connection to the PLC can be established by pressing a key.

- Start up

Several PLCs are to be configured for a system. At first, all PLCs except one are configured "Offline." After start up of the first PLC, the connection to each of the other PLCs is established by pressing a key. In this way, the other PLCs are started up one after another.

2.108 SetWebAccess

Application

Determines the mode of access to the runtime application using the Internet.

Syntax

SetAccessModeViaWeb (Access mode)

Usable in the script: yes (SetAccessModeViaWeb)

Parameter

Access mode

Determines the mode of access to the runtime application:

-1 (hmiToggle) = Toggle: Toggles between the two modes.

0 (hmiReadOnly) = Read only.

1 (hmiReadWrite) = Read and write.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.109 SetValue

Application

Assigns a new value to the given tag.

Note

This system function can be used to assign strings and numbers, depending on the type of tag.

Syntax

SetValue (tag, value)

Usable in the script: No

Parameter**Tag**

The tag to which the given value is assigned.

Value

The value which the given tag is assigned.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.110 BackupRAMFileSystem

Application

Backs up the RAM file system in the memory medium of the HMI device.

After restarting the HMI device, the data is automatically reloaded in the RAM file system.

Applications such as the Internet Explorer save data (e.g. the last web sites called up) temporarily to the DRAM file system of the HMI device.

Syntax

BackupRAMFileSystem

Usable in the script: yes (BackupRAMFileSystem)

Parameter

--

Configurable HMI devices

HMI device	configurable
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

See also

OpenInternetExplorer (Page 2-119)

2.111 SimulateSystemkey

Application

Syntax

Usable in the script: ?

Parameter

Parameter 1

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press

2.112 SimulateTag

Application

Simulates the behavior of tags and dynamic objects such as text lists, without having the HMI device connected to a PLC.

This system function is used, for example, to present the functionality of a project.

Note

As soon as the tag value lies outside of the defined limit value (minimum value and maximum value), the tag value is set at the minimum value after the next update cycle.

Syntax

SimulateTag (tag, cycle, maximum value, minimum value, value)

Usable in the script: No

Parameter**Tag**

The tag whose value is changed.

Cycle

The factor by which the basic cycle of 200 milliseconds is multiplied. The cycle determines when the tag value is changed by the specified value X.

Maximum value

The maximum value that the tag value can assume. The maximum value must be higher than the minimum value. When the maximum value is achieved, the maximum value is set to the configured minimum value for the next run.

Minimum value

The minimum value that the tag value can assume. The minimum value must be lower than the maximum value. When the minimum value is achieved, the minimum value is set to the configured maximum value for the next run.

Value

The value by which the tag value is changed during each cycle. A negative value reduces the tag value.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Screen	Loaded

2.113 SmartClientViewRefresh

Application

Updates the contents displayed in the specified smart client view.

Syntax

SmartClientViewRefresh (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Screen	Loaded
	Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.114 SmartClientViewReadOnlyOff

Application

Sets read-only access to "Off" in the specified smart client view.

This setting allows a distant HMI device to be operated. The "SmartClientViewReadOnlyOn" system function is used to enable read-only access again.

Syntax

SmartClientViewReadOnlyOff (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x

HMI device	configurable
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.115 SmartClientViewReadOnlyOn

Application

Sets read-only access to "On" in the specified smart client view.

This setting allows a distant HMI device to be monitored only. Use the "SmartClientViewReadOnlyOff" system function to turn off read-only access again.

Syntax

SmartClientViewReadOnlyOn (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.116 SmartClientViewDisconnect

Application

Executes the "Disconnect" command in the specified smart client view.

This system function is used when the integrated buttons of the screen object should not be used.

Syntax

SmartClientViewDisconnect (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.117 SmartClientViewConnect

Application

Executes the "Connect" command in the specified smart client view.

This system function is used when the integrated buttons of the screen object should not be used. The smart client view connects to the configured HMI device.

Syntax

SmartClientViewConnect (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x

HMI device	configurable
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.118 SmartClientViewLeave

Application

Exits the smart client view and returns to control of the HMI device.

The connection to the HMI device configured in the smart client view is retained.

Syntax

SmartClientViewLeave (screen object)

Usable in the script: No

Parameter

Screen object

Name of the smart client view in which the command is triggered.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.119 SaveDataRecord

Application

Saves the current values of the recipe tags as data record to the memory medium of the HMI device.

This system function is used, for example, to save a recipe data record in the recipe screen.

Syntax

SaveDataRecord (recipe number/name, record number/name, overwrite, output status message, processing status)

Usable in the script: yes (SaveDataRecord)

Parameter

Recipe number/name

Number or name of the recipe to which a recipe data record is saved.

Data record number/name

Number or name of the recipe data record to be saved.

Overwrite

Specifies whether an existing data record is overwritten:

0 (hmiOverwriteForbidden) = No: The recipe data record is not overwritten, the data record is not saved.

1 (hmiOverwriteAlways) = Yes: The recipe data record is overwritten without a prompt for confirmation.

2 (hmiOverwriteWithPrompting) = After confirmation: The recipe data record is overwritten only after confirmation by the user.

Output status message

Determines whether a status report is output after saving:

0 (hmiOff) = Off: Status message is not output.

1 (hmiOn) = On: Status message is output.

Processing status

Returns the processing status of the system function. You can use the return value, for example to delay execution of other system functions until this system function has been successfully completed.

2 = System function is being performed.

4 = System function was successfully completed.

12 = System function was not performed because an error occurred.

Configurable HMI devices

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.120 StartLogging

Application

Starts the logging of data or alarms in the specified log.

The logging in runtime can be interrupted with the system function "StopLogging."

Syntax

StartLogging (log type, log)

Usable in the script: yes (StartLogging)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

2 (hmiAudittrailArchive) = Audit-Trail log

Log

Name of the log which is started.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.121 StartSequenceLog

Application

Stops the logging of data or alarms for the given log.

Logging is continued in the next log of the segmented ring log you configured for the specified log.

If you did not configure a segmented ring log for the specified log, the system function has no effect.

Syntax

StartSequenceLog (log type, log)

Usable in the script: yes (StartSequenceLog)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

Log

Name of the log for which the logging is stopped and continued in the next log.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Warning alarm	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.122 StartProgram

Application

Starts the specified program on the HMI device.

The runtime software continues running in the background. Alarms continue to be output and data continues to be updated.

When the given application is exited, the screen which was active during the performance of the system function is displayed on the HMI device.

This system function is used, for example, to edit recipe data records in MS Excel on the HMI device.

Note

If Windows CE is installed on the HMI device, during the configuration it must be checked whether the desired application can be started with this system function.

This system function allows all applications to be started which can be started in the "Execute" dialog of Windows CE.

The application to be started must be installed on the HMI device.

Syntax

StartProgram (program name, program parameter, display, wait for end of program)

Usable in the script: yes (StartProgram)

Parameter

Program name

Name and path of the program which is started. Upper and lower case are taken into account in this parameter.

Program parameter

The parameters you transfer at the start of the program, for example a file that is opened after the start of the program.

The description of the necessary parameters is found in the documentation of the program to be started.

Layout

Determines how the program window is displayed on the HMI device.

0 (hmiShowNormal) = Normal

1 (hmiShowMinimized) = Minimized

2 (hmiShowMaximized) = Maximized

3 (ShowMinimizedAndInactive) = Minimized and inactive

Wait for end of program

Determines whether there is a change back to the project after the called up program has ended.

0 (hmiNo) = No: No change to project.

1 (hmiYes) = Yes: Change to project.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit

Object	Event
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Alarm buffer overflow

2.123 StatusForceGetValues

Application

Starts or stops the updating of values in the status/control display. The values are read from the PLC connected to the HMI device until the update is stopped.

Note

As long as the values are updated, no entries are possible in the input fields of the status/control display.

Syntax

StatusForceGetValues (screen object)

Usable in the script: No

Parameter

Screen object

Name of the status/control display to which data from the PLC is written.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.124 StatusForceSetValues

Application

Writes the values from the status/control display to the PLC to which the HMI device is connected.

Syntax

StatusForceSetValues (screen object)

Usable in the script: No

Parameter

Screen object

Name of the status/control display from which data is written to the PLC.

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press

Object	Event
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.125 ControlSmartServer

Application

Starts or stops the Sm@rtServer. .

Syntax

ControlSmartServer (mode)

Usable in the script: yes (ControlSmartServer)

Parameter

Mode

Specifies whether the Sm@rtServer is started or stopped.

-1 (hmiToggle) = Toggle: Toggles between the two modes

0 (hmiStop) = Stop: Sm@rtServer is stopped

1 (hmiStart) = Start: Sm@rtServer is started

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Press Release
Function key (local)	Press Release
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Audit Trail log	Little available memory Little available memory, critical

2.126 ControlWebServer

Application

Starts or stops the Web server.

Syntax

ControlWebServer (mode)

Usable in the script: yes (ControlWebServer)

Parameter

Mode

Specifies whether the Web server is started or stopped.

-1 (hmiToggle) = Toggle: Toggles between the two modes

0 (hmiStop) = Stop: The Web server is stopped

1 (hmiStart) = Start: The Web server is started

Configurable HMI devices

HMI device	configurable
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Press Release
Function key (local)	Press Release
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit

Object	Event
Events	Enable Deactivate Edit
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.127 StopLogging

Application

Stops the logging of process values or alarms in the specified log.

The logging in runtime can be continued with the system function "StartLogging."

Note

When logging is stopped, a connection between WinCC flexible and the log files or log database still exists. To disconnect this connection, the system function "CloseAllLogs" is used.

Syntax

StopLogging (log type, log)

Usable in the script: yes (StopLogging)

Parameter

Log type

Determines the type of log:

0 (hmiTagArchive) = Data log

1 (hmiAlarmArchive) = Alarm log

2 (hmiAudittrailArchive) = Audit-Trail log

Log

Name of the log which is stopped.

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC/	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Picture	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

Object	Event
Scheduler	Time expired Runtime Stop

Application example

Objective

You are in runtime and want to change the data medium on which the process values are logged.

Information for configuring

Configure the system functions "StopLogging" and "CloseAllLogs" on the "Close log" button.

Configure the system functions "OpenAllLogs" and "StartLogging" on the "Open log" button.

As parameter transfer the respective name of the log that is to be stopped and started.

Procedure on HMI device

When the button "Close log" is pressed, the given log is stopped and all open logs are closed. The data medium can be changed. The button "Open log" opens all logs and continues logging in the specified log.

2.128 StopRuntime

Application

Exits the runtime software and thereby the project running on the HMI device.

Syntax

StopRuntime (Mode)

Usable in the script: yes (StopRuntime)

Parameter

Mode

Determines whether the operating system is shut down after exiting runtime.

0 (hmiStopRuntime) = Runtime: Operating system is not shut down

1 (hmiStopRuntimeAndOperatingSystem) = Runtime and operating system: Operating system is shut down

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.129 SeperateTagFromHandwheel

Application

Separates the tag that is connected with the operating element handwheel, and reconnects the handwheel with the global tags.

Syntax

SeperateTagFromHandwheel

Usable in the script: No

Parameter

--

Configurable HMI devices

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
System key (local)	Release Press
Picture	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.130 ConnectTagWithHandwheel

Application

Connect the tag with the operating device handwheel. If the handwheel is operated, the tag value changes. The connection can be separated with the system function "SeperateTagFromHandwheel".

Syntax

ConnectTagWithHandwheel(Tag)

Usable in the script: No

Parameter

Tag

Tag names which are connected to the operating device handwheel.

Configurable HMI devices

HMI device	configurable
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
System key (local)	Release Press
Picture	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

2.131 TraceUserChange

Application

Outputs a system event that shows which user is currently logged in on the HMI device.

Syntax

TraceUserChange

Usable in the script: No

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x

HMI device	configurable
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Scheduler	User change

2.132 DecreaseFocusedValue

Application

Subtracts the given value from the value of the tag which is connected to the input field or to the drop-down list, graphic selection list, slider bar which has the current focus.

Syntax

DecreaseFocusedValue (value)

Usable in the script: yes (DecreaseFocusedValue)

Parameter

Value

The value which is subtracted from the tag value.

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press
Scheduler	Time expired

2.133 DecreaseValue

Application

Subtracts the given value from the tag values.

$X = X - a$

Note

The system function uses the same tag as input and output values. When this system function is used to convert a value, help tags must be used. The tag value can be assigned to the help tags with the function "SetValue."

Syntax

DecreaseValue (tag, value)

Usable in the script: yes (DecreaseValue)

Parameter**Tag**

The tag from which the given value is subtracted.

Value

The value which is subtracted.

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x

HMI device	configurable
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
System key (global)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow Runtime Stop

2.134 ChangeProject

Application

Syntax

Usable in the script: ?

Parameter

Parameter 1

Configurable HMI devices

HMI device	configurable
OP 77B	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x

HMI device	configurable
Mobile Panel 177 PN	x
OP 270	x
MP 270B	x
MP 370B	x
PC/	x

Configurable objects

Object	Event
Function key (global)	Release
	Press
Function key (local)	Release
	Press

2.135 ChangeConnection

Application

Disconnects the connection to the PLC in use and establishes a new connection to the given PLC.

Note

S7 PLCs are supported. The PLC must be connected at the DP/MPI interface.

This function may **not** be used to establish a connection to a SIMOTION PLC.

Syntax

ChangeConnection (connection, MPI/PROFIBUS address, slot, rack)

Usable in the script: yes (ChangeConnection)

Parameter

Connection

Name of the PLC to which the connection is to be established. The name is determined during configuration in the connection editor.

MPI/PROFIBUS address

MPI/PROFIBUS address of the PLC to which the connection is to be established. The address is determined during configuration in the connection editor.

Slot

Slot for the PLC to which the connection is to be established.

Rack

Rack for the PLC to which the connection is to be established.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared

Object	Event
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

Application example

Objective

You want to operate one HMI device on several machines. Configure the necessary PLCs in the project, to which you want to change by pressing a key. When changing the PLC, the connection to the PLC in use is disconnected. Then the connection to the new PLC with other address parameters is reestablished. To be able to access the values of the new PLC, the same tags are to be configured for the PLC used.

The PLC which was given when creating the project is used as default.

1. Enter the name and address of the PLC in the "Connections" editor.
2. Configure a button in the process screen.
3. Configure the system function "ChangeConnection" on the "Press" event.
4. Give the name and address of the PLC as parameters.

See also

Direct key (Page 2-38)

2.136 ShowLogonDialog

Application

Opens a dialog on the HMI device with which the user can log on to the HMI device.

Syntax

ShowLogonDialog

Usable in the script: No

Parameter

--

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate

Object	Event
Scheduler	Time expired

2.137 ShowInfoText

Application

Displays the configured help text of the selected object.

If the function is configured on a funktion key, the help text for the screen object that currently has the focus is displayed. If a help text is configured for the screen itself, you can switch to this text with <Enter> or by double-clicking on the help window.

If the function is configured on a button, only the help text for the current screen is displayed.

Syntax

ShowInfoText (display)

Usable in the script: yes (ShowInfoText)

Parameter

Layout

Determines whether the configured help text is hidden or shown:

0 (hmiOff) = Off: Configured help text is hidden

1 (hmiOn) = On: Configured help text is shown

-1 (hmiToggle) = Toggle: Toggles between the two modes

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x

HMI device	configurable
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Function key (global)	Release Press
Function key (local)	Release Press
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.138 ShowAlarmWindow

Application

Hides or shows the alarm window on the HMI device.

Syntax

ShowAlarmWindow (object name, display)

Usable in the script: yes (ShowMessageWindow)

Parameter**Object name**

Name of the alarm screen which is hidden or shown.

Layout

Determines whether the alarm window is hidden or shown:

0 (hmiOff) = Off: Alarm screen is hidden.

1 (hmiOn) = On: Alarm screen is shown

-1 (hmiToggle) = Toggle: Toggles between the two modes

Configurable HMI devices

HMI device	configurable
TP 170micro	x
TP 170A	x
OP 77B	x
TP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 170B	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
OP 270	x
TP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Data log	Overflow

Object	Event
Alarm log	Overflow
Alarm view	Click
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.139 ShowSoftwareVersion

Application

Hides or shows the version number of the runtime software.

Use this system function if during servicing, for example, you required the version of the runtime software used.

Syntax

ShowSoftwareVersion (display)

Usable in the script: yes (ShowSoftwareVersion)

Parameter

Layout

Determines whether the version number is shown:

0 (hmiOff) = Off: Version number is not shown

1 (hmiOn) = On: Version number is shown

-1 (hmiToggle) = Toggle: Toggles between the two modes

Configurable HMI devices

HMI device	configurable
OP 270	x
TP 270	x

HMI device	configurable
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
SystemKey (global)	Release Press
Screen	Loaded Cleared
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired

2.140 ShowSystemAlarm

Application

Displays the value of the delivered parameter as a system alarm on the HMI device.

Syntax

ShowSystemAlarm (text/value)

Usable in the script: yes (ShowSystemAlarm)

Parameter**Text/Value**

The text or the value, which was output as a system alarm.

Configurable HMI devices

HMI device	configurable
OP 77B	x
TP 170B	x
OP 170B	x
TP 177B DP	x
TP 177B PN/DP	x
OP 177B DP	x
OP 177B PN/DP	x
Mobile Panel 170	x
Mobile Panel 177 DP	x
Mobile Panel 177 PN	x
TP 270	x
OP 270	x
MP 270B	x
MP 270B Touch	x
MP 370	x
MP 370 Touch	x
PC	x

Configurable objects

Object	Event
Tag	Value change Upper limit exceeded Lower limit violated
Function key (global)	Release Press
Function key (local)	Release Press
Screen	Loaded Cleared
Alarm	Enable Deactivate Acknowledge Edit

Object	Event
Events	Enable Deactivate Edit
Data log	Overflow
Alarm log	Overflow
Audit Trail log	Little available memory Little available memory, critical
Screen object	Press Release Click Change (or toggle for switch) Switch on Switch off Enable Deactivate
Scheduler	Time expired Screen change User change Alarm buffer overflow

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