

PM-MAINT V10.8 - What's new

PM-MAINT

New Features in Version 10

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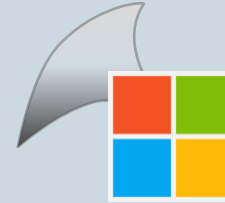
PM-SERVER: Filtered tag import from WinCC



New PM-SERVER function blocks



Support of OPC UA



Support of new SCADA system and operating system versions



Support of SQL Servers 2014 including 64 bit versions

PM-MAINT

New Features in Version 10.1

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QuickSearch



Quick access of PM-MAINT records



Email Notifications for posted Requests



Support of new SCADA system versions

PM-MAINT

New Features in Version 10.3

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Quick access to important documents



External documentation



Support of new SCADA system versions

PM-MAINT

New Features in Version 10.5

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Custom email subjects with placeholders



Custom icons for Order Types And Notification Types



Reports with full object hierarchy



Support of new SCADA system versions

PM-MAINT

New Features in Version 10.6

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Support of new SCADA system and operating system versions



Notification Reports with required Materials of associated Order

PM-MAINT

New Features in Version 10.8

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Support of new SCADA system versions

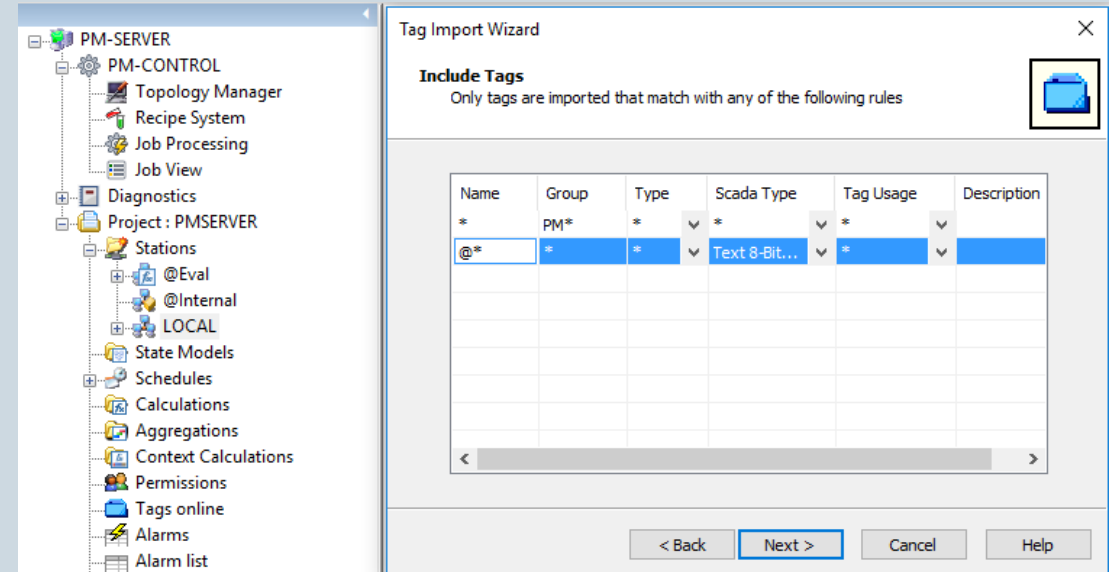
New in Version 10: PM-SERVER: Filtered tag import from WinCC

During the configuration of a PM-MAINT project you have to import the tags of a WinCC project into the PM-SERVER.

The PM-SERVER now allows to define a filter for importing only the tags which are relevant for the PM-MAINT project.

Tags which are used only in the SCADA system itself can be excluded.

This improves the performance and clarity.

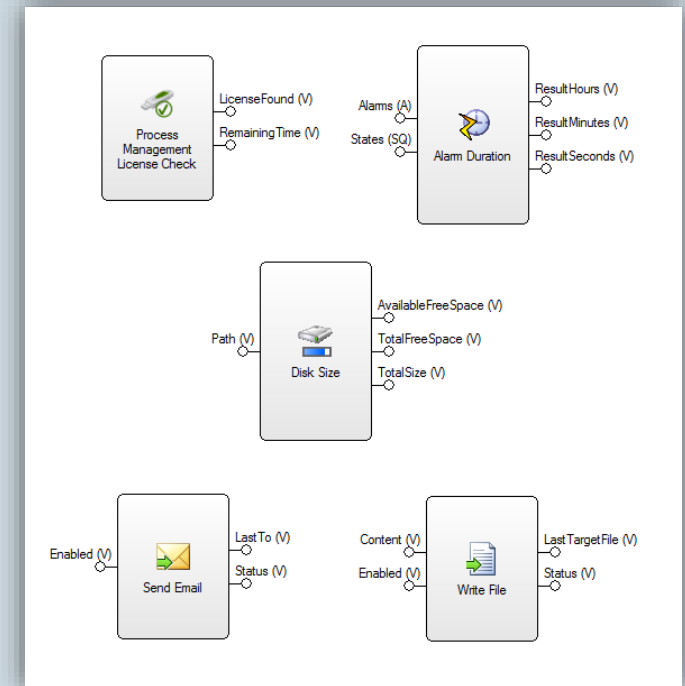


New in Version 10: New PM-SERVER function blocks

PM-SERVER is able to calculate values depending on input values. A calculation can range from simple arithmetic calculations to complex operations.

Among others these new function blocks are now available:

- Process Management license check
- Evaluating alarm duration and state models
- Monitoring the size of directories and drives
- Sending calculation results via email
(e.g. alarm analysis or as signalization of events)
- Saving calculation results in files
(e.g. alarm analysis or as signalization of events)

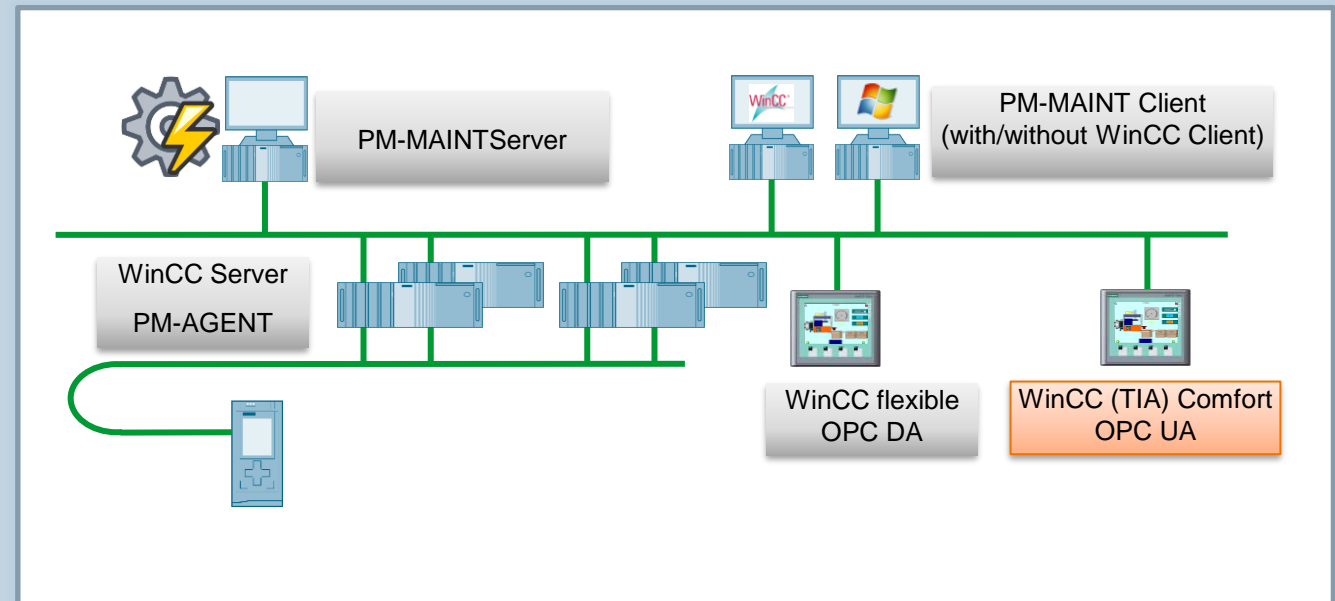


New in Version 10: Support of OPC UA

HMI systems like WinCC (TIA) Comfort / Advanced or other OPC servers provide their tag values via their individual integrated OPC UA interfaces.

The following station types are available in PM-SERVER:

- PM-AGENT
(WinCC version 7.2 to 7.4)
- OPC DA station
- **OPC UA station**
- Text import station



New in Version 10: SCADA system versions

The following SCADA system versions are supported:

- WinCC V7.2
- WinCC V7.3
- **WinCC V7.4**
- WinCC TIA V13
- WinCC TIA V13 SP1

New in Version 10: Operating system versions

Support of the following operation system versions:

- Windows 7 Professional, Enterprise, Ultimate ^{32-/64-Bit}
- Windows 8.1 Professional, Enterprise ^{32-/64-Bit}
- Windows Server 2008 R2 ^{64-Bit}
- Windows Server 2012 R2 ^{64-Bit}
- Windows 10 Professional, Enterprise ^{64-Bit}



New in Version 10: SQL Server versions

Support of the following SQL Server versions:

- SQL Server 2014
- SQL Server 2008 R2
- SQL Server 2008

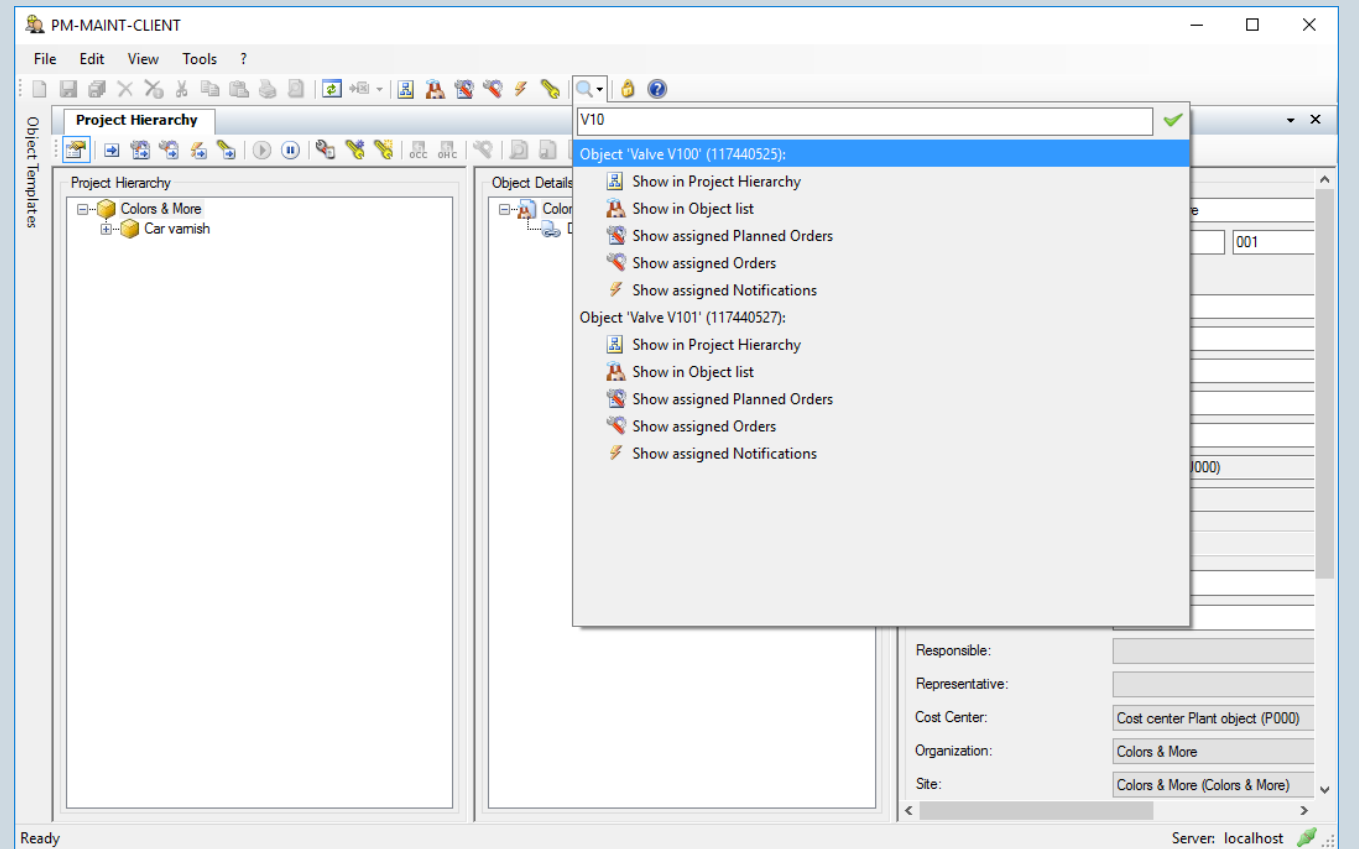
each with Standard and Developer Edition; 32 and 64 bit



New in Version 10.1: QuickSearch

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The new QuickSearch allows quick location of PM-MAINT objects and associated records.



New in Version 10.1: Quick access of PM-MAINT records

PM-MAINT records can be accessed by their URL, e.g.:

`pmm://object/100663318?target=ProjectHierarchy`

This executes PM-MAINT client and displays the associated record.

URLs can be executed many ways, e.g.:

- Embedded in a protocol/website/email
- Script on a WinCC picture
- Scanning a QR-Code/Barcode attached on a physical object.

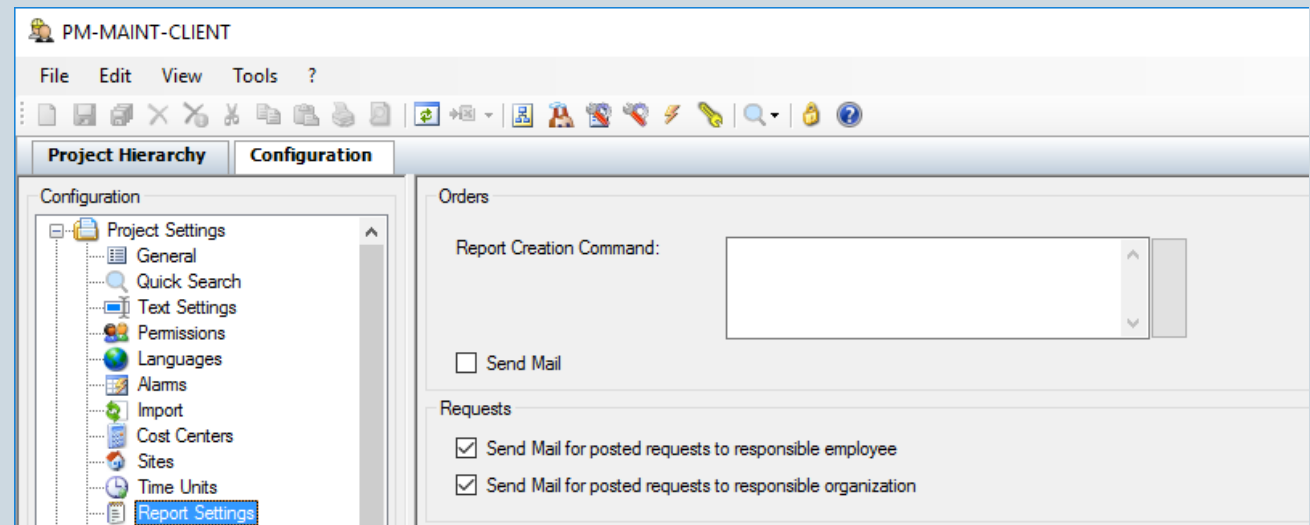
The screenshot displays the WinCC interface for the 'Color Plant' simulation. The main area shows a process diagram with three silos (red, yellow, blue) and a mixer. A 'PM-MAINT-CLIENT' window is open, showing a project hierarchy tree. A red line connects a valve (V2) in the diagram to its corresponding entry in the hierarchy. The 'Object Details' pane shows settings for 'Valve V2', including 'Operation Cycles Counter Settings', 'Operation Hours Counter Settings', 'Runtime', and 'Documents'.

Operation Cycles	
V2	8079
V3	4043
V4	684
Operation Hour	
Mixer	9,72

Mixer: 'overhaul motor'	
Operation hours counter	0
Operation cycle counter	0
Current interval status	100
Recommended M-Date	08.05.2017 17:23
M-Notice	
M-Order	
Remaining operation hours	89
Remaining calendar time	100
Remaining operation cycles	0

New in Version 10.1: Email Notifications for posted Requests

Employees can be notified by email if a new request was posted on an object.



New in Version 10.1: SCADA system versions

The following SCADA system versions are supported:

- WinCC V7.2
- WinCC V7.3
- WinCC V7.4
- WinCC TIA V13
- WinCC TIA V13 SP1
- **WinCC TIA V14 (beginning with Update 2)**

New in Version 10.3: Quick access to important documents

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A primary document can be set for objects, planned orders and orders, and can be accessed directly with the new toolbar button.

The screenshot displays the PM-MAINT-CLIENT application window. The title bar reads 'PM-MAINT-CLIENT'. The menu bar includes 'File', 'Edit', 'View', and 'Tools'. The toolbar contains various icons for file operations and object management. The main workspace is divided into three panes: 'Project Hierarchy', 'Object Details', and 'Documents'. The 'Project Hierarchy' pane shows a tree structure with 'Mixer' selected. The 'Object Details' pane shows properties for the selected 'Mixer' object, including 'Machine data', 'Manufacturer Properties', 'Supplier Properties', 'Operation Cycles Counter Settings', 'Operation Hours Counter Settings', 'Runtime', and 'Documents'. The 'Documents' pane shows a table of documents associated with the object.

Setting the primary document

Name	Primary Document	Application
Data Sheet Mixer 1 (Dokument 2)	<input type="checkbox"/>	http-Link
Manual Mixer 1 (Dokument 1)	<input checked="" type="checkbox"/>	http-Link
Schema Mixer 1 (Dokument 3)	<input type="checkbox"/>	http-Link

Accessing the primary document

New in Version 10.3: External documentation

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Objects, planned orders and orders can refer to external documentation (local file, shared file or a generic URL, e.g. an Internet/intranet page).

It can be accessed directly with the new toolbar button.

The screenshot displays the PM-MAINT-CLIENT application window. The interface is divided into several panes: 'Project Hierarchy' on the left, 'Object Details' in the center, and a data entry form on the right. A callout box with the text 'Accessing the external documentaion' (note the typo) points to a new toolbar button in the 'Object Details' pane. The data entry form on the right includes fields for 'External Id', 'Article Number', 'Inventory Number' (U001BA001AF002MS004), 'Object Type' (Machine (M000)), 'Object Template', 'Parent Object' (Color plant (67108883)), 'Object Condition', 'Priority', 'Responsible', 'Representative', 'Cost Center', 'Organization' (Colors & More), 'Site' (Colors & More (Colors & More)), 'Permission Groups' (<No access protection>), and 'Note'. At the bottom of the form, the 'External Documentation' field is highlighted with a red box and contains the URL: <http://colorsandmore.intranet/silo-blue/manual.pdf>.

New in Version 10.3: SCADA system versions

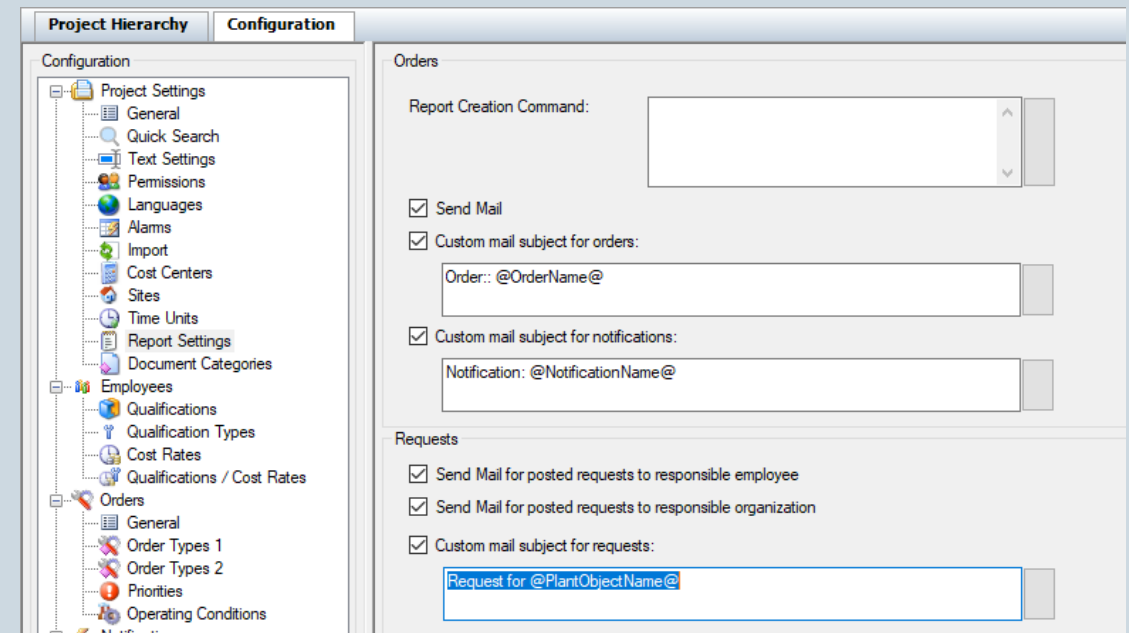
The following SCADA system versions are supported:

- WinCC V7.2
- WinCC V7.3
- WinCC V7.4
- WinCC V7.4 SP1
- WinCC TIA V13
- WinCC TIA V13 SP1
- WinCC TIA V14 (beginning with Update 2)
- **WinCC TIA V15**

New in Version 10.5: Custom email subjects with placeholders

When sending emails the subject can be configured individually for Orders, Notifications and Requests.

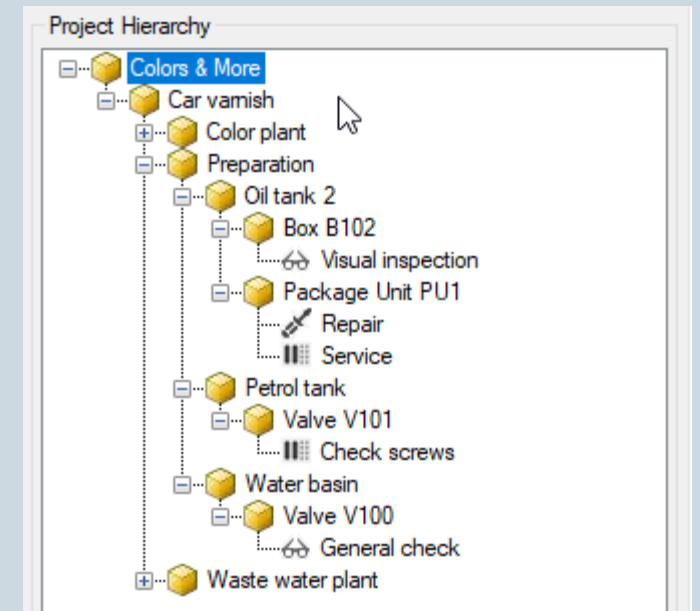
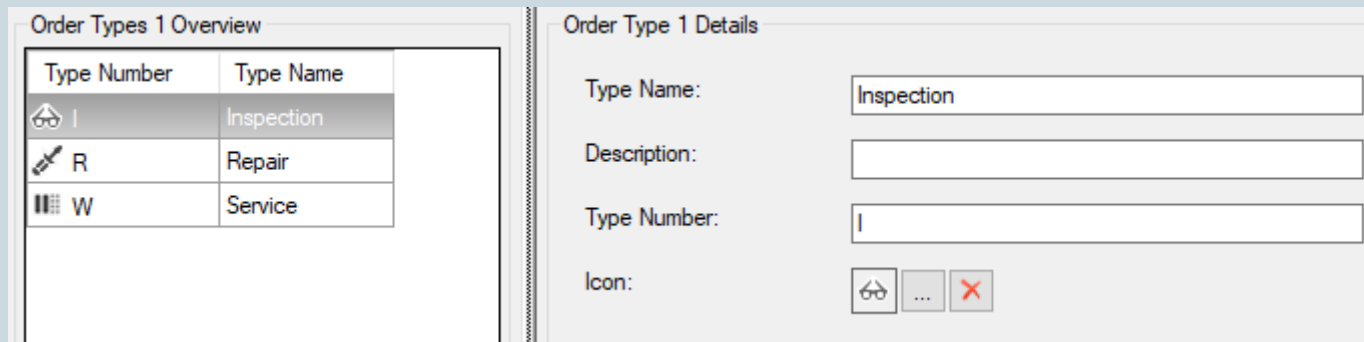
Depending on the report different placeholders can be used for the subject.



New in Version 10.5: Custom icons for Order Types And Notification Types

For Order Types 1 + 2 and Notification Types 1+ 2 an icon can be assigned. These icons can be made visible in the list views.

Furthermore the Project Hierarchy can be configured to show the Order Type 1 or Order Type 2 icon for Orders.



New in Version 10.5: Reports with full object hierarchy

Order Reports, Notification Reports and Request Reports contain a field “Path to Object”.

All parent Objects are listed which makes it easier to locate the Order, Notification or Request in the Project Hierarchy.

Order Report			
Order:	General check (Order 21)	Plant Object:	Valve V100 (117440525)
Description:	---	Plant Object Type:	Control (SIBS)
Order Type:	Maintenance	Operation Condition:	Off and opening
Order State:	Closed	Order Creation :	Automatic (maintenance)
Priority:	High	Creation:	Manual
Position:	PI	Acknowledged:	<input type="checkbox"/>
Planned order:	Completed (SIBS)	Type 1:	Inspection
Creation Date:	2020-09-08 10:00	Type 2:	Mechanically (S)
Proposed Date:	2020-09-08 10:00	Minimum Employee Count:	1
Planned Date:	---	User Data:	64-0000
OCC:	---	Safety Indication:	S4_S10
OHC:	---	Working Instruction:	W4_S10
Primary Qualification:	Commissariat	Environmental Measure:	General regulations within maintenance
Responsible Organization:	Colors & More		
Responsible Employee:	Bernhard, Ad. in Business (6219184)		
Cost Center:	---		
Path to Object:	Colors & More (16777225) / Car varnish (50331658) / Preparation (67108875) / Water basin (83886092) / Valve V100 (117440525)		
Order note:	The function check regularly for correct and reliable operation of the part (SIBS knowledge assessment) / Carry back order		

New in Version 10.5: SCADA system versions

The following SCADA system versions are supported:

- WinCC V7.2 / V7.3 / V7.4 / V7.4 SP1
- WinCC TIA V13 / V13 SP1 / V14 (Update 2 or higher) / V14 SP1 / V15
- **WinCC V7.5 (Update 1 or higher)**

New in Version 10.6: SCADA system versions

The following SCADA system versions are supported:

- WinCC V7.2 / V7.3 / V7.4 / V7.4 SP1 / V7.5 (Update 1 or higher)
- WinCC TIA V13 / V13 SP1 / V14 (Update 2 or higher) / V14 SP1 / V15
- **WinCC V7.5 SP1**
- **WinCC TIA V16**

New in Version 10.6: Operating system versions

Support of the following operation system versions:

- Windows 7 Professional, Enterprise, Ultimate
- Windows 8.1 Professional, Enterprise
- Windows 10 Professional, Enterprise
- Windows Server 2008 R2
- Windows Server 2016
- **Windows Server 2019**

New in Version 10.7: Notification Reports with required Materials of associated Order

The required Materials of an Order are also displayed with the Notification of that Order.

This allows you to procure Materials before the Order is due.

Notification Report

Notification:	Inspektion (Notification 9)	Plant Object:	NH4-measuring (117440547)
Description:	---	Plant Object Type:	Component (K000)
Notification Date:	17.08.2020 14:25	Planned Order:	Inspection(-16777201)
Notification State:	Enabled	Order:	Inspection (Order 16)
Priority:	Middle (M)	Responsible Organization:	Colors & More
Type 1:	---	Responsible Employee:	---
Type 2:	---	Acknowledged:	<input type="checkbox"/>
Path to Object:	Colors & More (16777225) / Car varnish (50331658) / Waste water plant (67108891) / Gauging container (83886114) / NH4-measuring (117440547)		

Tasks:

Name:	Order materials	Working Time:	1,50 Hours
Description:	---	Rate per Hour:	75,00 EUR/Hour
Qualification:	Authorized staff (A)	Costs:	112,50 EUR
Qualification Type:	Electrically (E)	Fix Costs:	0,00 EUR
Employee:	---	Total Costs:	112,50 EUR

Material Resources:

Material:	Power supply (137)	Quantity:	1 St
Description:	Measuring instrument	Cost per Unit:	42,00 EUR
		Costs:	42,00 EUR
		Fix Costs:	150,00 EUR
		Total Costs:	192,00 EUR

New in Version 10.8: SCADA system versions

The following SCADA system versions are supported:

- WinCC V7.2 / V7.3 / V7.4 / V7.4 SP1 / V7.5 (Update 1 or higher) / V7.5 SP1
- WinCC TIA V13 / V13 SP1 / V14 (Update 2 or higher) / V14 SP1 / V15 / V16
- **WinCC V7.5 SP2**



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