Release notes for PM5 version 5.17.0000 and earlier

Last updated 23-03-2022

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Installation and updates – general information

Please observe – when upgrading from PM5 client of **version 5.11.200 or earlier**, it is necessary to uninstall existing PM5 clients of previous version and then perform new installation of current version of the client.

For detailed instructions regarding installation and upgrade of PM5 to version 5.16.0000, please consult installation and upgrade manual, available at <u>https://pm5.dk/wp-</u> content/uploads/2017/06/Installation and upgrade manual PM5 5121000.pdf.

Please always remember to make a backup of your database before starting upgrade process of your PM5 system.

Purpose of this document

This document contains detailed information about major additions and changes in every version of PM5. Unlike the change log document, which provides quick overview of changes and bug corrections in each version, this document provides 'in depth' description of new features and extensions to PM5 client.

Release notes for version 5.17.0000

Supplier Currency

General description

Supplier currency is a new system variable for suppliers registered in PM5. used for two purposes:

- Specifying what currency is being used by individual suppliers.
- Providing conversion rates between PM5 :s system currency and other currencies specified and used in PM5.

In everyday use of PM5, supplier currencies have very limited impact – selected supplier currency simply indicates what currency is being used by supplier. Furthermore, supplier's currency code is displayed for informational purposes in associations between spare parts and suppliers.

The real impact of supplier currencies takes place in Purchase Module and in handling of purchase orders.

For users **not using** purchase module for handling of purchases of spare parts, it is safe to ignore supplier currencies. It is however recommended to at very least adjust currency code of System Currency to that used as company's primary currency.

Management of supplier currencies



Management of supplier currencies is handled in Administration Module.

System Currency

During new installation or upgrade to PM5 5.17.000, a single currency will be created. This currency has code SYS and is marked as **System Currency** for PM5.

System Currency has special purpose in PM5:

• Currency marked as System Currency cannot be deleted.

• Conversion Rate is set to 1.0000. This value **cannot** be changed.

• Conversion rates of other currencies in the system **always** refer to System Currency.

• The only property that can be changed for currency marked as System Currency is its Currency Code. It is recommended that Currency Code is changed to that of your enterprise's primary currency.

• All new Suppliers have their Currency set by

default to System Currency.

• After update to version 5.17, all Suppliers existing in the system will have their Currency set to System Currency.

System Currency is the default currency used throughout PM5. Price of all spare parts is always in System Currency, this cannot be changed.



After new installation or upgrade to version 5.17.000, it is strongly recommended to change Currency Code of System Currency to the currency used by user's company.

Edit Supplier	Currency	
Currency Co SYS		oversion Rate
Currency co	ency, can not l de can be char	
administrato	Save	Cancel
	odve	Cancel

To change Currency Code, double-click on row of System Currency. In form that is displayed on screen, change Currency Code to that of the default currency used by your company. For example, for Danish companies change currency code **SYS** to **DKK**.

Press button Save to save the changes.

Creating new Supplier Currency

To create new Supplier Currency, right-click on list with supplier currencies and in quick menu shown on the screen, select *New*...

New Supplier	r Currency				
Currency Co EUR		nversion Rate			
Description					
Euro, used by EU suppliers					
	Save	Cancel			

Currency Code – in this field, enter international currency code, consisting of three letters. For example USD for US Dollar, EUR for Euro, DKK for Danisk Crown, etc.

Conversion Rate – conversion rate must be a number bigger than 0 and smaller than 1000. Value entered in this field is used for conversions of spare part prices in this currency to **system currency**, used as default throughout PM5.

In this example, the conversion rate is set to 8.0000. This means that prices of spare parts supplied by suppliers using this currency will **in some**

circumstances be converted to system currency by multiplying supplier's spare part price by 8.0000. See section **Automatic Price Updates In Purchase Module** below for further details.

Description – Description note for the currency.

Press **Save** button to save new system currency.

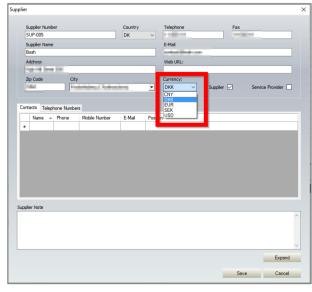
Press Cancel button to abort creation of new supplier currency.

Deleting Supplier Currency

To delete a supplier currency, select currency to be deleted and select *Delete* in quick menu shown on the screen.

If deleted currency is used as supplier currency for a supplier, PM5 will automatically update such supplier and set its currency to System Currency.

Supplier Currency and Suppliers



Supplier currencies specified in Administration module are used to specify currency used by individual suppliers registered in PM5.

Default supplier currency of suppliers is the System Currency.

System Currency is applied to all suppliers that are registered in PM5 at the time of upgrade to version 5.17.0000.

Supplier currency can be changed at any time in combobox **Currency**, as indicated in example picture to the right.

To save change of supplier's currency, press **Save** button.

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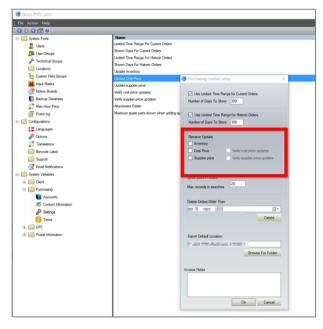
General description

In purchase module, automatic price updates function has been re-done and extended. Previously, spare part prices could be automatically updated when price for received spare parts in purchase orders was different than current spare part price.

From version 5.17, automatic price updates of spare parts based on input in purchase orders can be done on:

- Supplier's price specified in Supplier-Sparepart association
- Spare part price specified in Spare part details

Setting up automatic updates of spare part prices



Behavior of automatic updates of spare part prices is configured in Purchasing Module Setup form.

To access those settings, navigate to System Variables -> Purchasing -> Settings and double click anywhere in the right section of Administration module.

In section *Receive Updates* configure following parameters :

Cost Price – when this checkbox is checked in, the price of spare part will be updated if spare part's price entered in a purchase order is different from current spare part price.

Verify cost price update – this checkbox is active and can be checked in only when checkbox Cost Price is checked in.

When this checkbox is checked in, user will be requested to confirm any changes of spare part's cost

price that are triggered by price inputs in purchase orders in Purchase Module. If user declines such update, the spare part price will unchanged.

If checkbox Cost Price is checked in and checkbox Verify cost price update is not checked in, changes to spare part prices will be performed automatically in the background, without any indications to the user.

Supplier price – when this checkbox is checked in, the price of supplier's spare part price will be updated if supplier's spare part price entered in a purchase order is different than current supplier's spare part price specified in association between supplier and spare part.

Verify supplier price updates – this checkbox is active and can be checked in only when checkbox Supplier price is checked in.

When this checkbox is checked in, user will be requested to confirm any changes to supplier's spare part price that are triggered by price inputs in purchase orders in Purchase Module. If user declines such update, the supplier's spare part price will remain unchanged.

If checkbox Supplier price is checked in and checkbox Verify supplier price updates is **not** checked in, changes to supplier's spare part price in supplier-spare part association will be performed automatically in the background, without any indications to the user.

The four controls described above should give PM5 administrator complete control over this feature.

- To disable this function, uncheck all four checkboxes. This is default configuration immediately after installation/upgrade to version 5.17.0000.
- To enable automatic updates of spare part prices/supplier spare part prices based on prices entered in purchase orders in Purchase Module, check in checkboxes for updates of prices.

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• To enable user to approve/dismiss changes to **spare part prices** and/or **supplier spare part prices** triggered by input in purchase orders in Purchase Module, check in checkboxes for verification.

Automatic spare part updates in Purchase Module

Automatic spare part updates take place in purchase module, when working with order details of individual order.

Following conditions must be fulfilled for automatic price updates to be triggered:

- Updates of prices must be active. (See section above.)
- The purchase order must have a specified supplier.
- For updates of supplier's spare part price, an association must exist in PM5 for spare part and supplier.

Updates of supplier's spare part price

Update of supplier's spare part price is triggered when supplier price entered in order details for a spare part is different than current spare part price specified in association between supplier and the spare part.

Example:

Edit Association			×
Constanting No.		Supplier Name	
Supplier No SUP-101		Gilson	
Spare Part Details			
Group Seals		Manufacturer Raytheon Technologies	
Name		Dimension	
Piston Assembly w/Bellows, H3 He	ad		
Spare Part No SP-0017		Barcode 45648-4788	
Type No		Unit	
0017		pcs	
Product No	Note		
1111-2222-3333			^
Price 800.00			
Pre ed Supplier			~ ·
			Expand
	supplier price in :	supplier-	
<mark>spare pa</mark>	rt association.		
			Save Cancel
💀 Order Line			×
Purchase Order Details	Spare Part Details		
PO No	Spare Part No	Spare Part Note	
0000001068	SP-0017		
Requested By pm5	Type No 0017		
Attn / Ref	Spare Part Name		
	Piston Assembly w/Bell	lows, H3 Head	
Order Line Details			
Ordered Data Sant	Conditions	Taking Delivery Received By	Accounts
Date Sent	Discount %	pm5 ~	Account No Select ~
Quantity	Store	Quantity Received	Job No
0		~ 0	
Price	Store details:	Price	
900 EUR	None selected	0	Amounts
		Discounted Price	Ordered 0.00
Delivery Date	Supplier's pri	ce in order detail	Received
		om that in supplier-	hoorvou
	spare part as	ssociation.	
Order Line Note			
			0
			*
Edit spare part-supplier a	ssociation		Add Cancel
(m)			
Purchase Order Details	Spare Part Details		
PO No	Spare Part No	Spare Part Note	
0000001068	SP-0017		
Requested By	Type No 0017		
pm5	Spare Part Name		
Attn / Ref	Piston Assembly w/Bello	ws, H3 Head	
Order Line Details			
Ordered	Condti Supplier price	update ×	Accounts
Date Sent	Disco	ndata runnliar nriza?	Account No Select ~
Quantity	Cu Cu	irrent supplier price: 800.00 EUR	
Quantity 10	Store Ne	w supplier price: 900.00 EUR	Job No
Price	Store		
900 EUR	None	OK Cancel 0	Amounts
		Discounted Price	Ordered
			9,000.00
Delivery Date	Expected Del. Day	Date Received	Received
			0
Order Line Note			
			^
			×
Editor and an all			A44 0
Edit spare part-supplier as	sociation		Add Cancel

1. In supplier-spare part association between supplier *Gilson* and spare part *Piston Assembly w/Bellows, H3 Head*, spare part price is set to 800,00.

2. In Purchase module, a new order is created for supplier *Gilson*. Spare part *Piston Assembly w/Bellows*, *H3 Head* is added to the order.

Supplier's price in order details for *Piston Assembly w/Bellows, H3 Head* is set to 900.00.

When user saves the new order line then:
* if Verify supplier price updates is enabled, user will be prompted to confirm the update of supplier's spare part price in supplier-spare part association.

* if **Verify supplier price updates** is NOT enabled, the update of supplier's price in supplier-spare part association will be performed automatically.

If there is no corresponding supplier-spare association, this procedure does not take place.

Updates of spare part price

Updates of spare part's cost price is triggered when spare part cost price entered in order details is different from the cost price entered in spare part's detail form.

Please observe – if supplier's currency is **other** than System Currency, then the spare part cost price entered in order details **will be multiplied by current conversion rate of supplier's currency** before it is compared with spare part's current cost price.

Example:

0000001068

Attn / Re

Order Line Ordered Date Sent

Quantity

Delivery Date

Order Line Not

SP-0017

re Part N

Conditions Discount %

Store details:

ted Del. Da

Store

			ste					
Svst	em Currency Code is	0.5425						
DKK	All spare part prices	8.0000						
are i	n DKK.	0.8000						
die i	T DITE.	9,0000						
er								
ci								
Supplier Number SUP-101		Country		elephone 55 878979		Fax	0700700	
		DK				555 8	9798789	
Supplier Name				-Mail				
Gilson				contact@gilson.n	n			
Address			1	Veb URL:				
Main Street 8				www.gilson.com				
Zip Code	City		C	urrency:				
1754	København V Hedebyga	de		EUR ~	Supplie		Contine D	rovider 🗹
					ooppire	~ 🗆	00111001	
Name 🔺 Pl	e Numbers none Mobile Number	E-Mail	Postic					
	none Mobile Number				~			
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Name A Pl	none Mobile Number			set to Eur	<u>°0.</u>			
Name A Pl	none Mobile Number			set to Eur	<u>o.</u>			
Name A Pl	none Mobile Number			set to Eur	°O.			Ernand
Name A Pl	none Mobile Number			set to Eur	°0.			Expand
Name A Pl	none Mobile Number			set to Eur	°O.	Str		
Name A Pl	none Mobile Number			set to Eur	ro.	Sav	re	Expand Cancel
Name A Pl	none Mobile Number			set to Eur	°O.	Sav	10	

Spare Part Note

Taking Delivery

Select

9,000.00

In purchase order, the spare part price is set to 900 Euro, which is different price than that specified in spare part's details.

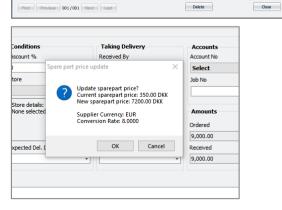
pm5

1. Currency code of System Currency is DKK. This means that all spare part prices are considered to be in Danish Crowns.

2. Supplier's currency is set to Euro.

3. In Purchase module, the cost price of the spare part *Piston Assembly w/Bellows, H3 Head* is set to 900.00.

Since the currency of supplier *Gilson* is set to Euro, the spare part cost price entered in order details is converted to Danish Crowns using the current conversion rate specified for Euro, before being compared with current cost price for spare part *Piston Assembly w/Bellows, H3 Head.*



4. When user saves new order line, then:
* if Verify cost price updates is enabled, user will be prompted to confirm the update of spare part's cost price in spare part's detail information.

* if **Verify supplier price updates** is NOT enabled, the update of spare part's cost price will be performed automatically.

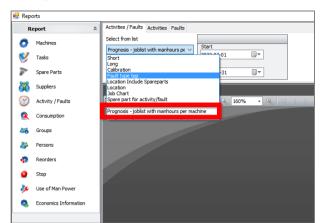
Changes of spare part cost price are registered in: * Spare part's cost price history. If multiple changes of

spare part are done on same date, **only the last spare part price is registered on that date.** * If even log detailed log is active, spare part cost price change is registered in event log.



Report Prognosis – Job list with manhours per machine

This report lists all jobs that are planned or prognosed to take place during time period specified in report settings.



Report *Prognosis – Joblist with manhours per machine* is available in Report Module, section Activities/Faults, pane Activities/Faults.

The report includes following information:

- Unfinished activities that are scheduled to be done during specified time period.
- Future activities that would be scheduled to be done during specified time period **if** existing unfinished activities are finished on scheduled date.
- Unfinished faults with specified expected finish date that is within time period specified for the report. **IMPORTANT** faults that lack expected finish date are **not** included in this report.

The report can be filtered on two parameters:

- Time period specified in fields Start and End.
- Location, selected in Filter element of Report module. Default location is top location PM5 location structure – when this location is active, the report will list all valid activities/faults for all machines in the system. If one of sub-locations is selected, the report will list all valid activities/faults for machines located at selected location and all of its child locations.

Prognosis technique used for this report is different from prognosis used in older reports.

- It is quicker than prognosis in other reports.
- It includes prognosis for activities that are scheduled with assistance of measured parameters.
- It is 100 percent dynamic and independent of Prognosis Tool. Prognosis Tool does not need to to be run for this report to provide exact information.
- User can select any time period, without any restrictions on time period.

Example:

	Prognosis - jo	blist with manhours per machine
Prognosis	4/1/2022 - 5/31/2022	Time period covered by report
Location	Outdoors	Location used for filtering (if any is used)
Rewinder (9039	182)	
4/4/2022	Fault with specified	'expected finish date' and set to 4th april 2022.
Fault Technical Group Priority Code	Electric failure Unspecified	Type Electric failure To Be Signed By OPT Frequency 0
4/17/2022		
Task Technical Group Priority Code Planned manhours KB	200 hours service Blacksmith 1 5 consumption 2	Type Planned servicecheck To Be Signed By KB Frequency 20 (Counter 125) First instance of activity controlled by a
4/20/2022		measured parameter.
Task Technical Group Priority Code Planned manhours DVS JP	30 days service Blacksmith 1 5 consumption 0.25 1	Type Lubrication To Be Signed By KB Frequency 30
5/7/2022	1	
Task Technical Group Priority Code	200 hours service Blacksmith 1	TypePlanned servicecheckTo Be Signed ByKBFrequency20 (Counter 125)
Planned manhours	consumption	Second instance of activity controlled by a
5/20/2022	2	measured parameter.
Task Technical Group Priority Code Planned manhours	•	Type Lubrication To Be Signed By KB Frequency 30
DVS JP	0.25 1	
5/27/2022	-	
Task Technical Group Priority Code Planned manhours	-	Type Planned servicecheck To Be Signed By KB Frequency 20 (Counter 125) Third instance of activity controlled by a
KB	2	measured parameter.

Example above is created on 23 March 2022. It covers time period between 1 April 2022 and 31 May 2022, as indicated in report header.

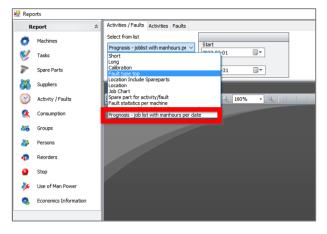
Report lists jobs for all machines at location Outdoors and all of its child locations. For sake of convenience, only one machine is present at specified location.

- The report groups activity/fault records per machine and then per scheduled date. For activities already existing in the system, it is scheduled done date. For existing faults, it is expected finish date. For predicted activities, it is scheduled date based on recurrence period specified in the task to which they belong.
- First record in example picture is a fault. This is indicated by keyword *Fault* shown in the top row of the record.
- Remaining jobs in the example are activities.
- Field frequency contains information about recurrence period for activity. If scheduling of activity is controlled by a measured parameter, name of controlling measured parameter is included in frequency information.
- If manhours consumption is specified for the job, then this information is included in individual records. Initials of personel assigned for the job and extimated manhours consumption is then listed, one person per row.



Report Prognosis – Job list with manhours per date

This report lists all jobs that are planned or prognosed to take place during time period specified in report settings. It is essencially same report as report Prognosis – Joblist with manhours per machine; the only difference is that the grouping records in this report is done first on Date and then on machines.



Report *Prognosis – Joblist with manhours per date* is available in Report Module, section Activities/Faults, pane Activities/Faults.

Functionality and content of this report is identical to that of report Joblist with manhours per machine. User is referred to section above for details.

Example:

	Prognosis - j	ob list with manhour	rs per date
Prognosis	4/1/2022 - 4/30/2022		
Location	Outdoors		
4/4/2022			
Rewinder (90398	2)		
Fault Technical Group Priority Code	Electric failure Unspecified	Type To Be Signed By Frequency	Electric failure OPT 0
4/6/2022			
3 Montini Truck (9	9802,2)		
Task Technical Group Priority Code Planned manhour	14 days service Blacksmith Within 48 hours	Type To Be Signed By Frequency	Mandatory servicecheck DVS 14
JP	3		
OPT	1		
4/17/2022			
Rewinder (90398	2)		
Task Technical Group Priority Code Planned manhour	200 hours service Blacksmith Within 24 hours s consumption	Type To Be Signed By Frequency	Planned servicecheck KB 20 (Counter 125)
КВ	2		
4/20/2022			
Rewinder (90398	2)		
Task Technical Group Priority Code	30 days service Blacksmith Within 24 hours	Type To Be Signed By Frequency	Lubrication KB 30
Planned manhour DVS	0.25		
JP	1		
3 Montini Truck (9	9802,2)		
Task Technical Group Priority Code Planned manhour	14 days service Blacksmith Within 48 hours s consumption	Type To Be Signed By Frequency	Mandatory servicecheck DVS 14
JP OPT	3 1		



Example above is created on 23 March 2022. It covers time period between 1 April 2022 and 31 May 2022, as indicated in report header.

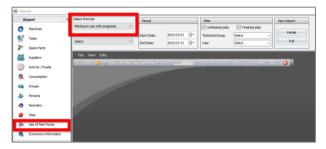
As can be seen, the report is essentially the same as report Job list with manhours per machine. For detailed information about content of of each record, user is referred to section above.

The report differs from that above in one, crucial respect – its records are grouped first on date, then on machine. This difference makes it suitable as an overview of jobs that are to be performed in a specific time period.

Report Manhours consumption per person and date

This report provides an overview of personel's real and estimated use of manhours during specified time period. The report includes both historical data and provides a prognosis of use of manhours. Therefore, it can be used for:

• Overview of use of manhours for jobs that are registered/done/in progress of being finished.



• Prognosis of manhours consumption in the future.

Report *Manhours consumption per person and date* is available in Report Module, section Activities/Faults, pane Activities/Faults.

The report provides a list of jobs where users have registered either estimated or real manhours consumption. The list is grouped per user, month and date.

Report can be filtered on following parameters:

- Time period specified in fields Start Date and End Date.
- Activity/Fault finished status, depending on whether or not checkboxes *Unfinished jobs* and *Finished jobs* are checked in.
- Technical group selection of specific technical group will filter the job list to those assigned to that group.
- User selection of specific user will filter the job list to only those where the user has registered estimated/real consumption of manhours.
- Location, selected in Filter element of Report module. Default location is top location PM5 location structure when this location is active, the report will list all valid activities/faults for all machines in the system. If one of sub-locations is selected, the report will list all valid activities/faults for machines located at selected location and all of its child locations.

Example A:

		Manhours consum	ption per person a	nd date				
Prognosis	3/1/2022 - 5/31/2022							
Location	All							
Filter	User: Knud Bertelsen							
Knud Bertelser	1							
Machine Name	Machine No	Location	Job name	Job type	Est.	Reg.	Finished	Fault
March 2022								
Thursday 17 Mar								
Rewinder, cut	903982.02	Rewinder - Cutting	Mechanical	Mechanical	0	0.75	Х	Х
Monday 21 March								
Edge and tightness Rewinder	test st.2 905543.02 903982	Mounting - 02 Outdoors	30 days service 90 days service	Lubrication Lubrication	0 0.5	3 0	х	
Thursday 24 Marc	ch 2022							
Rewinder, cut	903982.02	Rewinder - Cutting	Ball dosage error	Ball dosage error	0	7		х
Monday 28 March	1 2022							
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
April 2022								
Sunday 17 April 2								
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
May 2022								
Saturday 7 May 2								
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
Friday 27 May 20								
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
				Total	8.5	10.75		

Example above a part of the report created on 23 March 2022. It covers time period between 1 March 2022 and 31 May 2022, as indicated in report header.

Report lists jobs for machines at all locations where user Knud Bertelsen has registered estimated or real use of manhours.

The job list is grouped per month and then individual date.

Each record consists of basic information about machine, machine location, job name, job type, estimated and real use of manhours.

In column *Finished*, an **X** indicates that the job is reported as finished.

In column Fault, an X indicates that the job is a fault.

Sum of estimated and real manhours registered for the user is shown for each user included in the report.

Example B:

Manhours consumption per person and date								
Prognosis	6/1/2022 - 8/31/2022							
Location	All							
Filter	User: Knud Bertelsen							
Knud Bertel	sen							
Machine Name	e Machine No	Location	Job name	Job type	Est.	Reg.	Finished	Fault
June 2022								
Thursday 16 J	une 2022							
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
Sunday 19 Jur	1e 2022							
Rewinder	903982	Outdoors	90 days service	Lubrication	0.5	0		
July 2022								
Wednesday 6	July 2022							
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
Tuesday 26 Ju	ly 2022							
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
August 2022								
Monday 15 Au	gust 2022							
Rewinder	903982	Outdoors	200 hours service	Planned servicecheck	2	0		
				Total	8.5	0		

This example shows the report for same user as in example A. However, this report is for period between 1 June and 31 August 2022, which is a couple of months from the date when this report was generated. Therefore, all the jobs listed for selected user are **prognosed activities** that will occur during specified time period.

Content of this report can be used for an overview of jobs that will take place in the future and require manhours consumption for the user. Such overviews should be useful for example when planning for vacation/holiday periods.



💀 Spare Parts Quick Search × Spare Part No Spare Part Name Type No Secondary ID Group \sim Barcode Supp. part no pare Part Not Manufacturer Name Position I Position II Position III Spare Part Name Type No Secondary ID Barcode Dimension 4 L10, bought via Intranet Sattelitestock dept. 2 DSNU-10-50-P-A Stock B3 Aircylinder Festo 93131023 Aircylinder Festo ADVU-12-20-A-P-A 93131024 Aircylinder Festo ADVUI -12-20-P-A 98181396 Ballbearing SKF 6005 285 ø25x47x12 981X1410 Ballbearing SKF 6007 2RS ø35x62x14 984F9269 Batterie Siemens PS S5-115U/H 6 EW 1000-7AA ø25x50 W79084-E1001-B2 Battery for OP Manel 5705150480546 1 xx 10100 1x0x 01 BJ-3282 BJ-Snekkegea B-445 0 820 006 103 6566343833769 x18 Bosch Magnetvent 93652501 Lamp 01-04-23-00 93219327 Magnetvent Festo MEH-5/2-D-1/C R 1/8 932L9328 Magnetvent Festo MFH-5-1/8-B-VI-X R 1/8" 932L9329 MFH-5/3-GB-VI R 1/8" Magnetvent Festo R 1/4" 932L9363 Magnetvent Festo MFH-5-1/4-S 92326601 No contact sencor Balluf BES 516-371-G-S-49-C ø6,5x54,5 PNP 2mm no contact sencor Balluf 92326602 BES 516-356-E4-Y-S4 M12x1x35,5 PNP 4mm 984F8510 No contact sencor Balluf BES 516-356-BO-C-03 M12x136,5 PNP 4mm 984F8511 No contact sencor Balluf BES 516-325-BO-C-03 M12x1x60 PNP 2mm Page 1 showing 1 to 20 of total 29 Ok Cancel

Spare Parts Quick Search – search on stock locations

Quick search tool for spare parts has been extended – users can now perform quick searches on spare part stock location and spare part stock labels.

Searches on store are done by selecting one of the stores listed in combobox Store. This search will return a list of all spare parts with at least one stock located at selected store.

Searches on stock labels are done by entering value in fields Position I, Position II and Position III. This action will return a list with spare parts that have a stock where corresponding label contains entered search value.

Fields Store, Position I, Position II and Position III are independent from each other – user can make searches using any of them, singly or in combination with each other, as well as together with other search fields in quick search tool.

Release notes for PM5 version 5.16.0000

Event log viewer

General description

Event log viewer is a new tool enabling user to access event log directly from the client. Functionality of the tool is exactly the same as that of event log report and shows, based on active filter parameters, data registered in event logs for machines, tasks, spare parts, suppliers and activities/faults.

Please remember that event log registers events only when it is activated. For details regarding activation of this feature see relevant sections in release notes for versions 5.14.0000 and 5.15.0000.

Access to event log viewer

Access to Event Log Viewer is controlled with new user credential called "Access to event log viewer". After new installation or upgrade to PM5 5.16.000, this credential is **inactive** and needs to be manually activated for all user groups that are to have access to this feature.

To grant "Access to event log viewer" to a user group, do following:

- Open Administration module.
- Select User Groups section.
- Select a user group for editing.
- Select sub-pane Privileges and check in checkbox for credential "Access to event log viewer".
- Press "OK" to save changes.

General	Privileges	Locations Tabs			
Add		Privilege	Description	*	
	V	Remove activity news marking	The privilege to mark new (bold) activities as noted (not old)		
V		Fault privilege	Privilege to report faults into the system and to acknowledge for solved faults.		
	V	Remove fault news marking	The privilege to mark new (bold) faults as noted (not old).		
	V	Approval	Gives privilege to approve faults, which requires approval.	 י	
	V	Storage privilege	All privileges in main tab dialogs: "Spare Parts" and "Suppliers". Also in inventory locations		
	V	Purchase/Spare part	Gives all privileges in purchase module, spare parts and suppliers tab, and inventory locations		
	V	Attachment	Privilege to add and edit all attachments.		
	V	Advance Pocket PC	Advance user of pocket pc		
	V	Basic Pocket PC	Basic pocket pc user		
	V	Replace Spare Parts	Privilege to replace spare parts		
	V	Merge Spare Parts	Privilege to merge spare parts		
	V	Delete Spare Part	Privilege to delete spare parts.	E	
		Post Master	Can edit/delete notes posted by other users.		
		Allowed to delete user defined report	Allowed to delete user defined report templates		
	1	Access to spare part price records	Access to spare part price records		
	1	Delete spare part with stocks	Allows deletion of spare parts without first having to remove its stocks.		
	1	Created and delete system filter	Allows creation and deletion of system filters.		
		Edit finish date after job is finished	Allows change of finish date in finished jobs		
	7	Access to event log viewer	Grants access to event log viewer in tools section	Ļ	
				-	

Once this action is performed, access to Event Log Viewer is enabled immediately. Users granted this credential can now open the tool from Tools menu in PM5 Windows client.

PM5 II File Viet	¢I . ● I 📰 🌏 🍸 🗢 w Tools Filter	Help		
 Administration Purchase 	 Measured Parameters Notice Boards Event log 	Reports	V Prognosis Date Processed:	
Rewin	trol	903982.01.01 903982.01.02 903982.01.03	Rewinder , finisher Rewinder, straighteningroll Rewinder, feeder	
Cutting		903982.02 905539 905539.00 905542	Rewinder, cut Leaksearch Ballclosing Leaksearch Ballclosing - c Fillupstand	

Event log viewer tool

	tions							
_	cord Selection							
H	Period		Ir	ndude Record Type Indude Ev	ent Type	Includes Text 554		
	Start Date:	2021-02-15	[Machines New pos	its	554		
			[✓ Tasks ✓ Changes	5			
L	End Date:	2021-02-15		Spare Parts Deletes				
L				V Suppliers				
L				V Jobs			Search	
Ve	ent log ID	Date	Type	PM5 Object ID	Event	Edited Field	Description	Done by
		2/15/2021 11:15 AM		116	CREATE		ACTIVITY - Belongs to task 12 months batterychange CPU101U/R,115U/H/FCPU516, machine 905542 - Fillupstand	pm5
		2/15/2021 11:15 AM	Job	111	CREATE		ACTIVITY - Belongs to task 14 days planned service, machine 905542 - Fillupstand	pm5
_		2/15/2021 11:15 AM	Job	115	CREATE		ACTIVITY - Belongs to task 3 months planned service, machine 905542 - Fillupstand	pm5
		2/15/2021 11:15 AM	Machine	Fillupstand - 905542	UPDATE			pm5
		2/15/2021 11:15 AM	Machine	905542	UPDATE	Machine Active	Machine Active> Active	pm5
		2/15/2021 11:16 AM	Machine	Edge and tightnesstest - 905543	UPDATE			pm5
		2/15/2021 11:16 AM	Machine	905543	UPDATE	Machine Barcode	Machine Barcode>	pm5
		2/15/2021 11:16 AM	Machine	905543	UPDATE	Measured Parameter	Measured Parameter>	pm5
		2/15/2021 11:16 AM	Machine	905543	UPDATE	Machine Active	Machine Active> Inactive	pm5
		2/15/2021 11:16 AM		119	CREATE		ACTIVITY - Belongs to task 12 months batterychange CPU101U/R, 115U/H/FCPU516, machine 905543 - Edge and tightnesstest	pm5
		2/15/2021 11:16 AM		120	CREATE			pm5
		2/15/2021 11:16 AM		121	CREATE			pm5
_		2/15/2021 11:16 AM			UPDATE			pm5
		2/15/2021 11:16 AM			UPDATE	Machine Active	Machine Active - Inactive> Active	pm5
		2/15/2021 11:19 AM		61	UPDATE			pm5
9		2/15/2021 11:19 AM		121	UPDATE		ACTIVITY - Belongs to task 17 days planned service, machine 905543 - Edge and tightnesstest	pm5
3 4		2/15/2021 11:19 AM		122	CREATE			pm5
•		2/15/2021 11:19 AM 2/15/2021 11:19 AM		120	UPDATE			pm5 pm5
		2/15/2021 11:19 AM 2/15/2021 11:19 AM		123	UPDATE			
_		2/15/2021 11:19 AM		119	CREATE		ACTIVITY - Belongs to task 12 months batterychange CPU101U/R,115U/H/FCPU516, machine 905543 - Edge and tightnesstest ACTIVITY - Belongs to task 12 months batterychange CPU101U/R,115U/H/FCPU516, machine 905543 - Edge and tightnesstest	
3 4		2/15/2021 11:19 AM		124	UPDATE			pm5
1		2/15/2021 11:19 AM	500	110	OPDATE		ACTIVITY - Delongs to task 12 months batter yorking CPOT010(K, 1150/n/PCPO510, machine 305542 - Hillpstand	pino

Event log consists of two sections.

Filter section is at the top of the form. It allows user to select a subset of event log records that are to be displayed. Filter section has following elemets:

- Period
 - Start date specifies starting date for the records in search result.
 - End date specifies end date for the records in search result.
- Include Record Type
 - Machine when checked in, the search result will include records related to machines.
 - Task when checked in, the search result will include records related to tasks.
 - Spare Parts when checked in, the search result will include records related to spare parts.
 - Supplier when checked in, the search result will include records related to suppliers.
 - o Jobs when checked in, the search result will include records related to activities and faults.
- Include Event Type



- New posts when checked in, the search result will include events related to creation of new posts in PM5.
- Changes when checked in, the search result will include events related to changes in existing posts in PM5.
- Deletes when checked in, the search result will include events related to deletion of posts in PM5.
- Include text when a text is inserted in this field, the search result will display only the posts where this text is present in columns PM5 Object ID or Description.

To display event log records, press button "Search".

Please observe that **at least one of record types and at least one of event types** needs to be checked in to be able to perform a search in event log.

Search output is displayed in a table below the filter. Data displayed in that table show all event log records that correspond to the search parameters selected at the time "Search" button has been pressed.

Single record in event log table consists of:

- **Registered** date and time of the event
- Section main data set group to which the record belongs
- **ID** for machines, spare parts and suppliers, the ID and name. For tasks and activities, the name and machines to which task/activity/fault belongs.
- **Event** type of event. Currently there are three types of events:
 - **CREATE –** creation of new post
 - **UPDATE** editing/changes in existing record
 - **DELETE** deletion of record
- **Description** if applicable, additional information about the event.

Done by – initials of user performing the action.

Event Log View	ver		- Anne			14.000	-2
Actions							
Record Selection							
Period		Indi	ude Record Type	Include Event Type	Includ	es Text	
Start Date:	2021-02-15		Machines	Vew posts			
			Tasks	Changes			
End Date:	2021-02-15		Spare Parts	✓ Deletes			
		V	Suppliers				
			Jobs			Search	
Event log ID	Date	Туре	PM5 Object ID		Event	Edited Field	
1	2/15/2021 11:15 AM	Job	116		CREATE		
2	2/15/2021 11:15 AM	Job	111		CREATE		
3	2/15/2021 11:15 AM	Job	115		CREATE		
	2/15/2021 11:15 AM	Machine	Fillupstand - 905542		UPDATE		
	2/15/2021 11:15 AM	Machine	905542		ur	Machine Active	
			110	Copy selected rows to clipt		-	
			114	Copy selected rows to clipt	loard		
5	2/15/2021 11:16 AM	Job	88		DELETE		
	2/15/2021 11:16 AM	Task	12 months battery	ange CPU101U/R,115U/H/FCPU516	UPDATE	Task Active	
	2/15/2021 11:16 AM	Task	3 month planned ser	vice	UPDATE	Task Active	
1	2/15/2021 11:16 AM	Machine	Edge and tightnesste	est - 905543	UPDATE		
j	2/15/2021 11:16 AM	Machine	905543		UPDATE	Machine Active	
,	2/15/2021 11:16 AM	Job	119		CREATE		
3	2/15/2021 11:16 AM	Job	120		CREATE		
)	2/15/2021 11:16 AM	Job	121		CREATE		
•	2/15/2021 11:16 AM	Task	12 months batterych	ange CPU101U/R,115U/H/FCPU516	UPDATE	Task Active	
5	2/15/2021 11:16 AM	Task	3 month planned ser	vice	UPDATE	Task Active	
5 (2/15/2021 11:16 AM	Task	17 days planned ser	vice	UPDATE	Task Active	•
5 records							

Contents of the search table can be selected and copied into clipboard. To do this:

• Mark rows that are to be copied into clipboard

• Click on right mouse button to open quick menu.

• Select command "Copy selected rows to clipboard".

Selected rows, including the headers, are now copied into clipboard and can be pasted somewhere else, like for example an email or an Excel- document.

Supplier details form – changes in contact information data

	Supplier Number		Cour	itry	Teleph	hone	Fax	
1	190875		DK	•	98765		741852963	
s	Supplier Name				E-Mail			
1	ABC				info@	abc.dk		
	Address				Web L			
E	Big Street 26			_	www.	abc.dk		
	Zip Code 9550	City Mariager		•	Suppl	ier 🔽	Service Provider	V
_	tacts Telephone	hone I	Mobile Number	E-Mail		Position		
Þ		566677778888 1 566677779999 2				Sales representative Customer support		
uppl	lier Note							

	Supplier Number	Country	Telephone	Fax
	76962600	DK -	 76962600 	76971385
s	Supplier Name		E-Mail	
1	ABC		info@abc.dk	
	Address		Web URL:	
E	Big Street 28		www.abc.dk	
	Zip Code City			
4	4600 Køge	•	 Supplier 	Service Provider
	Mobile		 77775555333 	
Con	tacts Telephone Numbers			
	Stationary		▼ 55544443333	
-	Mobile			
٠				
			•	
uppl	ier Note		•	

General description

In Supplier details form, a modification has been done to sections Contacts and Telephone Numbers.

Contacts and Telephone Numbers lists are now placed in a tabulated panel. This allows us to make those two tables larger and more readable.

Contacts table has been extended. Individual contact records now consists of following data:

- Name
- Position (new field)
- Phone
- Mobile Number (new field)
- Email (new field)

Clarification – no changes have been made to pre-existing data in tables Contacts and Telephone Numbers. The changes made are done only to the layout of the form.

Changes and new functionality in Purchase Module

General description

Following changes have been done in Purchase Module:

- Orders can now be created without having to specify intended supplier.
- Spare parts can now be assigned to an order without having to first create an association between spare part and supplier.
- Associations between spare parts and supplier can now be created while creating orders.
- Attachments belonging to supplier and spare parts can now be viewed from within purchase module.

Order creation

Purchase order			X
Attn / Ref Supplier Name Select Supplier No Select	Names Requested By pm5 Ordered By pm5 Attention pm5	Dates Created 2/15/2021 Sent Closed	Related invoices
State Open Account Number Select Currency	Select	City City	Related order notes
Order Note		Ţ	Taxes VAT SIN Save

In version 5.15.0000, selection of specific supplier was required when creating new order. This requirement has now been dropped. Now, orders can now be created and handled without having to specify a supplier.

Differences between orders with and without specified supplier

- Spare parts in orders without specified supplier will have to have their price specified manually.
- Requisition forms generated for orders without specified supplier will **not** include any supplier related information (such as addresses, supplier's prices).
- In orders with specified supplier; if an association is specified between selected supplier and the spare part that is added to the order, price specified in that association will be used as price used in the order. This price can be adjusted manually at later time.
- In orders with specified supplier; if the spare part selected for the order **doesn't have** an association with order's supplier, such association can now be created as part of order creation process. If such association is created at that time, the supplier's price specified in it will be used as price used in the order. This price can be adjusted manually at later time.

Please observe that a supplier can be selected for an order at any time. Thus, user can create an order without specifying a supplier and select which spare parts are to be included in it. Supplier for such order can be selected at any time in order's details form.

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Selection of spare parts for an order

Form for selection of spare parts for an order has been redone in version 5.16.0000. It is slightly different for orders with and without specified supplier.

Selection of spare parts for an order without specified supplier

Filter Group		Dimension		
Select		Bar Code		
Name		Bar Code	_	
Spare Part No		Unit	_	
Type No		Manufacturer		
		Select	•	
		All suppliers		
Spare Part No	Name	Type No	In Store On Stock	Minimum
ter search criteri	a to initialize search	,		

Addition of spare parts to an order without specified supplier works in same way as in previous versions.

There is however one important difference - when spare part addition form is opened, the spare part list is always initially empty. User needs to enter at least one character in one of search fields to bring up a list of spare parts that correspond to entered search parameter. The initial state of spare part addition form is indicated by text "Enter search criteria to initialize search".

Stock Minimum
stock Minimum
1
1
0
0
0
1
1
0

In picture to the left, a search for spare parts having '98' in their spare part number has returned 9 spare parts. User can now select any of those spare parts for addition to the order.

Selection of spare parts for an order with specified supplier

Filter						
Group			Dimension			
Select		-	Bar Code			
Name		-	Bar Code	_		
Spare Part No			Unit	_		
Type No			Manufacturer			
			Select	•		
			All suppliers			
Spare Part No	Name	_	Type No	In Chara	On Stock	Moimum
86U2058	Aircylinder Festo		DSNU-10-10-P-A	JI Store ✓	1	0
86U2060	Aircylinder Festo		DSNU-10-50-P-A	v	1	0
861/2061	Aircyinder Festo		ADVU-100-30-P-A	V. 1	1	0
3131023	Aircylinder Festo		ADVU-12-20-A-P-A		1	0
3131024	Aircyinder Festo		ADVUL-12-20-P-A	v	1	0
321.9327	Magnetvent Festo		MFH-5/2-D-1/C		1	0
32,9363	Magnetvent Festo		MFH-5-1/4-S	v	1	0
820 006 103	Bosch Magnetvent		8-445	V	29	8
spare parts foun		-		_		

When an order has a specified supplier, the spare part selection, when it is first opened, looks and acts slightly differently.

• The form header shows name of supplier selected for the order.

• The spare part list lists spare parts that are associated with supplier selected for the order.

• Checkbox with label "All suppliers" is displayed in search section of the form.

As long as checkbox "All suppliers" is not checked in, spare part searches will be limited only to spare parts that are associated with the supplier selected for the order.

Filter Group		Dimension				
Select	•					
Name		Bar Code	_			
Spare Part No		Unit				
Type No	_	Manufacturer	-			
	_	Select	•			
		All suppliers				
Spare Part No		 Type No 		tore On Stock	Minimum	^
184F8510	No contact sencor Balluf	BES 516-356-BO-C-03	2			
984F8511	No contact sencor Balluf	BES 516-325-BO-C-03	5		1	
84F8509	No contact sencor Balluf	BES 516-324-EO-C-03			1	
986U2058	Aircylinder Festo	DSNU-10-10-P-A	5		0	
986U2060	Aircylinder Festo	DSNU-10-50-P-A			0	
986U2061	Aircylinder Festo	ADVU-100-30-P-A	5		0	E
93131023	Aircylinder Festo	ADVU-12-20-A-P-A			0	
93131024	Aircylinder Festo	ADVUL-12-20-P-A	5		0	
9321.9327	Magnetvent Festo	MFH-5/2-D-1/C	5	1	0	
9321.9363	Magnetvent Festo	MFH-5-1/4-S	8	1	0	
981X1396	Balbearing SKF	6005 2RS	9		1	
981X1397	Service oil 30dg	6000 2Z			1	
92326601	No contact sencor Balluf	BES 516-371-G-S-49-C	5		1	
92326602	no contact sencor Balluf	BES 516-356-E4-Y-S4			1	
5512	No contact sencorBalluf	BES 516-377-S4-C	E	0	0	
95322720	Vacuumpump, Edwards	E2m 1,5	5		0	
184F9269	Batterie Siemens PS SS-115U/H	6 EW 1000-7AA	5	0	0	
5 spare parts fou	nd.					

If user wishes to add to the order a spare part that is **not** associated with order's supplier, then the checkbox "All suppliers" needs to be checked in. This action enables user to search for spare parts from the complete list of spare parts present in the system.

Checking in checkbox "All suppliers" will refresh the list of spare parts and trigger new search, based on search parameters entered in search fields. If no search parameters are present, a complete list of spare parts in the system will be shown in the search result list. **However, see below for limitations on spare part searches.**

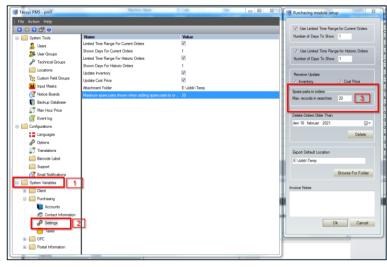
Limitations for spare part searches in spare part selection form

In systems with several hundreds or thousands of spare parts, handling of searches resulting in large spare part lists can take long time. For that reason, as of version 5.16.0000, there is an upper limit for how many spare parts will be included in a search for spare part selection form.

Group		Dimension				
Select	•					
Name		Bar Code	_			
Spare Part No		Unit	-			
Type No	_	Manufacturer	_			
		Select	-			
		All suppliers				
Spare Part No	Name	 Type No 	In Store	On Stock	Minimum	^
84F8510	No contact sencor Balluf	BES 516-356-80-C-03	V		1	
84F8511	No contact sencor Balluf	BES 516-325-80-C-03	V	2	1	
84F8509	No contact sencor Balluf	BES 516-324-EO-C-03	V	2	1	
186U2058	Aircylinder Festo	DSNU-10-10-P-A		1	0	
186U2060	Aircylinder Festo	DSNU-10-50-P-A	V	1	0	
186U2061	Aircylinder Festo	ADVU-100-30-P-A	V	1	0	
3131023	Aircylinder Festo	ADVU-12-20-A-P-A	V	1	0	
3131024	Aircylinder Festo	ADVUL-12-20-P-A	V	1	0	
321.9327	Magnetvent Festo	MFH-5/2-D-1/C	V	1	0	
321.9363	Magnetvent Festo	MFH-5-1/4-S	V	1	0	
81X1396	Balbearing SKF	6005 2RS	V	2	1	
81X1397	Service oil 30dg	6000 2Z	V	2	1	
2326601	No contact sencor Balluf	BES 516-371-G-S-49-C	V	0	1	
2326602	no contact sencor Balluf	BES 516-356-E4-Y-S4	V	2	1	
5512	No contact sencorBalluf	BES 516-377-54-C		0	0	
5322720	Vacuumpump, Edwards	E2m 1,5	V	1	0	
8459269	Batterie Siemeos PS SS-115U/H	6 FW 1000-788	(V)	0	0	

When a spare part search returns more than allowed maxiumum number of records, the allowed maximum will be presented in search list. User will also be presented with a warning message, notifying that search result exceeded allowed maximum posts. In picture to the left, maximum allowed number of spare parts is 20 and the search result exceeds this cap. If user cannot find the searched spare part in the search result displayed in the list, the user will have to precise his search parameters.

Maximum allowed number of spare parts in a search is a system parameter that is specified in Administration module. **The default value is set to 1000**.



maximum number of records is global and applied for all users.

To change this value, perform following steps.

1. Open Administration Module and expand System Variables section.

2. Expand Purchasing section and select Settings.

3. In right part of Administration module, double-click anywhere to open Purchase Module settings for editing.

4. In field "Max. records in searches" enter new value and press "OK" button to save the changes.

Changes done in "Max. records in searches" take effect immediately. Specified



Association of spare parts with suppliers while working with purchase orders

When working with orders that have a specified supplier, it is now possible to:

- Create associations between order's supplier and spare parts that lack such association at the time they are added to the order.
- If an association between order's supplier and selected spare part already exists, it is possible to edit this association.

Filter Group		Dimension				Attention / Ref	Amount Ordered	Amount Received	Sta
Select	-	Dimension					0.00	0.00	Ope
Name	•	Bar Code							
Spare Part No		Unit							
Type No		Manufacturer							
		Select							
		All suppliers	🛃 Order Line						23
Spare Part No	Name	 Type No 	Purchase Order Details	Spare Part Details					
84F8510	No contact sencor Balluf	BES 516-356-							
84F8511	No contact sencor Balluf	BES 516-325-	PO No	Spare Part No	Spare Part Note				
84F8509	No contact sencor Balluf	BES 516-324-	000000002	981X1396					
86U2058	Aircylinder Festo	DSNU-10-10-4	Requested By	Type No					
86U2060	Aircylinder Festo	DSNU-10-50-4	pm5	6005 2RS					
86U2061	Aircylinder Festo	ADVU-100-30	Attn / Ref	Spare Part Name Ballbearing SKF					
3131023	Aircylinder Festo	ADVU-12-20-/		baibeaing Skr					
3131024	Aircylinder Festo	ADVUL-12-20							
32L9327	Magnetvent Festo	MFH-5/2-D-1/	Order Line Details						
32L9363	Magnetvent Festo	MFH-5-1/4-S	Ordered	Conditions	Taking Delivery	Accou	ints		
8 1X 1396	Ballbearing SKF	6005 2RS	Date Sent	Discount %	Received By		unt No		
181X1397	Service oil 30dg	6000 2Z			pm5 🔻	Sele	ct	-	
2326601	No contact sencor Balluf	BES 516-371-	Quantity	Store	Quantity Received	Job N	lo		
2326602	no contact sencor Balluf	BES 516-356-) Stock B3 - Shelf 59 1- 💌	0				
512	No contact sencorBalluf	BES 516-377-	Price	Store details:	Price				
5322720	Vacuumpump, Edwards	E2m 1,5		0 Stock B3 - Shelf 59 1-2	0	Amour			
84F9269	Batterie Siemens PS S5-115U/H	6 EW 1000-74			Discounted Price	Order	ed		
arch returned r	naximum allowed 20 spare parts. Na	rrow your search cri							
			Delivery Date	Expected Del. Day	Date Received	Recei	ived		
Add to Current	Order Close								
			Order Line Note						
									÷

In picture above, the user has selected spare part Ballbearing SKF for addition to order intended for supplier Festo. Spare part Ballbearing SKF is at this time **not** associated with supplier Festo. Therefore, when form for order line is opened, a button "Create new spare part-supplier association" is displayed in that form.

When user presses button "Create new spare part-supplier association" is pressed, the form for creation of such association is displayed on the screen. User needs now to insert following data in order to create the spare part-supplier association:

• Price – supplier's price for the spare part. Mandatory field, but entered price may be 0.

• Supplier Product No. – supplier's product number for the spare part. Optional field.

- Preferred Supplier check in if supplier is the preferred supplier for the spare part.
- Note note for the association. Optional field.

Association is saved by pressing button "Save". Form can be closed without creating new spare part-supplier association by pressing button "Cancel".

Please observe that when new spare part-supplier association is created, the price specified in that association will be automatically applied as price for the spare part in order detail form.



urchase Order Details	Spare Part Details		
D No	Spare Part No	Spare Part Note	
00000002	981X1396		
equested By	Type No		
m5	6005 2RS		
tn / Ref	Spare Part Name		
	Ballbearing SKF		
rder Line Details			
Ordered	Conditions	Taking Delivery	Accounts
Date Sent	Discount %	Received By	Account No
		pm5 -	Select -
Quantity	Store	Quantity Received	Job No
(Stock B3 - Shelf 59 - · 1- 💌	0	
Price	Store details:	Price	
15.00	Stock B3 - Shelf 59 - · 1-2	0	Amounts
		Discounted Price	Ordered
			0.00
Delivery Date	Expected Del. Day	Date Received	Received
rder Line Note			
			*
			٣

If an association between order's supplier and selected spare part already exists at the time when order is handled, then button "Edit spare part-supplier association" will be displayed in detail form. By pressing this button, user will open spare part-supplier form, where the association data – price, supplier's product number for the spare part and association notes - can be edited.

Tables for invoice numbers and order note numbers in purchase orders

O Number	Names	Dates	Related invoices
00000002 Attn / Ref Supplier Name	Requested By pm5 Ordered By pm5	Created 2/16/2021 Sent	123456789-001 ABC-DEF-1234 999-111-000
Festo Supplier No 185930	Attention pm5	Closed	
State Dopon Secount Number Select Currency Inder Note	Addresses Deliver To Delivery Address Invoice Invoice Address	City V Kolind City V Hobro	Related order notes ON-78899-8889 ON-555-666-A OM-666-888-B
			A Taxes VAT SIN

In Purchase Order form, two new tables have been added:

- Related invoices
- Related order notes

Purpose for those two tables is to allow user registration of invoice numbers and order note numbers related to the selected order.

Tables allow registration of multiple invoices and order note numbers for each order. Each such record accepts inputs consisting of alphanumeric characters, spaces and separation lines. Maximum length for each record is 128 characters.

		Spare Part No					
Purchase No		Attention / Refere	nce			Search	
Suppler No	_	Supplier Name	-				
Status	_	Requested By					
Select Order Note / Order	• detal note	Select Job No	-	telated invoices	Related order n	otes	
D Number	→ Status		Suppl Requested By	Attention / Ref	Amount Ordered	Amount Received	
10000002	Open		Festo pmS		0.00	0.00	
							l

Values entered in tables "Related invoices" and "Related order notes" are searchable in Purchase Order Quick Search form.

Search values entered in fields "Related invoices" and "Related order notes" will will return a list with all purchase orders where search parameter occurs in at least one related invoice or order note number.

T tecsys

Handling of records in sub-panes of PM5 Windows Client

As of this version of PM5, user can now select and handle multiple rows in data grids in sub-panes of PM5 Windows client. Subpanes affected by this function are:

- Machines pane
 - o Tasks subpane
 - o Faults subpane
 - Stop subpane
 - o Attachments subpane
- Tasks pane
 - o Spare parts subpane
 - o Attachments subpane
 - External Services subpane
- Spare Parts pane
 - o Machines subpane
 - o Stores subpane
 - o Suppliers subpane
 - o Attachments subpane
- Supplier pane
 - Spare parts subpane
 - Attachments subpane
- Activities/Faults subpane
 - Spare parts subpane
 - Attachments subpane
 - Stop subpane (Faults only)
 - o External Services subpane

In subpanes listed above, user can now select and handle multiple rows at once. This feature is perhaps most useable when wishing to delete multiple records in the data grid. If multiple rows are selected and user then presses "Delete" button, all selected rows will be deleted in a single action.

Deletion of multiple spare part stocks

Deletion of spare part stocks includes transfer of stock, if quantity at the stock to be deleted is positive. Due to the addition of functionality enabling deletion of multiple stocks in single process, this procedure had to be adjusted.

Spare Part " Name	Spare Part Number	Manufacturer Name	Type Number	Price	Preferred Supplier Product Number	Attachment	In Store	Last consumption	Secondary ID	Status
Aircylinder Festo	986U2058		DSNU-10-10-P-A	213.54	DSNU-10-10-P-A	v	1		11254-11147	
Aircylinder Festo	986U2060		DSNU-10-50-P-A	266.63	DSNU-10-50-P-A	1	1		11254-11147	
Arcylinder Festo	986U2061	Ca	10101 100 00 0 1		40101400.00.0	(17.8)		_		53
Aircylinder Festo	93131023		Reallocate stock con	tents						60
Arcylinder Festo	93131024									
Ballbearing SKF	981X1396		Stocks selected for de	letion			Choose which store k	ocation stock and ass	ignments should be mo	wed to
Batterie Siemens	984F9269		Store		Stock		Store		Stoc	k
Battery for OP M	W79084-E1001-B2		Shop		3		Drawerstock			
3J-Snekkegear	BJ-3282		Sattelitestock dept. 2		22		Remove from the sys	stem		
Bosch Magnetvent	0 820 006 103									
Magnetvent Festo	932L9327									
Magnetvent Festo	932L9363									
No contact senc	984F8510									
No contact senc	984F8511									
No contact senc	984F8509									
No contact senc	92326601									
to contact senco	92326602									
No contact senc	5512					_				
Optical Fibre	93652502									
Saftyswitch, K.M	TO-2-8900/11/SVB							0	ancel	Save
Page 1 showing 1	to 20 of total 25									
Details Machin	es Consumptions	Stores Supp	pliers Attachments							
Store	Position I	Position II	Position III	Stock	Quantity To Order	Minimum on St	tock Preferred Store			
	. Shelf 2	Drawer 4	Field 5				2			
				4	-	1	(m)			
Sattelitestock de Drawerstock	Drawer 3	Shelf 2	Room 6	4	5	1				

"Remove from the system" in the list to the right.

When user selects some, but not all spare part stocks and then presses "Delete" button, form "Reallocate stock content" will be presented on the screen.

The list on the left lists all the stocks selected for deletion.

The list on the right lists all stocks to which content of stocks that are to be deleted can be transferred to. If a stock is selected as recepient for such transfer, all spare parts present at deleted stocks will be transferred to that single stock.

User can also choose to discard the spare parts at deleted stocks by selecting



Printing images together with job cards

Ability to print machine and task attachments together with job cards has been one of the features present in PM5 for a long time. However, PM5 was not able to handle on its own printouts of attachments consisting of picture files. Such files had to be opened and printed manually through third party software.

As of this version, PM5 can print picture files of following formats:

- JPEG/JPG
- TIFF
- GIF
- PNG
- BMP

Attachmets have to be marked as printable together with job card. This is possible for attachments belonging to machines, tasks, faults and activities.

When an attachment included in job card printout job as a picture, the printout of such picture will be performed with following settings:

- Picture will always be printed in landscape mode (lengthwise)
- If size of picture is detected to be too large for print media size (usually A4 page format), the picture size will be scaled down to fit on single page. PM5 will always attempt to utilize the page size to maximum.
- Picture printout will always contain a header specifying:
 - o Job number of PM5 activity/fault to which the printout belongs
 - File name of attachment
 - o Timestamp specifying date and time of printout

Example picture below shows a printout of an image with a height too large to fit on an A4 page. The image was automatically scaled down for best fit on A4 page.



Release notes for PM5 version 5.15.0000

Detailed Event Log

General description

Event log, introduced in version 5.14.0000 has been extended in this version and can register changes in individual fields of records belonging to main data set. In other words, the event log is now capable to register any changes done in individual records for machines, tasks, spare parts, suppliers, activities and faults.

Activation of event log

By default, client event log is not activated. To activate event log perform following actions:

- Open Administration module.
- Select and open Settings form.
- Check in 'Detailed event log active' checkbox at the bottom of the form.

Detailed event log becomes active after restart of PM5 client.

It is also important to understand that Detailed Event Log is independent of Event Log activated with help of checkbox Event Log Active. Either one or both event logs can be set to active or inactive.

When active, detailed event log will register changes in every single field in records of main data set. Collected data will give administrator almost complete overview of changes in PM5 over time. However, it also means that event log tables will grow with several hundred (or even thousands of records) rows for each day of operation.

Macrime / Critia 0/12/2020		core modectorr Equipment	1200	2020	110003301	Supplier Burke
PCSYS Maintenance 5 - pm5	(Options		X		
File Action Help		Registration	Logo			
G 🖸 🖸 😭 😟		License Holder				pł
😑 🧰 System Tools	Name		_			
Users	License Holder					pi
User Groups	License Code	License Code			FO	pł
- Fechnical Groups	Attachment Folde				Test 20200811	pl
- Locations	Timeout (In minut)					0
- Custom Field Groups	lcon					c.
M Input Masks	Report Header	Attachment Folder				9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Notice Boards	Minimum Auto-Up		Br	owse For File		k
Backup Database	Root Location Te	Browse Fo	r Folder	Clear		te
Man Hour Price	Login Timeout					0
Event log	Max Notice Board					<.
Configurations	Auto machine nur	Max Notice Board Notes:	5			ci i
Languages	Auto spare part n	Timeout (In minutes)	15	_		
Options	Event log active	Login Timeout	1	-		
Translations	Detailed event log	-				
Barcode Label	NT Mandatory Ma	Minimum Auto-Update (In minutes)	10			
Support		Root Location Text	MABE Test			
A Email Notifications						
😑 🧮 System Variables		Auto machine numbering	Next Machine Nr.	61		
A Clerk	I I	Auto spare part numbering	Next Spare Part Nr.	41		
Purchasing	I I	V NT Mandatory Machine Cleanu				
	I I	INT Manualory Machine Cleanu	P			
Postal Information						
		Report Header				
		Event log active	d event log active			
_						
-						
			Ok	Cancel]
sured Value	(



Detailed event log and event log report

Detailed event log records are presented in the event log report introduced in version 5.14.0000. For information about how to access event log report, please refer to section Client Event Log, available in release notes for version 5.14.0000 below.

An individual record registered by detail event log is slightly different than a record registered by event log. Below is an example of four records registering same user action by **event log** and **detailed event log**.

8/13/2020 2:29:01 PM	Machine	Valve 1-B-16 - 12082020-003	UPDATE		pm5
8/13/2020 2:29:01 PM	Machine	12082020-003	UPDATE	Machine Barcode - 889465465> 35711546	pm5
8/13/2020 2:29:01 PM	Machine	12082020-003	UPDATE	Machine Status - In Storage> Temporary Out Of Comission	pm5
8/13/2020 2:29:01 PM	Machine	12082020-003	UPDATE	Machine Active> Inactive	pm5

Top record is registered by **event log**. It registered that machine with name Valve 1-B-16 has been edited at specified time and by specified user.

Rows below are registered by detailed event log and are related to same edit event. Each record registers change in a single field where a value has somehow been changed. In this example we can see that user pm5 changed the barcode of the machine, changed its status from *In Storage* to *Temporarily Out Of Commission* and finally deactivated it.

In general terms, record registered by Detailed Event Log contains following information in column Description:

<Name of field that has been edited> - <Original value> \rightarrow <Edited value>

The only exception to pattern above can be found in records registering changes in **Notes** field for Machine/Task/Spare Part/Supplier/Activity and **Fault Description/Fault Solution** for Faults.

When changes in those fields are detected, the description field will simply say *Note Field has been edited*. This is done to save space in the report. However, both original and new content of edited note fields are saved in database and are available for inspection, if it is required.

One final note regarding presentation of detailed event log records in the report. In some instances information in Description column may look like this:

8/13/2020 2:45:12 PM Task TASK 20200721 NOVEMBER UPDATE To be signed by - --> User E

At first glance it may look incomplete – there is no information about original value in field *To be signed by*. Information presented in this record is however correct. The fact that there is no original value in *To be signed by* indicates exactly that – signing person was originally not specified for that task, but that has been rectified and the task is now assigned to User E.

What data is registered by detailed event log

All changes in data that are editable through detail forms for Machine, Task, Spare Part, Supplier, Activity and Fault are automatically registered when detailed event log is active.

When are changes in records registered by detailed event log

Detailed event log registers changes in main dataset when:

- Detail form for the record is closed.
- Batch edit tool is used to change selected set of records.
- Batch finish tool is used to finish selected set of activities and faults.
- When a machine or machines is moved to another location with help of drag and drop function. This action triggers registration of change of location.
- When data in activity is indirectly modified by changes in task to which it belongs. Changes in task that trigger registration of "indirect" changes in its activity are:
 - o Activation/deactivation of task.
 - Change of task's priority.
 - Change of person specified in *To be signed by* field.
 - Change of scheduling information in Days or Measured Parameter fields.



pm5

Administering Event Log

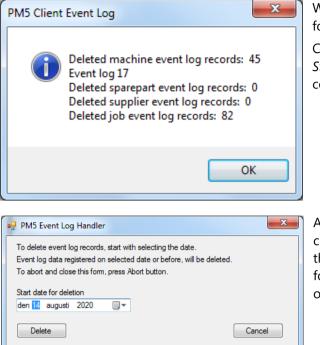
As already mentioned, volume of data generated by both versions of event log can be substantial. Administration module has therefore been extended and has new section, called Event Log.

PCSYS Maintenance 5 - pm5	E internet		23
File Action Help			
i G 🕤 🖸 🗳 😟			
🕞 📄 System Tools	Name	Value	
Subsers	Machine event log posts	57	
🔉 User Groups	Task event log posts	21	
J Technical Groups	Sparepart event log posts	0	
Locations	Supplier event log posts	0 84	
Custom Field Groups	Jobs event log posts	84	
Input Masks			
Notice Boards			
Backup Database			
Man Hour Price			
Event log			
Configurations			
Languages			
Options			
- Translations			
Barcode Label			
Support			
Email Notifications			
🖃 🧾 System Variables			
. ⊡ Client			
⊕ □ Purchasing			
Postal Information			

When Event Log section is selected in PM5 Administration module, the right section of the screen will display statistics about number of log records for each of groups in main data set.

By moving the mouse over right section of screen and clicking on right mouse button, user opens quick menu for Event Log section. At the moment there is one function user can access – cleanup of event log.

PCSYS Maintenance 5 - pm5	E jo hoge	
File Action Help		
😑 Eistem Tools	Name	Value
Subsers	Machine event log posts	57
254 User Groups	Task event log posts	21
🖉 Technical Groups	Sparepart event log posts Supplier event log posts	0
Locations	Jobs event log posts	84
Custom Field Groups	Jobs event log posts	04
Input Masks		
Notice Boards		Cleanup event log
Backup Database		
Man Hour Price		
Event log		
Configurations		
Languages		
6 Options		
Translations		
Barcode Label		
Support		
Email Notifications		
System Variables		
Client		
I I OPC		
Postal Information		



When selected, Cleanup event log menu item opens form shown to the left.

Cleanup function is very simple. User selects the date in *Start date for deletion* field and presses *Delete* button. A confirmation of this action is required.

After user confirms the action, all event log records created on selected date or earlier will be deleted from the database. After deletion is completed, a confirmation form showing number of deleted log records is shown on the screen.

Cleanup flag in Activities/Faults

Cleanup flag is a new system variable added to activities and faults. Decision to add this variable is based on new requirements specified in BRC Global Standards Issue 8. Requirement in question demands that there should be a clear indicator showing if the equipment is to be cleaned after maintenance work.

Joptions		x
Registration	Logo	
License Holder		
License Code		
Attachment Folder		
Ataciment rolder		
	50053	vse For File
Browse Fo	r Folder	Clear
Max Notice Board Notes:	5	
Timeout (In minutes)	15	
Login Timeout	99	
Minimum Auto-Update (In minutes)	10	
Root Location Text	MABE Test	
Auto machine numbering	Next Machine Nr.	61
Auto spare part numbering	Next Spare Part Nr.	41
Mandatory Machine Cleanup Af	ter	
		1
Report Header	and the second second	
Event log active Detailed	event log active	
	Ok	Cancel

Mandatory Cleanup		h
No Cleanup	Cleanup Required	l

After this settings has been activated, new element with name *Mandatory Cleanup* will be available for use in detail forms for activities and faults. The element consists of two checkboxes, one called *No Cleanup* and the other called *Cleanup Required*.

Either none of the checkboxes is checked in (this is default state) or only one of checkboxes can be checked in.

Thus, the Mandatory Cleanup Element has possible three states:

- When neither of checkboxes is checked in, the cleanup status is unspecified.
- By checking in *No Cleanup*, user indicates that no cleanup is to be performed after this job is completed.
- By checking in *Cleanup Required,* user indicates that a mandatory cleanup of equipment needs to be performed after job is completed.

Corresponding functionality has been implemented in PM5 Mobile. When this function is activated in Administration module, Mandatory Cleanup element will be shown on the screen in following screens on mobile devices:

- Creation of new fault
- Finish activity
- Finish fault



Cleanup flag is optional and will be visible and available for use only after it has been switched on in Administration module. This is done by opening Settings form and checking in checkbox *Mandatory Cleanup After*.

Email Notification System

General description

Purpose of email notification system is to provide a simple, automatic method to notify PM5 users when certain events take place in the system. In this initial version, following events will trigger sendout of an email to one or more recipients.

Event	Recipient
New fault reported	 PM5 User specified as responsible for solution in field <i>To be signed by</i>. Global recipient, if such is specified.
Fault reported as solved	 PM5 specified in field <i>Discovered by</i>. Global recipient if such is specified.
Expected finish date changed in a fault	 PM5 specified in field <i>Discovered by</i>. Global recipient if such is specified.
Activity reported as solved	 Global recipient if such is specified.
Expected finish date changed in an activity	 Global recipient if such is specified.

Configuration of email notification system

Email notification system is configured in PM5 Administration module. To access it, open Administration module and select Email Notifications section.

PCSYS Maintenance 5 - pm5	second land by	- 0000	1.00	
File Action Help				
G 🖸 🖸 🔂 🔂				
😑 📄 System Tools	SMPT Server Settings			
Users	SMTP Server Name	smtp.gmail.com	1	
🔉 User Groups	SMTP Server Port Number	587		
🖉 Technical Groups	Enable SSL	Yes		
Locations	Default Account Name	marcus.bertmar	n@gmail.com	
Custom Field Groups	Default Account Password			
M Input Masks	Edit Email Notification Settings			
Notice Boards	Global recepient for all email notifications	marcus bertmar	egmail.com	
Backup Database	Email to signing person when creating new fault Email when an activity is finished	Activated Activated		
Man Hour Price	Email when a fault is solved	Activated		
Event log	Email when expected finish date is changed	Activated		
Configurations	Endi when expected inian date is changed	neivelou		
Options				
Translations				
Barcode Label				
Support				
Email Notifications				
System Variables				
Purchasing OPC				
Postal Information				
	1			

🖳 Edit Email Notification Settings							
SMTP Server Configuration Notification settings							
SMTP Server Name							
SMTP Server Port Number Enable SSL 📝							
Default Account Name							
Default Account Password							
Send test email							
Cancel	Save						

Right section of Administration module presents information about current configuration of email server used for sendouts of notification, as well as which events trigger sendout of an email.

To open configuration form, double-click anywhere in right section of Administration module.

Configuration form consists of two tabs – *SMTP Server Configuration* and *Notification Settings*.

In *SMTP Server Configuration* user needs to specify settings for the email server that will be used for sendouts of email notification. Following information is required:

STMP Server Name – name of email server used for sendouts

SMPT Server Port Number – port number of server

specified above.

Enable SSL – whether SSL encryption is to be used or not. Whether or not it is to be checked in depends on how SMTP server is configured.

Default Account Name - an email account that exists on specified SMTP server.

Default Account Password – password of the account specified in Default Account Name field.

A clarification is needed at this point – as configuration above indicates, all emails triggered by events in PM5 will be sent through a single email account, as specified in the settings. It is suggested that a dedicated email account is created for this specific purpose.

Button *Send test email* triggers sendout of a generic test email to specified account, using specified SMTP server. If configuration is correct the specified email account will send a test email to itself.

Edit Email Notification Settings	X							
SMTP Server Configuration Notification settings								
Global recepient for all email notifications								
pm5 👻								
Email to signing person when creating new fault								
Email when an activity is finished								
Email when a fault is solved								
Email when expected finish date is changed								
Cancel Save								

In second tab, labeled *Notification Settings*, user can select which events are to trigger sendout of a notification email.

Combobox *Global recipient for all email notification* is used to select a single PM5 user that will receive all emails generated by notification system.

Selection of global recipient is voluntary. Please observe that global recipient is the sole recipient for notifications regarding finished activities and change of expected finish date in an activity. Thus, if global recipient is not selected, those two types of notifications system will not work even if they are activated.

The four checkboxes in this tab correspond to the events that trigger

sendout of an email. User can select individually which events are to be active and generate sendout of an email.



When are email notifications triggered by PM5

Depending on selection in Configuration, email notifications are sent out in following circumstances.

Event	Recipient
New fault reported	 PM5 Windows client, when new fault is created and saved.
Fault reported as solved	 PM5 Windows Client, when fault finish status is set to finished and fault is saved. PM5 Windows client, when a fault is successfully set to finished through batch finish tool.
Expected finish date changed in a fault	 PM5 Windows Client, when expected finish date is changed and fault is saved. PM5 Windows Client, when expected finish date is changed for a fault through batch edit tool.
Activity reported as solved	 PM5 Windows Client, when activity finish status is set to finished and fault is saved. PM5 Windows client, when an activity is successfully set to finished through batch finish tool.
Expected finish date changed in an activity	 PM5 Windows Client, when expected finish date is changed and fault is saved. PM5 Windows Client, when expected finish date is changed for an activity through batch edit tool.

As table above indicates, the email notifications are currently only triggered by events that happen in Windows client. Currently, events that take place in PM5 Mobile will **not** trigger sendouts of email notifications.

Batch task create function

Until now, it was only possible to create tasks one at a time, for single machine. This functionality has been extended – it is now possible to select multiple machines in main data grid and create same task for all machines in the selection, in a single process.

Procedure for task creation for multiple machines is exactly the same as before. The only difference is that user selects more than one machine before pressing on *New Task* button in Machines / Task subpane.

						PCSYS Main	tenance 5 - Logged In: pm5 - Licensee: PCSY	'S A/S					_ a X
File View Tools Filter H	elp												
Location Ø	Machines Taske	s Spare Parts Supp	pliers Activities / F	aults									
🖂 🚔 MABE Test	Machine Number	Machine Name		Attachment	t Status		ID Code		Туре	Supplier	Location	Stop Group	Pri
🖲 🚘 Alpha	12082020-004	Main Valve 1-A	8/12/2020		In Storage		12082020		Hammer	Supplier Akane	Foxtrot002	NET4 Test Group B	
🕀 📾 Bravo	12082020-001	Valve 1-A-15	8/12/2020		Core Production	Equipment	12082020		Processor	Supplier Bunko	Foodrot003		
🖲 📾 Charlie	12082020-006											Stop Group I	595
🖲 🚘 Delta	12082020-005									Supplier Chlycko			548
e- 🖴 Echo	12082020-003	Valve 1-B-16	8/12/2020			Of Corrission			Sau	Supplier Chiyoko			875
E E Foxtrot	12082020-002	Valve 1-C-15	8/12/2020				12082020		Harma				795
GEO	LOOLOLD OOL	NATE TO TO	o interes		backop equipm		12002.020			Multiple rows select	tod in		700
⊕ 🚔 Golf ⊜ Hotel				Batch Task Creation				×		machine main data	arid		
e-🚘 India				Task Name			interval			indenino main dati	- grid		
- Juliet				TIDSK INDIRE			Locked						
- Suilet													
e- 🖴 Lima				Date of First Activity 2020-08-14	-		Days						
				Type of Task									
				Select		•							
				To Be Signed By			Estimated Manhours						
				Select		•	0						
				Technical Group									
				Select		•	Approval Required						
				Priority									
				Select		-							
				Jeierr									
				Task Note Note for new a									
				rask indee indee tor new a	ctivity								
								^					
			_										
	Page 1 showing 11										-		
	Page I showing I t	to e or total e									(14) (4)	Page 1	/1 (F) (F)
	Details Tasks	Activities Spare Par	rts Faults Stop										
	Name												
1	TASK Monthly Main	tenance						~					
	Batch Task Test 20	200812 Romeo		1									
	Foxtrot 3 - Monthly						Cancel	Save					
											Press button N	New Task	
										2			
										New Task	Delete T	ask Go	To Task
V Eilter													

Batch Task Creation	×
Task Name	Interval
	Locked
Date of First Activity	Days
2020-08-14	
Type of Task	
Select	
To Be Signed By Select	Estimated Manhours
Select Technical Group	U
Select	Approval Required
Priority	
Select	
Task Note for new activity	
1	
	Cancel Save

There are few restrictions when creating a task for multiple machinea:

• Definition of the created task – its name, type, specified time period, etc – will upon creation be exactly the same for all tasks. Details for individual tasks can be adjusted after creation.

• It is not possible to create passive tasks. All tasks must have a specified number of days in *Days* field.

• Batch task creation allows only creation of tasks based on days period. Measured parameters cannot be used.

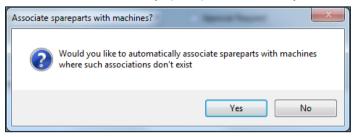
• Scheduled date for first activities will be the same for all activities. This can be adjusted for each

individual activity, once it has been created.

New tasks are created when user presses on Save button, one task per selected machine.



As in standard procedure, user will also be given opportunity to add spare parts that are to be consumed by each activity based on created task. If user wishes to do that, an additional question regarding automatic association of spare parts will be stated. If user agrees, an association will be automatically between all selected machines and any spare parts not already associated with them.



Once all spare part associations are completed, the procedure is finished and a notification about creation of selected number of tasks will be shown on the screen.

Clarification A

Spare parts and stocks selected in spare part selection – spare part selection is handled in exactly same manner as during creation of a single task. There is however an important difference. When a spare part is associated with single task, only the stocks that are available to machine are available for selection as source stock. In batch task creation, user can select from **all** spare part stocks. If selected stock turn out to be invalid for any of selected machines, stock selection will be automatically reset to 'no stock' selection.

This method is used for obvious reason – selected machines can be located at any location and PM5 cannot know which stock locations to include or exclude. Therefore, it is up to user to select optimal source stock and manually make necessary adjustments for spare part associations that require additional attention.

Clarification B

In connection with this new feature, it is worth recalling existence a rarely encountered restriction for tasks – it is not allowed to create multiple tasks for same machine with **same task type and name**. Under normal circumstances, users rarely encounter this restriction. However, since tasks created with help of batch creation tool are exactly the same, chances are that sometimes one of those tasks will fail to be created due to this restriction. When this happens, user will be notified about such failure in confirmation message. Example of such event is shown below.



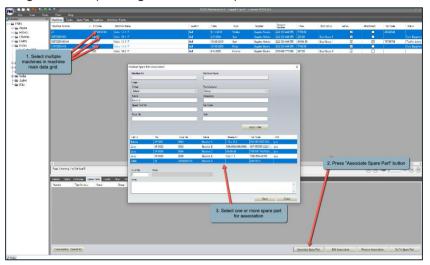
In example message, user tried to batch create a task for six different machines. Creation of the task was successful for four of those machines. It failed for two of the machines, which are listed in the message. Please observe that only up to ten machines will be listed in confirmation message. However a complete list of machines is always saved in Windows clipboard and can easily be revealed by opening a Notepad and copy-pasting it there.

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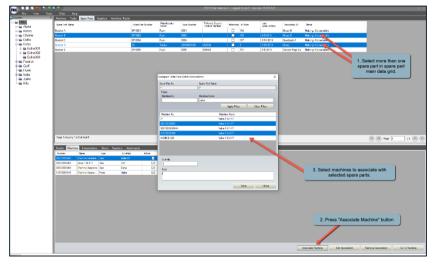
Association of multiple spare parts with a machine in single process

Functionality for creation of associations between machines and spare parts has been extended – it is now possible to create associations between multiple machines and spare parts in single process.

Associations between machine and spare parts is created in section Machines, sub-pane Spare Parts. The procedure is exactly the same as before, the only difference is that now it is possible to select multiple machines in main data grid before pressing on 'Associate Spare Part' button.



Corresponding change has also been made in section Spare Parts, sub-pane Machines. User can also here select more than one spare part in main data grid and then press on button 'Associate Machine'.



Please observe that when assigning a single spare part to multiple machines, all of machines stocks will be available for selection as source for future consumption. However, a validation check is made for each individual association that is created and selected stock will be used only if it is confirmed as valid selection for the machine. If validation fails, the machine/spare part association is still created, but without any reference to specific spare part stock.

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Release notes for PM5 version 5.14.0000

Client event log

General description

Client event log, when activated, registers continuously all events regarding main data set. Event log will register:

- Creation of new posts
- Edition of existing posts
- Deletion of existing posts

performed in:

- Machines
- Tasks
- Spare Parts
- Suppliers
- Activities/Faults

Activation of event log

By default, client event log is not activated. To activate event log perform following actions:

- Open Administration module.
- Select and open Settings form.
- Check in 'Event log active' checkbox at the bottom of the form.

PCSYS Maintenance 5 - pm5			
File Action Help			
000000			
Image: System Tools Image:	Name Lorene Holder Lorene Code Attachmen Földer Immed. (n mindes) Ion Report Header Marman Ado-Update (n mindes) Emerson Deport Header Marman Ado-Update (n mindes) Marman Ado-Update (n mindes) Exert Ado-Markan Marman Ado-Update (n mindes) Ado-Markan Login Timed Marman Ado-Update (n mindes) Login Timed Ado-Markan Markan Ado-Update Data Notes Ado-Markan Ado-parte markan Ado-Markan Evert log active Evert log active	Loo Browse For File. Clear Machine Nr. 66 Space Pat Nr. 48	

• Close the Settings form.

Event log will start registering as soon as it has been activated.

Event log report

Actions recorded by event log are presented in form of a report.

• Open Report module.



- Select Economic Information section.
- In combo box "Select from list" select *Client Event Log*.
- In filter section "Period" select start and end date for period covered by report.
- In "Include" section, check in main dataset groups and event types that are to be included in report. Please observe that **at least one data group and one event type** must be selected.
- Press button "Full" to generate the report.

Single record in event log consists of:

- **Registered** date and time of the event
- Section main data set group to which the record belongs
- **ID** for machines, spare parts and suppliers, the ID and name. For tasks and activities, the name and machines to which task/activity/fault belongs.
- **Event** type of event. Currently there are three types of events:
 - **CREATE –** creation of new post
 - **UPDATE –** editing/changes in existing record
 - o **DELETE** deletion of record
- **Description** if applicable, additional information about the event.
- **Done by** initials of user performing the action.

Re	eport 🌣		Period	Indude	View Report
,	Machines	Select from list Client Event Log	Start Date: 2019-11-01	✓ Machines ✓ New posts ✓ Tasks ✓ Changes	Partial
1	Tasks	Manhours Cost Sparepart Cost External Service Cost	End Date: 2019-12-12	Spare Parts Deletes Suppliers	Full
	Spare Parts	Cost Summary External Services per Provider		Jobs	
6	Suppliers	Machine Cost Summary		6 → Balla a (Ball ()	N 🖄 🖄 - 🖂 - 🙆 🖕
9	Activity / Faults	Contre of one oby			
	Consumption		1. Date range	2. Data selection	on
õ	Groups				
\$	Persons				
P	Reorders				
3	Stop	r			
*	Use of Man Power				
3	Economics Information				
		4			
		Current Page No	Zoom Factor	Total Page	N

User defined machine barcode labels

General description

Users can now define their own machine barcode label designs.

Creating new machine barcode layout

To create new machine barcode label, do following:

- Open Report Module.
- Select Machines section.
- In combobox 'Select from list' select Barcode Custom Layout
- Press 'Full' button to generate machine barcodes.

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- Press 'Edit' in menu bar at the top of report presentation form.
- In editor that opens, make required modifications to machine barcode design.
- Save the changes by selecting File -> Save As... in menu at the top of editor.
- Enter name for new report layout and press 'OK' button.

Selecting user defined machine barcode label as default selection for printouts

To select user defined machine barcode layout as default, do following:

- Open Administration module.
- Select Barcode Label section and open it for editing.
- In combobox 'Default machine barcode layout' select name of layout to be used as default selection for printouts.
- Press 'OK' button to save the selection.

System Tools	Name	Value	
2 Users	Printer	Default Printer	
Ser Groups	Default sparepart barcode layout	SP Custom 20191205 A.repx	
Technical Groups	Default machine barcode layout	Default Layout	
	Print Label Directly to Printer	No	
Custom Field Groups	Barcode Label	×	
M Input Masks			
Kotice Boards	Printer		
Backup Database	Default Printer		
Man Hour Price	Default sparepart barcode layou		
Configurations	SP Custom 20191205 A.repx		
Languages			
P Options	Default machine barcode layout Default Layout		
Translations			
Barcode Label	Print Label Directly to Printe		
Support			
System Variables			
Client	0	k Cancel	
Purchasing			
OPC	-		
Postal Information			

User credential "Delete spare parts with stocks"

General description

Under normal circumstances it is not allowed to delete a spare part that has one or more associated spare part stocks. Before such spare part can be deleted, all of its stocks must be deleted, one at a time. This is done to ensure that users make a decision about any positive stocks before a spare part can be deleted. Also, it is a security measure ensuring that spare parts aren't deleted unintentionally.

User credential "Delete spare parts with stocks" allows users to bypass this restriction. Users granted this credential are allowed to delete one or more spare parts along with any stocks associated with those spare parts, with a single click on Delete button.

To grant "Delete spare parts with stocks" to a user group, do following:

- Open Administration module.
- Select User Groups section.
- Select a user group for editing.
- Select sub-pane Privileges and check in checkbox for credential "Delete spare part with stocks".
- Press "OK" to save changes.

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Credential "Delete spare parts with stocks" comes into effect for all users who belong to edited user group **on next launch of PM5 client.**

Add	Privilege	Description	
V	Activities ack. privilege	Gives privilege to mark activities as "done" with associated consumption of spare parts	1
1	Activity creation	Privilege to Task main tab dialog	1
1	Remove activity news marking	The privilege to mark new (bold) activities as noted (not old)	1
V	Fault privilege	Privilege to report faults into the system and to acknowledge for solved faults.	1
1	Remove fault news marking	The privilege to mark new (bold) faults as noted (not old).	1
1	Approval	Gives privilege to approve faults, which requires approval.	1
	Storage privilege	All privileges in main tab dialogs: "Spare Parts" and "Suppliers". Also in inventory locations	
\checkmark	Purchase/Spare part	Gives all privileges in purchase module, spare parts and suppliers tab, and inventory locations	
V	Attachment	Privilege to add and edit all attachments.	
1	Advance Pocket PC	Advance user of pocket pc	1
V	Basic Pocket PC	Basic pocket pc user	
1	Replace Spare Parts	Privilege to replace spare parts	1
1	Merge Spare Parts	Privilege to merge spare parts	1
1	Delete Spare Part	Privilege to delete spare parts.	1
1	Post Master	Can edit/delete notes posted by other users.	1
1	Allowed to delete user defined report	Allowed to delete user defined report templates	1
V	Access to spare part price records	Access to spare part price records	1
V	Delete spare part with stocks	Allows deletion of spare parts without first having to remove its stocks.	1
7	Delete system filter	Allows deletion of system filters.	۴

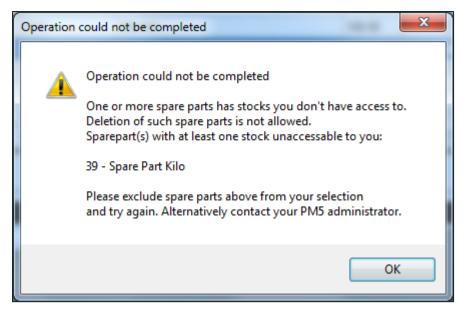
Deleting spare parts with stocks

Users granted credential "Delete spare part wih stocks" can select one or more spare parts and delete them by right-clicking and selecting "Delete" menu item in quick menu. Following message will next be displayed on screen:



User has to check in checkbox "Delete confirmed" and press "Yes" button to complete deletion.

Under certain circumstances, a different message will be displayed on screen:



This message is displayed when user is attempting to delete at least one spare part which has spare part stocks at store(s) that **are not accessible to the user**. A store is not accessible to the user if it is not associated with any of the locations that user has access to. If a spare part has stock on such store, user is not allowed to delete it under any circumstances, even with user credential "Delete spare part with stocks" granted to him. This constraint is enforced to avoid deletion of spare parts which may not be required at user's location, but which may still be actively in use at other geographical locations, factories or departments without him being aware of it.

If user wishes to proceed with deletion, the spare part(s) listed in the message needs to be excluded from spare part selection. Alternatively, at least one location which is associated with the store to which user doesn't have access to may be added to list of locations accessible to the user.

User credential "Delete system filter"

General description

User credential "Delete system filter" controls user's ability to delete user filters with *System filter* attribute. Users without this user credential will not be able to delete user filters with this attribute.

To grant "Delete spare parts with stocks" to a user group, do following:

- Open Administration module.
- Select User Groups section.
- Select a user group for editing.
- Select sub-pane Privileges and check in checkbox for credential "Delete system filter".
- Press "OK" to save changes.

Add	Privilege	Description	
V	Activities ack. privilege	Gives privilege to mark activities as "done" with associated consumption of spare parts	1
V	Activity creation	Privilege to Task main tab dialog	1
1	Remove activity news marking	The privilege to mark new (bold) activities as noted (not old)	-
	Fault privilege	Privilege to report faults into the system and to acknowledge for solved faults.	
1	Remove fault news marking	The privilege to mark new (bold) faults as noted (not old).	
v	Approval	Gives privilege to approve faults, which requires approval.	1
	Storage privilege	All privileges in main tab dialogs: "Spare Parts" and "Suppliers". Also in inventory locations	
V	Purchase/Spare part	Gives all privileges in purchase module, spare parts and suppliers tab, and inventory locations	
1	Attachment	Privilege to add and edit all attachments.	
1	Advance Pocket PC	Advance user of pocket pc	
V	Basic Pocket PC	Basic pocket pc user	1
v	Replace Spare Parts	Privilege to replace spare parts	1
v	Merge Spare Parts	Privilege to merge spare parts	1
1	Delete Spare Part	Privilege to delete spare parts.	
V	Post Master	Can edit/delete notes posted by other users.	1
1	Allowed to delete user defined report	Allowed to delete user defined report templates	1
V	Access to spare part price records	Access to spare part price records	1
V	Delete spare part with stocks	Allows deletion of spare parts without first having to remove its stocks.	1
V	Delete system filter	Allows deletion of system filters.	1

Wildcard sign for single character in quick search function

Users can now use question mark sign - ? – as a wildcard for a **single character** in search terms entered in quick search forms.

Example 1:

In quick search for machines, user enters **123?456** in field Machine ID. This search term will find any machine with machine id **containing** sequence starting with **123**, followed by **any single character**, followed by **456**.

Example 2:

In quick search for activities/faults, user enters ???123. This search will list any activities and faults with job id **starting** with arbitrary combination of three characters, followed by numbers 123. Please observe that search result for this string will also return activities/faults with job ID longer than six digits, as long as those digits come after *123*.

Example 3:

Perhaps more useful search for job is:s would be 123???. Such search will return all jobs having job numbers within **123**000 and **123**999. Since the three question marks specify that job id **must end with exactly three arbitrary characters**, in this case user is limited to 000-999 at the end.

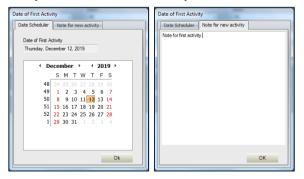
Activity note for next activity.

General description

This function is added to simplify handling of new activities. Quite often there is need to write a note of some sort for next activity – a reminder, a comment to next person who will be working on the activity, etc. Up until now, the new activity had to be found, opened and edited. This new function allows user to type new activity note as part of creation of new task (the note would then be intended for first activity) or at the time when current activity is being finished.

Note for first activity

Note for first activity is typed in when new task is created. When form for scheduling of the date for first activity is opened, user can switch to subpane 'Note for first activity' and enter required note in the text field. Entered text will be saved in 'Activity note' field of first activity.



PM5 Mobile - cap for maximum records in search results

General description

There is now a cap for maximum records allowed in search results when searching for machines or spare parts in PM5 Mobile. There are two reasons for this restriction:



- Search results consisting of several hundred (or thousands) machines or spare parts take very long time to process on mobile devices and may cause communication timeouts.
- Since screens on mobile devices are small, search results resulting in long lists are simply not very practical.

Machine and spare part searches that return too many records

When a search returns too many records, a message saying **Search returned too many records. Try using more specific search parameter.** is presented below Search button. When this happens, user needs to enter a more specific search string or use additional filters, if such are available.

Example of this situation is shown in image below.

PM5 Mobile	Main Menu
Current location: MABE Test	
Include machines at all loc	ations
Machine type (optional)	
Not selected	Ø
Scan or enter machine number	
Search	€
Search returned too many recor Try using more specific search	

Value for maximum allowed records in PM5 Mobile searches

Default value for maximum allowed number of records in a search result for machines/spare parts is set to 30. If user wishes to adjust this value, then following steps need to be taken:

- In folder containing files for PM5 Mobile application, navigate to folder Data
- Find and open file with name *parameters.js* in a plain text editor (such as Notepad).
- Find line var MAXIMUM_NUMBER_RECORDS_IN_SEARCH = 30;
- Change the value to required number of records.
- Save the change and close text editor.

Please observe that very large value may impact performance of searches in PM5 Mobile. In extreme cases you may also experience communication timeout errors. In such case, please consider lowering the number of allowed records in search results.

Release notes for PM5 version 5.13.3000

Migration to Microsoft .NET Framework 4.0

For those unfamiliar with the concept, let's start with short explanation of what Microsoft .NET Framework is and why PM5 moving to different version may be of importance.

Microsoft .NET Framework is a 'foundation' provided by Microsoft and used by vast majority of Windowsbased programs for much of its basic functionality. PM5 is no different and uses Microsoft .NET Framework in all of its Windows components.

Up until now, .NET Framework used by PM5 was always of version 2.0. Now, as part of an effort to ensure that PM5 continues to be compatible with future versions of Microsoft Windows, we have now moved up – as of this version, PM5 is based on Microsoft .NET Framework 4.0.

Report 'Fault Statistics per Machine'

Report Activities / Faults Machines Select from list Tasks Fault statistics per list	r machine V Start 61-02-2019 *	Sorting Faults total Vew Report Descending Descending Full				
Spare Parts Select Select File View	īdit	No of rows 100				
Activity / Faults Consumption Groups	📑 🖬 🦕 🕄 🏈 🧠 🔍 200% 🔹 🍳 11 - 1	I - D - R (P - A - D (D - Z - (O -)				
Persons Reorders						
Stop Use of Man Power Control Economics Enformation	Р	M5 Release	Notes	s Exan	ples	
		Fault stat	istics per n	nachine		
	Тор	100 sorted on fault	statistics pe	r machine d	escending	
	Location Delta					
		19 - 2/28/2019				
		19 - 2/28/2019 Machine Name	Faults total	Sparepart Cost Summary	Total stop time	Total ext. services
	Period 2/1/20		Faults total		Total stop time	Total ext. services
	Period 2/1/20 Machine No	Machine Name		Summary		
	Period 2/1/20 Machine No 1. 31072009-912	Machine Name Machine Julie	4	Summary 0.00	0.00	
	Period 2/1/20 Machine No 1. 31072009-912 2. 31072009-018 31072009-018	Machine Name Machine Julie Machine Selene	4	Summary 0.00 800.00	0.00	0.00
	Period 2/1/20 Machine No 1. 31072009-012 2. 31072009-018 3.	Machine Name Machine Julie Machine Selene Machine Persephone	4 3 2	Summary 0.00 800.00 0.00	0.00 602.00 0.00	0.00 0.00 1500.00

We have added new rapport to section 'Activities/Fault'.

This new rapport presents a top list of machines based on number of faults reported in PM5 during time period specified by user. A simple overview of costs caused by reported faults is also included.

User can specify how many machines are to be included in this list by entering a value in field 'No of rows'. Selection of machines can be limited to specific location. User can also select what column is to be used for sorting; it is however important to remember that the selection of machines included in the report is always based on number of reported fault, regardless of what sorting column is selected by user.

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Report 'Unused Spare Parts'

Reports		_						
Report	Select from list	Options	View Report					
Machines	Unused spareparts	Exclude spare parts with no stocks in PM5	Partial					
💕 Tasks	Select 2	Exclude spare parts with current stock = 0	Full					
Spare Parts	View Edit	-						
Suppliers	1 👂 🖬 🗗 🗛 🗛 🖓 🧐	A, A, 150% → A, H → D B	ዮ 🐁 🔯 🚡 • 🖂 • 🕝 🕫					
Activity / Faults								
Consumption								
Groups								
Persons								
Reorders		D	M5 Release	Notos	Evam	nloc		
Stop		F	FIJ REIEBSE	notes	Lланн	hiea		
🧦 Use of Man Power								
Economics Information								
Economics Information								
Economics Information			parts not used in time	-	-			Totalstock
Economics Information	Spare Pa		parts not used in time	Last consumption	1/2018 - Price per unit		019 Stock locations	Total stock value
Economics Information	Spare Pa SP-0001	rt No Span		Last	-			
Conomics Information		rt No Span Span	re Part Name	Last	Price per unit	In Store	Stock locations	value
Economics Information	SP-0001	rt No Spar Spar Spar	re Part Name e Part Aghamora	Last consumption	Price per unit	In Store	Stock locations	value 15400.00
Economics Information	SP-0001 SP-0002	rt No Spar Spar Spar Spar	re Part Name re Part Aghamora re Part Brenna	Last consumption	Price per unit 100.00 100.00	In Store 154 188	Stock locations 2 2	value 15400.00 18800.00
Conversa information	SP-0001 SP-0002 SP-0003	rt No Spar Spar Spar Spar Spar Spar	re Part Name e Part Aghamora e Part Brenna e Part Congalie	Last consumption 05-04-2016	Price per unit 100.00 100.00 113.00	In Store 154 188 4	Stock locations 2 2 1	value 15400.00 18800.00 452.00
Conversa infermetion	SP-0001 SP-0002 SP-0003 SP-0005	rt No Spar Spar Spar Spar Spar Spar Spar	re Part Name e Part Aghamora e Part Brenna e Part Congalie e Part Eveleen	Last consumption 05-04-2016 23-11-2017	Price per unit 100.00 100.00 113.00 100.00	In Store 154 188 4 195	Stock locations 2 2 1 2	value 15400.00 18800.00 452.00 19500.00
Earone inference	SP-0001 SP-0002 SP-0003 SP-0005 SP-0007	rt No Spar Spar Spar Spar Spar Spar Spar Spar	re Part Name e Part Aghamora e Part Brenna e Part Congalie e Part Eveleen e Part Gobinet	Last consumption 05-04-2016 23-11-2017	Price per unit 100.00 100.00 113.00 100.00 10.00	In Store 154 188 4 195 140	Stock locations 2 2 1 2 2 2 2 2	value 15400.00 18800.00 452.00 19500.00 1400.00
Earona information	SP-0001 SP-0002 SP-0003 SP-0005 SP-0007 SP-0008	rt No Spar Spar Spar Spar Spar Spar Spar Spar	re Part Name e Part Aghamora e Part Brenna e Part Congalie e Part Eveleen e Part Gobinet e Part Hiolair	Last consumption 05-04-2016 23-11-2017	Price per unit 100.00 100.00 113.00 100.00 10.00 100.00	In Store 154 188 4 195 140 100	Stock locations 2 1 2 1 2 1 2 1 2 1 2 1	value 15400.00 18800.00 452.00 19500.00 1400.00 10000.00
Earona information	SP-0001 SP-0002 SP-0003 SP-0005 SP-0007 SP-0008 SP-0008	rt No Spar Spar Spar Spar Spar Spar Spar Spar	re Part Name e Part Aghamora e Part Brenna e Part Brenna e Part Congalie e Part Eveleen e Part Eveleen e Part Hiolair e Part Liadain	Last consumption 05-04-2016 23-11-2017	Price per unit 100.00 100.00 113.00 100.00 100.00 100.00 100.00	In Store 154 188 4 195 140 100 100	Stock locations 2 1 2 1 2 1 2 1 1 1 1	value 15400.00 18800.00 452.00 19500.00 1400.00 10000.00

New report, called 'Unused spare parts', has been added to section 'Spare Parts'.

Purpose of this report is to help identify spare parts that are no longer in use, but still take up place at stores.

This report shows spare parts that have not been used during time period starting with date selected by user and ending at current system date. Spare parts included in this list have not been consumed in connection with faults or activities.

Last Consumption column is the key information in this report. If date shown in this column lies very far back in time, it is clear indication that the spare part is no longer in use. If on the other hand, there is no date at all in this column, then spare part may be new or never used.

Custom, permanent filter present this report allows user to remove:

- Spare parts that have no stocks specified in the system. This allows user to remove spare parts that are not stored at local stores.
- Spare parts with current stocks = 0.

Report 'Stocks and consumptions with prognosis'

🛃 Reports						
Report	Select from list		View Report			
O Machines	Stocks and Consumption With Pro	ngnosis v 2	Partial			
🥑 Tasks	Select	~	Ful			
Spare Parts	File View Edit					
Suppres 1	: Al 🗁 🖬 🗗 🖧 🕞	🖳 🥎 🔍 🔍 170% 🔷 🔍 🖂 🔺 🕨 🗄	2 🗄 🛛 🗋 • 🖂 • 🔕 📮			
Activity / Faults			ME Dologoo Notoo			
Groups		PI	M5 Release Notes	Examp	ies	
A Persons						
neorders						
Stop			Stocks and Consumption Wi	th Prognosis	5	
🧦 Use of Man Power			1/1/2019 - 12/31/2			
Economics Information						
		Location All				
		Spare Part No	Spare Part Name	Planned	Actual	In Store
		26	Spare Part Agata	187	3	0
		SP-0001	Spare Part Aghamora	2	0	154
		SP-0018	Spare Part Aurnia	0	4	164
		SP-0002	Spare Part Brenna	5	0	188
		SP-0019	Spare Part Brighid	0	3	382
		SP-0020	Spare Part Carlin	0	0	74
		SP-0003	Spare Part Congalie	255	5	-1
		250	Spare Part Coreen	11	0	318
		SP-0021	Spare Part Dairine	0	0	90
		SP-0004	Spare Part Damhnait	1	3	107
		SP-0022	Spare Part Eirieen	153	3	99
		SP-0005	Spare Part Eveleen	163	0	195
		SP-0023	Spare Part Felicia	204	4	94
	4					

New report, called 'Stocks and Consumptions with Prognosis', has been added to section 'Spare Parts'.

IMPORTANT – this report uses data generated by Prognosis function. To get accurate prognosis of planned consumptions, please ensure that Prognosis has been run recently before creating this report.

Before the report can be generated, user needs to specify time period it is to cover. Once time period of interest is specified, the report will generate a list of spare parts along with three quantities:

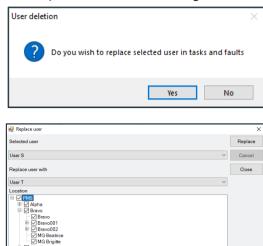
- consumption quantity planned for specified time period
- actual consumption that has already taken place during specified time period
- current quantity in store.

If planned consumption for spare part is larger than current quantity in stock, such spare part will be flagged with red background.

What spare parts are to be included in this report can be controlled by user in usual manner with help of Custom Filter.

Administration module - User deletion and replacement function

User replacement has been integrated into user deletion procedure.



• After a user is selected for deletion, PM5 will ask if user about to be deleted is to be replaced by another user.

• If 'Yes' was selected, then user replacement form will be shown on screen.

User replacement function allows for replacement of one user with another in following parts of PM5:

- * 'To be signed by' fields of tasks.
- * 'To be signed by' fields of activities.

* All man-hours consumptions specified at the time of replacement in tasks and jobs that are **not completed**.

Replacement of users does **not take effect** in jobs that are already completed, so historical data is preserved.

- To replace a user, select user to be replaced in combo box 'Selected user'. When user replacement is part of user deletion, the user about to be deleted is preselected when replacement form is opened.
- o Next, select user who will be used as replacement.
- Finally select which locations are to be included in replacement procedure. Replacement will take place only for tasks and jobs that belong to machines located at checked locations.
- \circ $\;$ Then press on button 'Replace' to run replacement procedure.

Please observe that replacement procedure can be run multiple times in a row. By selecting different locations in each run, it is possible to re-assign tasks and jobs of a single user to multiple replacement users.

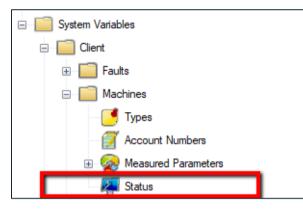
		×
Selected user		Replace
User S	~	Cancel
Replace user with		Close
User T	~	
Lacation Constant of Alpha Con		

• Once started, progress of replacement procedure is being indicated by a progress bar at the bottom of the screen. When replacement sequence completed, user is notified by a message shown in example picture to the left.

It is possible to interrupt replacement process while it is running (for example if it takes very long time), but please remember that replacement procedure does not revert and whatever replacements were done while replacement is running will **not** be reverted to original condition after 'Cancel' button has been pressed.

New system variables

Machine status



Machine				×
Machine Number		Account Number		
31072009-909	Active	555-666-777-888		~
ID Code		Status		
909		Select		-
Machine Name		Select		
Machine Helene		Auxiliary Equipment-Generic Backup Equipment		
Bar Code		Core Equipment Line A Core Equipment Line B Core Equipment Line C Test for delete 1 Test for delete 2		
Location	~	400		
Date		400 Stop Group		
3/ 5/1996		Select		
	<u> </u>	Select		~
Type Saw	~	Use Measured Value		
Supplier		Measured Parameter		
Supplier Bunko	×	Select		
Manufacturer		Unit	Units Per D	81/
QRF	~	CHR.		ay
Machine Note				^
		Print Barcode	Save	Expand Cancel

New system variable with label Status has been added to machines.

Like other system variables, list of labels available for use in Machine Status field is specified in PM5 Administration.

• Select 'Status'

• Move mouse to right section of Administration module and click right mouse button. Select operation to be performed (Add, Edit, Delete) from quick menu.

Machine Status is a non-mandatory system variable, selectable for each individual machine in PM5.

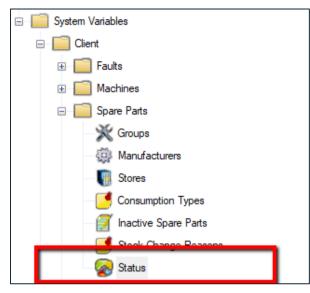
To select Status for an individual machine, open it for editing and select status from the list shown in combo box.

Machine Status is also one of the fields that can be handled with help of Machine Batch Edit function, which is also new addition in this release.

Machine Status is presented in main data grid of machine section.

Machine Status can be used for searches and filtering of data with help of filter tool.

Spare Part Status



Spare Part	×
Spare Part Number	Group
SP-0008	Cable ~
Type Number	Status :
0008	Legacy ~
Secondary ID Second Page Listing Spare Part Hiolair Dimension 77 - 10	Select Critical - electric equipment Depricated Everyday Consumable Lestoy Midrange Consumables Rare useage Special Order pcs Cost Price
	100.00
Spare Part Note	
Lorem ipsum dolor sit amet, consectetur adipiscing elt. Vivamus viverar a Nulla sed lacus et eros pellerteaque commodo qui stempor libero. Intege eu vivera mi erat id mi. Nulla tincidunt et felis id fermentum. Ut est erat, p In ac purus feuglat, auscipit uma a, cursus justo. Sed ut neque neque. N luctus as evolutad non, rhoncus ut odio. Pellerteaque libero liguà, comare elefend sed, sagitti se ut dam. Sed rutrum nunc eget orci consequat, ven mattis.	r consequat, lorem ut vehicula fringila, libero odio suscipit tortor, orta quis consectetur at, efficitur sodales massa. estibulum commodo et diam ut fermentum. Biam arcu augue, vitae feugiat i, tincidunt in velit. Fusce lacus uma, laoreet ac
Vestibulum tempus velit vitae dictum hendrerit. Quisque augue ex, facilisi	s at luctus ac, lobortis eu massa. Donec condimentum tortor
	Expand
	Print Parcode Save Cancel

New system variable with label Status has been added to spare parts.

List of labels available for use in Spare Parts Status field needs to be specified in PM5 Administration.

• Select 'Status'

• Move mouse to right section of Administration module and click right mouse button. Select operation to be performed (Add, Edit, Delete) from quick menu.

Spare Part Status is a non-mandatory system variable, selectable for each individual spare part in PM5.

To select Status for an individual spare part, open it for editing and select status from the list shown in combobox.

Spare Part Status is also one of the fields that can be handled with help of Spare Part Batch Edit function, which is also a new addition in this release.

Spare Part Status is presented in main data grid of machine section.

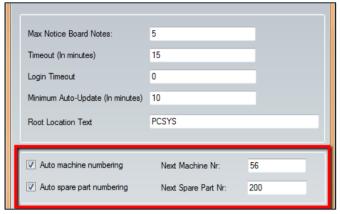
Spare Part Status can be used for searches and filtering of data with help of filter tool.

Changes in auto-generated part numbers for machines and spare parts

An auto-generated part numbers suggestion for new spare parts has been present in PM5 since very first version. In one of recent releases, same feature has been created for machines.

Auto-generated part number suggestion was intended to be a simple function – when new machine or spare part was created, a unique id number was suggested to the user. Starting value for suggested numbers was 1 and upon each suggestion was increased by one.

In this release, auto-generated part number suggestion has been modified to allow users much more control over this function.



In Administration module, Settings form, there are now two new fields:

- Next Machine Nr:
- Next Spare Part Nr:

Numbers in these new fields show what number will be as part number **next** new machine or spare part is added to the system.

Administrator can at any time modify values in those two fields. This allows following new functionality:

- When PM5 is initially set up and configured, administrator can specify exactly what numbers are to be used as starting point for part number suggestions. Default starting value is still 1 immediately after installation of PM5, but it can now be changed to whatever number that is preferable.
- If users, for some reason, wish to move on to new starting number (for example if 'batches' are used for part numbers), they can simply enter new, higher value in appropriate field. For example, let's say that year when machine was added to the system is to be indicated by first digits of machine's part number. Suggested part number for machines could then the beginning year one be set to 1000. At beginning of year two, all user needs to do is to change value in field 'Next Machine Nr.' to 2000 (of course under condition that less than 999 machines were added to the system in course of first year).
- In PM5, new part number is suggested only once. Next suggested number will be increased by one, even when previous suggested number was not used and registered in PM5 (for example if user tries to create new machine, but changes his mind and presses 'Cancel' button). Some of our users expressed wish to re-use unused numbers. This is now possible, by simply re-entering original starting number in appropriate field. Autosuggesting function will then automatically move past all part numbers in use and suggest next number that is not in use.

Example

Starting value for machine part numbers was set to 1000. Next suggested number is now 1051. Part numbers 1017 and 1045 are not in use, either because machines with those numbers have been deleted or because numbers were not used at the time they were suggested.

User opens Administration module and in Settings section sets Next Machine Nr. to 1000. Next suggested part number for machine will then be 1017, next 1045 and then (once again) 1051.

New columns in main data grids

Until this release, all columns displayed in main data grids belonged directly to displayed records. In this release, we have added a couple of columns relevance of which may not be immediately apparent and may need short explanation.

File View Tools	Filter Help						
Location P	Machines Tasks Spi	are Parts Suppliers Activities	s / Faults				
⊢ <mark>⊜ PCSYS</mark>	Task Name	 Task Type 	Machine Name	Machine No	Last Completed	Next Scheduled	Active
🗉 🖴 Alpha	TASK Margot 001	Unplanned Maintenance	Machine Margot	31072009-914			
🖶 🖨 Bravo	TASK Persephone 001	Monthly Maintenance	Machine Persephone	31072009-016	2/7/2019	3/11/2019	V
🖶 🖴 Charlie							_
🖶 🖨 Delta							
🗉 🖴 Echo							
🗄 🖨 Foxtrot							
e							
🗉 🖴 Golf							
⊪ 🖨 Golf ⊸ 🖨 Hotel							

Tasks - Last completed and Next Scheduled columns

In Task section, we have added two new columns:

- Last completed this field shows completion date of last finished activity based on the task.
- Next scheduled this field shows scheduled date for next planned activity based on the task.

These two columns have been added to improve overview of task condition. Tasks that are delayed, approaching completion date or maybe are 'abandoned' and no longer in use can now be easily found simply by sorting tasks on one of those dates.

Spare Parts - Last consumption

🙀 \land 🗋 🍕 😫 🗖 📲 🤹						PCSYS	Maintenance 5 - L	ogged In: pm5 - Li	censee: PCSYS A/S	
File View Tools	Filter Help									
ocation 4	Machines Tasks Spare Parts	Suppliers Activities	/ Faults			_				
l ⊜ <mark>MABE Test</mark> i∋ ⊜ Alpha	Spare Part Name	A Spare Part Number	Manufacturer Name	Type Number	Last consumption	Price	Attachment	In Store	Secondary ID	Status
Bravo	SP-500	500	Italeri	20190117-001		0.20		0	20190117	Rare use - in stock 2
🖬 🖨 Charlie	Spare Part Agata	26	Tamiya	20180925-001	2/24/2019	14.75		0	Secondary D	Case to case use
Delta	Spare Part Aghamora	SP-0001	Fujimi	0001	2/21/2019	100.00		136		Case to case use
Echo	Spare Part Aumia	SP-0018	QRF	0018	2/21/2019	250.00		160	Secondary B	Case to case use
Echo Foxtrot	Spare Part Brenna	SP-0002	QRF	0002	2/24/2019	100.00		186		Case to case use
GEO	Spare Part Brighid	SP-0019	Fujimi	0019	2/21/2019	100.00		238	Secondary A	Case to case use
Golf	Spare Part Carlin	SP-0020	Tamiya	0020		100.00		84		Case to case use
Hotel	Spare Part Congalie	SP-0003	Tamiya	0004	1/17/2019	125.00		100	Secondary C	Case to case use
🗎 🖬 India	Spare Part Coreen	250	Tamiya	0019	2/24/2019	100.00		43		Case to case use
🖕 Juliet	Spare Part Dairine	SP-0004	Osprey	111	2/21/2019	100.00		110	222	Case to case use
E Kilo	Spare Part Damhnait	SP-0021	Osprey	111	10/31/2018	120.00		110	222	Custom order only
🗎 🖨 Lima	Spare Part Eirleen	SP-0022		111	2/24/2019	11.25		107	222	Custom order only
	Spare Part Eveleen	SP-0005	Fujimi	2018-11-21	2/21/2019	25.00		17	TI-5	Custom order only

In Spare Part section, we have lifted up date for last consumption of spare part into main data grid. The idea here is to enable users to quickly find spare parts based on when they have been used. User could for example wish to find out which spare parts were used in last couple of days or maybe find spare parts that have not been used for very long time and should be removed from the system.

Please observe that this column is intended to complement rapport *Unused Spare Parts*, another new addition in this version of PM5.

Batch update tool

General description

Until now, editing multiple records in one of main data sets of PM5 could be a bit of a chore. For example, if user wanted to change machine type for ten different machines, then user would have to 'open' first machine for editing, new machine type selected and the change had to be saved. Then same operation had to be done for each of remaining nine machines.

A BUBBA 1 12/1/2 116 1/16/2 116 01 1/16/2 116 02 2/14/2 116 03 1/16/2 23 5/11/2 23 12/12/ 24 12/13/ 11 4/15/2 220-001 12/20/ 12/20/ 220-002 12/20/ 220-004 12/20/	2019 1154 2018 494 2018 2018 2018 2773 2018 7773 2018 7773 2018 7783 2010 282 2010 8425 2010 8425 2010 1145	445 00 001-3 00 Mach 00		Sa Pito Bo Ba Ba	ET4 Delete T W
2/14/2 110-001 1/10/2 23 9/11/2 201-001 12/1/2 2 12/19/ 220-001 12/20/ 220-001 12/20/ 220-003 12/20/ 220-003 12/20/ 220-004 12/20/	2018 443.0 2019 565-4 2018 777.2 2018 778.1 2019 263-4 2010 24.22 2010 24.22 2010 24.22 2018 1145 202018 1145 202018 1145	00 Mach 4.00 Mach 25 Mach 00 Mach 5 Mach 55 00 Mach 59 00 Mach	ine Kalypso ine Isabelia ine Helene ine Manetta ine Capricia ine Soft- ine Ale Creat	So Pic Ba Ba	ew oceasor Rer smitter
110-001 1/19/2 23 9/11/2 201-001 12/1/2 2 12/1/2 2 12/1/2 2 12/1/2 2 12/1/2 2 12/1/2 220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-004 12/20/	2019 9654 2018 777.2 2018 778.4 M2018 1250 2010 24.23 M2018 1145 M2018 1145 M2018 1145	4 00 Mach 25 Mech 00 Mach 0.00 Mach 5 Moch 55 00 Mech 55 00 Mech	ine Isabela ine Helene ine Capitola ine Capitola ine Soft ine Ale Creat	Bol Ha Bar Bar Bar	ocessor Rer anmer
23 9/11/2 201-001 12/1/2 2 12/1/2 11 4/19/2 220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-003 12/20/ 220-004 12/20/	2018 777.2 2018 778.4 A/2018 1250 2010 24.25 V/2018 1145 V/2018 1145 V/2018 1145 V/2018 1145 V/2018 1145	Z5 Mach 00 Mach 0.00 Mach 15 Mach 59.00 Mach 59.00 Mach	ine Helene ine Marietta ine Capricia ine Solit- ine Ale Creat	Bol Ho Bat	Rer
201-001 12/1/2 2 12/19/ 11 4/15/2 220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-003 12/20/ 220-004 12/20/	2018 778.0 M/2018 1250 2010 24.25 M/2018 1145 M/2018 1145 M/2018 1145 M/2018 1145	00 Mach 0.00 Mach 15 Mach 59.00 Mach 59.00 Mach	ne Marietta ine Capricia ine Soft ine Ale Creat	He Bat	ammer
2 12/19/ 11 4/19/2 220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-004 12/20/	2018 1250 2010 24.23 V2018 1145 V2018 1145 V2018 1145	0.00 Mach 55 Mach 59.00 Mach 59.00 Mach	ine Capricia ine Scen ine Als Creat	Ba	
11 4/19/2 220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-004 12/20/	2010 24.23 M/2018 1145 M/2018 1145 M/2018 1145 M/2018 1145	59.00 Mach 59.00 Mach 59.00 Mach	ne Sola ne Ala Creat	e.	tch Update 1
220-001 12/20/ 220-002 12/20/ 220-003 12/20/ 220-004 12/20/	V2018 1145 V2018 1145 V2018 1145	59.00 Mach 59.00 Mach	ine All Creat		
220-002 12/20/ 220-003 12/20/ 220-004 12/20/	1/2018 1145 1/2018 1145	59.00 Mach	ne Ak Creat		
220-003 12/20/ 220-004 12/20/	1/2018 1145				
220-004 12/20/					
				cell value	
	/2018 994.0	.00 Mach	ne Be Edit.		
A BUBBA 2 4/1/20	005 999.0	00 Mach		edit	
2 1/10/2	2019 1250	0.00 Mach	ne Ca	e	1 1
23 9/11/2	2018 550.0	.00 Mech	ne Ma Searc	h Ctrl+	Q
110-003 1/10/2	2019 456.0	.00 Mach	ine Sa Add	to Filter	
2 4/19/2	2004 1250	0.00 Mach	ine Be Copy	selected rows	te 1
A BUBBA 1 2/5/20	999.0	00 Mach	ne Ch Help		
LA MIPE T 5/2/20	007 7789	99.00 Mach	ine De Prop	erties	
2 7/30/2	2006 1250	0.00 Mach	ine Be Show	All Columns	te 1
10/27/	7/2003 965.0	.00 Mach	ne Fro Hide	All Columns	
	10-003 1/10/ 2 4/19/ A BUBBA 1 2/5/2 A MIPE T 5/2/2 2 7/30/	10-003 1/10/2019 456 2 4/15/2004 125 A BUBBA 1 2/5/2004 999 A MIPE T 5/2/2007 778 2 7/30/2006 125	10-000 1/10-2019 456.00 Mach 2 4/19-2004 120.00 Mach 48/08A.1 225/2004 999.00 Mach A MIPET. 52/2007 77899.00 Mach 2 7/20.2006 1250.00 Mach	3 3 11/21/9 4/6 Machine Addition 3 11/21/9 4/6 Machine Addition 3 11/21/9 4/6 Machine Addition 3 11/20/9 4/6 Machine Addition 4 11/20/9 4/6 Machine Addition 4 11/20/9 4/6 Machine Machine Machine 4 11/20/9 11/20/9 11/20/9 Machine M	2 0.0007 400.00 Multimer Addro Faller 2 0.100.071 400.00 Multimer Addro Faller 2 0.100.071 400.00 Multimer Copy selected reveal 2 0.100.071 200.00 Multimer Copy selected reveal Copy selected reveal AMPCT 0.20007 77999.00 Multimer Multimer Proprintin 2 70000000 1200.00 Multimer Save Ad Columns

With Batch Edit tool, this change can be done for all ten machines at once – select machines where Machine Type is to be done, open Batch Edit form, select Machine Type you wish for machines to have and complete the update by pressing 'Update' button. That is all.

Batch update tool is available for four of the five main sections in PM5 client – Machines, Tasks, Spare Parts and Activities/Faults.

To use Batch Update, start by selecting one or more rows in main data grid. Next, press right

mouse button and select 'Batch update'. This action will open Batch Update form for currently selected section in PM5 Client.

Picture to the left shows quick menu for Machines and position of Batch Update menu item.

Using Batch Update Tool

Batch update forms allow editing and changes in multiple records at once. Batch update tool is available for Machines, Tasks, Spare Parts and Activities/Faults and allows editing of values that can be the same for multiple records. For example, many machines share same machine type, while multiple tasks can use same Technical Group.

Values that have to be unique for individual records cannot be handled with help of Batch Update Tool. For example, machine number must be unique for each machine – therefore, any changes in that field can only be done for one machine at a time.

While fields in each Batch Update form are different, each form works in same way:

- Start by selecting records in main data grid that are to be modified.
- Open Batch Update form.
- Type in values in text fields that are to be modified.
- Select values in combo boxes that are to be modified. Observe that if no selection is valid choice in a combo box, then at the bottom of selectable list there will be a selection that resets selections already made to *No selection*. For example if you wish to remove a Priority from selected tasks, select *No priority* in Priority combo box of Task Batch update form. This will remove all already selected priorities from tasks that are to be updated.
- If no change is to be done in a field, then leave it as it is. Updates are only made in fields and comboboxes where values have been entered.
- Modifications to note fields can be done it one of two ways:
 - As default, any text entered in Notes field of Batch Update form will be **added** to any already existing text in Notes fields of records that are to be updated.
 - If user wishes to replace existing notes with text entered in Batch Update Form, then 'Overwrite existing note' needs to be checked in before update is committed. If such selection is done, then all texts in Notes fields for selected records will be overwritten with new content.



- To apply changes to selected records, press 'Update' button.
- Before changes are applied, user will be presented with a list of fields that will be updated and what values will be used in the update. Below is an example of an update to spare parts. By pressing 'OK' button user will commit the changes. By pressing 'Cancel' user will discard the update and Batch Update form will close without any changes being done.

Spare part	batch update
2	Following fields will be modified in selected spare parts Spare Part Type No: 555-125 Status: Long waiting time Group: Battery Spare Part Note: Check with manager before using in maintenance. Overwrite existing note: No
	OK Cancel

• Under some circumstances, requested changes may not be valid for one or more selected records. When such situation occurs, user will be notified with an error message.

Please observe that all updates that are valid will always be performed.

Batch Update Tool for Machines

Fields and parameters without new conte New machine note is by default appended	nt will not be changed. d to existing machine not		
To replace old notes with new one, check	in 'Overwrite existing no	tes' radio button.	
Machine Type		ID Code	
Select	•		
Supplier		Price	
Select	•		
Manufacturer		Capacity	
Select	•		
Account		Power	
Select	•		
Stop Group		Measured Parameter	
Select	•	Select	•
Machine Status :			
Select	•		
-Handling existing note			
	verwrite existing note		
	Vervinite existing note		
Machine Note			
			<u> </u>

Machine batch editing tool allows editing of following fields of machines selected in main data grid:

- **Machine type** allows change to one of machine types currently specified in PM5. Since machine type is a mandatory machine value, there is no option to set machine type to 'no selection'.
- **Supplier** allows change to one of suppliers currently present in the system. Supplier is a mandatory value for machines, therefore there is no option to set machine supplier to 'no selection'.
- Manufacturer allows change to one of manufacturer specified in PM5 Administration.
- **Account** allows change to one of machine accounts specified for the system. If previously selected accounts are to be removed as selection for machines, then select 'No account' in this combo box.
- **Stop Group** allows change of stop group to which machines belong. If user wishes to remove previously selected stop groups for machines selected in data grid, then selection 'No stop group' is to be selected in this combo box.
- **Machine Status** allows change of machine status of machines selected in main data grid. If user wishes to remove any previously selected status, then value 'No selection for machine status' is to be selected in this combo box.
- ID Code, Price, Capacity, Power any text entered in one of those four fields will replace current values in corresponding fields of machines selected in main data grid. If no input is made in these fields, then no changes will be made to values currently specified for selected machines.
- Measured Parameter allows change of measured parameter used by machines currently selected in main data grid. Selection of 'No measured parameter' will remove measured parameter currently used by selected machines. Please consider carefully changes done to measured parameters in this manner, since those changes will affect any tasks dependent on them for scheduling purposes.



• **Machine Note** – if 'Append to existing note' is selected, then any text entered in this field will be added to already existing machine notes. If 'Overwrite existing note' is selected, then text entered in this field will overwrite any text present in Machine Note field of selected machines.

T tecsys

Batch Update Tool for Tasks

ask Batch Update		
Select or enter new values for tasks to be updated. Fields and parameters without new content will not be changed. New task note is by default appended to existing task note. To replace old notes with new one, select 'Overwrite existing notes	' radio button.	
Task Name	Days	Units
Task Type	Locked	
Select	Don't change current status	▼
Technical Group	Approval Required	
Select 💌	Don't change current status	▼
To Be Signed By	Priority	
Select	Select	•
Handling existing note Overwrite existing note Task Note :		
	U	pdate Cancel

Task batch editing tool allows editing of following fields of tasks selected in main data grid:

- **Task name** name entered in this field will replace name specified for tasks currently selected in main data grid. See additional information below.
- Task Type allows change to one of task types currently specified in PM5. Since each task must have specified task type, there is no option to set task type to 'no selection'. Also observe that there can be no more than a single task per machine that has same task type and name. If user specifies an update of name and task type for more than one task for same machine, then only first of those tasks will be updated. Changes to remaining tasks belonging to same machine will be discarded and a warning message will be presented on screen.
- **Technical Group** allows change to one of technical groups specified for the system. If previously selected technical groups are to be removed as selection for the tasks, then select 'No technical group' in this combo box.
- **To be signed by** allows selection of person responsible for the tasks currently selected in main data grid. Since it is not allowed to have tasks without valid selection in this field, there is no 'no selection' in this combo box. Please observe that changes in this field cascade over to all **unfinished** activities that are based on tasks that are to be updated.
- Days value entered in this field will overwrite current value specified in this field for all tasks selected for update. 0 is **not** a valid input in this field. Please observe that change of this value does not trigger rescheduling of next unfinished activity and will be used for scheduling only **after** current unfinished activity is finished.
- Units value entered in this field will overwrite current value specified in this field for all tasks that belong to machines with specified measured parameter. If machine to which task belongs lacks specified measured parameter, then updates requested for this field will be discarded. 0 is not a valid



input in this field. Changes in this field will come into effect next time activity re-scheduling is triggered (usually next time read value is entered for relevant measured parameter).

- **Locked** here user can switch on or off Interval locked conditions for tasks selected in main data grid.
- **Approval required** here user can switch on or off approval requirement for tasks selected in main data grid.
- **Priority** allows change of priority of tasks selected in main data grid. If user wishes to remove any previously selected priority, then value 'No priority' is to be selected in this combo box. Change of task priority affects immediately all unfinished activities that belong to edited tasks. Status of finished activities is not affected.
- **Task Note** if 'Append to existing note' is selected, then any text entered in this field will be added to already existing task notes. If 'Overwrite existing note' is selected, then text entered in this field will overwrite any text present in Task Note field of selected tasks.

Batch Update Tool for Spare Parts

Spare Part Type No Select Secondary ID Unit Unit Select Unit Select Sele	pare part batch update	
Spare Part Type No Select Secondary ID Unit Unit Select Unit Select Sele	Fields and parameters without new content w New spare part note is by default appended t	ill not be changed. to existing activity note.
Spare Part Type No Manufacturer Secondary ID Unit Status Dimension Handling existing note Spare Part Note	Spare Part Name	Group
Secondary ID Unit Status Dimension Handling existing note Spare Part Note		Select
Secondary ID Unit Status Dimension Select Handling existing note Append to existing note Spare Part Note	Spare Part Type No	Manufacturer
Status Dimension Select Handling existing note Handling existing note Spare Part Note		Select
Select Handling existing note Append to existing note Spare Part Note	Secondary ID	Unit
Handling existing note Append to existing note Spare Part Note	Status	Dimension
Handling existing note Append to existing note Spare Part Note	Select	
		vrite existing note
Update Cancel		Y

Spare Part batch editing tool allows editing of following fields of spare parts selected in main data grid:

- **Spare Part Name** name entered in this field will replace name specified for spare parts currently selected in main data grid.
- **Spare Part Type No** value entered in this field will replace type number specified for spare parts currently selected in main data grid.
- **Secondary ID** value entered in this field will replace secondary ID specified for spare parts currently selected in main data grid.
- **Status** allows change of status of spare parts selected in main data grid. If user wishes to remove any previously selected status, then value 'No status selected' is to be selected in this combo box.
- **Group** allows change of group to which spare parts selected in main data grid are belonging. Since each spare part must belong to specific group, there is no 'No selection' available for this field.
- **Manufacturer** allows change to one of manufacturer specified in PM5 Administration. Manufacturer is a mandatory value for spare parts, therefore there is no option to set spare part manufacturer to 'no selection'.
- Unit, Dimension any text entered in one of those two fields will replace current values in corresponding fields of spare parts selected in main data grid. If no input is made in these fields, then no changes will be made to values currently specified for selected spare parts.
- **Spare Part Note** if 'Append to existing note' is selected, then any text entered in this field will be added to already existing spare part notes. If 'Overwrite existing note' is selected, then text entered in this field will overwrite any text present in Task Note field of selected spare parts.

Tecsys

Batch Update Tool for Activities/Faults

Batch update tool for activities and faults consists of two separate forms, each in its own pane. If jobs selected in main data grid are all activities or all faults, then only relevant pane will be shown on screen. If, on the other hand, selected jobs are a mix of both activities and fauls, then both panes will be shown on screen. In such case, it is important for user to remember that update values need to be entered in both forms, even if they have same meaning for both activities and faults (for example expected finish date for started jobs).

Batch Update Tool for Activities

Batch edit	×
Activity batch update Fault batch update	
Select or enter new values for activities that are to be updated. Fields and parameters without new content will not be changed. New activity note is by default appended to existing activity note. To replace old notes with new one, check in 'Overwrite existing note	es' radio button.
Activity started status	Approval status
Don't change current status	Don't change current status
Expected End Date	Approved By
2019-03-14	Select
Handling existing note	Priority
Append to existing note Overwrite existing note	Select
Activity Note	
	Update Cancel

Activities batch editing tool allows editing of following fields of activities selected in main data grid:

- Activity Started Status here user can switch on or of Activity Started status for selected activities.
- **Expected End Date** this field is automatically activated if Activity Started Status is set to 'Set to started'. Default selected date is always current system date. User needs to change selected date to expected finish date for jobs that will be marked as started.
- Approval Status here user can switch on or off approval status for selected activities.
- **Approved By** this combo box is activated only if Approval Status is selected to 'Set to approved'. When this condition is satisfied, user can specify approving person for activities selected in main data grid.
- **Priority** allows change of priority of activities selected in main data grid. If user wishes to remove any previously selected priority, then value 'No priority' is to be selected in this combo box. Change of priority affects only activities selected in main data grid.
- Activity Note if 'Append to existing note' is selected, then any text entered in this field will be added to already existing activity notes. If 'Overwrite existing note' is selected, then text entered in this field will overwrite any text present in Activity Note field of selected activities.



If Activity Note is empty, content of Activity Note belonging to selected activities will be unchanged by batch update.

Batch Update Tool for Faults

Batch edit	
ctivity batch update Fault batch update	
Select or enter new values for faults that are to be updated. Fields and parameters without new content will not be changed. Text entered in fault description and cause fields is by default appen To replace old notes with new content, check in 'Overwrite existing r	
Fault Started Status :	Fault Type
Don't change current status	Select 💌
Expected Finish Date: den 14 mars 2019	Cause Type Select
Approval Status : Don't change current status	Priority Select
Approved By Select	Technical Group
Handling existing note O Overwrite existing fault de	Alarm Code
Fault Description	
	×
Solution	×
	Update Cancel

Faults batch editing tool allows editing of following fields of spare parts selected in main data grid:

- Fault Started Status here user can switch on or of Fault Started status for selected faults.
- **Expected Finish Date** this field is automatically activated if Fault Started Status is set to 'Set to started'. Default selected date is always current system date. User needs to change selected date to expected finish date for jobs that will be marked as started.
- Approval Status here user can switch on or off approval status for selected faults.
- Approved By this combo box is activated only if Approval Status is selected to 'Set to approved'. When this condition is satisfied, user can specify approving person for faults selected in main data grid.
- **Fault Type** allows change to one of fault types currently specified in PM5. Since each fault must have specified task type, there is no option to set task type to 'no selection'.
- **Fault Cause** allows change of fault cause to one of causes currently specified in PM5. If user wishes to remove previously selected fault cause , then value 'Fault cause is not selected' is to be selected in this combo box.
- **Priority** allows change of priority of faults selected in main data grid. If user wishes to remove any previously selected priority, then value 'No priority' is to be selected in this combo box.



- **Technical Group** allows change to one of technical groups specified for the system. If previously selected technical groups are to be removed as selection for the faults, then select 'No technical group' in this combo box.
- Alarm Code any alarm code entered in this field will replace alarm codes currently specified for faults selected in main data grid. If nothing is entered in this field, then currently specified alarm codes will remain unchanged.
- Fault Description and Solution input in these two fields is handled according to same rules as those used for handling of Notes in other batch update fields. If 'Append to existing note' is selected, then any texts entered in these two fields will be added to already existing fault description and solution notes. If 'Overwrite existing' is selected, then texts entered in these two fields will overwrite any texts present in Fault Description and Solution fields of selected activities.

If these fields are empty, content of Fault Description and Solution fields of selected faults will be unchanged by batch update.

Release notes for PM5 version 5.13.2000

Job event log

Appearance of navigation tree and custom filter

Appearance of navigation tree is now user controllable in two respects:

- Font size used by navigation tree
- Text and background color used for selected location/machine group

Increasing and decreasing font size used by navigation tree

To adjust font size used by navigation, move mouse pointer over navigation tree and right click to bring up quick menu for navigation tree. If you're familiar with PM5, you will notice that there are three new menu choices at the bottom:

	New Machine
	Refresh
	Properties
	Expand all
	Collapse all
Г	Minimize font size
	Enlarge font size
	Reset font size

• Minimize Font Size – selecting this menu choice will decrease the font size used by navigation tree by one font size unit. This action can be repeated until the font size is according to user's preferences or until minimum allowed font size is reached. When this happens, user is notified that it's not possible to make the font any smaller. Minimum font size is 6px.

• Enlage Font Size – selecting this menu choice will increase the font size used by navigation tree by one font size unit. This action can be repeated until the font size is according to user's preferences or until or until a maximum allowed font size is reached. When this happens, user is notified

that it's not possible to make the font any larger. Maximum allowed pixel size is 20px.

 Reset Font Size – selecting this menu choice adjusts the font size to the size used currently as default font size for navigation tree – 8px.

Font size selected for navigation tree is a persistent personal setting – it can be selected individually by each user and is remembered between sessions.

Adjusting background and text color for selected location

This function allows the user to quickly change the colors used for display of currently selected location in navigation tree. Up until now, depending on type of screen, computer type and ambient lightning conditions, it could sometimes be difficult to see either what location is currently selected or what its name is. User has now complete control over this detail and can adjust colors according to own preferences.

Selection of colors used for selected location is done in user's personal settings. Open Options form and use following controls to adjust the colors in use according to personal preferences:

Op	otions			
	User Settings			
	Filter		Select	
	Auto-Update	(In minutes)	5	
	Show numbe	r of rows from the main grid.		
		Activity Color Code		Fault Color Code
	Started	0, 128, 0 -	Started	0, 128, 0 👻
	Delayed	255, 0, 0 -	Delayed	255, 0, 0 🗸
		Selected location		
	Background	255, 128, 0 -]	Preview
	Text	0,0,0]	
				Restore Colors
1				

Background – specifies background color for selected location

• Text – specifies text for selected location

• "Preview" shows how the combination of the selected colors will look on the screen.

• "Restore Colors" button restores color settings of selected location to default black text and mid-grey background color.

Color selection for selected locations is a persistent personal setting – it can be selected individually by each user and is remembered between sessions.

Changes to user replacement function

User replacement function has been reworked and is now much quicker, especially on PM5 systems with large amount of data and many locations.

User A	User		А
User B	User		В
User C	User	New	C
User D	User	Delete	D
User Global	user	Properties	Global
User X	User	Replace user	X
Replacing	Repl	Show Deleted Users	Acing
Techie A	Techie	Refresh	A
Techie B	Techie	Help	B

Basic functionality of user replacement function works the same as before. Selection of user to be replaced is done by right-clicking on user name in Administration/Users section and selecting 'Replace user' from quick access menu. This will bring up the 'Replace user' form. In 'Replace user' form, select replacing personal. Next select locations where the replacement is to take effect. To complete user replacement at selected locations, press 'Replace' button.

The adjustments in 'User Replacement' function result first and foremost in it being significantly faster than in previous versions.

Business logic of user replacement function has been slightly modified and automatically adjusts user rights of the replacing user:

• Replacing user becomes automatically a member in all technical groups in which the replaced user is a member.

Furthermore, user can track its progress through selected locations with help of progress bar shown at the bottom of the form while the replacement procedure is running.

Finally, user can interrupt replacement procedure in progress by pressing 'Cancel' button. Please observe that if the replacement procedure is interrupted, it **does not** restore the system to state before the procedure was started. Job assignments that have been adjusted prior to interruption remain assigned to replacing user, while those that haven't been handled are still assigned to original user.

🖳 Replace user	×
Selected user	Replace
User A 🗸	Cancel
Replace user with	Close
User D 🔹	
Location	
Image: Second	
User replacement procedure completed	

Job event log

Job event log is a new feature that allows users to document progress of individual jobs with help of notes formed in same manner as those in notice board.

To add new job event log note, open activity or fault and press button 'Job Log' in left lower corner. If job event log contains previous notes, then this is indicated by number of log posts presented above the button.

		Edit fault	
		Machine 31072009-910 - Machine Ines	Job No 210
Activities		Fault Type	Estimated Manhours 0.00
Signed By	Job No Priority	Discovered (Date)	Used Man Hours
Select	192 Anabelle 🗸	19. marts 2018	0.00
To Be Signed By		Discovered By	Signed By
User B	Done Started Fixed Date	pm5 •	pm5 🗸
Task Name	Date Scheduled	Priority	Started Expected End Date
Olivia 001	3/11/2018	Beatrice	27. august 2018
Type of Task	Activity Done	Alarm Code	
Monthly Maintenance			Approval Required Approved
Machine Number 31072009-918	Expected End Date	Technical Group	Approved By Select
		Select 💌	Select V Solved
Machine Name Machine Olivie	Used Man Hours Estimated Manhours 0.00 0.00 0.00		
	0.00	Ext. job exists	Date Solved
Ext. job exists	Approved	Ext. Job exists	6. juni 2018
	Approved By		Cause Type
			Electric 🔹
Task Note	Activity Note	Exult Description	Solution
Expand	Activity note	Fault Description	Solution
Job Log	Print Save Cancel	14 notes	Dist. Saus
JOB LOG	Finit Save Cancel	Job Log	Print Save Cancel

Job Event Log form presents all previously entered log posts that belong to the job. It also allows addition of new posts and editing of existing posts. Please observe that currently it is not possible to delete posts from the log, this omission is on purpose.

augue odio. Nunc pellentesque nisl metus, nec consectetur orci suscipit eu. Integer finibus diam quis velit interdum semper a a ex. Vivamus non risus non purus finibus congue. Nulla portitior nulla in lorem rutrum accumsan quis et leo. 8/27/2018 11:27 AM User A Pellentesque nulla nunc, ultrices in lacus a, interdum accumsan ante. Donec qui eleifend turpis. Etiam ligula nisi, dapibus non facilisis id, iaculis a tortor. Etiam vehicula vel diam non rutrum. Fusce rutrum, lacus at volutpat rutrum, urna libero volutpat elit, vitae cursus mi felis ac ante. Nunc congue id ante dapibus tempor. Sed sapien nibh, gravida ac metus id, malesuada congue eros. 8/27/2018 11:24 AM pm5 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin congue odio diam, vel sodales elit pellentesque volate la lacus en ultrices. Phasellu consequat	Date	Initials	Note
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To create new job event log post, press 'New' button'. This brings up a form that allows entry of text. Use of tabs and line shifts for formatting purposes is supported. By pressing on 'Save' button, the note is added to selected job event log. Each post consists of entered text, date and time when the note was saved or edited last time and finally who created/edited it.

To indicate presence of job event log posts, a new column called 'Job Log in Use' has been added to main data grid in Activities/Fault section of PM5 client. The column displays a checkbox, which is checked in if at least one job log note has been added to the activity or fault.

Filter He	lp				
Machines Task	s Spare Parts Suppliers	Activities / Faults			
Fault	Task Name // Fault Type	Machine No 💌	Date	Done Date	Job Log In Use
V	Critical	30072009-905	3/19/2018	3/21/2018	
V	Critical	30072009-905	3/23/2018	3/23/2018	
V	Critical	30072009-905	4/11/2018	4/11/2018	
	Critical	30072009-905	3/14/2018	3/19/2018	
	Critical	30072009-905	6/4/2018		
	Major	30072009-902	6/1/2018		
V	Critical	30072009-901	3/19/2018	3/19/2018	
	Agnes 001	30072009-901	2/14/2018	2/9/2018	
	Agnes 001	30072009-901	3/11/2018	2/15/2018	
	Agnes 002	30072009-901	2/9/2018	2/9/2018	
	Agnes 002	30072009-901	3/11/2018	3/19/2018	
	Agnes 001	30072009-901	3/17/2018		
	Agnes 002	30072009-901	4/18/2018	4/13/2018	
	Agnes 002	30072009-901	5/13/2018		
V	Critical	30072009-004	4/13/2018		
	Critical	02052018-001	6/6/2018		

Emergency login status reset when unable to log in onto PM5

Emergency login status reset is new function intended to provide quick solution to scenario where users cannot log in onto PM5, because all login slots are in use (even though they aren't). To make it easier to recover from such situation we have modified login procedure in following manner:

All login sl	ots are in use
<u> </u>	You cannot login at this moment, because maximum number of concurrent users allowed by your license has been reached.
	Please try again later or contact your system administrator.
	Manual Login Status Reset

 When user is not allowed to login because all login slots are in use, user receives following message. The upper part is the same as before and if user is aware that all login slots are in use, the situation is to be handled as normal – ask a colleague to log out and try logging in again.

In situations where users are "locked out" and there are no known logged in users in the system that could log out, then user can press "Manual Login Status Reset"

All login slots are in use				
	You cannot login at this moment, because maximum number of concurrent users allowed by your license has been reached.			
	Please try again later or contact your system administrator.			
	Enter login reset password here If you don't have reset password, contact PCSYS.			
	Reset login status Cancel			

- 2) When "Manual Login Status Reset" button is pressed, user activates the login reset function. User is to enter required password and press "Reset login status" button. This will have two effects:
 - a. 'Always Access' flag is reset for all users.
 - b. Logged in status is set to 'not logged in' for **single user** currently logged in on PM5. The user who is 'logged out' is the one with oldest login timestamp in database.





3) If emergency login reset was successful, then user should receive a confirmation message, which will also inform the user about how many more times the function can be used.

All login sl	ots are in use
1	Login reset function was used maximum allowed number of times. If problem persists, contact your PM5 administrator. To return to login screen, press Cancel button.
	Cancel

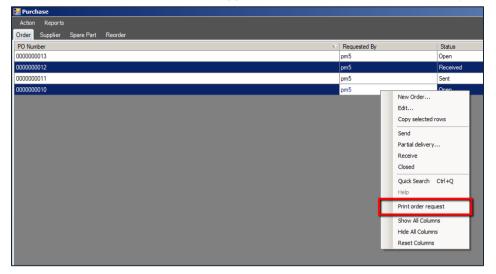
4) By default, the emergency login reset function can be used a **maximum of five times**. Thereafter the function is disabled and subsequent attempts will result in message shown above. If that happens, it is recommended for PM5 administrator to contact PCSYS.

After a successful emergency login reset, it is highly recommended that the person who logs in onto PM5 is also a system administrator. After logging in onto the system, administrator user should immediately open Administration module and make necessary adjustments in Users section.

Purchase module -printout of order requisitions for individual orders

Up to now, the printout of purchase order requisitions could be done when order status was changed from *Open* to *Sent* or by ordering printouts through filter tool. This procedure has now been simplified.

To print one or more order requisitions, user needs to select the orders for which requests are printed and click on right mouse button to bring up quick menu for orders. Then, to print the requests, select menu item *Print order request*. This action will trigger printout of requests for all currently selected orders.



Change in business logic when deleting unfinished activity

Up till now, PM5 allowed deletion of an unfinished activity, even though such action meant that the task to which the activity belonged was deactivated for all practical purposes.

The business logic for this scenario has now been adjusted to reflect practical consequences of deletion of active activities. As example picture below demonstrates, when activity about to be deleted is unfinished (Date Done field is empty), user needs to approve the action before proceeding. When deletion is approved, the task to which the activity belongs will be automatically set to disabled status.

ult -	Task Name // Fault Type	Machine Name		hine No	Date	Done Date	
	Agnes 001	Machine Agnes	7330	072009-901	4/24/2016	5/24/2016	_
	Margot 001	Machine Margot	7331	1072009	4/26/2016		
	Nina 001	Machine Nina	7331	072009-916	5/26/2016		
	Olimpia 002	Machine Olimpia	7331	072009-015	5/11/2016		
	Agnes 001	Machine Agnes	7330	072009	6/23/2016		
	Elouie 001	Machine Elouise	7330	072009	8/17/2016	7	
	Chrysante 00 D	elete X	7330	072009	8/16/2016		
	Dominique 0	 One or more of of jobs selected for deletion are 	7330	072009	8/16/2016		
	Despione 00	unfinished activities. When unfinished activity is	7330	072009	8/16/2016	8/16/2016	
	Despione 00	deleted, associated task is automatically de-activated!	7330	072009	8/30/2016		
	Persephone 00	This will also delete associated data to this record	7331	072009-016	8/16/2016	8/16/2016	
	Persephone	Are you sure you want to continue?	7331	1072009	8/23/2016		
	Olivie 001		7331	072009-918	8/16/2016	8/16/2016	
	Olivie 001		7331	1072009	8/23/2016	8/16/2016	
	Olivie 001		7331	072009-918	8/23/2016	8/16/2016	
	Olivie 001	Delete confirmed Yes No	7331	072009-918	8/9/2016	8/16/2016	
	Bianca002	machino branca	7330	072009-902	8/16/2016	8/16/2016	
П	Bianca002	Machine Bianca	7330	072009-902	8/16/2016	9/21/2016	

Warning about license limitations

For licenses with limitations on maximum number of records for machines, tasks and spare parts (Demo / Lite / Standard licenses), a warning will be displayed when user approaches the maximum allowed number of records.

First warning will be displayed when ten more records can be entered. Second warning will be displayed when five more records can be entered into the system. Warnings are triggered separately for each record group with license limitations. Example picture below informs the user that ten more tasks can be created in the system before license limitation for tasks is reached.

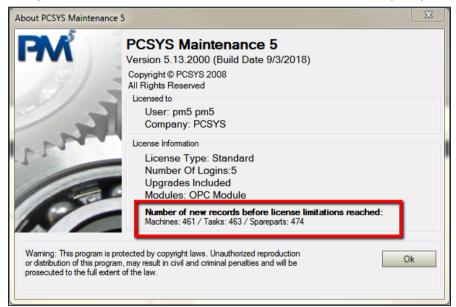
Approach	Approaching license limitations for task records.					
i	Your license allows entry of 10 more task records. Contact PCSYS if you require license that allows larger number of records in the system.					
	ОК					

Information about license limitations

When a license with limitations regarding maximum number of records for machines, tasks and spare parts is in use (Demo / Lite / Standard licenses) are in use, information about number of records that can be entered into PM5 is displayed in *About PM5* form.

To open *About PM5* form, select *Help* and *About PM5*. See picture below for example of information about remaining record allowance in the system.

Please observe that remaining record allowance is not displayed in systems with Enterprise license., as Enterprise license has no limitations of number of machine/task/spare part records and the system.



Adjustments to Attachment form

Attachment form has been redone and simplified. User interface for selection of adjustment type is now at the top of the form. Depending on selection of attachment type, the other elements of the form are adjusted dynamically.

Add attachment to selected made	chine	×
Please select an option		
O Upload File	Link File	
 Directory 	⊙ www	
Attachment File		
		Browse For
Path		
Attachment Note		
Print with jobs		
Activities	Faults	
	- · · · · · ·	
		~
	Add	Close

Release notes for PM5 version 5.13.1001

Status of users assigned for tasks, activities and faults

As the time goes by, status of PM5 users can change – their credentials can change, they can be set to passive status or simply be deleted. Such changes in users' status could mean that they were no longer valid for the jobs they were assigned for. When that situation occurred, they were no longer listed in relevant comboboxes of relevant tasks, activities and faults. This in turn could cause problems when editing such tasks and jobs.

This situation is now rectified.

When status of a user changes and user is no longer valid selection for assigned task, activity or fault, the user is still listed in relevant combo-boxes, but a **text flag** is displayed to the left of his initials in the combo-box.

Following fields will display these new text flags:

- Task form
 - To be signed by combo-box
- Activities form
 - *Signed by* combo-box
 - Approved by combo-box
- Fault form
 - Discovered by combo-box
 - To be signed by / Signed by combo-box
 - Approved by combo-box

Currently, three types of text markers are in use:

• User's status has been set to passive. When a user's status has been set to Passive, then this fact will be indicated by a text flag (**Passive**) in combo-boxes of types listed above. In example below, a passive user has been selected as person who discovered and signed for a fault.

Edit fault					×
Machine 001.130 •	Indvejningspum	pe .	Job N	86	
Fault Type Melanusi Discovered (Date) den 10 januari 2007 Discovered By MABE (Passive)	•	Estimated Manhours 0.00 Used Man Hours 0.50 Signed By MABE (Passive)			
Priority Select Alarm Code		Started Expected End Date den 5 december 2017 Approval Required		Approved	¥
 Technical Group Select		Approved By Select Solved			Y
Ext. job exists		Date Solved den 10 januari 2007 Cause Type Q2			•
Ext. job exists		Cause Type			

User has been deleted. When a user has been deleted, then this fact will be indicated by a text flag
 (Deleted) in combo-boxes of types listed above. In example below, a user that has been deleted is
 selected as person responsible for a machine task.

Task			×
Task Name		Interval	
Service Oil 30 days	Active	Locked	
Machine		Days	_
Indvejningspumpe	•	30	
Type of Task			
Smøring	<u> </u>		
To Be Signed By			
MABE (Deleted)		Priority	
Technical Group		Select	-
Dayshift	-	Approval Required	
Estimated Manhours			
1.00		Created by pm5 on 12/5/2017 11:01:15 AM. Modified by pm5 on 12/5/2017 11:51:44 AM.	
Task Note		Houmed by pins on 12/3/2017 11:51.44 AM.	
			_1
1			
			Expand
		Save	Cancel
		Care	

(1)

User's credentials are no longer sufficient. This is a special case for selections in 'Approved by' combo-boxes of faults and activities. In cases where a user who no longer has credentials for approval of jobs, this fact is indicated by text flag **(Credential removed)** in combo-boxes where he's been previously selected. An example of such scenario is shown in picture below.

Activities	×
Signed By	Job No Priority
MABE	81 Select
To Be Signed By	
MABE	Done Started Fixed Date
Task Name	Date Scheduled
Service Oil 30 days	6/14/2007
Type of Task	Activity Done
Smøring	× V
Machine Number	Expected End Date
001.130	
Machine Name	Used Man Hours Estimated Manhours
Indvejningspumpe	0.00
Ext. job exists	Approved
	Approved By
	MABE (Credential removed)
Task Note	Activity Note
<u>^</u>	A
	•
Expand	Expand
	Print Save Cancel

The text flags indicating changed status of user in above-mentioned combo-boxes serve two purposes. In historical records, they simply indicate the changed status of the user. **Much more importantly, in active tasks and unfinished jobs, they indicate that the jobs are assigned to personal that most probably is no**

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longer able to complete them. It is strongly advised that any active task or unfinished job that is assigned to a user flagged in this manner should be re-assigned to a more suitable user.

Finally, please observe that users flagged as deleted, passive or lacking credentials are only displayed in relevant combo-boxes **as long as they are the selected user**. If another user is selected in their place and this change is then saved, the flagged users are **no longer included** in list of users selectable in a combo-box.

Changes in Batch job finish functionality

Batch job finish functionality has been modified and extended. Following two changes are introduced in this version.

• Job exclusion

Activities and faults that are to be finished need to comply with business logic of PM5. If these conditions are not satisfied, the request to finish the job will be rejected. Since earlier following conditions need to be satisfied:

- For activities, the selected completion date cannot be earlier than completion date of any of preceding activities generated by same task as activity about to be finished.
- For faults, fault reason need to be specified either prior to request for completion is made **or** specified in Batch finish form's own Cause Type combo-box.

A third condition has been added in this version of PM5 – activities that include calibration are automatically rejected from batch job finish requests. Our reasoning is that activities of this nature require entry of mandatory calibration data for each individual activity and it is impractical to handle that in batch job finish functionality.

• Handling of jobs rejected by job finish functionality

In previous versions, rejection of a job has been indicated in rudimentary manner, by listing its job number in a message box. This behavior has now been modified. Jobs rejected by batch functionality are now listed in Windows standard application Notepad. Each rejected job is listed in its own row – information included is job id number, job type and reason for rejection.

We have chosen to present this information in Notepad, because it allows user to work with PM5 while keeping this information on screen.

In rare cases where Notepad is not installed on the computer where PM5 client is running, same information will be displayed in a Note form. This presentation will allow the user to copy/paste the information about rejected jobs before closing down the Note form and handling relevant records.

In the picture shown, there is an example of Notepad application showing information about jobs rejected in a batch finish job request.

PM5 Message - 12/5/2017 ******	2:53 PM - List of jobs rejected in this batch finish sequence
Job No Type ************************************	Rejection reason Selected finish date is earlier than finished date of last finished activity Selected finish date is earlier than finished date of last finished activity Fault cause is not specified



Release notes for PM5 version 5.13.1000

Priority code

Introduction

Priority field has been present in PM5 since the beginning. It is present in Task, Activity and Fault. It was a text field where user could enter a text that was up to three characters long. Purpose of this field was to provide quick and simple way to indicate priority of tasks and jobs.

Priority is now replaced with a user defined system variable **Priority Code**. Purpose of **Priority** Code is exactly the same as that of **Priority**. The major difference is that value in **Priority Code** field is not entered by user on individual basis, but rather selected from a predefined list of priority codes defined by an administrator. Major advantage of this change is that it guarantees consistency in data entry.

Priority code in existing systems

For users who are actively using **Priority** field, this change has following consequences.

- Fields and columns related to **Priority** are no longer present in the system.
- **Priority** fields have been replaced by a combo box **Priority Code** in forms for tasks, activities and faults.
- **Priority** columns have been replaced by columns **Selected Priority Code** in main data grids for tasks and activities/faults.
- Data that existed in **Priority** fields has been transferred to **Priority Code** as part of the upgrade to this version of PM5.
- All variations of codes entered in **Priority** field at the time of upgrade have been inserted into **Priority Codes** system variable section, which is now present in Administration module.

In other words, all data previously handled by **Priority** field is still present and correctly displayed in PM5 system.

Management of Priority Codes

Priority Code is a system variable that is handled in same manner as other system variables (such as Machine Type, Fault Type or Technical Group) in the system. To create, edit or delete a **Priority Code**, user needs to open Administration module and access Priority Code section, which is located at System Variables/Tasks. When Priority Codes node is selected, list of priority codes defined in the system will be shown in right section of Administration module.

Please observe that the priority list shown in picture below is just an example. In your PM5, the list will initially be either empty **or** if field **Priority** was in use prior to upgrade, it will show all variants of priority codes previously in use. If the second is the case, priority codes will have weight set by default to 1 and will be marked as accessible for activities and faults. These settings can of course be edited at user's convenience.

Action Help					
🖻 🙆 😭 🔞	_				
📄 System Tools	Priority Code	Priority Code Note	Priority Weight	Activity	Fault
Configurations	Mandatory - Legal	Legally mandatory maintenatce	1		
System Variables	Mandatory - Preventive	Needs to be done on specified date	1		
	Urgent	Needs to be fixed immediately	1		•
	Important	To be fixed as quickly as possible	2		v
+ E Faults	Standard Priority	Can be delayed up to 24 hours	2		
+ Machines	Medium Priority	Can be delayed up to a week	3		
+ 🧾 Spare Parts	Standard Fault		3		V
+ 🧾 Suppliers	Low Priority	Should be done within 14 days from scheduled date	4		
– 🧾 Tasks					
Jypes					
Calibration Groups					
Type of Service					
Priority Codes					
+ 🧾 Postal Information					

New... Delete Properties To add new, edit or delete new priority code, move mouse pointer to right section and click on right mouse button. This will display a quick menu where appropriate action can be selected. Existing priority code can also be selected by double-clicking on it in the list.

Properties - Priority Code Mandatory - Legal 🗙						
Priority Code						
Mandatory - Legal						
Priority Code Note						
Legally mandatory maintenatce						
Priority Weight						
1						
Use With Activities						
Use With Faults						
Cancel Ok						

Priority code has following properties:

• Priority Code – name of priority code. This is the name that will be displayed in combobox Priority Code and in column Selected Priority Code in main data grids for tasks and activities/faults.

• Priority Code Note – descriptive note, clarifying purpose of the priority code.

• Priority Weight – a whole number value between 1 and 1000, defining the weight of the priority. 1 is the highest priority and 1000 is the lowest priority. Priority weight is intended to specify importance of the priority code relative other priorities. It is also used for sorting and filtering

purposes, as described below.

- Use With Activities indicates that this priority code is to be used with tasks and activities. Only the priorities that have this checkbox checked in will be available for selection for tasks and activities.
- Use With Fault indicates that this priority code is to be used with faults. Only the priorities that have this checkbox checked in will be available for priority selection for faults.



Additional clarification - when a priority code is marked as 'Use With Activities', it will be available for selection in tasks and activities. When a priority code is selected in a task, all activities generated by this task will have same priority selected at the time of creation. It is possible to change priority code for an individual activity. However, an activity will always have its priority set to that which is specified in the task to which it belongs.

To save new priority code or save changes made in pre-existing priority code, press 'OK' button.

Deletion of a priority code can be done at any time, even if it is in use. When a priority code is deleted, all tasks, activities and faults that are using it will be reset and no longer have a selected priority code.

Priority Codes in main data grids

Priority Code can be specified for tasks, activities and faults. Selection is done from a list of available priority codes, defined in Administration module and available in a combo box with same name.

Selection of priority code is not mandatory. Combo box **Priority Code** is always empty as default and selection of priority code needs to be done on individual basis for each task or fault. Activities inherit their priority code from the task they belong to. Priority code of individual activity can be changed at any time after it has been created.

Task				×
Task Name Hekate 003	Active	Interval		
Machine Machine Hekate	•	Days 30		_
Type of Task Monthly Maintenance	•			
To Be Signed By No Stores	•	Priority		
Technical Group Select	•	Select Select Mandatory - Legal Mandatory - Preventive		<u> </u>
Estimated Manhours 0.00		Mandatory - Preventive Standard Priority Medium Priority Low Priority		
Task Note				
				T
				Expand
			Save	Cancel

In example picture, Priority Code combo box is expanded and shows list of available priority codes. Please observe that only priority codes with checkbox 'Use with activity' are included in this list.

It is important to remember that the sorting order of the list in Priority Code combo box is **not** by priority code name, but by its weight, in descending order. Thus the priority codes with weight 1 will be put on top of the list, followed by those of weight 2 and so on.

To make a selection, select priority code from list in the combo box and press 'Save' button.

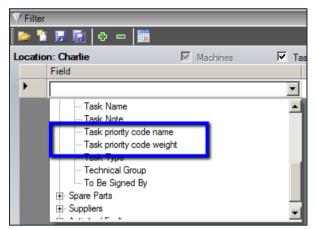
In the client, priority codes and their weight are displayed in main data grids of tasks and activities/faults, in columns **Selected Priority** and **Priority Weight**. There is one important thing to remember regarding the sorting based on priority code – it is done according to the value specified by priority weight, both when selected sorting is on Selected priority and Priority Weight. In example picture below, the sorting column is **Selected Priority**, but the sorting is still done according to the values in **Priority Weight** column. When such sorting is done, the posts with specified weight are always sorted first, in either ascending or descending order. Posts with no weight (no priority code specified) will always be put at the bottom, regardless of selected sorting order.

Machines Tasks Spare Parts Suppliers Activities / Faults								
Task Name	Task Type	Active	Machine No	Machine Name	Selected Priority	Priority Weight		
Hekate 003	Monthly Maintenance		20170420-001	Machine Hekate	Mandatory - Preventive	1		
Cerise Priority Code Test 1	Overview		7330072009-903	Machine Cerise	Mandatory - Legal	1		
Cerise Measured A	Overview		7330072009-903	Machine Cerise	Mandatory - Preventive	1		
Cerise 001	Lubrication		7330072009-903	Machine Cerise	Standard Priority	2		
Hekate 002	Monthly Maintenance		20170420-001	Machine Hekate	Medium Priority	3		
Hekate Inactive 500	Unplanned Maintenance		20170420-001	Machine Hekate	Low Priority	4		
Martha 001	Lubrication	•	7331072009-013	Machine Martha				
Iris Inactive Alpha	Monthly Maintenance		20170829-001	Machine Iris				
Hekate 004	Monthly Maintenance		20170420-001	Machine Hekate				
Martha Task 001	Unplanned Maintenance	V	7331072009-013	Machine Martha				



Priority Code in filters

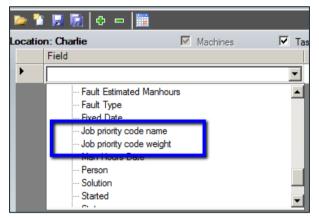
Priority codes can be used for filtering of data presented on the screen. New filter search parameters have been added for tasks and activities/faults.



In Tasks, filter search parameters **Task priority code name** and **Task priority code weight** have been added in selection of field which can be used for filtering.

Task priority code name allows filtering on specific priority code name or names specified for tasks, in similar manner as other system parameters, such as for example task type.

Task priority code weight allows filtering on weight value of priority codes specified in tasks.



In Activities/Faults, filter search parameters **Job priority code name** and **Job priority code weight** have been added in selection of field which can be used for filtering. It is important to remember that searches using these two seach fields **will**, as long as search conditions are fulfilled, include both activities and faults.

Job priority code name allows filtering on specific priority code name or names.

Job priority code weight allows filtering on weigh value of priority codes specified in activities and faults.

Additional clarification – search parameter priority weight enables filtering by *groups of priority codes*. For example, the filter in example picture below will show **all** unfinished jobs with priority codes that have priority weight 1 or 2.

2	V Filter - Priority 2 or higher										
[📡 🎽 💭 📆 🛛 🕁 📼 🔚										
L	ocatio	on: Charlie	Machines	🔽 Tasks	Spare Parts	🔽 Supp	liers	Activities	/ Faults		
		Field	Criteria		Value		Tasks	Spare Parts	Suppliers	Activities / Faults	Operator
	•	Status	=	Not done		~	~	~	~	v	And
		Job priority code weight	<	3		7	~	7	7	v	

Column 'Qty in stock'

Column **Qty in stock** has been added to subpane Spare Parts in client sections Tasks and Activities/Faults. The value displayed in this column shows available quantity in stock for selected spare part. This information consists of two possible values:

- First number shows quantity in stock at the stock selected for the spare part and this specific consumption instance. If no stock has been specified, then a '-' is displayed instead.
- Second number shows a total quantity in stock at **all stocks** that are specified for this particular spare part. If no stocks are specified for the spare part, then a '-' is displayed instead.



Purpose of this new column is to provide quick overview of availability of the spare part for individual jobs. While a spare part may not be available at stock specified for a job, it may be available somewhere else. The two numbers (or lack thereof) provides a snapshot of spare part's availability.

In example picture below, a task has four spare parts specified for consumption. The topmost spare part has no stocks specified for this consumption. Also, the spare part has no stocks specified in the system. Thus, the value displayed in **Qty in stock** is '-/-'.

Second spare part in our example picture has a specified consumption stock which currently contains 100 units of the spare part. The spare part also has at least one other stock with positive quantity and grand total of all stocks is 105. Thus, value in **Qty in stock** column shows '100/105'.

Finally the third spare part has no specified stock for consumption. But it at least one stock specified in the system and total quantity in stock is 75. Value in **Qty in stock** shows therefore '-/75'.

Machines Tasks Spare Parts Suppliers Activities / Faults										
Task Name		Task Type	Active	Machine Name	Selected Priority	Δ	Priority Weight	Machine No		
Hekate 003		Monthly Maintenance		Machine Hekate	Mandatory - Prev	rentive	1	20170420-001		
Cerise Priority Code	Test 1	Overview	V	Machine Cerise	Mandatory - Lega	al	1	7330072009-903		
Cerise Measured A		Overview		Machine Cerise	Mandatory - Prev	rentive	1	7330072009-903		
Cerise 001		Lubrication	V	Machine Cerise	Standard Priority		2	7330072009-903		
Details Activiti	es Spare	Parts Calibration Attachme	nts External Serv	ices						
Number	Type Nur		Group	Quantity	Note	Store		Qty in stock		
SP-0011	0011	Spare Part Marisile	Lamp	2	ABC			-/-		
SP-0005	0005	Spare Part Eveleen	Bolt	3	LKJ	Chelsea - Local	BB - FF - II	100 / 105		
SP-0003	0004	Spare Part Congalie	Pipe	3				- / 75		
SP-0017	0017	Spare Part Una	Pipe	2	hyt	Chelsea - Local	PL - JB - GF	96 / 191		

Note fields in PM5 client

Note fields in main sections of the client can now be displayed and edited in separate form. To open the Notes form, press on **Expand** button below Notes field.

When Notes form is opened from Details subpane in main client, the note is presented in a locked, non-editable format.

When note is shown in expanded note from a place where it can be edited, the Notes form will also allow editing. To finish editing and close the Notes form, press its **Close** button.

Note forms are resizable and can be placed anywhere on the screen.

Please observe that editing done in Notes form is displayed immediately in Notes field of detail form from Note field was opened. To actually save the edit, user still needs to press the Save button of detail form.

Additional note about content of note forms – limited editing is now possible in notes forms.

- Vertical spacing can now be added with help of Enter key.
- Horizontal spacing can be created with help tab key.

Picture below shows task note in expanded mode. The content of the list is formatted with help of tab key.

		_	📴 Task Note - Task Cerise Measured A / Machine Machine Cerise	<u>_ ×</u>	Page 1
			Task note, things to consider when completing activity:	A	Page Ji
hments External S	Task Task Name	_ Interval	1. Read task note.	_	
Gru	Task Note Task N	Priority Priority Priority Priority Created by pm5 on 8	Check if attachments are present. A. Read attachments before starting work. Update quantities of used spare parts		
	Read task note. Remember to enter spent time in manhours Oneck if attachments are present. Pead attachments along solar guark Nead attachments before starting work. Update quantities of used spare parts		▼ Expand Save Cancel	Close	

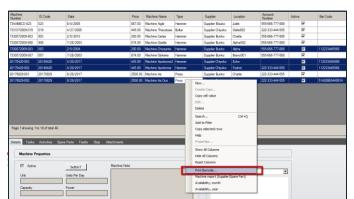
Machine barcode labels

Barcode label functionality, previously available for spare parts, has been extended to Machines.

A barcode can be specified for individual machine. To enter a machine barcode, open Machine form and enter the barcode in **Barcode** field. Press **Save** button to save the changes.

achine	2
Machine Number	Account Number
7330072009-903 🔽 Activ	e 555-666-777-888
ID Code	Price
903	200.00
Machine Name	Capacity
Machine Cerise	200
Bar Code	Power
	200
Location	Stop Group
Charlie	Stop Group II
Date	
2/ 5/2010	 Use Measured Value
Гуре	Measured Parameter
	MP2 Gilberta
Supplier	Unit Units Per Day
	··· Kilometers 20
Manufacturer	_
QRF	<u> </u>
Machine Note	
	x
	Expand
	Print Barcode Save Cancel

Machine barcodes can be printed in two ways. To print single barcode, open Machine form and press **Print Barcode** button.



Alternatively, barcodes for one or more machines can be printed by selecting one or more machines in main data grid and opening quick menu by clicking on right mouse button. In quick menu, select **Print Barcode.** Machine barcodes are printed on the printer specified for label printouts in Administration module, section Configuration / Barcode Label.

Machine barcode labels are configured for printouts on labels of same size as spare part labels, size 75 x 25 mm. Currently only the default label layout, as shown below, can be used for machine barcode labels.

New default layout for Spare Part Label

New layout has been added to selection of spare part label layouts. Which layout is to be used can be selected in Barcode Label Setting in Administration module.

PCSYS Maintenance 5 - pm5							
File Action Help							
: 😋 🕀 🙆 😭 😢							
- System Tools	Name	Value					
Sers	Printer Microsoft XPS Document Writer						
User Groups	Layout	Default layout with store info					
Jechnical Groups	Print Label Directly to Printer	No					
Locations							
Custom Field Groups		Barcode Label					
M Input Masks							
Notice Boards		Printer					
Backup Database		Microsoft XPS Document Writer					
Man Hour Price							
- Configurations		Barcode Custom Layout					
Languages		Default layout with store info					
Options		Default Layout Default layout with store info					
Translations		Print Label Directly to Printer					
Barcode Label							
Support							
🖃 🧾 System Variables							
+ E Client		Ok Cancel					
+ 🧾 Purchasing							
I I OPC							
+ 🧰 Postal Information							
	1						
	1						

New layout includes stock information for individual stocks of the spare part. If spare parts has more than one stock, then when this new label design is selected, a separate label will be printed for each stock specified in PM5.

Copy rows

In main data grids for Machines, Tasks, Spare Parts, Suppliers and Activities/Faults, there is now possibility to copy rows and paste them into applications supporting paste functionality.

Select the rows you wish to copy in data grid. To select more than one rows that are in sequence, select first row, hold down Shift key and select last row in the selection. To select more than one row that are out of sequence, select first row, hold down Ctrl button and select the rest of the rows.

Your selection could look like this:

🙀 🔹 🖬 🗳 🖊 🗖 🗑	PCSY'S Maintenance 5 - Logged In: pm5 - Licensee: PCSY'S A/S												
	File View Tools Filter Help												
Location Machines Tasks Spare Parts Suppliers Activities / Faults													
PCSYS TEST	Machine Number	Machine Name	ID Code	Туре	Date	Price	Supplier	Location	Account Number	Active	Bar Code		
ia ·· 🚘 Bravo Ia ·· i≧ Charlie	MK-IT-0001	Beatrice	20170918-001	Electric Motor	9/18/2017	1547.00	Usagi	Alpha001		7	787891-16547		
E Deta	MK-IT-0002	Adelfa	20170915-001	Drill	9/15/2017	559.00	Baselard	Alpha001	123-456-789	~	956117-A-G		
	MK-IT-0003	Beatrice II	20170918-003	Electric Motor	9/18/2017	1547.00	Usagi	Alpha002			787891-16547		
	MK-IT-0004	Capricia	20170918-004	Light Armature	9/18/2017	7500.00	Takara	Alpha002		2	775511423399		
	MK-IT-0005	Donata	20170918-005	Electric Motor	2/1/2017		Usagi	Bravo	456-789-999	✓	9954-4471		
	MK-IT-0006	Edda	20170918-006	Pump	5/1/2016		Usagi	Bravo	456-789-999	2			
	MK-IT-0007	Imelda	20170919-002	Carving Machine	9/19/2017	175.00	Usagi	Charlie		V			
	MK-IT-0008	Franceska	20170918-020	Hammer	9/18/2017		Baselard	Bravo001	654-987-321	2	ABC-XYZ-123		
	MK-IT-0009	Gaetana	20170919-001	Puncher	9/19/2017		Ryoko	Bravo001	456-789-999	V	787891-0007		
	MK-IT-0010	Jemma	20170919-003	Compressor	9/19/2017	1248.00	Usagi	Charlie001	654-987-321		4465-7878-8996		

Once all rows you want to copy are selected, click on right mouse button and select 'Copy selected rows'.

Machines Tasks	s Spare Parts S	Suppliers Activitie	s / Faults								
Machine Number	Machine Name	ID Code	Туре	Date	Price	Supplier	Location	Account Number	Active		Bar Code
MK-IT-0001	Beatrice	20170918-001	Electric Motor	9/18/2017	1547.00	Usagi	Alpha001		•	7	787891-16547
MK-IT-0002	Adelfa	20170915-001	Drill	9/15/2017	559.00	Baselard	Alpha001	123-456-789	•	7	956117-A-G
MK-IT-0003	Beatrice II	20170918-003	Electric Motor	9/18/2017	1547.00	Usagi	New			•	787891-16547
MK-IT-0004	Capricia	20170918-004	Light Armature	9/18/2017	7500.00	Takara	Create Copy		F	7	775511423399
MK-IT-0005	Donata	20170918-005	Electric Motor	2/1/2017		Usagi	Copy cell value			•	9954-4471
MK-IT-0006	Edda	20170918-006	Pump	5/1/2016		Usagi	Edit			•	
MK-IT-0007	Imelda	20170919-002	Carving Machine	9/19/2017	175.00	Usagi	Delete			•	
MK-IT-0008	Franceska	20170918-020	Hammer	9/18/2017		Baselard				•	ABC-XYZ-123
MK-IT-0009	Gaetana	20170919-001	Puncher	9/19/2017		Ryoko	Search	Ctrl+Q		•	787891-0007
MK-IT-0010	Jemma	20170919-003	Compressor	9/19/2017	1248.00	Usagi	Add to Filter				4465-7878-8996
							Copy selected row Help	5			
							Properties		_		
							Show All Columns				
							Hide All Columns				
							Reset Columns				
Page 1 showing 1 t	to 10 of total 10				_		Print Barcode			_	
ruge renowing h							Machine report (Su	upplier/Spare Part)			
							Availability, month				
Details Tasks	Activities Spare	Parts Faults S	Stop Attachments				Availability, year				

	🚽 🔊 -	(°	× -
F	ile	Home	Insert Page Layout Formulas
Pas	N C N C N C N C N C N C N C N C	ору ч	Calibri \cdot 11 \cdot A A Painter B I \underline{U} \cdot $\boxed{\Box}$ \cdot $\boxed{\Delta}$ \cdot \underline{A}
			Font
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	А	B	I = 🍐 • 🔺 • 🗄 • 號 💞 🦷
1			
2		*	Cut
3		L)	<u>C</u> opy
4			Paste Options:
5			
6		-	Paste Special
7			Insert
8 9			- Delete
9 10			Clear Contents
10			
12			- mg
13			Sort >
14			Insert Co <u>m</u> ment
15		1	<u>F</u> ormat Cells
16			Pick From Drop-down List
17			Define Name
18			Hyperl <u>i</u> nk
19		35	

When this is done, the content of selected rows is now copied in Windows clipboard and can be pasted into any application supporting Paste function. In picture to the left, the copied rows are pasted into an Excel document.

Rows copied from PM5 are pasted into the Excel document.

	А	В	С	D	E	F	G	Н	I	J	K
1	Machine Number	Machine Name	ID Code	Туре	Date	Price	Supplier	Location	Account Number	Active	Bar Code
2	MK-IT-0003	Beatrice II	20170918- 003	Electric Motor	9/18/2017	1547.00	Usagi	Alpha002		TRUE	787891- 16547
3	MK-IT-0005	Donata	20170918- 005	Electric Motor	2/1/2017		Usagi	Bravo	456-789-999	TRUE	9954- 4471
4	MK-IT-0007	Imelda	20170919- 002	Carving Machine	9/19/2017	175.00	Usagi	Charlie		TRUE	
5	MK-IT-0009	Gaetana	20170919- 001	Puncher	9/19/2017		Ryoko	Bravo001	456-789-999	TRUE	787891- 0007