

PCSYS Maintenance 5

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Done Loading Spare Parts Tabs

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User's manual for PM5

by PCSYS A/S

This manual will help you get started using PM5 and support you in your daily use as a reference to the entire functionality of the program.

PCSYS Maintenance 5

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Table of Contents

Part I Quick guide for PM5	11
1 System Requirements	11
2 Installation of empty database	11
3 Decisions before you start	12
Move ahead at pace - take one section at a time	12
4 Start in the administration module	12
System tools	13
Locations	13
User Groups	13
Users	15
Custom Field Groups	15
System Variables	15
Client	16
Machines	16
Faults	16
Tasks	17
Spare Parts	18
Supplier	19
5 Continue in the Client Module	19
Create a supplier	20
Enter more data	21
Copy machine data	21
Keyboard short cuts	22
Part II Client Application	23
1 Location	24
2 Filter	25
Filter Fields	25
3 Main Grids	27
Machines	28
Machine Fields	29
Create Machine	30
Edit Machine	32
Copy Machine	32
Delete Machine	36
Search for a Machine	38
Machines Sub Tabs	39
Details Sub Tab	40
Tasks Sub Tab	40
Activities Sub Tab	41
Spare Parts Sub Tab	42
Faults Sub Tab	45
Stop Sub Tab	46
Attachments Sub Tab	47

Tasks	47
Task Fields	48
Active Checkbox	49
Create Task	51
Edit Task	54
Copy Task	56
Delete Task	59
Search for a Task	61
Manpower Resources	62
Tasks Sub Tabs	66
Details Sub Tab	66
Activities Sub Tab	67
Spare Parts Sub Tab	68
Calibration	71
Calibration - Definition Sub Tab	72
Calibration - History Sub Tab	74
Attachments Sub Tab	75
Spare Parts	75
Spare Parts Fields	76
Create Spare Part	77
Edit Spare Part	79
Copy Spare Part	80
Delete Spare Part	81
Merge Spare Parts	83
Replace Spare Parts	86
Search for a Spare Part	90
Spare Parts Sub Tab	91
Details Sub Tab	91
Machines Sub Tab	92
Consumptions - Activities Sub Tab	95
Consumptions - Faults Sub Tab	96
Stores Sub Tab	96
Suppliers Sub Tab	97
Attachments Sub Tab	97
Suppliers	98
Supplier Fields	98
Create Supplier	99
Edit Supplier	100
Delete Supplier	101
Search for a Supplier	103
Supplier Sub Tabs	104
Details Sub Tab	105
Machines Sub Tab	105
Spare Parts Sub Tab	106
Attachments Sub Tab	108
Activities and Faults	108
Activities	108
Activity Fields	109
Create Activity	110
Edit Activity	112
Copy Activity	112
Set Activity to Done	114
Activity Sub Tabs	119
Details Sub Tab	120

Spare Parts Sub Tab	121
Calibration Sub Tab.....	124
Attachments Sub Tab	125
Task - Attachments Sub Tab	126
Faults	126
Fault Fields.....	127
Create Fault.....	129
Edit Fault	132
Set Fault to Solved.....	133
Fault Sub Tabs	138
Details Sub Tab.....	139
Spare Parts Sub Tab	139
Stop Sub Tab.....	143
Attachments Sub Tab	143
Stops	143
Create Stop.....	144
Delete Stop	145
Delete Activity/Fault	146
Search Activity/Fault.....	147
Attachments	149
Add Attachment.....	149
Delete Attachment.....	153
4 Menu Bar and Quick Access Toolbar	153
5 Measured Parameter	155
6 Notice Boards	158
Posting, viewing and deleting Notes	160
Part III Administration Module	162
1 Users	163
Adding, editing and deleting users	166
2 User Groups	167
Suggested User Groups	169
Adding, editing and deleting User Groups	170
3 Technical Groups	174
Adding, editing and deleting Technical Groups	175
4 Locations and Machine Groups	177
Adding, editing and deleting Locations	181
Assigning Stores to Locations and Machine Groups	184
5 Custom Field Groups	185
Adding, editing and deleting Custom Field Groups	186
6 Input Masks	188
Adding, editing and deleting Input Masks	190
7 Notice Boards	191
Adding, editing and deleting Notice Boards	192
8 Languages	192
9 Options	194
10 Translations	197
11 Support	198

12 System Variables	198
Client	200
Machines.....	201
Types	201
Account Numbers.....	204
Measured Parameters.....	206
Unit Types.....	207
Setting up Measured Parameters.....	208
Example of Measured Parameter.....	209
Tasks	219
Types	219
Calibration Groups	221
Spare Parts.....	223
Groups	224
Manufacturers	225
Stores	227
Consumption Types	229
Inactive Spare Parts.....	231
Suppliers.....	231
Phone Types.....	232
Faults	233
Cause Types.....	234
Down-time Types.....	235
Fault Types	236
Stop Groups.....	238
Purchasing	240
Accounts.....	241
Contact Information.....	243
Settings	246
Taxes	249
OPC	250
Faults	251
Measured Parameters.....	253
Postal Information	255
Countries.....	256
Zip Codes.....	258
 Part IV Purchasing Module	 259
1 What is a Purchase Order?	261
2 Create a Purchase Order	261
Fixed Fields in a Purchase Order	266
3 Send an Order	266
4 Receive Ordered Spare Parts	268
5 Close an Order	270
6 Create a Report	271
7 Email a Report	272
8 Print a Report	274

1 Quick guide for PM5

Here is a quick guide to get you started using PM5. There are certain things that has to be done in the right order to get the best out of the system from the beginning.

The sections in this quick guide are not described in detail. If you need further explanation you can read more in the full section of the manual.

Good luck with the program.

1.1 System Requirements

	Client installation	Database requirements
Processor	1-gigahertz (GHz) or faster processor recommended	1-gigahertz (GHz) or faster processor recommended
Operating System	Windows XP with SP 2 or later; Windows Server 2003 with SP 1 or later	Windows XP with SP 2 or later; Windows Server 2003 with SP 1 or later
.NET Framework	.NET Framework 2.0 SP 1 or later	.NET Framework 2.0 SP 1 or later
IIS	Internet Information Services (IIS) version 5.00 or later*	Internet Information Services (IIS) version 5.00 or later
Free Disk Space	500 MB of Free Hard Disk Space	Plus 1 GB of Free Hard Disk Space for database and SQL Server Express
RAM	512 megabytes (MB) of RAM or more; 1 gigabyte (GB) or more recommended	11 gigabyte (GB) or more recommended
Drive	CD-ROM or DVD-ROM drive	CD-ROM or DVD-ROM drive
Video Graphics Adapter and Monitor	Super VGA (1,024x768) or higher-resolution video adapter and monitor	Super VGA (1,024x768) or higher-resolution video adapter and monitor
Network	LAN Connection to Database Server	LAN Connection
Database Server	SQL Server 2005 Express Edition or higher**	SQL Server 2005 Express Edition or higher

*IIS is required only if you are installing the PM5 Web Service.

**Starting with v5.05, SQL Server 2005 Express Edition has been bundled with the PM5 installer. So, you can install it if you do not have it.

1.2 Installation of empty database

When you install PM5 you will choose between a demo, empty or existing database.

Choosing demo database gives you an example of the structure of the program and the many relations there is. You can also put in a couple of your own data as test. But before you start the use of the program in production you should start with an empty database.

If you are going to use the system where you installed the demo as your production server you have to clean up data related to the demo installation first. To install the empty database you have to uninstall the program, delete the database in SQL Management Studio and then install the program again.

1.3 Decisions before you start

Before you start entering machines, spare parts and tasks in PM5 there are some decisions to make regarding naming and numbering your machines and spare parts. It's also a good idea to visualize the structure of your locations.

The more decisions you have made from the beginning the easier it will be entering data. And it's less likely that you have to make changes and reenter information.

We are happy to give input to this process and here is some advice to get you started:

1. Use naming for machines and spare parts as the ones you are using already.
2. Use a logic that makes it easy for new employees to learn the names.
3. Searches are done in intervals so to make it easy to find all trucks naming could be: "Truck, 3 Montini" and "Truck, 4 Nissan".
4. Picture an overview of your factory so you easily can see how many levels your locations hierarchy should have, which machines that are placed where and which employees should have access to these machines.

1.3.1 Move ahead at pace - take one section at a time

To get the most out of PM5 you should consider which data you want to include in the program. Where is it important to start (registering faults, managing spare part stock, management of obligatory maintenance etc.). And where is your detail limit (screws / bolts, all spare parts / only the most common, etc.)?

There is a lot of information to be entered in PM5 but choose which you want to use from the beginning and which you will be postponing for a later time.

1.4 Start in the administration module

Before you start entering data in the client module you have to enter data, based on your decisions earlier, into the administration module.

We will now go through the sections that are most relevant.

1. Launch PM5.
2. Log in with user "PM5" and password "pm5".
3. Open the administration module (Ctrl. A).

1.4.1 System tools

Links:

[Locations](#)

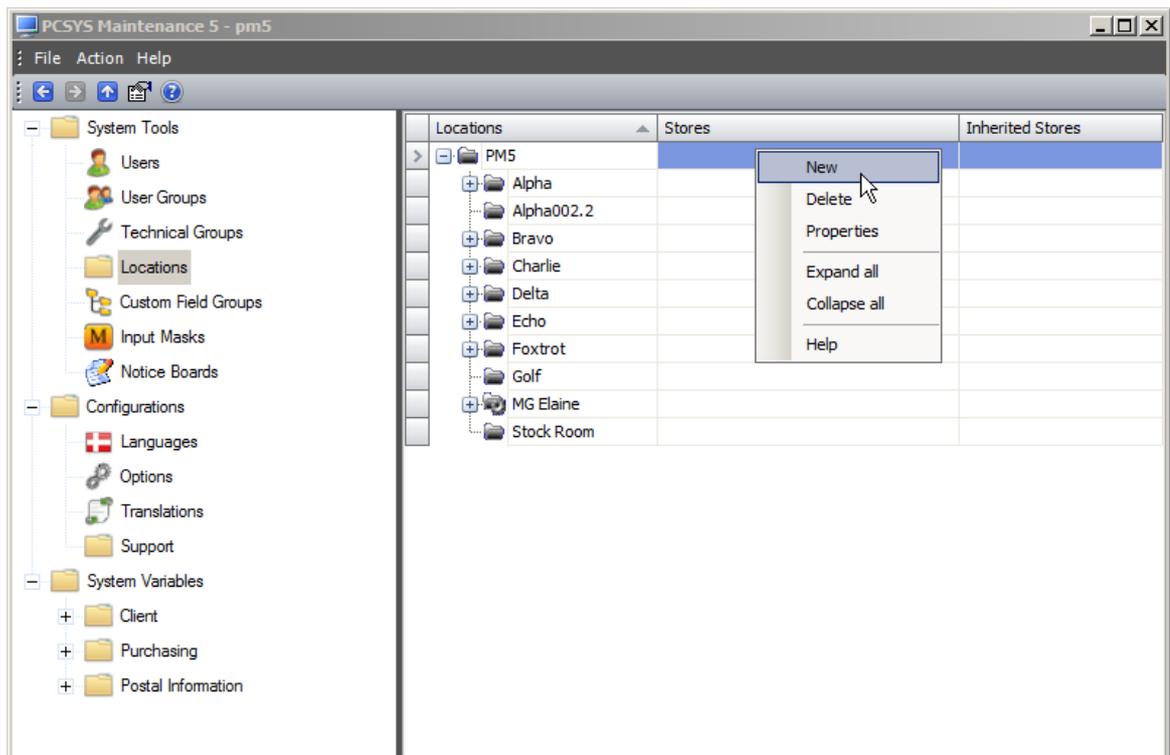
[User Groups](#)

[Users](#)

[Custom Field Groups](#)

1.4.1.1 Locations

Create at least one location or machine group where you can attach your first machines. Right click with the mouse and choose from the menu.



1.4.1.2 User Groups

Decide which persons should have administrator rights.

Create at least one more group - More if you already know what groups you will be needing.

Assign rights to every group for actions, locations and tabs.

Note that a user can be a member of multiple user group and thereby the user can have different access levels to different locations.

For the tab "locations" there is some special rules. To avoid accidentally removing all locations from a group you have to mark first the location and then click the checkbox next to it.

Blank = No rights

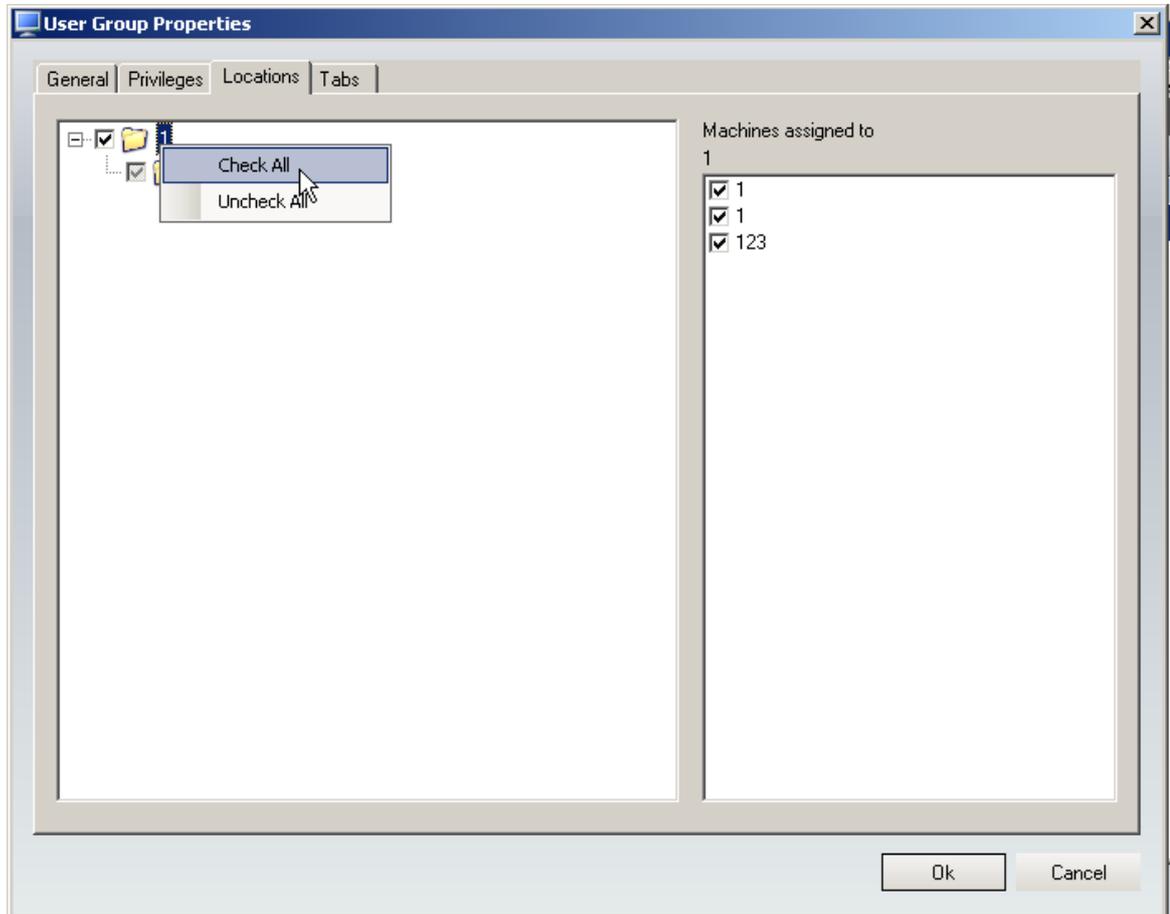
Checked = All rights

Checked Gray or Boxed = Rights to the location and the machines selected and machines that you

create.

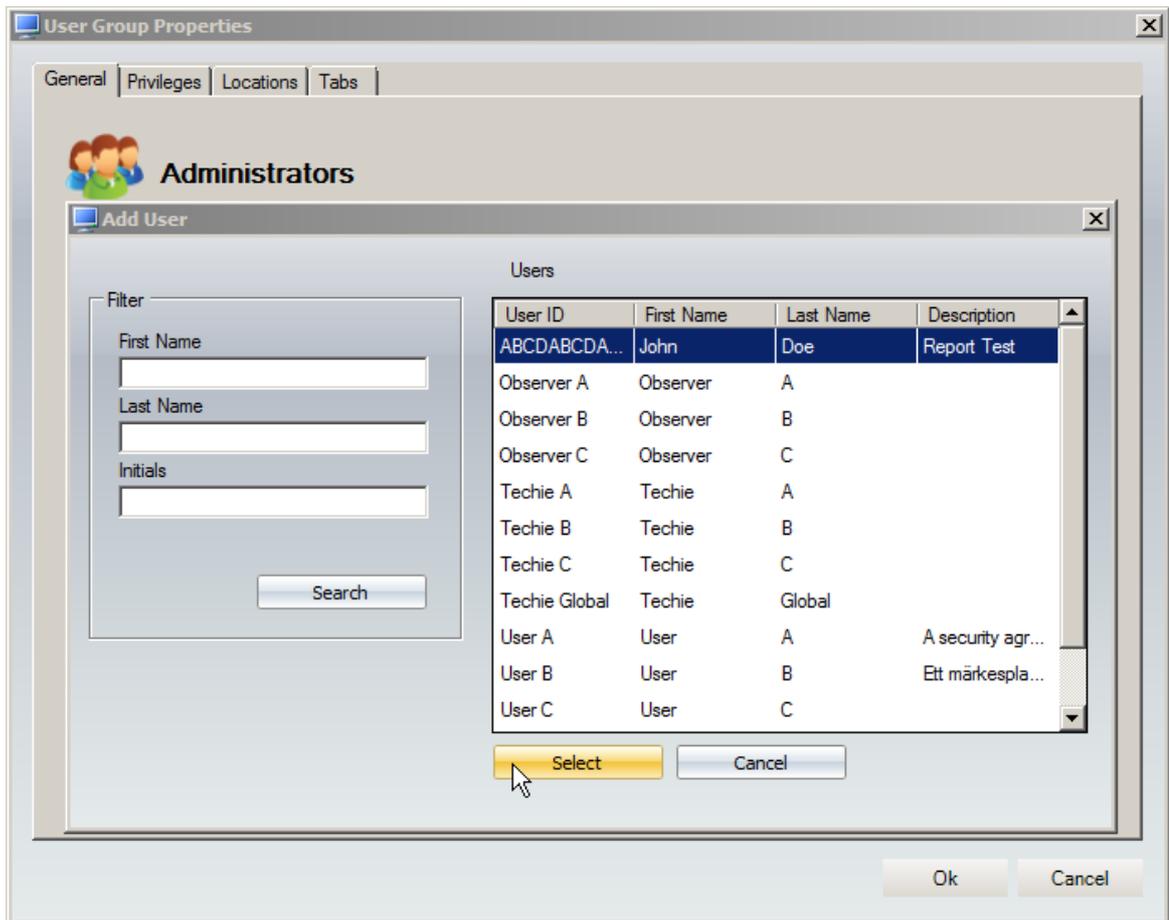
Name in *Italic* = No rights to the location but there is some rights further down the tree for other sub-locations.

If you have many locations and want to check them all you can right click and choose "Check all" or "Uncheck all" and everything below that location will be checked.



1.4.1.3 Users

When the user groups have been created you can create the users and attach them to the created user groups.



1.4.1.4 Custom Field Groups

Custom Field Groups enables you to add your own fields to each tab. Maybe you would like to have data about which fuse box is attached to a machine, Primary responsible, security measures and so on noted on each machine. Data that you normally store on papers in the archive but actually could be useful to have at hand when working in PM5.

Custom Field Groups are created to for example all pumps have the same information available.

This area is not necessary to define before you start but if you have the information that you wish to enter already it will be easier to do this already at this point.

1.4.2 System Variables

Configuration of default values in PM5 is done in this section.

1.4.2.1 Client

Links:

[Machines](#)

[Faults](#)

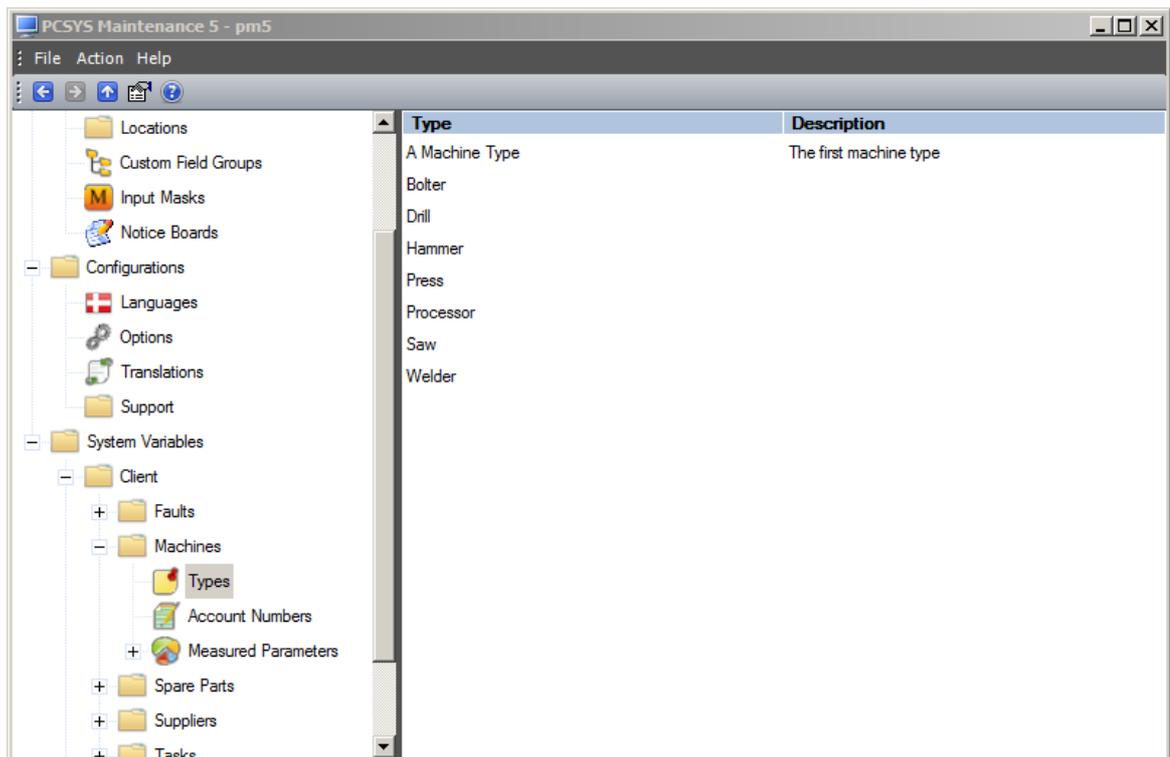
[Tasks](#)

[Spare Parts](#)

[Supplier](#)

1.4.2.1.1 Machines

Create at least 1 Machine Type.



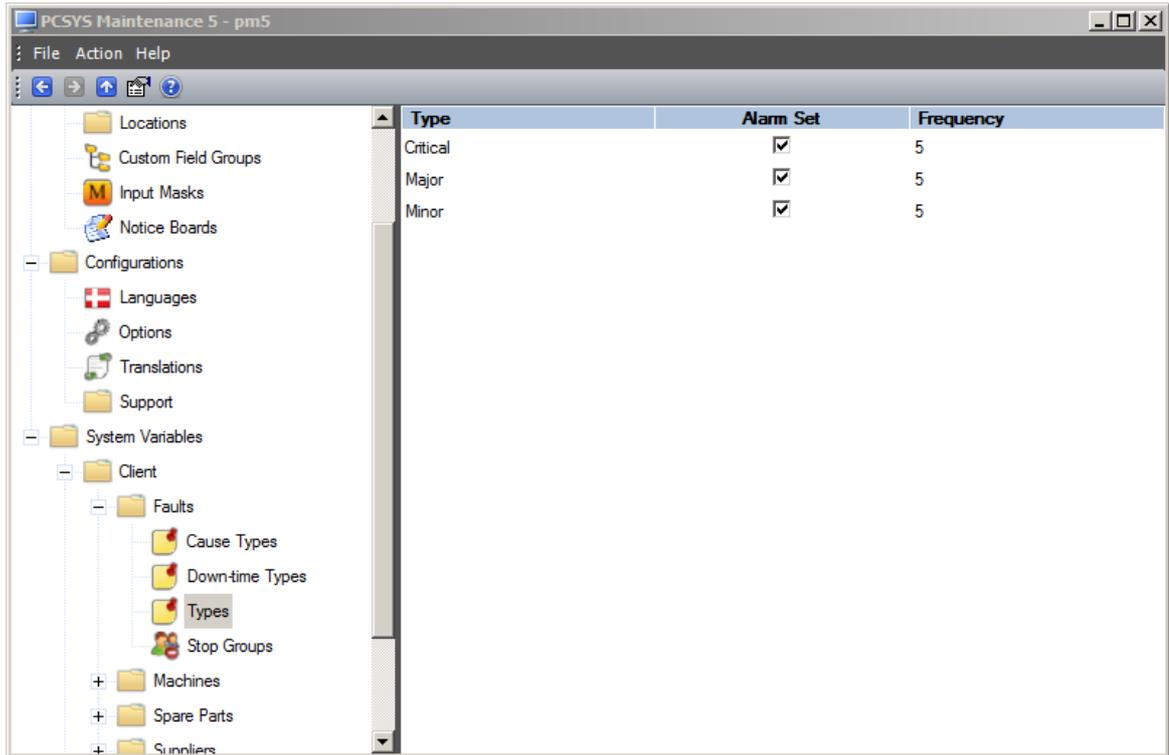
1.4.2.1.2 Faults

To be able to register a fault you have to create the categories below:

Types - This is the definitions a user should be able to choose between when a fault is registered. The alarm set is being used if you want to get informed when a fault occurs too often. Choose properties and enter how many days you will allow between faults of this type.

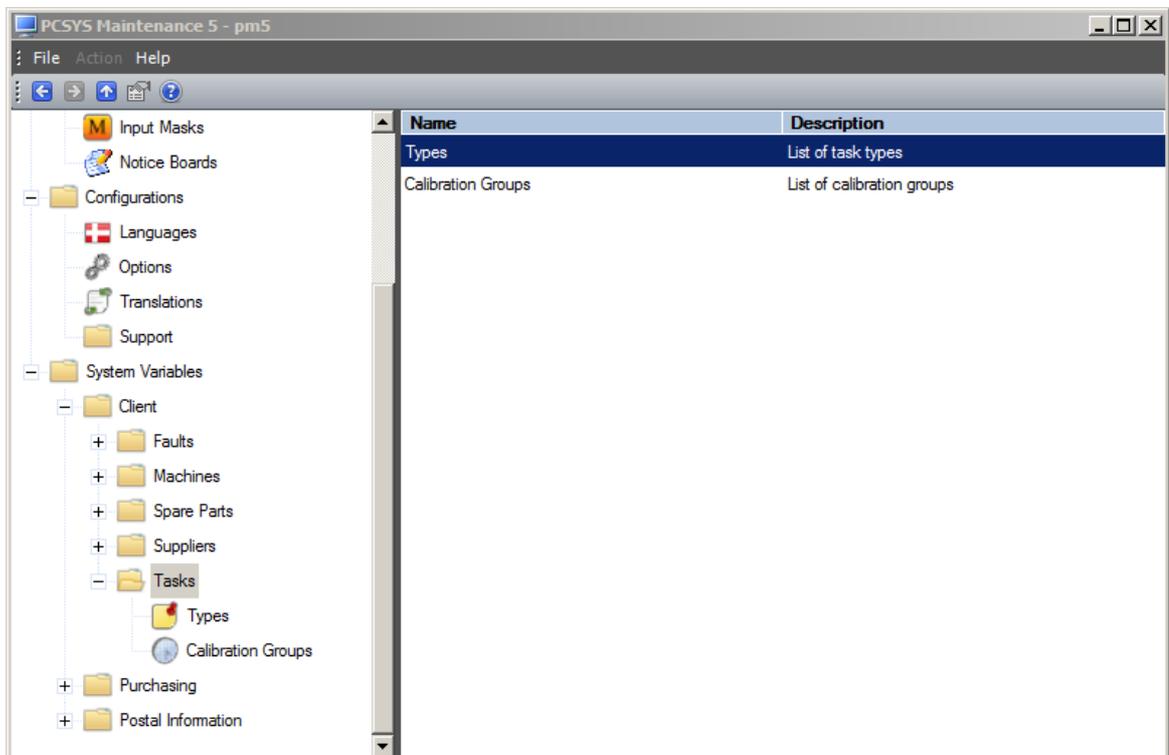
Cause Types - This is the definitions to choose from after correcting a fault and you have found the cause of the fault.

Stop Groups - This is for grouping machines where a stop on one machine influences other machines in the group. Typically in connection to a line assembly. Create describing group names and then put in the machines in the respective groups.



1.4.2.1.3 Tasks

Create at least one Task Type - more if you already know what types you are going to need.



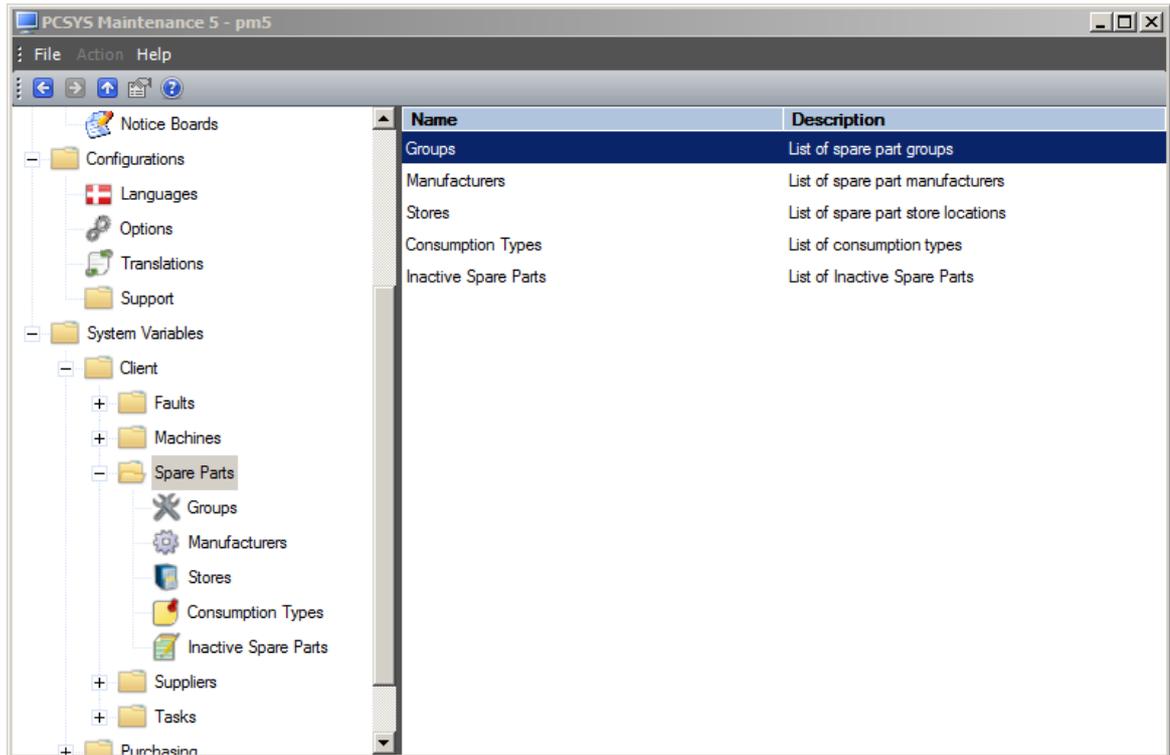
1.4.2.1.4 Spare Parts

Create at least one Spare Part Group if you want to manage spare parts in PM5.

Create at least one Manufacturer of spare parts. In some cases manufacturer and supplier will be the same.

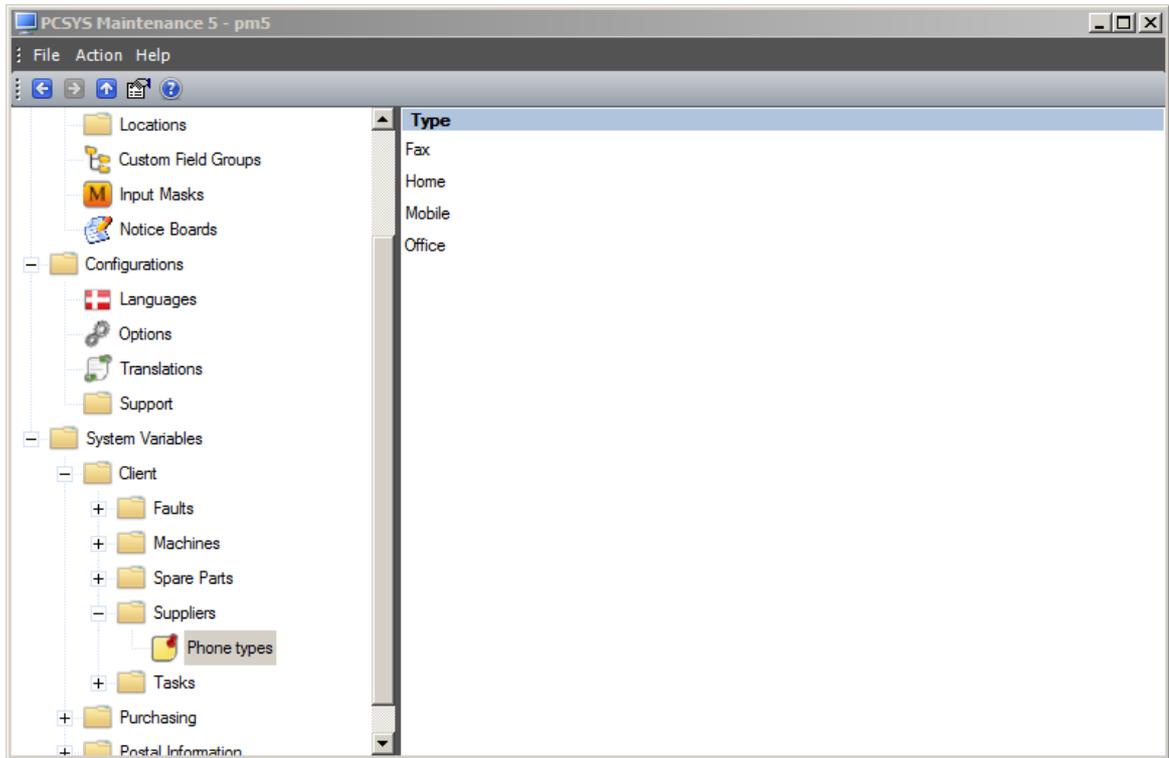
Create at least one Store if you want to manage inventory of spare parts in PM5.

Create at least one Consumption Type if you want to attach a spare part to a task in PM5. This could be maintenance, lubrication etc.



1.4.2.1.5 Supplier

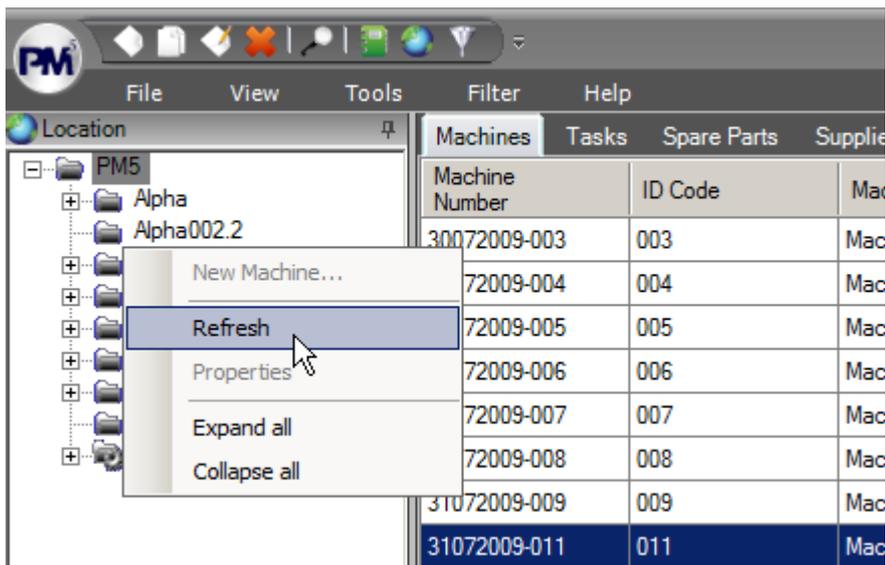
Create Phone Types if you want mobile or direct phone number directly on the supplier form.



1.5 Continue in the Client Module

You can now close the Admin module.

Right Click with the mouse in the left and choose refresh and the the changes you have just done will be available in the client.



1.5.1 Create a supplier

Start by creating a Supplier.

All machines and spare parts has supplier as a mandatory value.

You can now create your machines, tasks, spare parts and the remaining suppliers.

The screenshot shows the 'Supplier' form in the PCSYS Maintenance software. The form is open over a table of suppliers. The table has columns: Supplier Number, Supplier Name, Country, Telephone, Fax, and Zip. The first row contains the values: 1, 1, DK, 1, 1, 080. The 'Supplier' form has fields for: Supplier Number (text), Country (dropdown), Supplier Name (text), Address (text), Zip Code (text), City (dropdown), Telephone (text), Fax (text), E-Mail (text), Note (text area), Telephone Numbers (table with columns Phone Type and Number), and Contacts (table with columns Name and Phone). There are 'Save' and 'Cancel' buttons at the bottom right of the form.

Supplier Number	Supplier Name	Country	Telephone	Fax	Zip
1	1	DK	1	1	080

Supplier Properties

Supplier Number:

Country:

Supplier Name:

Address:

Zip Code:

City:

Telephone:

Fax:

E-Mail:

Note:

Telephone Numbers

	Phone Type	Number
*	<input type="text"/>	<input type="text"/>

Contacts

	Name	Phone
*	<input type="text"/>	<input type="text"/>

Save Cancel

Telephone Numbers

Phone Type	No.

1.5.2 Enter more data

You can choose what data you want to input in the beginning. A spare part can be attached to a machine but in which order you create machines and spare parts is up to you.

The screenshot shows a software application window with a menu bar containing 'Tools', 'Filter', and 'Help'. Below the menu bar are tabs for 'Machines', 'Tasks', 'Spare Parts', 'Suppliers', and 'Activities / Faults'. The 'Spare Parts' tab is active. A dialog box titled 'Spare Part' is open, containing the following fields and controls:

- Spare Part Number: Text input field
- Type Number: Text input field
- Spare Part Name: Text input field
- Spare Part Note: Text area with scrollbars
- Dimension: Text input field
- Group: Dropdown menu with 'Select' selected
- Manufacturer Name: Dropdown menu with 'Select' selected
- Bar Code: Text input field
- Unit: Text input field
- Cost Price: Text input field

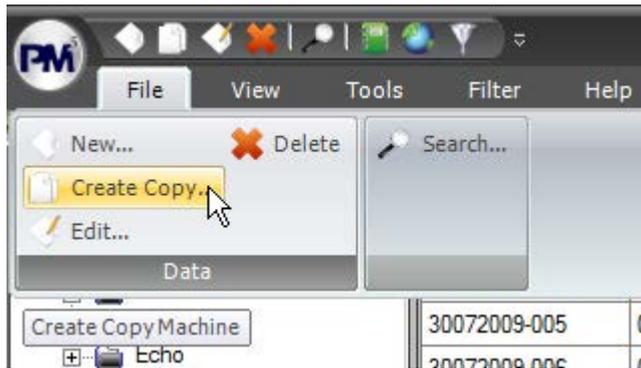
At the bottom of the dialog box, there are three buttons: 'Allocate to Stock', 'Save', and 'Cancel'. The background shows a table with columns for 'Spare Part Name' and 'Spare Part Number'. The status bar at the bottom indicates 'Page 1 showing 1 to 2 of total 2'.

1.5.3 Copy machine data

If you have several machines of the same kind which has the same types and tasks then you can copy data from one to the other. Start by creating one machine and enter all the data for that one.

Mark the record and chose file->copy. Give the machine a unique number and choose the location for the machine.

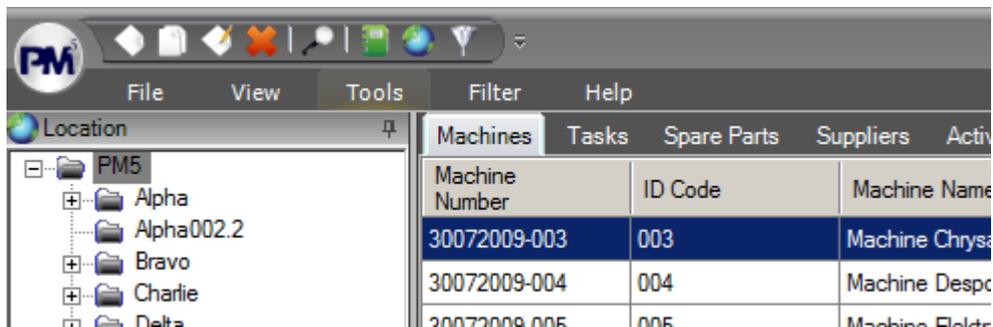
When you push save you now get the option to transfer tasks and spare parts from the original to the copy.



1.5.4 Keyboard short cuts

PM5 contains some useful keyboard short cuts.

Push "Alt" and then choose the number or letter you wish.



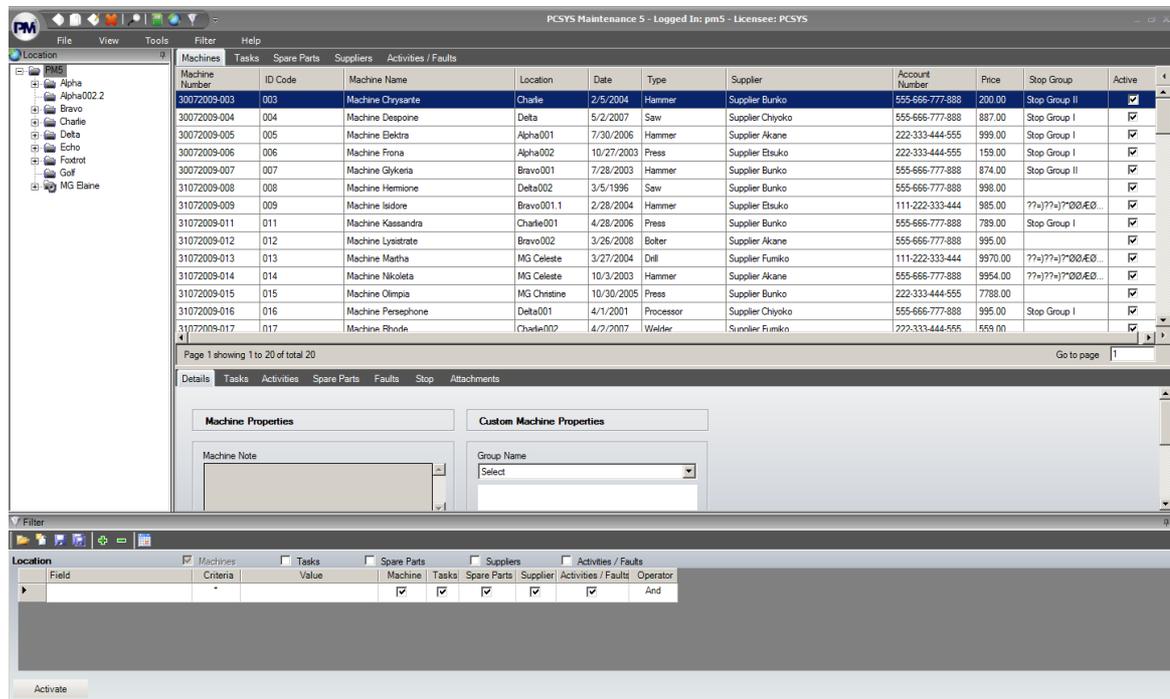
And then choose the letter at the next level



You will quickly learn the shortcuts you use the most.

2 Client Application

After logging in to PM5, the application will display the client module. This is where you will work mostly on PM5.



The Client module holds the basic feature of PM5. In here you will see the five main tabs – Machines, Tasks, Spare Parts, Suppliers and Activities/Faults. You can learn more about them by reading their corresponding sections.

The Client module also provides you tools to help increase your productivity: Location, Filter, Purchasing, Consumption and Reports tools.

“Location” permits you to group together Machines, Tasks, and Activities and Faults that share common characteristics. A Location can be a large geographical area such as Copenhagen or it can be as small as a cabinet in the storage room. You can learn more about this tool [here](#).

The “Filter” allows you to restrict data shown in the five main tabs to the criteria you specify. This means you can use the Filter to restrict the Machines shown to only the Machines you bought last month, last year or in between a certain period of time. You can also specify advanced criteria in the Filter, such as restricting the Machines shown to only those bought at a certain date and only those bought from a certain supplier. The Filter is a very powerful tool and is discussed in greater detail in [Filter](#).

In “Purchasing,” you can create purchase orders to Suppliers. Purchasing also helps you keep track of the Spare Parts ordered. You can learn more about this tool [here](#).

“Consumption” allows you to keep track of Spare Part consumption. Spare Parts can be associated with Tasks to keep track of their consumption.

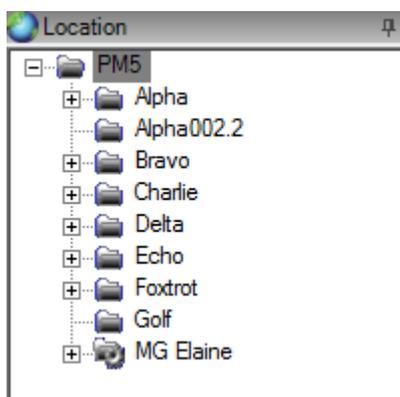
The “Reports” tool allows you to generate printable reports on Machines, Tasks, Spare Parts,

Consumptions, Suppliers, Activities, Faults, Persons, Groups, Stops, Use of Manpower and Reorders. With reports, you can get a print out of all the Machines you have and their associated Spare Parts, a print out of all the Tasks performed on a specific Machine and a lot of other combinations. Aside from giving you a copy of your inventory, Reports allow you to see the efficiency of your business. By reading a report on Use of Manpower, you will be able to see who among your employees are able to make good estimates and who are able to finish their jobs within the specified time limits.

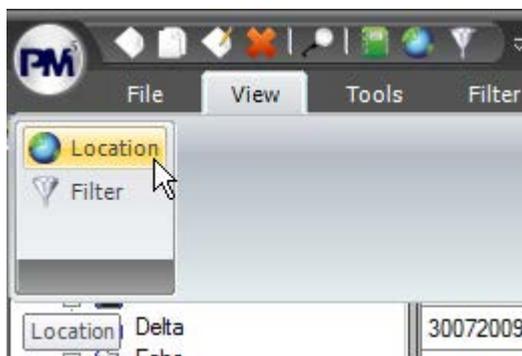
To give you even better control over PM5, it provides you with a tool called "Administration" With the Administration Tool, you can specify who is allowed to use PM5, what they are allowed to do and what they are not allowed to do. To learn more about Administration, click [here](#).

2.1 Location

The Location Pane is found in the left hand side of PM5. It displays Locations and Machine Groups.



You can click View > Location to make it display.



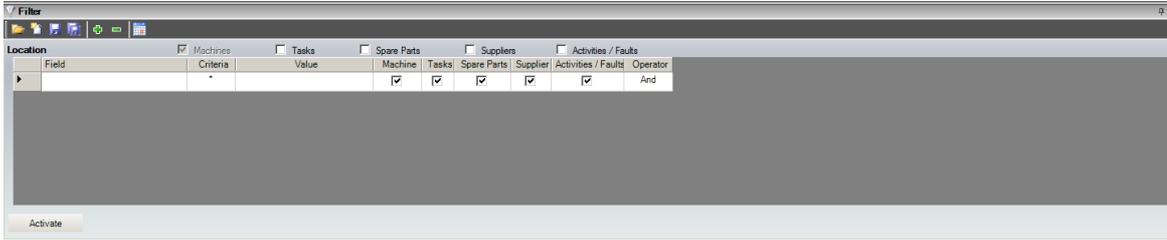
It helps you organize your Machines by allowing you to group them by Location or Machine Group.

This is similar to the concept of Files and Folders in Windows. In Windows, you can organize your Files by grouping them in Folders. In PM5 you can organize your Machines by grouping them in Locations and Machine Groups.

You can learn how to create a Location or Machine Group by reading Locations and Machine Groups [here](#).

2.2 Filter

The Filter Pane is found in the bottom of PM5. It displays criteria that you have specified.

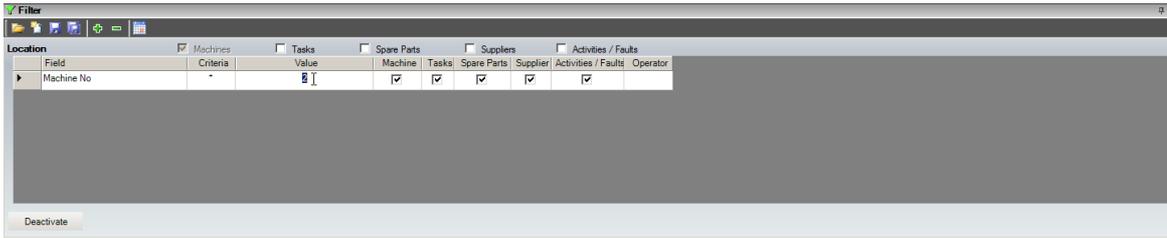


You can click View > Filter to make it display.



It helps you find what you are looking for faster by allowing you to specify criteria that will determine which Machines, Tasks, Spare Parts, Suppliers and Activities / Faults will be displayed. A filter can either be a System or Personal filter. A filter that is saved as a System filter will be available to all users of PM5 while on the other hand, a Personal filter as the name implies means that the filter will only be available to the user who created it.

Note: Starting v5.06, the 'Apply' button is removed. To apply changes in your current filter without deactivating it, simply put the cursor focus on the Values field and press the [Enter] button on your keyboard.



The Filter tab - Showing how to apply modified filter without deactivating it

2.2.1 Filter Fields

Fields - correspond to the columns found in each Main Tab of PM5. For example, The Field “Machine No” in Machines corresponds to the “Machine Number” column in Machine.

Here is a summary of the Fields supported by the Filter:

Tab Name	Supported Fields
----------	------------------

Machines	Machine No, Machine Name, Machine Type, Machine Date, Measured Parameter, ID Code, Active Machine, Stop Group, Machine Note, Manufacturer Name, Price, Account Number, Capacity, Power, and Measured Value
Tasks	Task Name, Type of Task, To be Signed By, Active Task, Technical Group, Priority, Estimated Manhours, Locked, Interval (Days), Measured Unit, and Task Note
Spare Parts	Spare Part No, Spare Part Name, Group of Spare Part, Type No, Dimension, Spare Part Note, Manufacturer Name, Barcode, Unit and Cost Price
Suppliers	Supplier No, Name of Supplier, Telephone Number, Country, Address, Zip Code, City, Fax, E-mail and Supplier Note
Activities / Faults	Status, Type, Person, Date, Done Date, Priority, Fault Type, Discovered By, Approved By, Cause Type, Started, Carry Out, Man Hours, Fixed Date, Expected End Date, Activity Note, Alarm Code, Fault Priority, Technical Group, Fault Description, Fault Estimated Man Hours, Expected End Date, Approval Required, Approved, and Solution

Criteria - the purpose of Criteria is to specify how you want Value to be treated. Each symbol in Criteria has a unique way of handling Value.

Here is a summary of the name and purpose of each symbol in Criteria:

Symbol	Name	Purpose
*	Asterisk or Wildcard	To show all fields that contain part of or the entire value specified
=	Equals	To show all fields that contain exactly the value specified
>	Greater than	To show all fields that contain a value that is greater than the value specified
<	Less than	To show all fields that contain a value that is less than the value specified
<>	Not equal to	To show all fields that are not equal to the value specified
[..]	Between	To show all fields whose values are in between the values specified. There is a special requirement for the "[..]" or Between symbol. You will need to enter two values separated by a semicolon ";" for it to work properly.

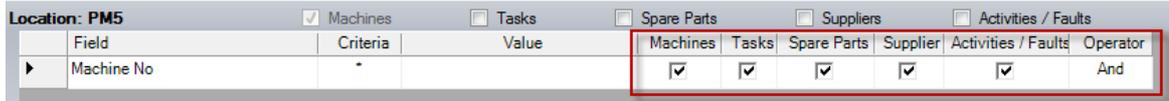
Value - contains the characters that you want the Criteria to be applied to. These characters may be numbers, letters or a combination of both.

Location Check boxes (LCB) - seen on top of the filter. It control the filtering of the main tabs by

location. You will see that the Machines LCB is permanently checked. This is because Machines are always filtered by location. If you change locations in the Location Pane, only the Machines that are in the selected location will appear in the Machines Tab. The other LCBs control whether the Tasks, Spare Parts, Suppliers and Activities / Faults Tabs are filtered by Location.



Filter Row Check boxes (FRCB) - appears on every filter row. The FRCBs control which tabs will be filtered by the Field, Criteria and Value on the filter row. By default, all FRCBs are checked. To limit which tabs the filter will be applied to, check only the FRCBs of the tabs you want to be filtered. For example, if you want only the Machines Tab to be filtered by the specified Field, Criteria and Value, check only the Machines FRCB.

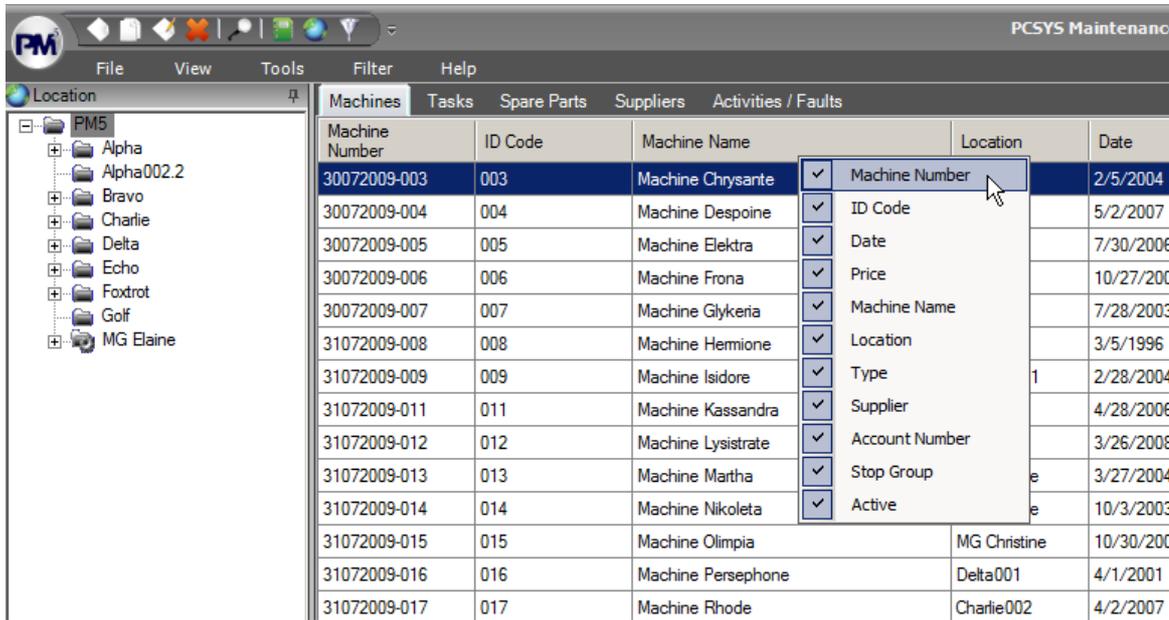


Filter Row Check Boxes

Operators - link filter rows together. Depending on the operator selected, the criteria in one row or in all rows may be applied. There are two operators found at the end of each row – the AND operator and the OR operator. The AND operator requires the criteria of the all the filter rows it links to be met. The OR operator requires the criteria of only one of the filter rows it links to be met.

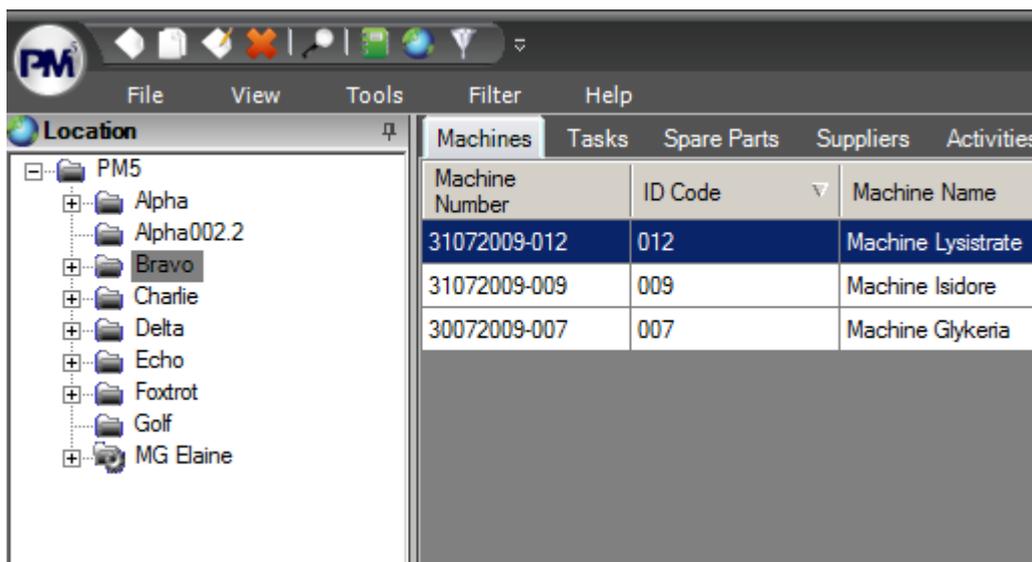
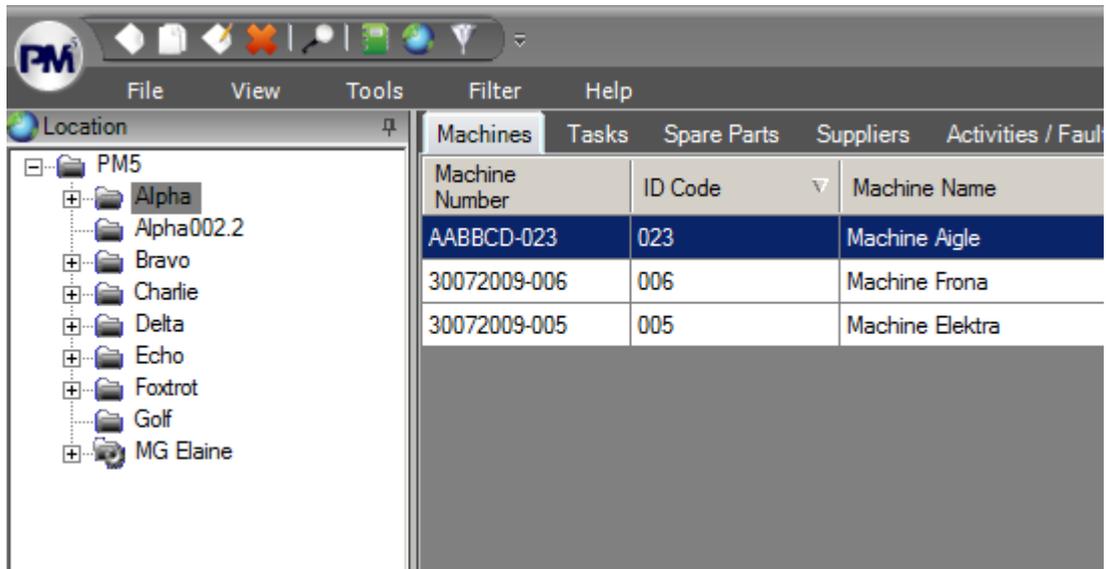
2.3 Main Grids

When you mark a record in the top grid the information in the sub-grid will update to display data related to the chosen record. If you right click the column header you can choose which columns to show in your grids.



2.3.1 Machines

The machines pane gives you an overview of all your machines. The list is per default limited to the machines located in the location you have chosen in the location tree.



In PM5, a machine is anything that has properties and needs maintenance. It can be a car, refrigerator, an MP3 player or even a garage (because rooms still need maintenance, i.e. cleaning). Creating a machine allows you to gauge its performance and schedule preventive maintenance tasks. This way, you get to see if a machine is doing its job efficiently and when maintenance is due.

The machines tab has seven sub tabs: details, tasks, activities, spare parts, faults, stop and attachments. You can find more information about each sub tab by reading the Machines Sub Tabs section.

2.3.1.1 Machine Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Location, Type, Supplier, Manufacturer, Account Number, Stop Group and Measured Parameter fields. If you want to add, edit or delete values in Location, Type, Supplier, Manufacturer, Account Number, Stop Group and Measured Parameter, please click on their underlined names in the image.

The screenshot shows a 'Machine' form with the following fields and controls:

- Machine Number:** Text input field.
- Active:** Check box, currently checked.
- ID Code:** Text input field.
- Machine Name:** Text input field.
- Location:** Dropdown menu.
- Date:** Date picker showing 11/17/2009.
- Type:** Dropdown menu.
- Machine Note:** Text area.
- Supplier:** Dropdown menu.
- Manufacturer:** Dropdown menu.
- Account Number:** Dropdown menu.
- Price:** Text input field.
- Capacity:** Text input field.
- Power:** Text input field.
- Stop Group:** Dropdown menu.
- Use Measured Value:** Check box, currently unchecked.
- Measured Parameter:** Dropdown menu.
- Unit:** Text input field.
- Units Per Day:** Text input field.

Buttons: Save, Cancel

Machine Number - the unique identifier for a machine, hence one of the *required* fields to fill out to be able to save a machine.

Active Checkbox - in this check box, you define the machine as active. This means that the maintenance program is activated and new tasks will be scheduled for the machine. Machines not in use, should be checked as not active.

ID Code - this field is only optional. This is an alternative way to identify your machine.

Machine Name - the name of the machine.

Location - the place where the machine is located.

Date - refers to the date when the machine was started to use. Often it is the date when the machine was installed or bought.

Type - the type of the machine.

Machine Note - in this field you can note down other information regarding the machine.

Supplier - the dealer of the machine.

Manufacturer - the producer or maker of the machine. As you explore PM5, you will notice that manufacturer's list is defined only in the spare part's node of the administration module. This is because the creator of the machine can also be the creator of the spare part of that machine.

Account Number - the account number where the machine belongs to.

Price - the cost of the machine.

Capacity - the maximum amount of the machine.

Power - the power or strength of the machine.

Stop Group - the Stop group where the machine belongs to.

Measured Value - in this checkbox, you allow the machine to use a measured parameter to predict its next activity date.

2.3.1.2 Create Machine

To create a machine you can do one of three things:

- 1) File -> New...
- 2) CTRL + N
- 3) Right click the grid and select "New..."

This will get you this form.

The screenshot shows a 'Machine' form with the following fields and values:

- Machine Number: [Empty]
- Active:
- ID Code: [Empty]
- Machine Name: [Empty]
- Location: 01
- Date: 18-02-2009
- Type: Select
- Machine Note: [Empty]
- Supplier: Select
- Manufacturer: Select
- Account Number: Select
- Price: [Empty]
- Capacity: [Empty]
- Power: [Empty]
- Stop Group: Select
- Use Measured Value:
- Measured Parameter: Select
- Unit: [Empty]
- Units Per Day: [Empty]

Notice that "Location" already has location 01 entered in this view. This is because location 01 has been chosen in the location selector. If focus had been on the root (PM5) then you would have to choose a location on the form.

- 1) Provide the machine number.
- 2) Determine if the machine is Active or not. By default, a machine is always Active.
- 3) Put the ID Code of the machine.
- 4) Give the machine a name.
- 5) Select where the machine is located.
- 6) Select the date when the machine was bought or installed.
- 7) Select the type of machine. (see how to define types [here](#))
- 8) Enter a describing text for the machine.
- 9) Select the Supplier of the machine.
- 10) Select the Manufacturer and the Account Number of the machine. (see how to define the list [here](#))
- 11) Provide information for the Price, Capacity, and Power fields of the machine.
- 12) Select the Stop group of the machine.
- 13) Decide whether to use Measured Value for the machine or not.
- 14) Click on the Save button.

Note: Machine Number, Machine Name, Location, Type and Supplier are *required fields*. You cannot

save a machine if the *required fields* are empty. All other fields are optional.

2.3.1.3 Edit Machine

To edit a machine, select the machine you want to edit and do one of the following:

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.

Change the details of the machine that you want to change and click Save.

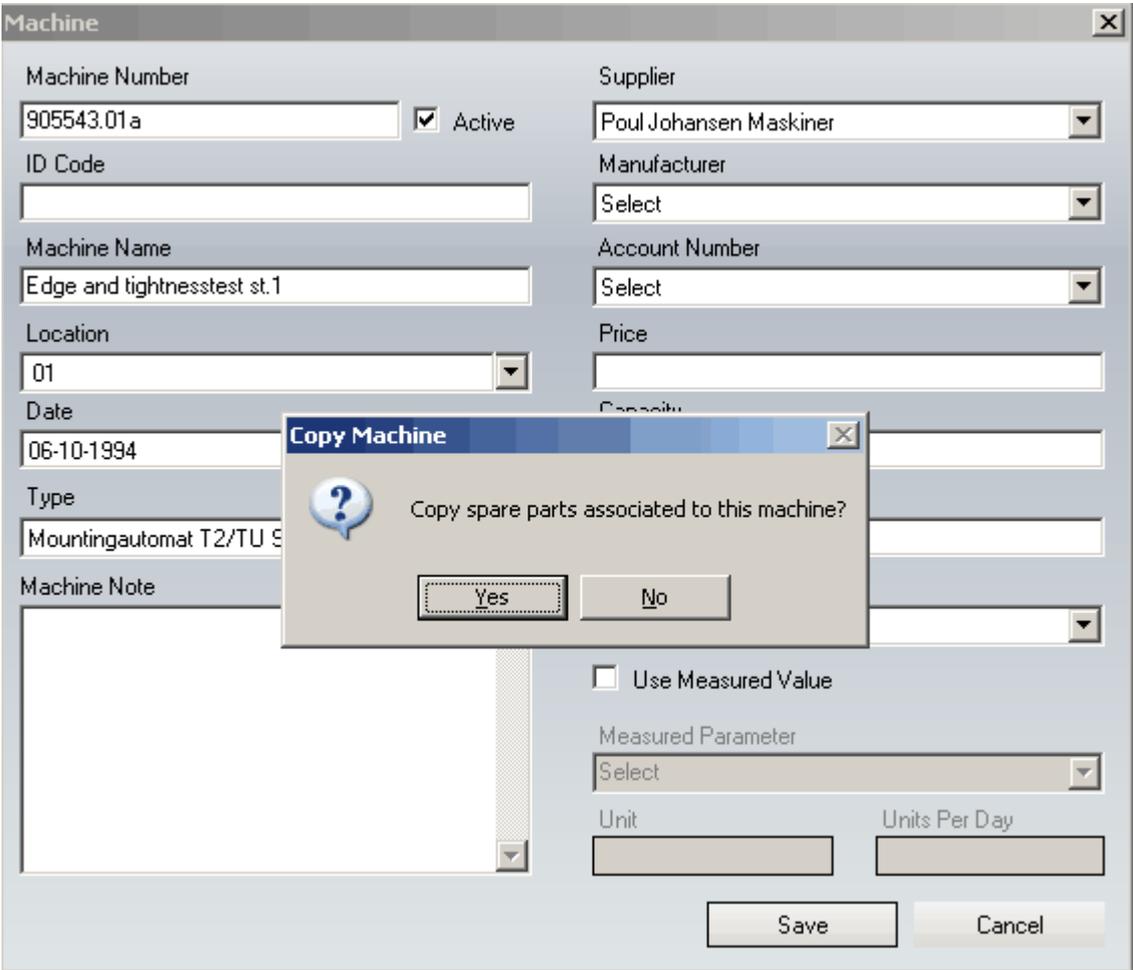
2.3.1.4 Copy Machine

To make it easier for you to create several machines of the same type, with the same tasks, the same spare-parts etc. PM5 can copy an existing machine. To do this do one of the following:

- 1) File -> Create copy...
- 2) Right click and choose "Create copy..."

3) ALT+F, C

After you have made the modifications to the machine info and click save, if the machine has existing spare part associations, you will be asked if you want to copy the association of spare parts from the original machine.



After replying to this question, if the original machine has existing task association, you will be asked if you want to copy the tasks for this machine

The screenshot shows the 'Machine' dialog box with the following fields and values:

- Machine Number: 905543.01aa
- Active:
- Supplier: Poul Johansen Maskiner
- Manufacturer: Select
- Account Number: Select
- Price: [Empty]
- Location: 01
- Date: 06-10-1994
- Type: Mountingautomat T2/TU 923
- Machine Note: [Empty]

The 'Copy Machine' dialog box is overlaid on top of the 'Machine' dialog box. It contains the following text and buttons:

- Copy task associated to this machine?
- Number of tasks that will be copied: 1
- Buttons: Yes, No

At the bottom of the 'Machine' dialog box, there are two buttons: Save and Cancel.

And if you reply yes to this question you will be asked to choose a date for the activities. The date you choose will be used for all tasks first occurrence.

The image shows a software interface for managing machine data. The main window is titled "Machine" and contains several input fields and dropdown menus. A smaller dialog box titled "Copy Machine Task" is overlaid on top of the main window, prompting the user to select a "Date of First Activity".

Machine Form Fields:

- Machine Number: 905543.01aa Active
- ID Code: [Empty]
- Machine Name: Edge and tightnesstest st.1
- Location: 01
- Date: 06-10-1994
- Type: Mountingautomat T2/TU 9232
- Machine Note: [Empty text area]
- Supplier: Poul Johansen Maskiner
- Manufacturer: Select
- Account Number: Select
- Price: [Empty]
- Mounting line: Mounting line
- Use Measured Value
- Measured Parameter: Select
- Unit: [Empty]
- Units Per Day: [Empty]

Copy Machine Task Dialog:

- Title: Copy Machine Task
- Label: Date of First Activity
- Value: 18. februar 2009
- Button: Ok

Buttons at the bottom of the Machine form: Save, Cancel

After choosing the first activity date of the machine, if the original machine has existing attachments, you will be asked if you want to copy also the attachments for this machine

Note: You are required to change the Machine Number and select the Location of the machine when making a copy of a machine.

2.3.1.5 Delete Machine

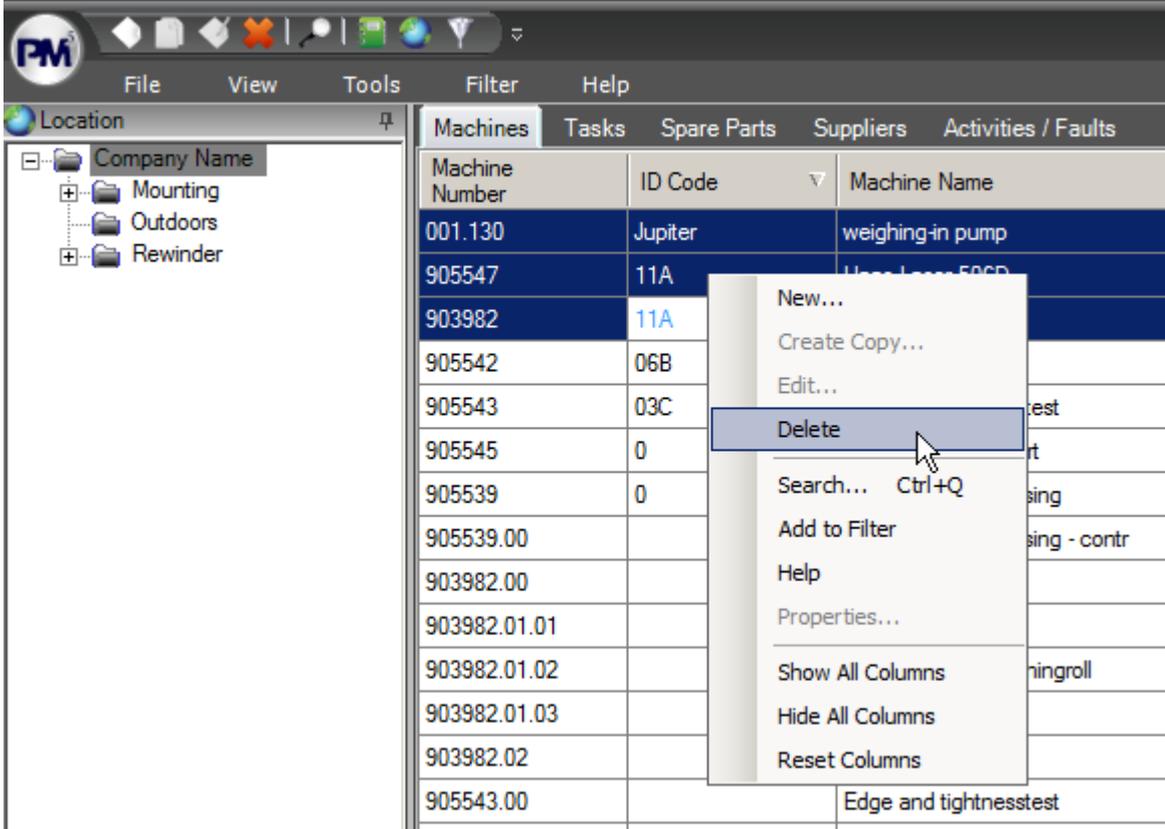
To delete a machine, select the machine and do one of the following

- 1) CTRL + D
- 2) Right click and click "Delete"
- 3) File -> Delete

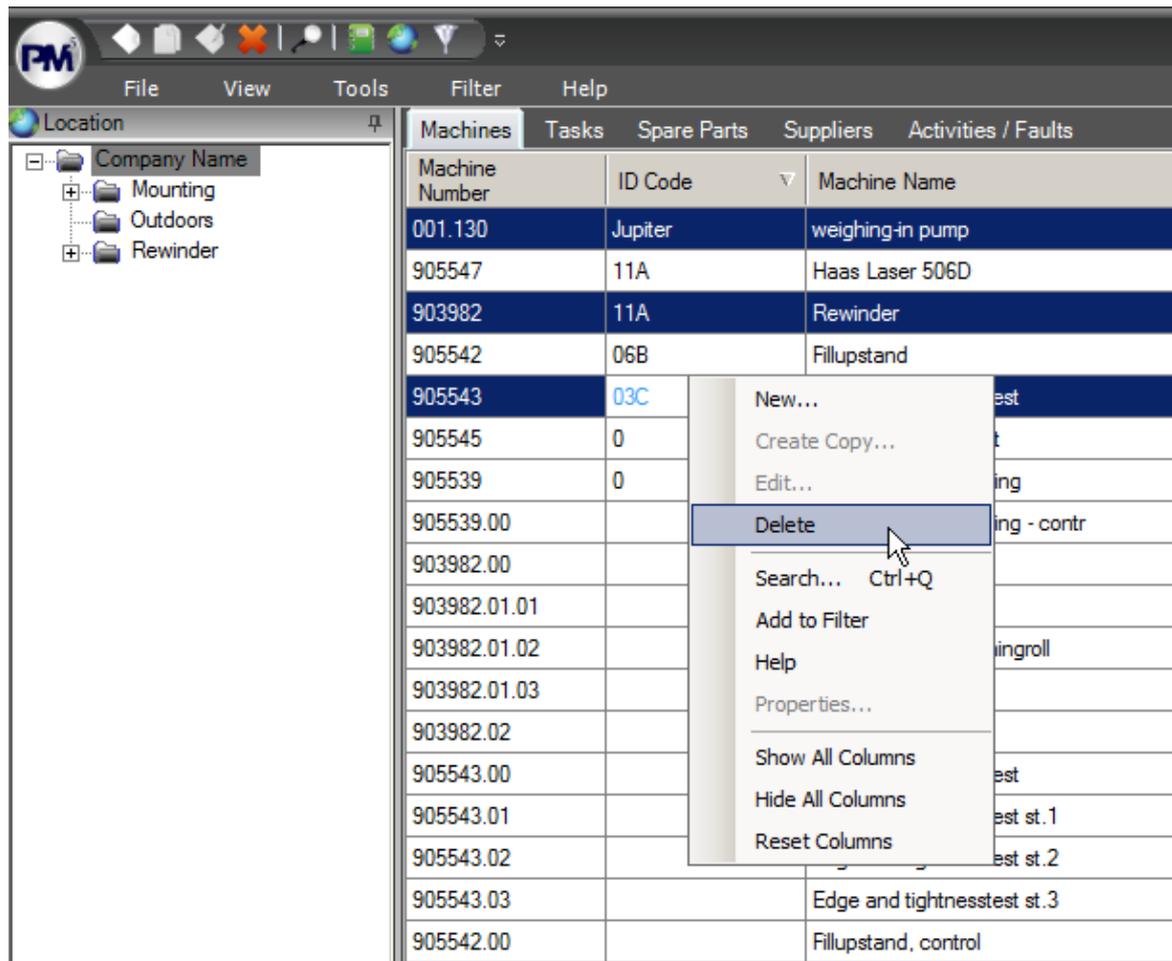
You will be asked if you want to continue this operation. Mark the check box and click Yes.

The reason why this extra step has been implemented is that this operation will delete everything related to this machine. This will be tasks, activities, records of consumption, used man hours etc. Use this functionality with care!

To delete multiple machines in one operation you can select these by clicking one record, hold shift and then click the last record you want to delete. Then do the steps above.



You can also hold CTRL and click the records you want to delete one at a time.



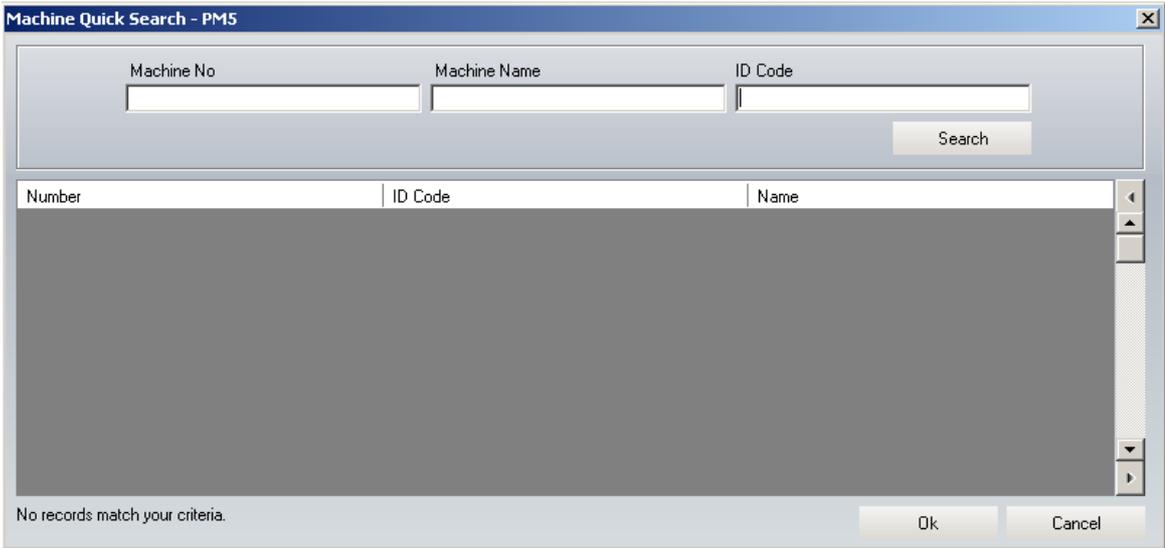
2.3.1.6 Search for a Machine

To perform a search you need to know one of the following about the machine you are looking for: Machine Number, Machine Name or ID Code.

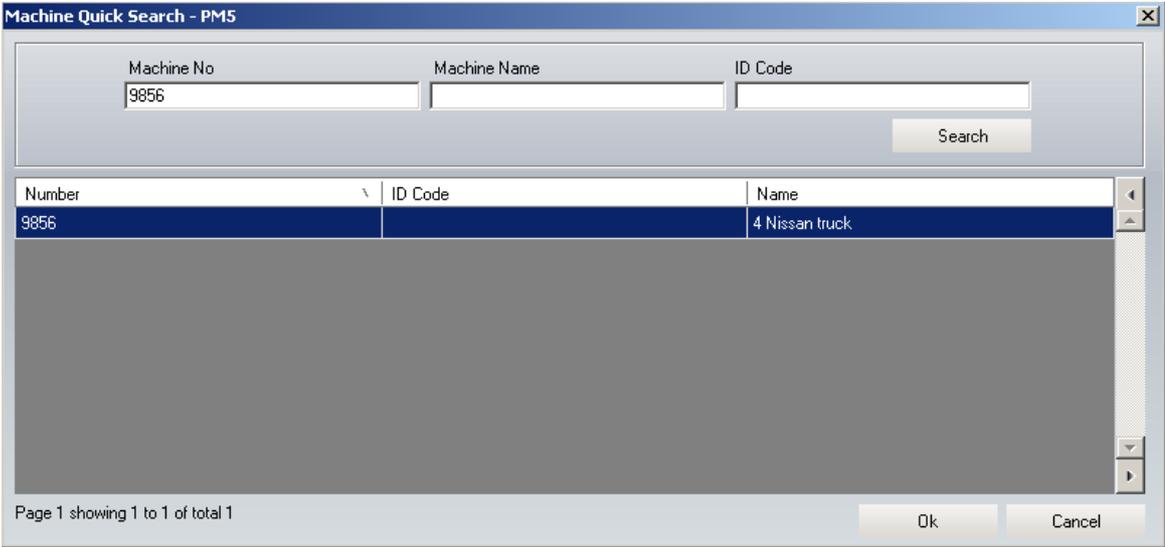
To search for a machine do one of the following:

- 1) File -> Search
- 2) Right click and click "Search"
- 3) CTRL + Q

Then you will get this form



Enter the value for any of the following: Machine Number, Machine Name or ID Code and click Search.



You will see the search results in the results grid. Click OK to return to the machines tab. You will be taken back to the Machines Tab where the search result you selected is highlighted.

Note: You can only search for machine that are present in the Location selected in the Location Pane. If the machine being searched for is not present in the selected Location, it will not show up in the search results.

2.3.1.7 Machines Sub Tabs

The seven sub tabs of machines are discussed in this section.

2.3.1.7.1 Details Sub Tab

The Details Sub Tab shows you the Machine Note, Capacity, Power, Status (Active or Inactive), Measured Parameter and the Custom Field Group used by the Machine.

The Details Sub Tab of Machine

You can find out more about Measured Parameters by reading [Measured Parameters](#).
You can find instructions on how to create Custom Field Groups by reading [Custom Field Groups](#).

2.3.1.7.2 Tasks Sub Tab

The Tasks Sub Tab shows the Tasks that have been created for the machine.

Here, you can create a new Task [New Task], delete a Task [Delete Task] or view the selected Task in the Tasks Tab [Go To Task].

Name	Interval (Days)	Interval (Units)	Active	Estimated Man Hours
Service oil 30 days	30	0	<input type="checkbox"/>	1
pump control, 1/2 year servicecheck	180	0	<input checked="" type="checkbox"/>	2.5

The Tasks Sub Tab of Machine

The advantage of creating tasks through this tab is that it automatically assign the created task to the highlighted or chosen machine in the main grid.

Machine Number	ID Code	Machine Name	Location	Date	Type
001.130	Jupiter	weighing-in pump	Rewinder		
905547	11A	Haas Laser 506D	Mounting		
903982	11A	Rewinder	Rewinder		
905542	06B	Fillupstand	Mounting		
905544	06B	Fillupstand	00		
905546	06B	Fillupstand	Mounting		
9055423	06B	Fillupstand	00		

Page 1 showing 1 to 20 of total 28

Details | **Tasks** | Activities | Spare Parts | Faults | Stop | Attachments

Name	Interval (Days)	Interval (Units)
12 months batterychange CPU101U/...	360	0

Task

Task Name: Active

Machine:

Type of Task:

To Be Signed By:

Technical Group:

Priority:

The Tasks Sub Tab of Machine - Showing the association of machine name in the main grid to the task form when initiated through the Tasks Sub Tab

You can find out more about Tasks by reading the [Task](#) section.

2.3.1.7.3 Activities Sub Tab

The Activities Sub Tab shows the Activities that have been performed and the Activities scheduled to be performed for the selected machine. Here, you can see which Activities used Spare Parts [Consumption, Spare Parts]. The [Consumption, Spare Parts] button gives you an overview of all used spare parts for this particular machine.

Task Name	Date	Done	Done Date	Signed By	Used Man Hours	Note
12 months batte...	8/10/20...	<input type="checkbox"/>			0	
12 months batte...	4/15/20...	<input checked="" type="checkbox"/>	8/16/2007 9:00...	DVS	0.5	

Consumption, Spare Part Go To Activity

The Activities Sub Tab of Machine

You can also view the selected Activity of the machine in the Activities / Faults Tab [Go To Activity].

To learn more about Activities, click [here](#).

2.3.1.7.4 Spare Parts Sub Tab

The Spare Parts Sub Tab shows the Spare Parts associated to a Machine. Here, you can associate a Spare Part [Associate Spare Part], edit its association [Edit Association] or remove its association [Remove Association]. You can also see which Spare Parts were used while performing an Activity [Consumption, Spare Parts] and you can view the selected Spare Part in the Spare Parts Tab [Go To Spare Part].

Spare Parts							
Number	Type Number	Name	Group	Quantity	Note	Dimension	Store
93131023	ADVU-12-20-A-P-A	Aircylinder Festo	Air cylinder double-ac...	1			
986U2058	DSNU-10-10-P-A	Aircylinder Festo	Air cylinder double-ac...	1			
981X1397	6000 2Z	Service oil 30dg	Single-row ball bearing	1		e10x26x8	
92326601	BES 516-371-G...	No contact sencor ...	Non-contacting senc...	1		e6.5x54.5 PNP 2...	
5512	BES 516-377-S4-C	No contact sencorB...	Non-contacting senc...	1		M8x1x61.5 PNP ...	
984F9269	6 EW 1000-7AA	Batterie Siemens PS...	Fittings, hydraulik	1		e25x50	
93131024	ADVUL-12-20-P-A	Aircylinder Festo	Air cylinder double-ac...	1			
986U2060	DSNU-10-50-P-A	Aircylinder Festo	Air cylinder double-ac...	1			
986U2061	ADVU-100-30-P-A	Aircylinder Festo	Air cylinder double-ac...	1			
932L9327	MFH-5/2-D-1/C	Magnetvent Festo	Magnetic valve, pne...	1		R 1/8"	
932L9329	MFH-5/3-GB-VI	Magnetvent Festo	Magnetic valve, pne...	1		R 1/8"	
932L9363	MFH-5-1/4-S	Magnetvent Festo	Magnetic valve, pne...	1		R 1/4"	
93653227	6GT2.002-04B00	Siemens Moby chan...	Print and modules, PLC	1			

Consumption, Spare Part

Associate Spare Part Edit Association Remove Association Go To Spare Part

The Spare Parts Sub Tab of Machine

To associate multiple spare parts in one operation you can select these by clicking one record, hold shift and then click the last record you want to associate. Enter the Quantity then click Save.

Machine Spare Part Association

Machine No: 903982 Machine Name: Rewinder

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	No.	Type No	Name
Non-contacting sencors	984F8510	BES 516-3...	No contact sencor Balluf
Non-contacting sencors	984F8511	BES 516-3...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-3...	No contact sencor Balluf
Magnetic valve, pneumatic	932L9328	MFH-5-1/8...	Magnetvent Festo
Single-row ball bearing	981X1396	6005 2RS	Ballbearing SKF

Quantity: 50 Store:

Note:

You can also hold CTRL and click the records you want to associate one at a time.

Machine Spare Part Association [X]

Machine No: 903982 Machine Name: Rewinder

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	No.	Type No	Name
Non-contacting sencors	984F8510	BES 516-3...	No contact sencor Balluf
Non-contacting sencors	984F8511	BES 516-3...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-3...	No contact sencor Balluf
Magnetic valve, pneumatic	932L9328	MFH-5-1/8...	Magnetvent Festo
Single-row ball bearing	981X1396	6005 2RS	Ballbearing SKF

Quantity: 50 Store:

Note:

You can also associate specific spare parts to the machine by using the Filters in the Machine Spare Part Association form.

Group	No.	Type No	Name
Battery, PLC	w79084-E1001-B2	57051504...	Battery for OP Manel

It is important to note that when attempting to associate a specific Spare Part to a Machine, the list of Stores displayed for the selected Spare Part is filtered by what is available in the current Location.

You can learn more about Spare Parts by reading [Spare Parts](#).

2.3.1.7.5 Faults Sub Tab

The Faults Sub Tab shows the Faults that have been created for the selected machine. Here, you can create a new Fault [New Fault], delete a Fault [Delete Fault] and view the selected Fault in the Activities / Faults Tab [Go to Fault]. You can also see which Faults used Spare Parts [Consumption, Spare Parts].

Cause	Type	Date	Description	Solved	Solution
	Accident	11/18/2009		<input type="checkbox"/>	
B01.0	Emission error	12/2/2003 8:00 ...		<input checked="" type="checkbox"/>	

Consumption, Spare Part

New Fault Delete Fault Go To Fault

The Faults Sub Tab of Machine

You can learn more about Faults by reading [Faults](#).

2.3.1.7.6 Stop Sub Tab

The Stop Sub Tab shows the Stops that have been created for the selected Machine. Here, you can delete a Stop [Delete Fault] and view the selected Stop in the Stop Sub Tab of the Activities / Faults Tab [Go to Stop].

Date Start	Time Start	Date End	Time End	Down-time Type	Duration
12/2/2003	21:22	12/3/2003	21:22	Electrical	24:00:00

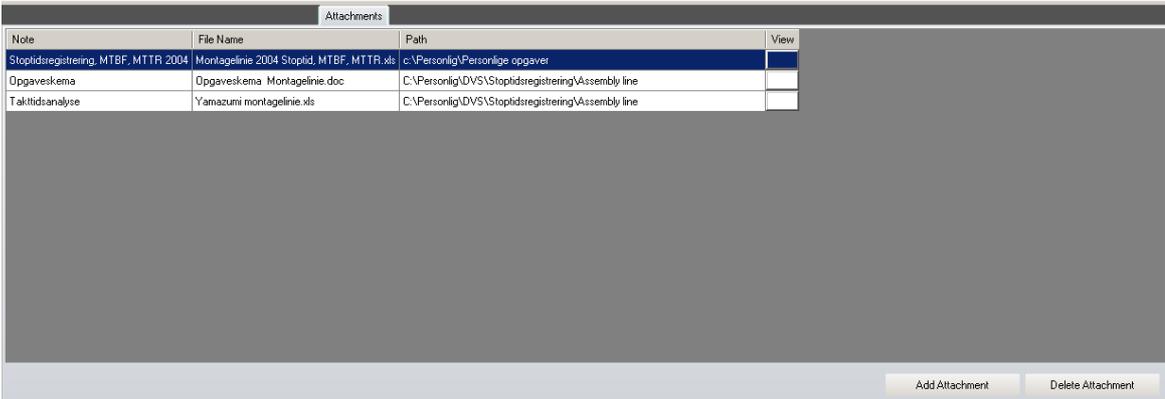
Delete Stop Go To Stop

The Stop Sub Tab of Machine

You can learn more about Stops by reading [Stops](#).

2.3.1.7.7 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected Machine.

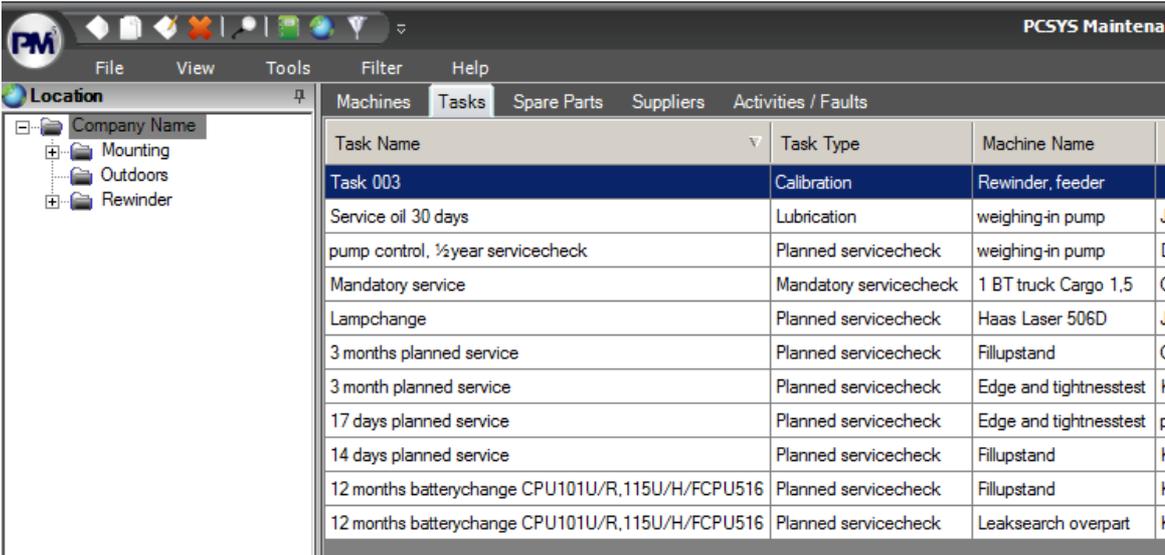


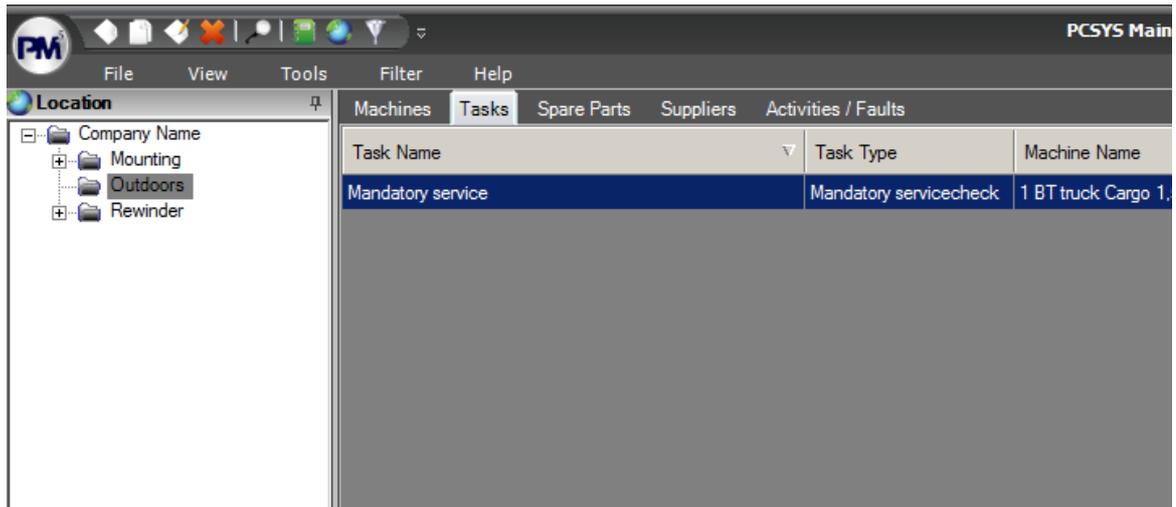
The Attachments Sub Tab of Machine

You can learn more about Attachments in [Attachments](#).

2.3.2 Tasks

The tasks pane shows you the task definitions for the machines. The list is per default limited to the machines located in the location you have chosen in the location tree as on the machines pane.





In PM5, a task is a description of the activities needed to perform preventive maintenance on a machine. It can be the changing of oil, replacement of batteries, cleaning of filters, and so forth. When creating a task, you will be able to specify the machine for which the activities will be performed and how often the activities should be performed.

Tasks and Activities are inextricably linked so whenever you create a Task, you will also be creating the first Activity.

An activity is a record of a moment in time in the progress of a task. If you look at an activity, you will see the scheduled date of when the activity is supposed to be performed and whether it has already been performed.

When creating a task, you can specify how often the service should be performed. When creating an activity for the first time, you specify what date the first service is to be performed.

The Tasks Tab has six sub tabs: Details, Activities, Spare Parts, Calibration – Definition, Calibration History and Attachments. You can find more information about each sub tab by reading the Tasks Sub Tab section.

2.3.2.1 Task Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Machine, Type of Task, To Be Signed By and Technical Group fields. If you want to add, edit or delete values in Machine, Type of Task, To Be Signed By and Technical Group, please click on their underlined names in the image.

Task Name - the name of the task.

Active Checkbox - a task can be marked as active or not active (no mark). Learn more [here](#).

Machine - the machine for which the activities will be performed. A task cannot be saved without a reference to a machine.

Type of Task - the task's type.

To Be Signed By - refers to the person who will sign the task once set to done.

Technical Group - refers to the technical group who should perform the task.

Priority - may contain any value. The value entered in Priority becomes the default value in all Activities recorded by the Task. Activities can be sorted using Priority.

Estimated Manhours - the estimated total amount of uninterrupted labor required to perform a task. The button for this can only be enabled upon clicking the Apply button and selecting the first activity date. Learn more [here](#).

Locked Checkbox - a check in "locked" means that even if the activity is performed before or after the scheduled date, the new activity will be planned according to the original planned date.

Days - the interval of days between each activity planned for this task.

Measured Unit - this field can only be seen if the associated machine is using a measured value. Measured unit is used in calculating the next activity date of a machine using a measured parameter.

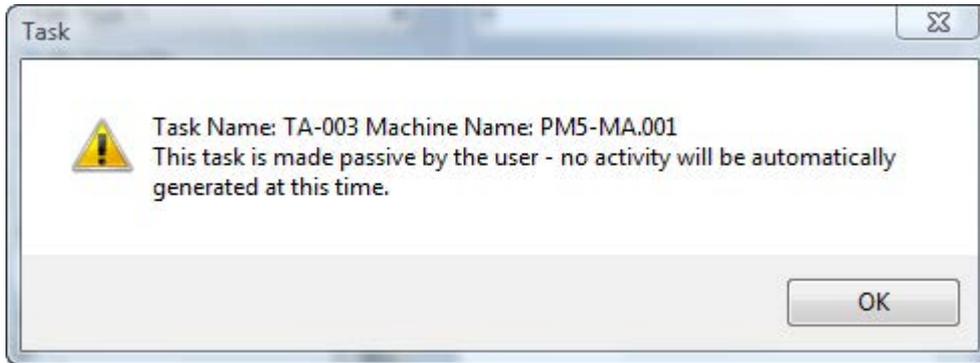
Task Note - in this field you can note down other information regarding the task.

2.3.2.1.1 Active Checkbox

Active Checkbox - a task can be marked as active or not active (no mark).

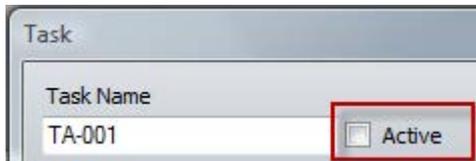
- Active task - if the task is active, PM5 will automatically plan a new activity, as soon as a planned activity has been completed. The new activity will be scheduled according to the description of the task. This way, any active task will have exactly one planned activity.

- Passive task - if no value is specified in the Days field of Task, PM5 will define this task as Passive. The lack of this information makes it impossible for PM5 to schedule the next activity. PM5 will therefore remove the check mark for "Active" and inform the user about this.

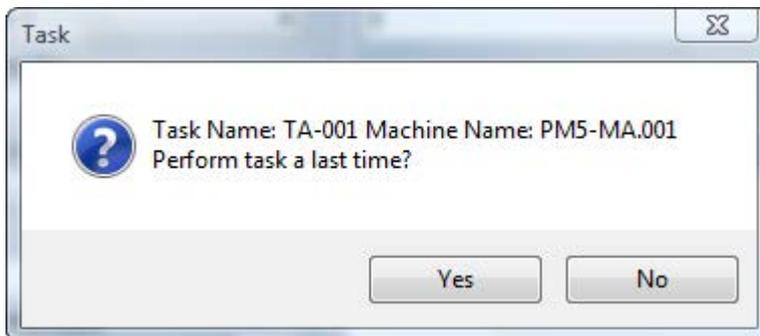


Message to appear when task was set as Inactive

Alternatively, an active task can also be made passive by removing the check mark in the Active checkbox.



PM5 will then ask you if you want to perform the task for the last time.



A task made passive, has been suggested to be scheduled once more.

If you choose "Yes", you will be asked for the date of the last activity.



The date for last activity should be given

2.3.2.2 Create Task

To create a task you can do one of the following.

- 1) CTRL+N
- 2) Right click and click "New..."
- 3) File -> New...

Then you will get this form.

The screenshot shows a 'Task' dialog box with the following fields and options:

- Task Name:** Text input field.
- Active:** Checked checkbox.
- Machine:** Dropdown menu with 'Select'.
- Type of Task:** Dropdown menu with 'Select'.
- To Be Signed By:** Dropdown menu with 'Select'.
- Technical Group:** Dropdown menu with 'Select'.
- Priority:** Text input field.
- Estimated Manhours:** Text input field with '0' and a small icon.
- Interval:** Section containing:
 - Locked:** Unchecked checkbox.
 - Days:** Text input field with '0'.
- Task Note:** Large text area.
- Buttons:** 'Save' and 'Cancel' at the bottom right.

- 1) Give the task a name.
- 2) Select the machine.
- 3) Select the type of task (see how to define types [here](#)).
- 4) Select who should sign this task.
- 5) Select the technical group that should perform this task.
- 6) Set which priority this task should have.
- 7) You can specify the manpower resources of this task by clicking the icon beside the estimated man hours field.
- 8) Enter how many days there should be between each activity planned for this task.
- 9) Enter a describing text for the task.
- 10) Click Save.

You will then be asked if you want to associate/transfer spare parts to the task.

The image shows a 'Task' dialog box with the following fields and options:

- Task Name: Task 2
- Machine: 1.1000
- Type of Task: Attempt
- To Be Signed By: pm5
- Technical Group: Blacksmith
- Priority: (empty)
- Estimated Manhours: 1.0
- Interval: (empty)
- Days: 25
- Active: Active
- Locked: Locked

An 'Associate Spare Part' modal dialog is overlaid on top, asking: "Do you want to add spare parts to this task?" with 'Yes' and 'No' buttons.

Upon choosing 'Yes', the Associate Spare Part form will be displayed. If the task's machine has spare part associated to it already, you can either select from the machine's list of spare part or from the global list. Just uncheck the 'Show machine spare parts only' to show the spare parts from the global list.

Associate Spare Part

Filters

Group:

Dimension:

Name:

Bar Code:

Number:

Unit:

Type:

Show machine spare parts only.

Apply Filter

Group	Bar Code	Number	Name	Type
Non-contacting sencors		984F8510	No contact senc...	BES 516-356-B

Quantity:

Store:

Note:

Save Close

- 11) Select the spare part/s and enter the Quantity to be consumed.
- 12) You may/may not select a store.
- 13) Click 'Save' and close the form.

You will then be asked to choose the date for the first planned activity.

The screenshot shows the 'Task' dialog box with the following fields and values:

- Task Name: Task 1
- Machine: 1 BT truck Cargo 1,5
- Type of Task: Calibration
- To Be Signed By: JP
- Technical Group: Blacksmith
- Priority: (empty)
- Estimated Manhours: 0
- Interval: (empty)
- Days: 10

The 'Date of First Activity' sub-dialog box is open, showing a date picker set to '18. februar 2009'.

Note: Task Name, Machine, and Type of Task are *required fields*. You cannot save a Task if the *required fields* are empty. All other fields are optional.

2.3.2.3 Edit Task

To edit a task, select the task you want to edit and can do one of the following.

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.

Task

Task Name: Task 001 Active

Machine: Machine 001

Type of Task: Attempt

To Be Signed By: Select

Technical Group: Blacksmith

Priority:

Estimated Manhours: 0.00

Interval: Locked

Days: 10

Measured Unit: 140

Task Note:

Save Cancel

Change the details of the Task that you want to change and click Save.

Note: Starting with v5.06, timestamp has been added in the task form. Timestamp is the stored date/time of creation or modification of a file.

Task

Task Name
Task 003 Active

Machine
Rewinder, feeder

Type of Task
Calibration

To Be Signed By
Select

Technical Group
Select

Priority
[]

Estimated Manhours
0.00

Interval
 Locked
Days
7

Task Note
[]

Save Cancel

Created by KB on 7/20/2010 21:38:39.
Modified by pm5 on 7/20/2010 21:39:10.

The Task form - Showing the Timestamp of the task

Timestamp contains the details of who created the task, when it was created, who modified the task and when was it modified.

2.3.2.4 Copy Task

To make it easier for you to create several tasks of the same type with the same spare-parts etc. PM5 can copy an existing task. To do this do one of the following.

- 1) File -> Create copy...
- 2) Right click and choose "Create copy..."
- 3) ALT+F, C

After you have made the modifications to the task info and click save, if the task has existing spare parts association, you will be asked if you want to copy the association of spare parts from the original task.

The screenshot shows a 'Task' dialog box with the following fields and options:

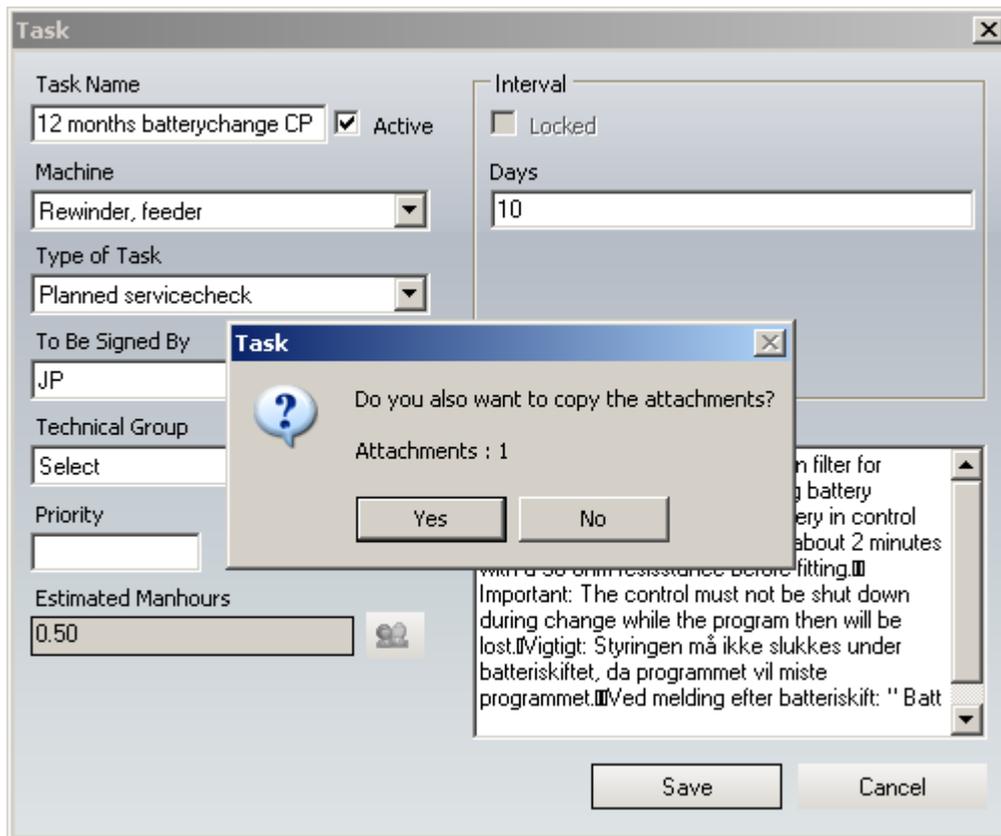
- Task Name: a12 months batterychange C Active
- Machine: Rewinder
- Type of Task: Planned servicecheck
- To Be Signed By: JP
- Technical G: Select
- Priority: [Empty]
- Estimated Manhours: 0,50
- Interval: Locked, Days: 11

An overlaid warning dialog box asks: "Do you want to copy the spare parts of the original task too?" with "Yes" and "No" buttons. The background dialog box also contains a text area with the following text:

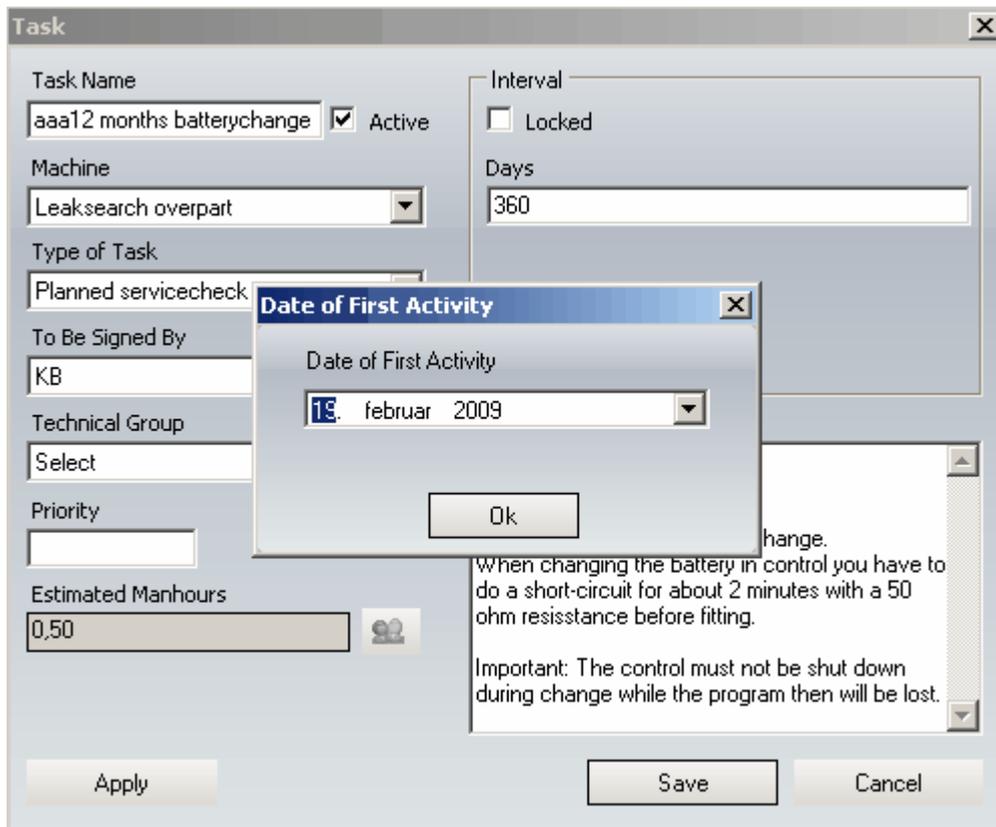
do a short-circuit for about 2 minutes with a 50 ohm resistance before fitting.
Important: The control must not be shut down during change while the program then will be lost.

Buttons at the bottom of the 'Task' dialog include 'Apply', 'Save', and 'Cancel'.

If the original task has existing attachments, you will be asked if you want to copy also the attachments for this task



Then you will be asked for the date of the first activity. If you choose to close this window the task will still be created but no activities will be made.



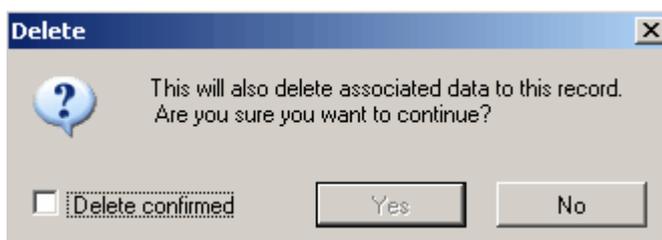
Note: You are required to change one of the following: Task Name, Machine, or Type of Task to successfully create a copy of a Task.

2.3.2.5 Delete Task

To delete a task, select the task and do one of the following

- 1) CTRL+D
- 2) Right click and click "Delete"
- 3) File -> Delete

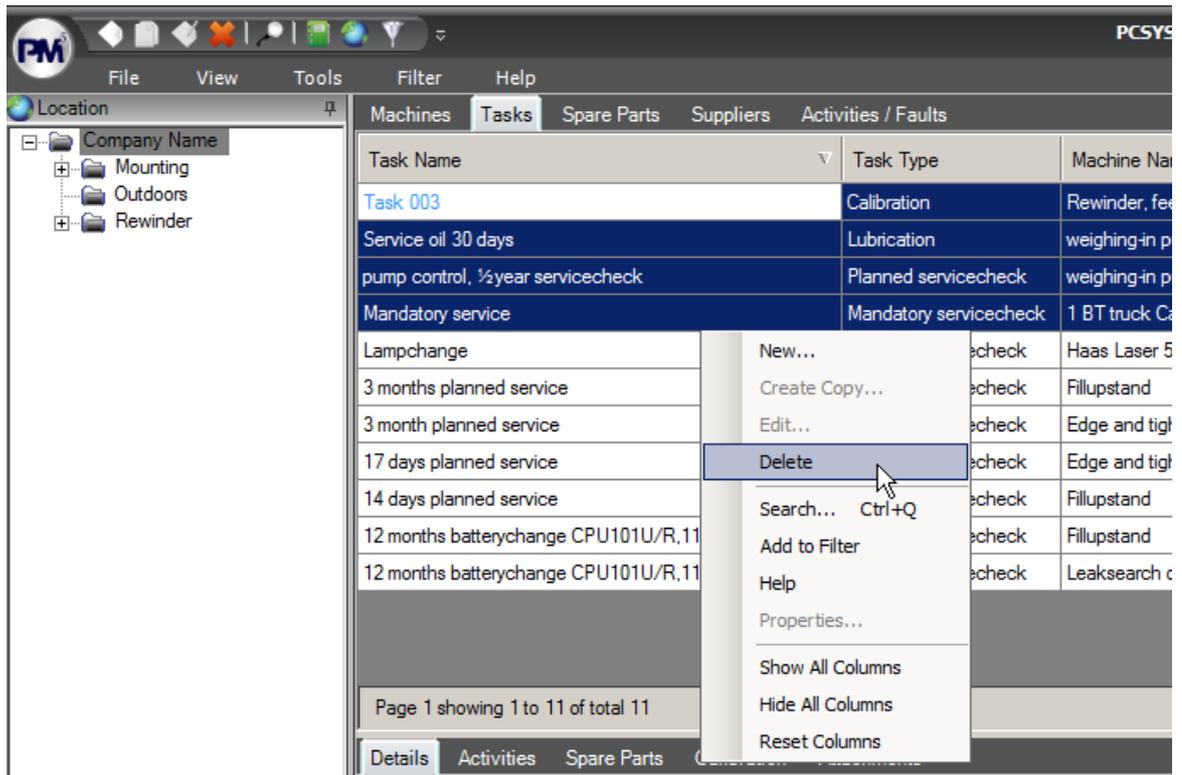
You will be asked if you want to continue this operation. Mark the check box and click Yes.



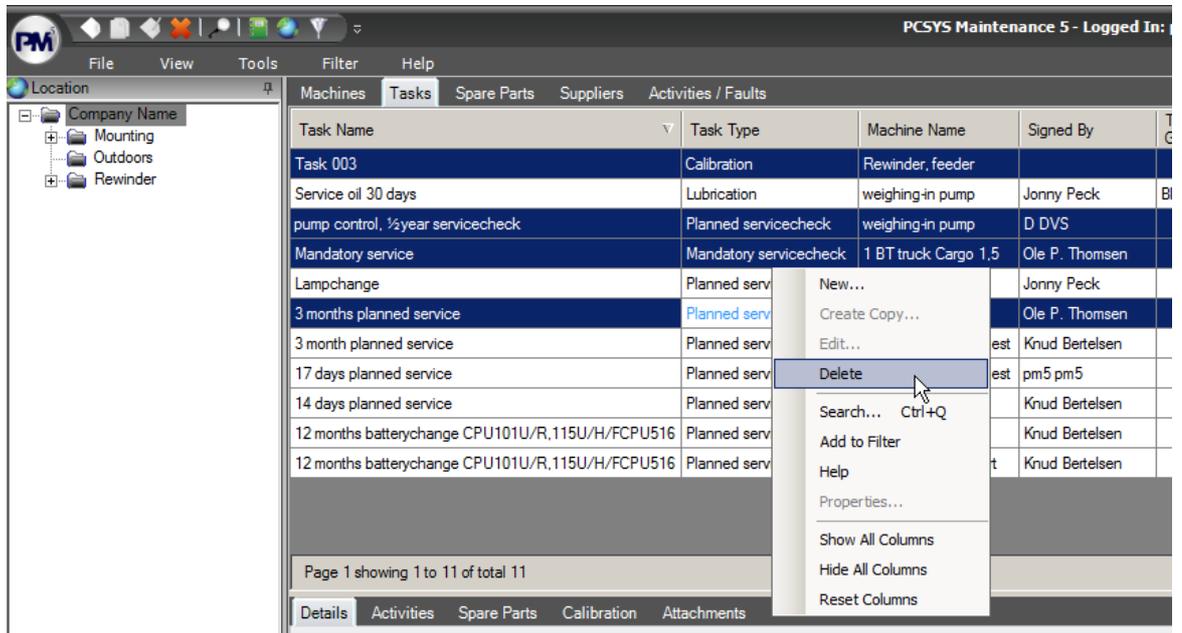
The reason why this extra step has been implemented is that this operation will delete everything related to this task. This will be activities, records of consumption, used man hours etc. Use this functionality with care!

To delete multiple tasks in one operation you can select these by clicking one record, hold shift and

the click the last record you want to delete. Then do the steps above.



You can also hold CTRL and click the records you want to delete one at a time.



2.3.2.6 Search for a Task

To search for a Task you need to know one of the following about the Task you are looking for: Task Name, Task Type, Machine Name or Signed By.

To search for a task do one of the following:

- 1) File -> Search
- 2) Right click and click "Search"
- 3) CTRL + Q

Then you will get this form

The screenshot shows a 'Tasks Quick Search' dialog box. It features a search interface with four input fields: 'Task Name', 'Task Type', 'Machine Name', and 'Signed By'. A 'Search' button is positioned to the right of the 'Signed By' field. Below the input fields is a table with the following columns: 'Task Name', 'Task Type', 'Machine Name', 'Signed By', and 'Technical Group'. The table is currently empty. At the bottom left of the dialog, it displays the message 'No records match your criteria.' At the bottom right, there are 'Ok' and 'Cancel' buttons.

Enter the value for any of the following: Task Name, Task Type, Machine Name or Signed By and click Search.

Task Name	Task Type	Machine Name	Signed By	Technical Group
TA-001	Task Type 1	PM5-MA.001		

You will see the search results in the results grid. Click OK to return to the tasks tab. You will be taken back to the Tasks Tab where the search result you selected is highlighted.

Note: You can only search for Tasks that are present in the Location selected in the Location Pane. If the Task being searched for is not present in the selected Location, it will not show up in the search results.

2.3.2.7 Manpower Resources

In PM5, you can specify who will perform a task or a fault by setting its Manpower Resources. When you specify who performs a task, you are also setting the Manpower Resources of its activities.

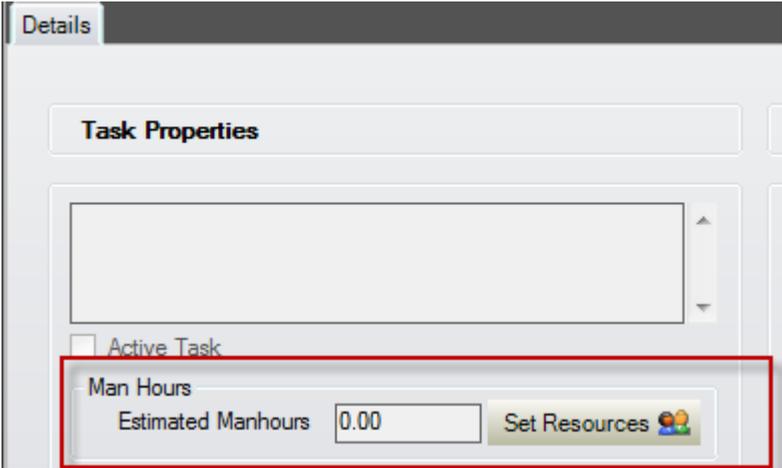
Manpower Resources are the members of a Technical Group you want to assign to a Task or Fault. The selected members are the ones given the responsibility of performing the work required to complete a Task or Fault.

The modification of technical group is done in the administration module of PM5. To learn more about Technical Group, click [here](#).

In task, there are two ways on how to specify its manpower resources.

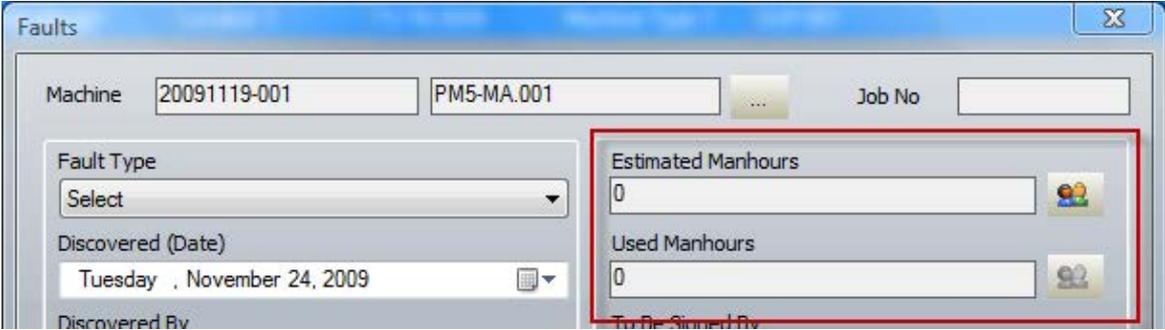
First, through the task form (see [Create Task](#) for instructions).

Second, through the task's details sub tab Set Resources button.



Manpower Resources in the Task's Details Sub Tab

While in fault, the specification of its manpower resources is done through the fault form.



Manpower Resources in the Fault form

Assigning Manpower Resources:

The following steps show you how to use Manpower Resources in tasks and in faults.

- 1) When the Use of Man Power form is shown, click on the drop down button under User ID.

User ID	Estimated Manhours
pm5	0.00

User ID	First Name	Last Name	Technical Group
pm5	pm5	pm5	Technical Group 1
pm6	pm6	pm6	Technical Group 1

Include Other Technical Groups Include other locations

Add Save Cancel

- 2) Select from the list and enter value in the Estimated Manhours field.
- 3) You can add people in the list by checking the Include Other Technical Groups checkbox and Include other locations checkbox.

User ID	Estimated Manhours
(Please select a user.)	0.00

User	First Name	Last Name	Technical Group
pm5	pm5	pm5	Technical Group 1
pm6	pm6	pm6	Technical Group 1
pm7	pm7	pm7	Technical Group 2

Include Other Technical Groups Include other locations

Add Save Cancel

- 4) Click the Add button if you want to assign more resources.
- 5) Click Save.

When you close the form, you will see its total number of estimated manhours.

Adjusting the Used Manhours:

When an activity or fault is done or solved, you can update its used manhours. To update the Used Manhours of activity or fault, follow the following steps.

- 1) Select the activity of the task or select the fault with manhours assigned to it.
- 2) Open the form.
- 3) Click on the button beside the Used Manhours box.

- 4) Observe that the persons you selected in the task or fault form was added to the list of people assigned to work on the Task or Fault.

User ID	Estimated Manhours	Used Manhours	Date	
pm5	2.00	0.00	11/24/2009	X
pm6	1.00	0.00	11/24/2009	X

Include Other Technical Groups Include other locations

Add Save Cancel

- 5) Enter the number of manhours used for each manpower resources. The date refers to when that manhour was used by the assigned person.
- 6) You can add other manpower resources that was not initially assigned to perform the task or fault but got involved in the process.

User ID	Estimated Manhours	Used Manhours	Date
pm5	2.00	0.00	11/24/2009
pm6	1.00	0.00	11/24/2009
pm7	0.00	2.00	11/24/2009

Include Other Technical Groups Include other locations

Add Save Cancel

7) Click Save.

2.3.2.8 Tasks Sub Tabs

The six sub tabs of tasks are discussed in this section.

2.3.2.8.1 Details Sub Tab

The Details Sub Tab shows you the Task Note, Task's Status (Active or Inactive), Man Hours (Manpower Resources), Maintenance Interval, Maintenance Dates and the Custom Field Group used by the Task.

The Details Sub Tab of Task

The Maintenance Dates give you the dates of the latest done and next planned activity. They cannot be changed from here, as they are information on activities.

You can find out more about Manpower Resources by reading [Manpower Resources](#). You can find instructions on how to create Custom Field Groups by reading [Custom Field Groups](#).

2.3.2.8.2 Activities Sub Tab

The Activities Sub Tab shows you all the activities of the task. It lists the finished and unfinished activities as well as when the selected Task has been performed and when it is scheduled to be performed. Here, you can see which Activities used Spare Parts [Consumption, Spare Parts] and you can also view the selected Activity in the Activities / Faults Tab [Go To Activity].

Date	Done	Done Date	Signed By	Used Man Hours	Note
11/19/2009	<input type="checkbox"/>			0	
5/14/2007 9:00 AM	<input checked="" type="checkbox"/>	5/14/2007 9:00 AM	JP	1	
4/14/2007 9:00 AM	<input checked="" type="checkbox"/>	4/15/2007 9:00 AM	JP	1	
3/15/2007 9:00 AM	<input checked="" type="checkbox"/>	3/18/2007 9:00 AM	JP	1	
2/13/2007 8:00 AM	<input checked="" type="checkbox"/>	2/13/2007 8:00 AM	JP	1	
1/14/2007 8:00 AM	<input checked="" type="checkbox"/>	1/14/2007 8:00 AM	JP	1	
12/1/2006 8:00 AM	<input checked="" type="checkbox"/>	12/3/2006 8:00 AM	JP	1	
11/1/2006 9:00 AM	<input checked="" type="checkbox"/>	11/2/2006 9:00 AM	JP	1	
10/2/2006 9:00 AM	<input checked="" type="checkbox"/>	10/5/2006 9:00 AM	JP	1	
9/2/2006 9:00 AM	<input checked="" type="checkbox"/>	9/10/2006 9:00 AM	JP	1	
8/3/2006 9:00 AM	<input checked="" type="checkbox"/>	8/6/2006 9:00 AM	JP	1	
6/3/2006 9:00 AM	<input checked="" type="checkbox"/>	6/4/2006 9:00 AM	JP	1	
5/4/2006 9:00 AM	<input checked="" type="checkbox"/>	5/4/2006 9:00 AM	DVS	1	
4/4/2006 9:00 AM	<input checked="" type="checkbox"/>	4/4/2006 9:00 AM	KB	1	
3/5/2006 8:00 AM	<input checked="" type="checkbox"/>	3/5/2006 8:00 AM	JP	1	
2/3/2006 8:00 AM	<input checked="" type="checkbox"/>	2/5/2006 8:00 AM	JP	1	
1/4/2006 8:00 AM	<input checked="" type="checkbox"/>	1/4/2006 8:00 AM	JP	1	

Consumption, Spare Part Go To Activity

The Activities Sub Tab of Task

You can learn more about Activities by reading [Activities](#).

2.3.2.8.3 Spare Parts Sub Tab

The Spare Parts Sub Tab shows the Spare Parts associated to a Task. Here, you can associate a Spare Part [Associate Spare Part], edit its association [Edit Association] or remove its association [Remove Association]. You can also see which Spare Parts were used while performing an Activity [Consumption, Spare Parts].

Note that this association is different from the association of spare parts to machines. When a task has been completed, PM5 can take note of the quantity of spare part used for that activity (see Activities and Faults - **Spare Part Sub Tab**).

Spare Parts						
Number	Type Number	Name	Group	Quantity	Note	Store
986U2060	DSNU-10-50-P-A	Aircylinder Festo	Air cylinder double-acting	15		Stock: B3 - Shelf 61 -- 1-8 --
986U2058	DSNU-10-10-P-A	Aircylinder Festo	Air cylinder double-acting	15		
984F8510	BES 516-356-B0-C-03	No contact sensor ...	Non-contacting sensors	15		Stock: B3 - Shelf 62 -- 11-6 --

Consumption, Spare Part

Associate Spare Part Edit Association Remove Association

The Spare Parts Sub Tab of Task

To associate multiple spare parts in one operation you can select these by clicking one record, hold shift and then click the last record you want to associate. Enter the Quantity then click Save.

Associate Spare Part

Task Type: Attempt Task Name: Task 001

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	No.	Type No	Name
Non-contacting sencors	984F8511	BES 516-32...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-32...	No contact sencor Balluf
Air cylinder double-acting	986U2061	ADVU-100...	Aircylinder Festo
Air cylinder double-acting	93131023	ADVU-12-2...	Aircylinder Festo
Air cylinder double-acting	93131024	ADVUL-12...	Aircylinder Festo

Quantity: Store:

Note:

You can also hold CTRL and click the records you want to associate one at a time.

Associate Spare Part

Task Type: Attempt Task Name: Task 001

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	No.	Type No	Name
Non-contacting sencors	984F8511	BES 516-32...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-32...	No contact sencor Balluf
Air cylinder double-acting	986U2061	ADVU-100-...	Aircylinder Festo
Air cylinder double-acting	93131023	ADVU-12-2...	Aircylinder Festo
Air cylinder double-acting	93131024	ADVUL-12-...	Aircylinder Festo

Quantity: Store:

Note:

You can also associate specific spare parts to the task by using the Filters in the Associate Spare Part form.

Task Type: Planned servicecheck
Task Name: Lampchange

Filters:

Group: Select
Dimension:
Name:
Bar Code:
Spare Part No: BJ-3282
Unit:
Type No:
Apply Filter

Group	No.	Type No	Name
Gear	BJ-3282	1 xx 10100 ...	BJ-Snekkegear

Quantity:
Store:
Note:
Save Close

It is important to note that when attempting to associate a specific Spare Part to a Task, the list of Stores displayed for the selected Spare Part is filtered by what is available in the current Location.

You can learn more about Spare Parts by reading [Spare Parts](#).

2.3.2.8.4 Calibration

Calibration is useful for taking counter readings every time an activity is done.

The Calibration Tab in Tasks is divided into two Sub Tabs - Definition and History. Definition is where you can enter calibration Data and History is where you can view a historical log of calibration Data.

Under the Definition Sub Tab, you can select a Calibration Group (in the dropdown box beside Group Name) and enter data for the Fields in the selected Calibration Group. You will be able to see the same data you entered in Definition when you go to any Activity of the Task in the Activities / Faults Tab and take look at the Calibration Sub Tab. This serves as a reference.

Under the History Sub Tab, you can see a list of Calibration readings. If, in the Definition Sub Tab, a Calibration Group's "Reading" box is checked, you may enter values in the Reading Sub Tab of the Activity in the Activities / Faults Tab.

For example, let's say you have an Task called "Delivery" and its Calibration Group has a field called "Distance Covered" and its Reading box is checked, when you go to the Activity called "Delivery" in the Activities / Faults Tab and click on the Reading Sub Tab, you will be able to enter a value for Distance Covered.

2.3.2.8.5 Calibration - Definition Sub Tab

To learn how to create Calibration Groups in PM5, click [here](#).

The Calibration – Definition Sub Tab is where you can enter calibration Data. The following example illustrates how to use Calibration Groups.

- 1) In the Tasks tab of PM5, select the task in which you want to use a calibration group.
- 2) Click on the Calibration Sub Tab of the task, click on the Definition Sub Tab and choose the name of the calibration group you want to use.

Calibration - Showing how to assign a calibration group to a task

- 3) Enter values in the respective fields of the selected calibration group.

Calibration - Showing entered values for fields of a calibration group

- 4) In the Activities sub tab of the task, select and double click the activity that is to be set to done. This will bring you to Activities / Faults Tab of PM5.
- 5) While the activity is selected, click on its Calibration sub tab.

<input type="checkbox"/>	pump control, ½ y...	weighing-in pump	001.130	11/14/2007		2.5	<input type="checkbox"/>		DVS	118	180
<input checked="" type="checkbox"/>	14 days plann...	Fillupstand	905542	12/14/2009		2	<input checked="" type="checkbox"/>		-?????-	119	14
<input checked="" type="checkbox"/>	Emission error	Rewinder	903982	12/3/2003	12/3/2003	0	<input type="checkbox"/>		pm5	38	0
<input checked="" type="checkbox"/>	013-b.4	Haas Laser 506D	905547	3/21/2004	3/21/2004	0	<input type="checkbox"/>		pm5	48	0

Page 3 showing 41 to 60 of total 70

Go to page 3

Details Spare Parts Calibration Attachments Task - Attachments

Definition		Reading	
Field Name	Data	Field Name	Data
Date Field	12/1/2009	Date Field	
Number Field	1234567.89	Number Field	

Calibration - Showing the calibration sub tab of an activity

To learn more about Calibration sub tab of an Activity, click [here](#).

- 6) Enter the reading values of the activity for the calibration group in the Reading pane of calibration sub tab.

<input checked="" type="checkbox"/>	14 days plann...	Fillupstand	905542	12/14/2009		2	<input checked="" type="checkbox"/>		-?????-	119	14
<input checked="" type="checkbox"/>	Emission error	Rewinder	903982	12/3/2003	12/3/2003	0	<input type="checkbox"/>		pm5	38	0
<input checked="" type="checkbox"/>	013-b.4	Haas Laser 506D	905547	3/21/2004	3/21/2004	0	<input type="checkbox"/>		pm5	48	0

Page 3 showing 41 to 60 of total 70

Go to page 3

Details Spare Parts Calibration Attachments Task - Attachments

Definition		Reading	
Field Name	Data	Field Name	Data
Date Field	12/1/2009	Date Field	December 02, 2009
Number Field	1234567.89	Number Field	54321.00

Calibration - Showing entered values for Reading pane of activity's calibration sub tab

- 7) Double click the activity. This will open the Activities window. Check the box labeled "Done" and click Save. You will see a message that says "A new activity is scheduled: XX/XX/XXX," where the Xs stand for the scheduled date of the next activity. Click OK to close this message.

Calibration - Setting the activity to done

8) Once the activity was set to done, a new activity should be created if the task is active.

2.3.2.8.6 Calibration - History Sub Tab

The Calibration – History Sub Tab is where you can view a historical log of calibration Data. It shows the data you entered in Reading pane when you go to any Activity of the Task in the Activities / Faults Tab. This serves as a reference.

Details Activities Spare Parts Calibration Attachments		
Definition History		
Date	Date Field	Number Field
12/1/2009	12/2/2009	54321.00

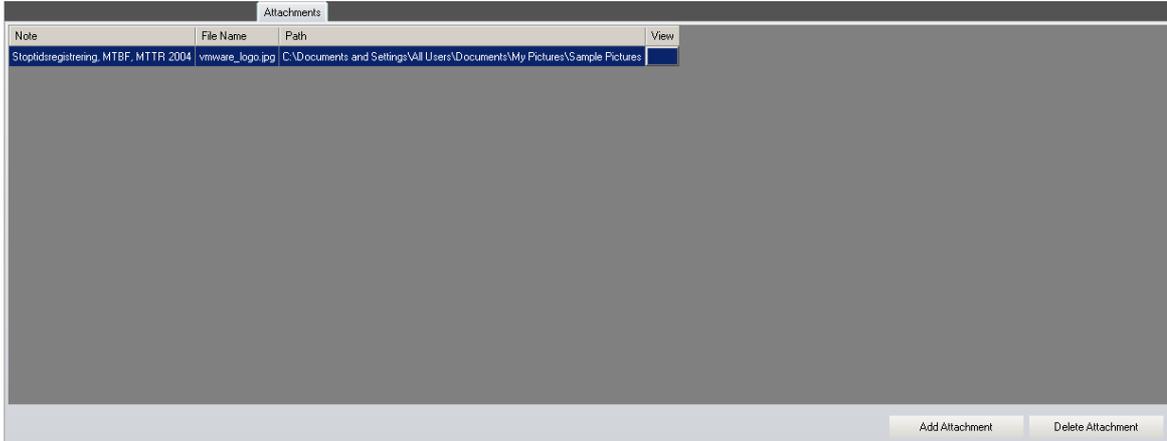
Calibration - History Sub Tab of Task

Calibration Attachments Task - Attachments		
		Reading
Date	Field Name	Data
12/1/2009	Date Field	12/2/2009
1234567.89	Number Field	54321.00

Calibration - Calibration Sub Tab of Activities/Faults

2.3.2.8.7 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected Task.

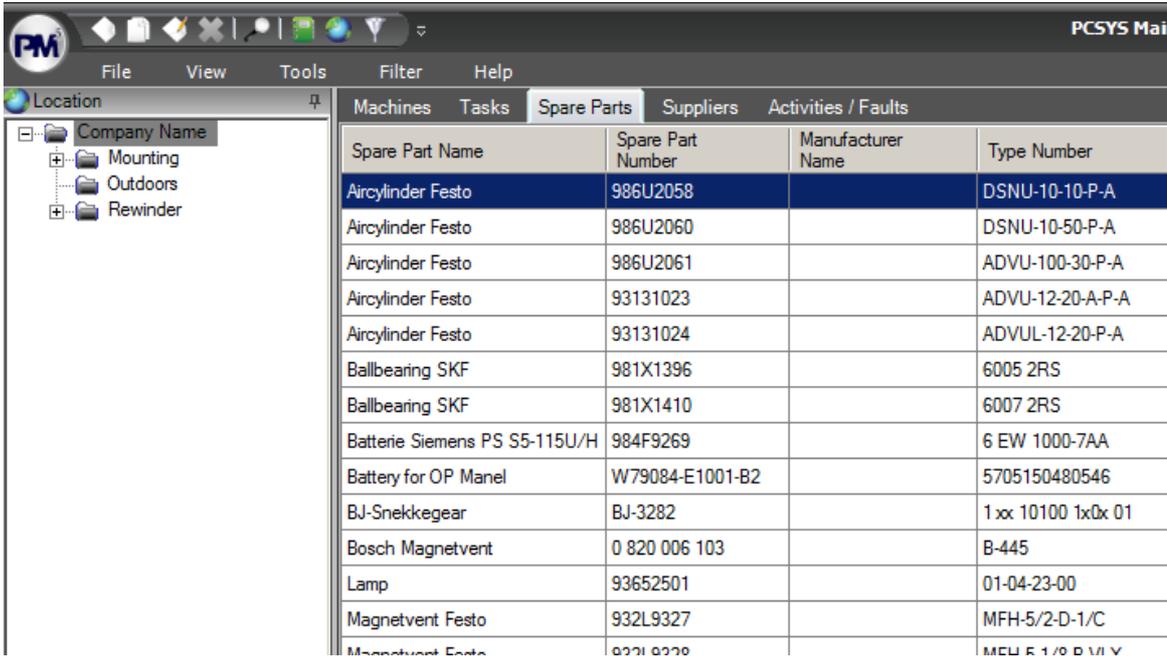


The Attachments Sub Tab of Tasks

You can learn more about Attachments in [Attachments](#).

2.3.3 Spare Parts

This pane shows the spare parts defined in the system. These spare parts can be assigned to machines, tasks and activities. You can also assign store locations to your spare parts and get extended functionality like stock keeping, definition when re-ordering for stock and more. This section will guide you through all the functionality.



In PM5, a spare part is anything that can be used to replace a broken or worn out component of a machine.

The Spare Parts Tab has seven sub tabs: Details, Machines, Consumptions – Activities,

Consumptions – Faults, Stores, Suppliers and Attachments. You can find more information about each sub tab by reading the Spare Parts Sub Tab section.

2.3.3.1 Spare Parts Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Group and Manufacturer Name fields. If you want to add, edit or delete values in Group and Manufacturer Name, please click on their underlined names in the image.

The screenshot shows a window titled "Spare Part" with a close button (X) in the top right corner. The window contains the following fields:

- Spare Part Number:** A text input field containing the number "0".
- Type Number:** An empty text input field.
- Spare Part Name:** An empty text input field.
- Spare Part Note:** A large text area with a vertical scrollbar.
- Dimension:** An empty text input field.
- Group:** A dropdown menu with "Select" as the current selection. The word "Group" is underlined in blue above the dropdown.
- Manufacturer Name:** A dropdown menu with "Select" as the current selection. The words "Manufacturer Name" are underlined in blue above the dropdown.
- Bar Code:** An empty text input field.
- Unit:** An empty text input field.
- Cost Price:** An empty text input field.

At the bottom of the window, there are three buttons: "Allocate to Stock" (highlighted in yellow), "Save" (highlighted in yellow), and "Cancel" (highlighted in blue).

The Create New Spare Part Window

Spare Part Number - the unique identifier for a spare part, hence one of the *required* fields to fill out to be able to save a spare part.

Type Number - similar to machine, this field serves as an alternative way to identify a spare part.

Spare Part Name - the name of the spare part.

Spare Part Note - in this field you can note down other information regarding the spare part.

Dimension - measurement in length, width, thickness, etc. of the spare part.

Group - the group where the spare part belongs to.

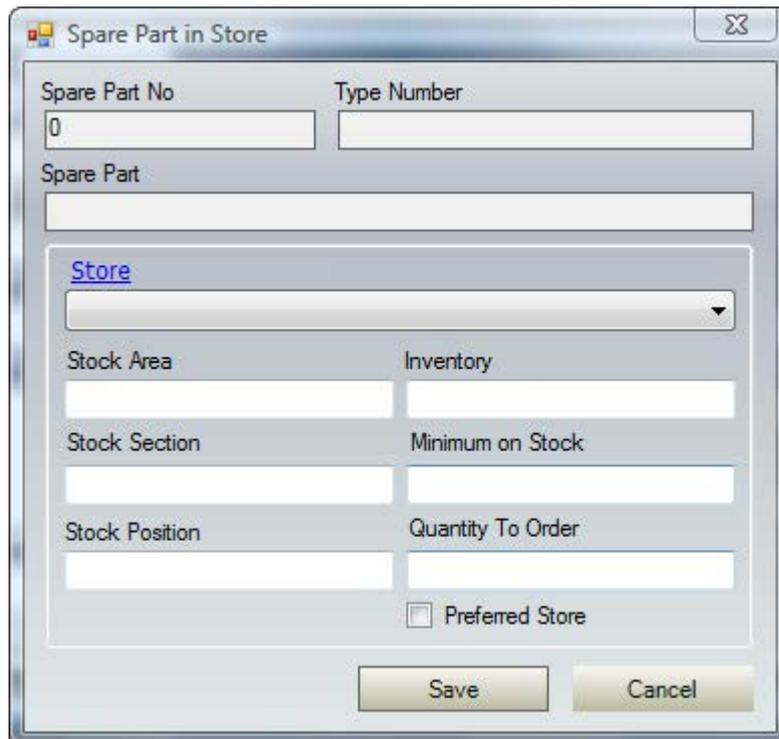
Manufacturer Name - the producer or maker of the machine.

Bar Code - the barcode data of spare part.

Unit - the unit used to measure the amount or quantity of spare parts.

Cost Price - the price of the spare part.

Allocate to Stock - means that you are placing the spare part into a *new* location in stock.



Note: You can click on the link of the image above for further information.

Store - the location of stock.

Stock Area - used to define the specific storage area of spare part.

Stock Section - used to define the specific storage section of spare part.

Stock Position - used to define the specific storage position of spare part.

Inventory - sum of all spare parts that are available .

Minimum on Stock - the expected minimum value of spare parts in stock.

Quantity to Order - the number of spare parts to order.

Preferred Store - if you mark the store as the preferred store for a particular spare part then it will be the default suggested store when associating to tasks, activities etc.

2.3.3.2 Create Spare Part

To create a spare part you can do one of three things:

- 1) File -> New...
- 2) CTRL + N
- 3) Right click the grid and select "New..."

Then you will get this form.

The screenshot shows a window titled "Spare Part" with a close button (X) in the top right corner. The form is organized into two columns of fields:

- Left Column:**
 - Spare Part Number: Text input field.
 - Type Number: Text input field.
 - Spare Part Name: Text input field.
 - Spare Part Note: Text area with vertical scrollbars.
 - Dimension: Text input field.
- Right Column:**
 - Group: Dropdown menu with "Select" as the current value.
 - Manufacturer Name: Dropdown menu with "Select" as the current value.
 - Bar Code: Text input field.
 - Unit: Text input field.
 - Cost Price: Text input field.

At the bottom of the form, there are three buttons: "Allocate to Stock" (highlighted with a dashed border), "Save", and "Cancel".

- 1) Enter the spare part number.
- 2) Put the type number of the spare part.
- 3) Give the spare part a name.
- 4) Enter a describing text for the spare part.
- 5) Enter the dimension of the spare part.
- 6) Select the group of the spare part.
- 7) Select the manufacturer of the spare part.
- 8) If there is any, enter the barcode data of the spare part.
- 9) Enter the unit for the spare part.
- 10) Finally, enter the cost price of the spare part.

Note: Spare Part Number, Spare Part Name and Group are *required fields*. You cannot save a Spare Part if the *required fields* are empty. All other fields are optional.

Allocating the spare part to a stock can be done at a later time. But it's always up to you how you like to manage PM5.

If you want to allocate the spare part to a store location before saving, click the "Allocate to Stock" and you will get the following form.

986112061

Spare Part in Store

Spare Part No Type Number

Spare Part

Store

Drawerstock

Drawer Inventory

Shelf Minimum on Stock

Room Quantity To Order

Preferred Store

Save Cancel

984F8511

- 1) Select the store of the spare part.
- 2) Enter the corresponding values for the store labels.
- 3) Enter the value for inventory.
- 4) Enter the value for minimum on stock.
- 5) Enter the value for quantity to order.
- 6) Decide whether the store will be the preferred store or not.
- 7) Click save.

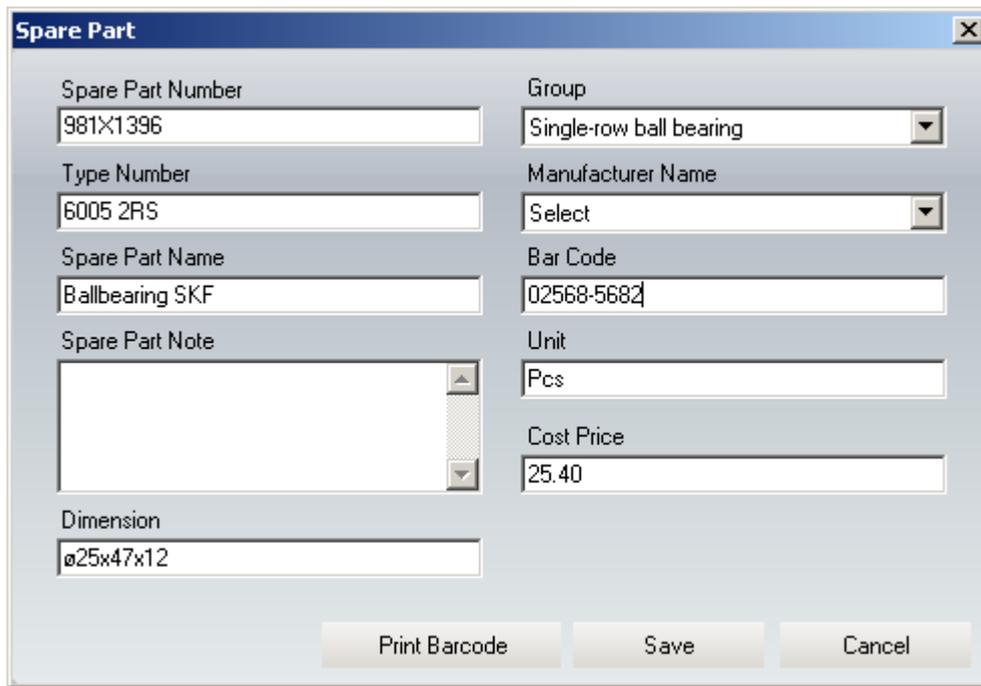
Note: Store, Inventory, Minimum on Stock and Quantity to Order are *required fields* for stock allocation. You cannot save a Stock if the *required fields* are empty. All other fields are optional.

2.3.3.3 Edit Spare Part

To edit a spare part, select the spare part you want to edit and do one of the following:

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.



The 'Spare Part' dialog box contains the following fields and options:

Field Name	Value
Spare Part Number	981X1396
Type Number	6005 2RS
Spare Part Name	Ballbearing SKF
Spare Part Note	
Dimension	ø25x47x12
Group	Single-row ball bearing
Manufacturer Name	Select
Bar Code	02568-5682
Unit	Pcs
Cost Price	25.40

Buttons at the bottom: Print Barcode, Save, Cancel

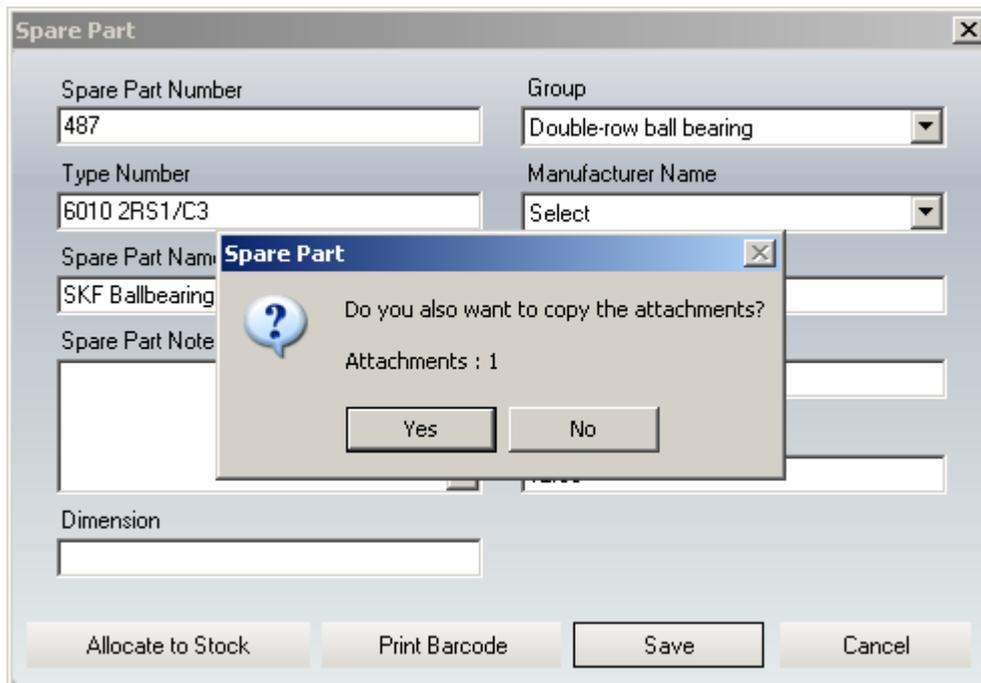
Change the details of the Spare Part that you want to change and click Save.

2.3.3.4 Copy Spare Part

To make it easier for you to create several spare parts of the same type. PM5 can copy an existing spare part. To do this do the following.

- 1) File -> Create copy...
- 2) Right click and choose "Create copy..."
- 3) ALT+F, C

After you have made the modifications to the spare part info and click save, if the task has existing attachments, you will be asked if you want to copy the attachments of spare parts from the original spare part.



The image shows a 'Spare Part' dialog box with the following fields: Spare Part Number (487), Group (Double-row ball bearing), Type Number (6010 2RS1/C3), Manufacturer Name (Select), Spare Part Name (SKF Ballbearing), Spare Part Note (empty), and Dimension (empty). At the bottom are buttons for 'Allocate to Stock', 'Print Barcode', 'Save', and 'Cancel'. A smaller dialog box is overlaid on top, asking 'Do you also want to copy the attachments?' with 'Attachments : 1' and 'Yes'/'No' buttons.

Note: You are required to change the Spare Part Number when making a copy of a Spare Part.

2.3.3.5 Delete Spare Part

There are a few scenarios that disable you from deleting a spare part. If the spare part has any associations (machines, tasks, etc.) and has or has no store location with positive stock, this would require you to have the Delete Spare Part Privilege. To learn about privileges, click [here](#).

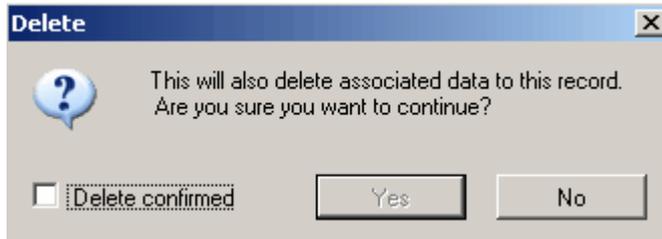
However, if the spare part has no current associations but with store locations with positive stocks, you will have to adjust the stock first before you can delete the spare part. An error message will appear if you attempted to delete the spare part with positive stock allocation.



Error message when deleting a Spare Part with positive Stock

To delete a spare part, select the spare part and do one of the following

- 1) CTRL+D
- 2) Right click and click "Delete"
- 3) File -> Delete



The reason why this extra step has been implemented is that this operation will delete all associations related to the spare part. Use this functionality with care!

To delete multiple spare parts in one operation you can select these by clicking one record, hold shift and then click the last record you want to delete. Then do the steps above.

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Spare Part Name	▲	Spare Part	Manufacturer	Type Number
Ballbearing SKF		981X1396		6005 2RS
Ballbearing SKF		981X1410		6007 2RS
Batterie Siemens PS S5-115U/H		984F9269		6 EW 1000-7AA
Battery for OP Manel		W79084-E1001-B2		5705150480546
BJ-Snekkegear		BJ-3282		1 xx 10100 1x0x 01
Bosch Magnetvent		0 820 006 103		B-445
Lamp		93652501		01-04-23-00

You can also hold CTRL and click the records you want to delete one at a time.

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Spare Part Name		Spare Part	Manufacturer	Type Number
Battery for OP Manel		W79084-E1001-B2		5705150480546
Saftyswitch. K.Moeller.		T0-2-8900/11/SVB		4015082071516
BJ-Snekkegear		BJ-3282		1 xx 10100 1x0x 01
Stuffing Box FM-0 pump		A-P07-ADY1-022...		A-P07-ADY1-022...
Aircylinder Festo		986U2061		ADVU-100-30-P-A
Aircylinder Festo		986U2060		DSNU-10-50-P-A
Aircylinder Festo		986U2058		DSNU-10-10-P-A
Batterie Siemens PS S5-115U/H		984F9269		6 EW 1000-7AA
No contact sencor Balluf		984F8511		BES 516-325-B0...
No contact sencor Balluf		984F8510		BES 516-356-B0...

Note: Deleted spare parts with associations are set to Inactive status only, while on the other hand deleted spare parts without associations gets deleted permanently.

2.3.3.6 Merge Spare Parts

The use of this functionality requires to have the Merge Spare Parts Privilege of the User Group where the user belongs to. To learn how to assign privileges to a User Group, click [here](#).

Merge of Spare Parts means to merge or combine one spare part with another together with its association to machines, tasks, stores and attachments. When two spare parts are merged, source spare part is set to inactive and all its machines, tasks, stores and attachments association will be combined with the associations of destination spare part. To understand better, take a look at the example below.

Using the demo database, we get the spare parts BJ-Snekkegear and Magnetvent Festo with spare part number 932L9363. Magnetvent Festo spare part is to be merged to BJ-Snekkegear spare part, which also means that Magnetvent Festo will be our source spare part and BJ-Snekkegear will be the destination spare part.

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Spare Part Name	△	Spare Part Number	Manufacturer Name	Type Number
Ballbearing SKF		981X1410		6007 2RS
Batterie Siemens PS S5-115U/H		984F9269		6 EW 1000-7AA
Battery for OP Manel		W79084-E1001-B2		5705150480546
BJ-Snekkegear		BJ-3282		1 xx 10100 1x0x 01
Bosch Magnetvent		0 820 006 103		B-445
Lamp		93652501		01-04-23-00
Magnetvent Festo		932L9327		MFH-5/2-D-1/C
Magnetvent Festo		932L9328		MFH-5-1/8-B-VI-X
Magnetvent Festo		932L9329		MFH-5/3-GB-VI
Magnetvent Festo		932L9363		MFH-5-1/4-S
No contact sensor Balluf		92326601		BES 516-371-G-S-49-C

Take note that Magnetvent Festo has existing machine associations while BJ-Snekkegear do not have. To merge the spare parts, right click on the source spare part and click Merge/Replace Spare Parts.

ation +

- PM5
- Extra
- Mounting
- Outdoors
- Rewinder

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Spare Part Name	Spare Part	Manufacturer	Type Number	
Ballbearing SKF	981X1396		6005 2RS	
Ballbearing SKF	981X1410		6007 2RS	
Batterie Siemens ...	984F9269		6 EW 1000-7AA	
Battery for OP M...	W79084-E1001-B2		5705150480546	
BJ-Snekkegear	BJ-3282		1 xx 10100 1x0x 01	
Bosch Magnetvent	0 820 006 103		B-445	
Lamp	93652501		01-04-23-00	
Magnetvent Festo	932L9327		MFH-5/2-D-1/C	
Magnetvent Festo	932L9328		MFH-5-1/8-B-VI-X	
Magnetvent Festo	932L9329		MFH-5/3-GB-VI	
Magnetvent Festo	932L9363		MFH-5/3-GB-VI	
No contact senc...	92326601			
no contact senco...	92326602			
No contact senc...	984F8510			

Page 1 showing 1 to 20 of total 29

Details	Machines	Consump	Active
Number	Name		
905545	Leaksearch c		<input checked="" type="checkbox"/>
905542	Fillupstand		<input checked="" type="checkbox"/>
905543	Edge and tigt		<input checked="" type="checkbox"/>
905543.01	Edge and tigt		<input checked="" type="checkbox"/>
905543.02	Edge and tigt		<input checked="" type="checkbox"/>
905543.03	Edge and tigt		<input checked="" type="checkbox"/>
905539	Leaksearch Balic...	Leaksearchstatio...	Mounting <input checked="" type="checkbox"/>
903982	Rewinder	mountinnautomat	Rewinder <input checked="" type="checkbox"/>

Menu options:

- New...
- Create Copy...
- Edit...
- Delete
- Merge / Replace Spare Parts...
- Search... Ctrl+Q
- Add to Filter
- Help...
- Properties...
- Print Barcode...
- Show All Columns
- Hide All Columns
- Reset Columns

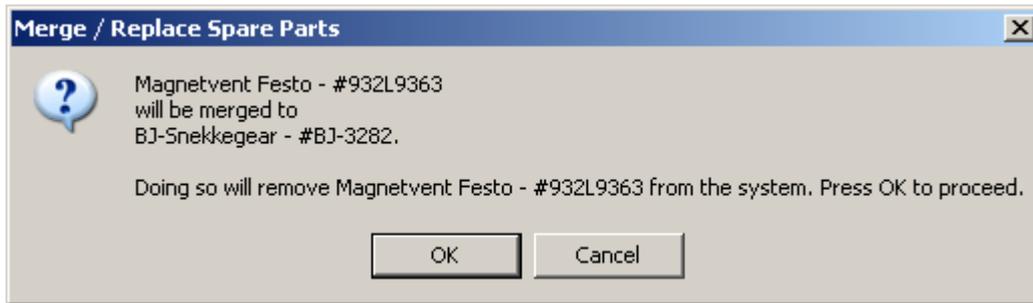
After clicking from the menu, the Merge/Replace Spare Part form will appear.

Spare Part Name	Spare Part No	Type No	Dimension	Bar Code
Aircylinder Festo	986U2058	DSNU-10-10-P-A		
Aircylinder Festo	986U2060	DSNU-10-50-P-A		
Aircylinder Festo	986U2061	ADVU-100-30-P-A		
Aircylinder Festo	93131023	ADVU-12-20-A-P-A		
Aircylinder Festo	93131024	ADVUL-12-20-P-A		
Ballbearing SKF	981X1396	6005 2RS	ø25x47x12	
Ballbearing SKF	981X1410	6007 2RS	ø35x62x14	
Batterie Siemens ...	984F9269	6 EW 1000-7AA	ø25x50	
Battery for OP M...	W79084-E1001-B2	5705150480546		
BJ-Snekkegear	BJ-3282	1 xx 10100 1x0x 01		
Bosch Magnetvent	0 820 006 103	B-445	x18	6566343833769

Select the destination spare part in the list, which in our case is the BJ-Snekkegear. You can use the filter in the form for easy searching.

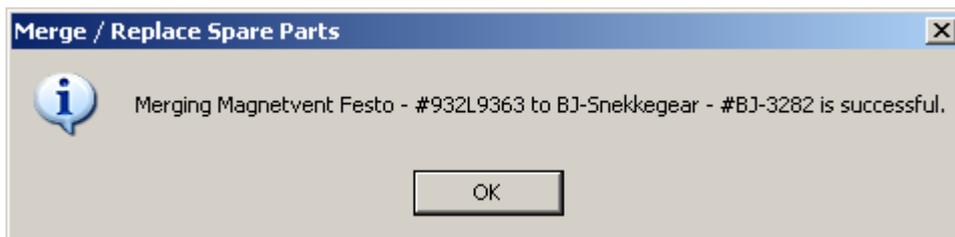
Spare Part Name	Spare Part No	Type No	Dimension	Bar Code
BJ-Snekkegear	BJ-3282	1 xx 10100 1x0x 01		

Upon selecting the destination spare part, click on the [Merge to] button at the left side of the form then click OK in the confirmation message.



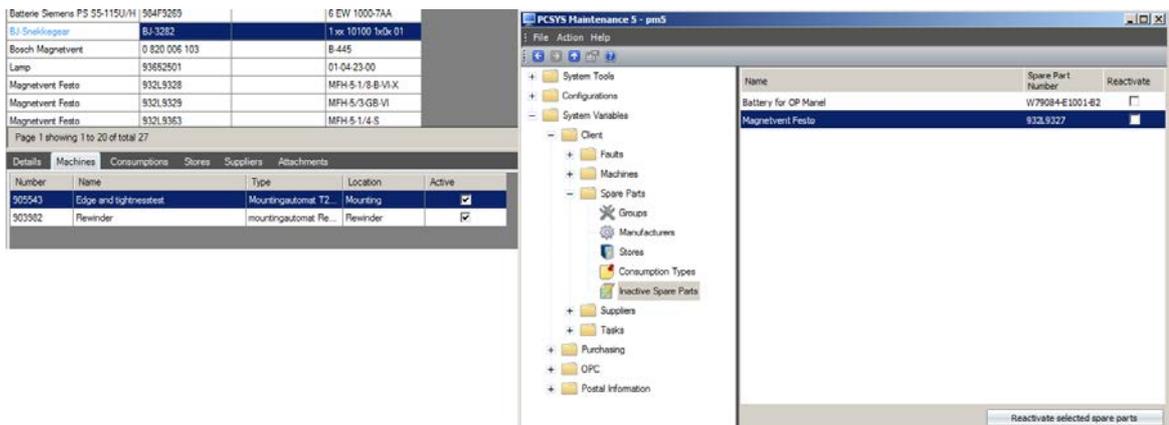
Confirmation message before merging the spare parts

A message box will appear if the Merging is successful.



Information message when Merging of Spare Part is successful

Going back to our example, after the merging, Magnetvent Festo should be set to Inactive and all its machines, tasks, stores and attachments associations should be merged to BJ-Snekkegear's associations.



Spare Part BJ-Snekkegear showing the merged Machine associations from Magnetvent Festo and Magnetvent Festo as an Inactive Spare Part

2.3.3.7 Replace Spare Parts

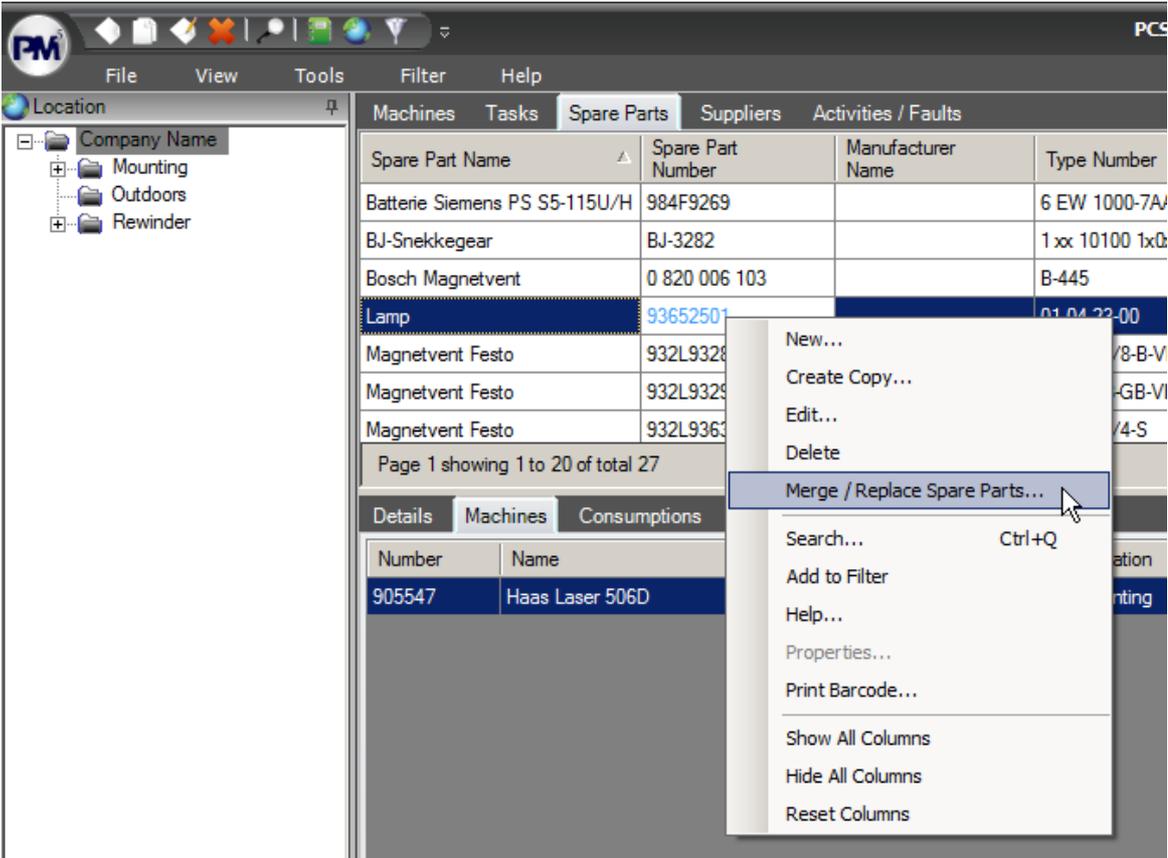
The use of this functionality requires to have the Replace Spare Parts Privilege of the User Group where the user belongs to. To learn how to assign privileges to a User Group, click [here](#).

Replace of Spare Parts means replacement of one spare part to another with all its associations (Machines, Tasks and Activities/Faults). To understand better, take a look at the example below.

Using the demo database, we get the spare parts Bosch Magnetvent and Lamp. Lamp spare part is to be replaced by Bosch Magnetvent spare part, which also means that Lamp will be our source spare part and Bosch Magnetvent will be the destination spare part.

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Spare Part Name	▲	Spare Part	Manufacturer	Type Number
Ballbearing SKF		981X1396		6005 2RS
Ballbearing SKF		981X1410		6007 2RS
Batterie Siemens PS S5-115U/H		984F9269		6 EW 1000-7AA
Battery for OP Manel		W79084-E1001-B2		5705150480546
BJ-Snekkegear		BJ-3282		1 xx 10100 1x0x 01
Bosch Magnetvent		0 820 006 103		B-445
Lamp		93652501		01-04-23-00
Magnetvent Festo		932L9327		MFH-5/2-D-1/C
Magnetvent Festo		932L9328		MFH-5-1/8-B-VI-X
Magnetvent Festo		932L9329		MFH-5/3-GB-VI

Take note that Lamp has existing machine associations while Bosch Magnetvent do not have. To merge the spare parts, right click on the source spare part and click Merge/Replace Spare Parts.



After clicking from the menu, the Merge/Replace Spare Part form will appear.

Merge / Replace Spare Parts

Spare Part Name: Magnetvent Festo
 Spare Part No: 932L9363
 Type No: MFH-5-1/4-5
 Dimension: R 1/4"
 Bar Code:
 Group: Magnetic valve, pneumatic
 Manufacturer:

Spare Part Name: Spare Part No: Type No:
 Dimension: Bar Code: Search

Drag a column here to group with that column.

Spare Part Name	Spare Part No	Type No	Dimension	Bar Code
Aircylinder Festo	986U2058	DSNU-10-10-P-A		
Aircylinder Festo	986U2060	DSNU-10-50-P-A		
Aircylinder Festo	986U2061	ADVU-100-30-P-A		
Aircylinder Festo	93131023	ADVU-12-20-A-P-A		
Aircylinder Festo	93131024	ADVUL-12-20-P-A		
Ballbearing SKF	981X1396	6005 2RS	ø25x47x12	
Ballbearing SKF	981X1410	6007 2RS	ø35x62x14	
Batterie Siemens ...	984F9269	6 EW 1000-7AA	ø25x50	
Battery for OP M...	W79084-E1001-B2	5705150480546		
BJ-Snekkegear	BJ-3282	1 xx 10100 1x0x 01		
Bosch Magnetvent	0 820 006 103	B-445	x18	6566343833769

Merge to... >>
 << Replace with... Cancel

Select the destination spare part in the list, which in our case is the Bosch Magnetvent. You can use the filter in the form for easy searching.

Merge / Replace Spare Parts

Spare Part Name: Lamp
 Spare Part No: 93652501
 Type No: 01-04-23-00
 Dimension:
 Bar Code:
 Group: Cryptonlamps
 Manufacturer:

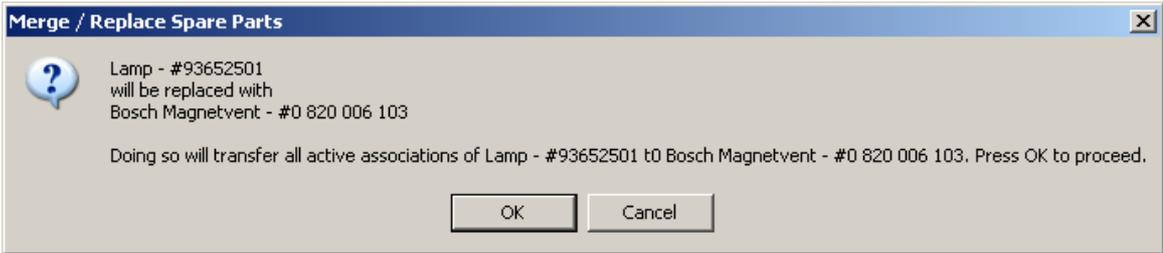
Spare Part Name: Spare Part No: Type No:
 Dimension: Bar Code: Search

Drag a column here to group with that column.

Spare Part Name	Spare Part No	Type No	Dimension	Bar Code
Bosch Magnetvent	0 820 006 103	B-445	x18	6566343833769

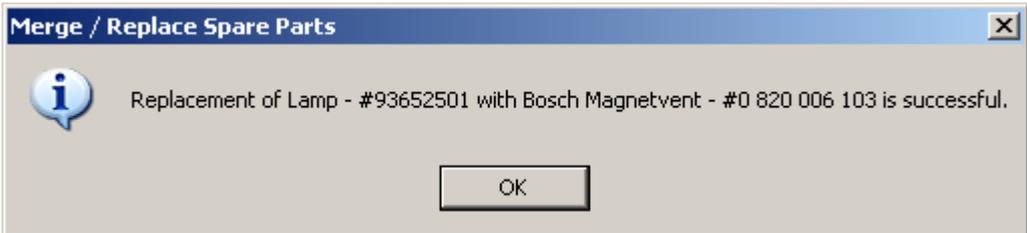
Merge to... >>
 << Replace with... Cancel

Upon selecting the destination spare part, click on the [Replace with] button at the left side of the form then click OK in the confirmation message.



Confirmation message before replacing the spare parts

A message box will appear if the Merging is successful.



Information message when Replacing of Spare Part is successful

Going back to our example, after the replacement has taken place, Lamp's associations to machines, tasks and activities/faults should be transferred to Bosch Magnetvent.

Machines Tasks Spare Parts Suppliers Activities / Faults				
Spare Part Name	Spare Part	Manufacturer	Type Number	
Ballbearing SKF	981X1396		6005 2RS	
Ballbearing SKF	981X1410		6007 2RS	
Batterie Siemens PS S5-115U/H	984F9269		6 EW 1000-7AA	
Battery for OP Manel	W79084-E1001-B2		5705150480546	
BJ-Snekegear	BJ-3282		1 xx 10100 1x0x 01	
Bosch Magnetvent	0 820 006 103		B-445	
Lamp	93652501		01-04-23-00	
Magnetvent Festo	932L9327		MFH-5/2-D-1/C	
Magnetvent Festo	932L9328		MFH-5-1/8-B-VI-X	
Magnetvent Festo	932L9329		MFH-5/3-GB-VI	

Page 1 showing 1 to 20 of total 28

Details Machines Consumptions Stores Suppliers Attachments				
Number	Name	Type	Location	Active
905547	Haas Laser 506D	Laser Yag 936525	Mounting	<input checked="" type="checkbox"/>

Lamp's machine association was transferred to Bosch Magnetvent after the replacement

Note: Replacing of spare parts can only be done at locations that are accessible to the user.

2.3.3.8 Search for a Spare Part

To search for a Spare Part you need to know one of the following about the Spare Part you are looking for: Spare Part Number, Spare Part Name, Dimension, Type Number or Bar Code.

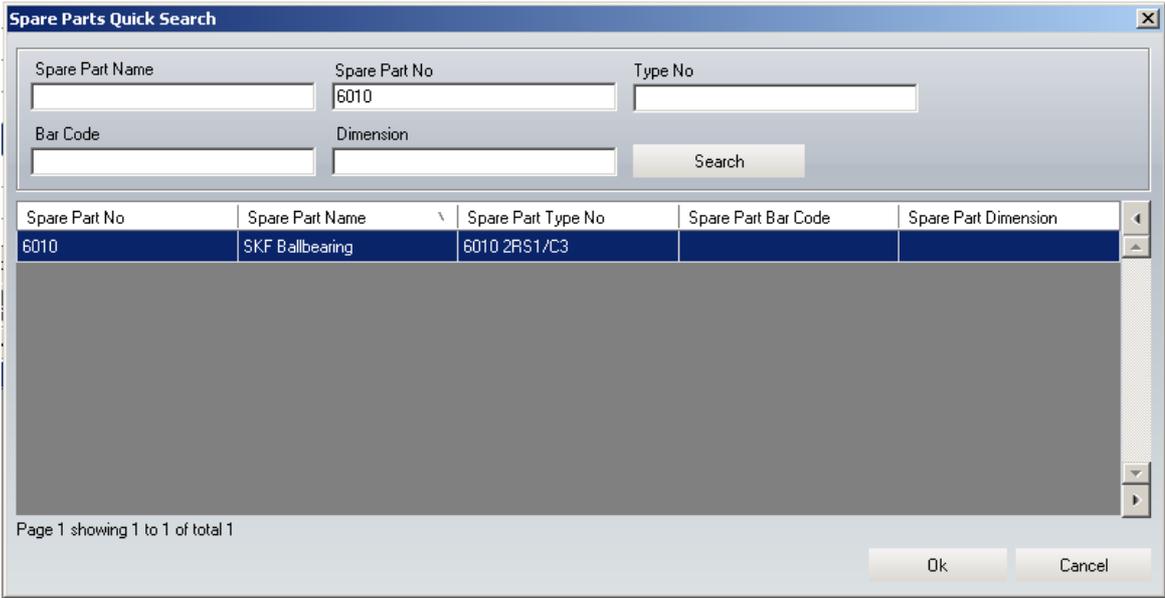
To search for a task do one of the following:

- 1) File -> Search
- 2) Right click and click "Search"
- 3) CTRL + Q

Then you will get this form

Spare Part No	Spare Part Name	Spare Part Type No	Spare Part Bar Code	Spare Part Dimension
---------------	-----------------	--------------------	---------------------	----------------------

Enter the value for any of the following: Spare Part Number, Spare Part Name, Dimension, Type Number or Bar Code and click Search.



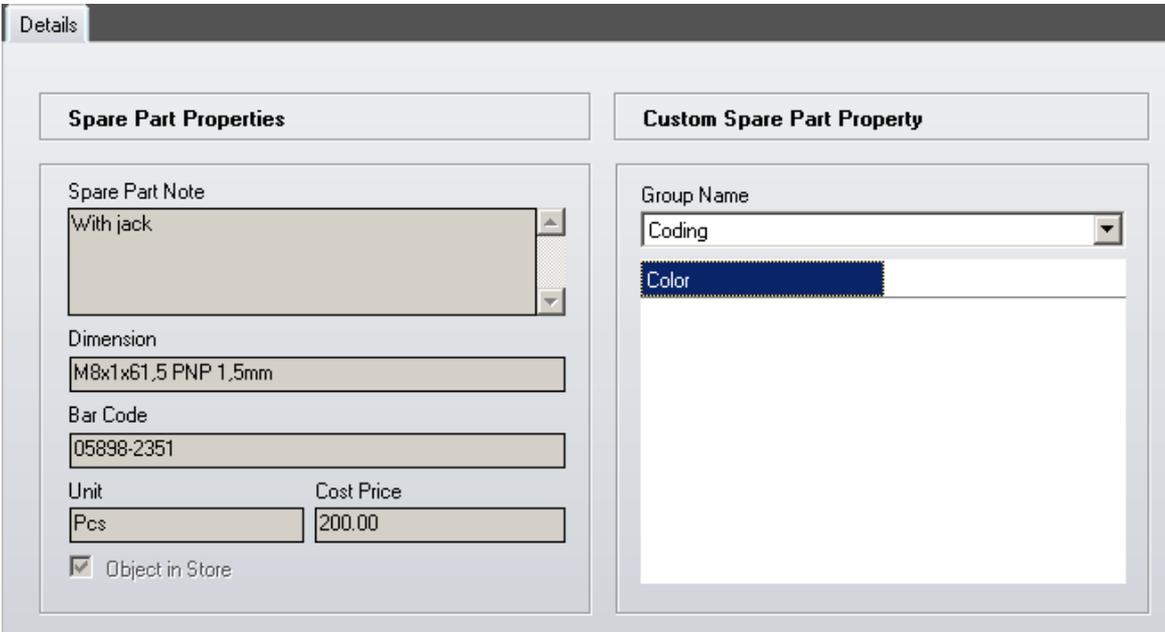
You will see the search results in the results grid. Click OK to return to the spare parts tab. You will be taken back to the Spare Parts Tab where the search result you selected is highlighted.

2.3.3.9 Spare Parts Sub Tab

The seven sub tabs of spare part are discussed in this section.

2.3.3.9.1 Details Sub Tab

The Details Sub Tab shows you the Spare Part Note, Dimension, Bar Code, Unit, Cost Price and the Custom Field Group used by the Spare Part.



The Details Sub Tab of Spare Part

Note: A created spare part is automatically specified to be Object in Store.

You can find instructions on how to create Custom Field Groups by reading [Custom Field Groups](#).

2.3.3.9.2 Machines Sub Tab

In the Machines Sub Tab of the Spare Parts Tab, you can associate Machines to Spare Parts. Associating a Machine to a Spare Part allows you to keep track of which Machines use which Spare Parts.

Number	Name	Type	Location	Active
905545	Leaksearch overpat	Leaksearchstatio...	Mounting	<input checked="" type="checkbox"/>
905542	Fillupstand	Fillingstand Uni 9...	Mounting	<input checked="" type="checkbox"/>
905543	Edge and tightnes...	Mountingautomat...	Mounting	<input checked="" type="checkbox"/>
905543.01	Edge and tightnes...	Mountingautomat...	01	<input checked="" type="checkbox"/>
905543.02	Edge and tightnes...	Mountingautomat...	02	<input checked="" type="checkbox"/>
905543.03	Edge and tightnes...	Mountingautomat...	03	<input checked="" type="checkbox"/>
905539	Leaksearch Ballclo...	Leaksearchstatio...	Mounting	<input checked="" type="checkbox"/>
903982	Rewinder	mountingautomat...	Rewinder	<input checked="" type="checkbox"/>
905544	Fillupstand	Fillingstand Uni 9...	00	<input checked="" type="checkbox"/>
905546	Fillupstand	Fillingstand Uni 9...	Mounting	<input checked="" type="checkbox"/>

Associate Machine Edit Association Remove Association Go To Machine

The Machines Sub Tab of Spare Parts

It is important to know that the Machines you will see in the Associate Machine Window depend on the Location selected in the Location Pane. If you select the root location you will see all the Machines. However, if you select a specific Location, you will see only the Machines that are available in that Location.

The screenshot shows the 'Associate Machine' window. On the left is a 'Location' pane with a tree view under 'PM5'. The tree includes 'Mounting' (with sub-items 00, 01, 02, 03), 'Outdoors', 'Rewinder', 'Control', 'Feeding', 'Finisher', 'Straightening rolls', and 'Cutting'. The 'Mounting' folder is expanded, and the '02' sub-item is selected. On the right, the 'Associate Machine' form displays 'Spare Part No' as 932L9363 and 'Spare Part Name' as Magnetvent Festo. Below this is a 'Filters' section with 'Machine No' and 'Machine Name' input fields, and 'Apply Filter' and 'Clear Filter' buttons. A table below the filters shows a list of machines, with '903982.02' and 'Rewinder, cut' selected. At the bottom, there are 'Quantity' and 'Note' input fields, and 'Save' and 'Close' buttons.

The relationship of the Location pane to the list of machines in the Associate Machine form of Spare

Parts

To associate multiple machines in one operation you can select these by clicking one record, hold shift and then click the last record you want to associate. Enter the Quantity then click Save.

Machine No	Machine Name
905539.00	Leaksearch Ballclosing - contr
905542.00	Fillupstand, control
9055423	Fillupstand
905543.00	Edge and tightnesstest
905545.00	Leaksearch overpart, control
905547	Haas Laser 506D
905547.00	Haas Laser 506D, control

You can also hold CTRL and click the records you want to associate one at a time.

Associate Machine

Spare Part No: 932L9363 Spare Part Name: Magnetvent Festo

Filters

Machine No: Machine Name:

Apply Filter Clear Filter

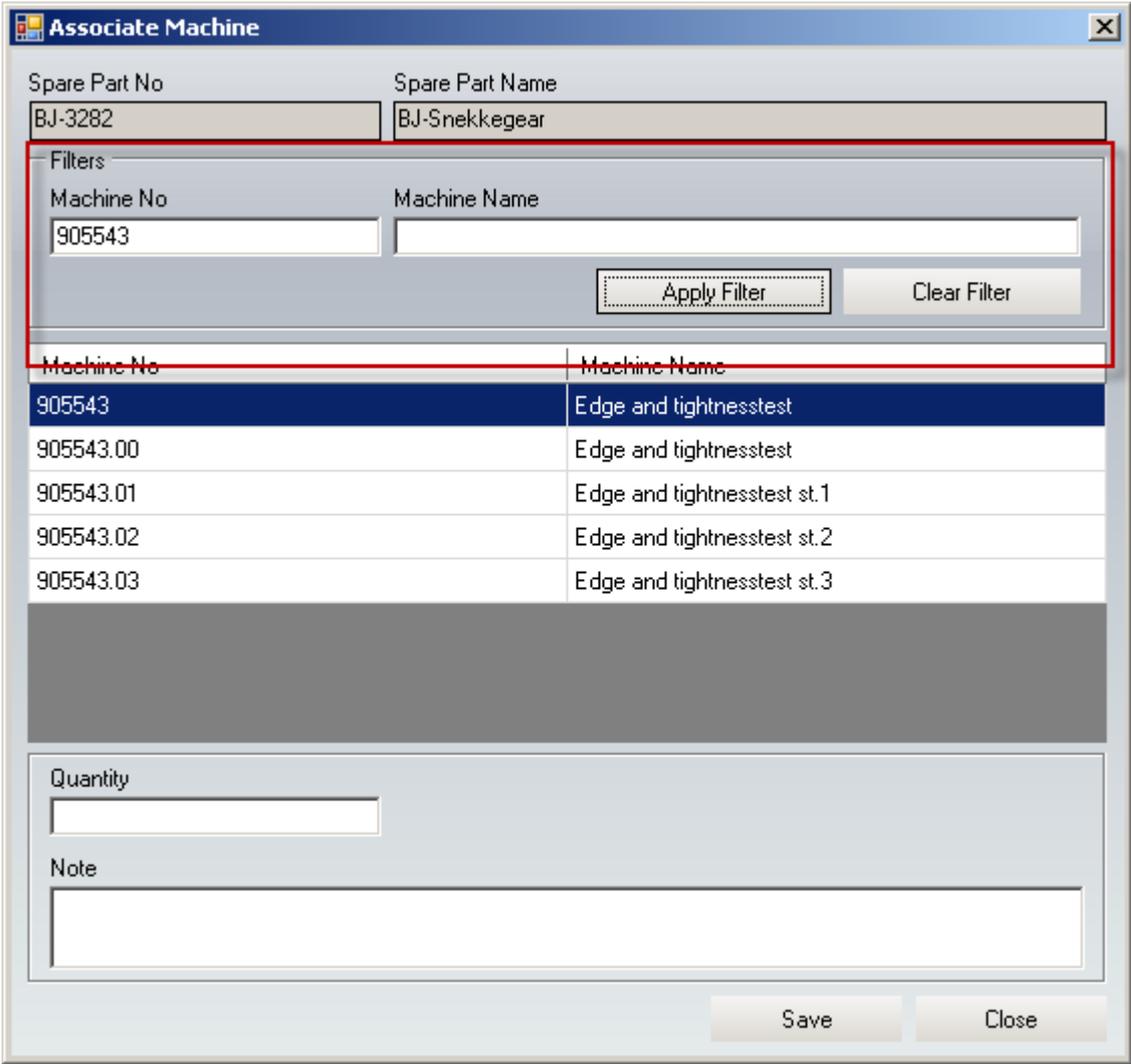
Machine No	Machine Name
905539.00	Leaksearch Ballclosing - contr
905542.00	Fillupstand, control
9055423	Fillupstand
905543.00	Edge and tightnesstest
905545.00	Leaksearch overpart, control
905547	Haas Laser 506D
905547.00	Haas Laser 506D, control

Quantity:

Note:

Save Close

You can also associate specific machines to the task by using the Filters in the Associate Machine form.



2.3.3.9.3 Consumptions - Activities Sub Tab

The Consumptions - Activities Sub Tab shows the Spare Parts that have been consumed and are scheduled to be consumed by Activities. Spare Parts that have not yet been consumed but are scheduled to be consumed appear in blue text with a gray background. Here, you can jump directly to the Task, Machine or Activity that consumed or is scheduled to consume the selected Spare Part by clicking the appropriate Go To Button.

Consumptions

Task Name	Machine Number	Machine Name	Date of Consumption	Consumption Type	Quantity	Note
12 months batterychange CPU101U/R,115U/H/FCPU516	905539	Leaksearch Ballclosing	8/16/2007 9:00 AM		1	
12 months batterychange CPU101U/R,115U/H/FCPU516	905542	Fillupstand	8/16/2007 9:00 AM		1	
12 months batterychange CPU101U/R,115U/H/FCPU516	903982	Rewinder	8/16/2007 9:00 AM		1	
12 months batterychange CPU101U/R,115U/H/FCPU516	905543	Edge and tightnesstest	8/16/2007 9:00 AM		1	
12 months batterychange CPU101U/R,115U/H/FCPU516	905545	Leaksearch overpart	8/16/2007 9:00 AM		1	
12 months batterychange CPU101U/R,115U/H/FCPU516	905543	Edge and tightnesstest	8/10/2008 9:00 AM	Default	0	
12 months batterychange CPU101U/R,115U/H/FCPU516	903982	Rewinder	11/18/2009 8:00 AM	Default	0	
12 months batterychange CPU101U/R,115U/H/FCPU516	903983	Rewinder	11/18/2009 8:00 AM	Default	0	
12 months batterychange CPU101U/R,115U/H/FCPU516	905539	Leaksearch Ballclosing	11/19/2009	Default	0	
12 months batterychange CPU101U/R,115U/H/FCPU516	903982	Rewinder	11/19/2009	Default	1	

[Go To Task] [Go To Machine] [Go To Activity]

The Consumptions - Activities Sub Tab of Spare Part

2.3.3.9.4 Consumptions - Faults Sub Tab

The Consumptions - Faults Sub Tab shows the Spare Parts that have been consumed by Faults. Here, you can jump directly to the Machine or Fault that consumed the selected Spare Part by clicking the appropriate Go To Button.

Consumptions							
Faults							
Machine Number	Machine Name	Cause of Fault	Fault Type	Date of Consumption	Consumption Type	Quantity	Note
905543	Edge and tightnesstest	B21.0	Palette hangs after precipitator on HB	3/20/2004 9:00 AM	Default	1	
903982	Rewinder	B01.0	Emission error	12/2/2003 8:00 AM	Default	1	

Go To Machine Go To Fault

The Consumptions - Faults Sub Tab of Spare Parts

2.3.3.9.5 Stores Sub Tab

The Stores Sub Tab shows all the Stores in which the Spare Part is available. Here you can allocate a spare part to a store [Allocate to Stock], edit the allocation [Edit Allocation] and remove the allocation [Remove Allocation].

The columns I, II and III represent the Area, Section and Position of the Store defined in the Administration Tool. These will appear when you Allocate or Edit the Allocation of a Spare Part.

Stores							
Store	I	II	III	Stock	Quantity To Order	Minimum on Stock	Preferred Store
Shop	Shelf 1	Section 2	Shelf 3	3	3	2	<input type="checkbox"/>
Satellitestock dept. 2	Shelf 2	Drawer 4	Field 5	22	5	5	<input checked="" type="checkbox"/>
Drawerstock	Drawer 3	Shelf 2	Room 6	4	5	1	<input type="checkbox"/>

Allocate to Stock Edit Allocation Remove Allocation

The Stores Sub Tab of Spare Part

[Allocate to Stock] - put a spare part into a *new* location in stock.

[Edit Allocation] - edit the quantity on a *previously used* location. This way you can increase your stock when new deliveries arrive.

[Remove Allocation] - remove the allocation of stock.

It is important to note that when allocating a spare part to a stock, the list of Stores is filtered by Locations accessible to the user. To learn more about assigning stores to locations, click [here](#).

2.3.3.9.6 Suppliers Sub Tab

The Suppliers Sub Tab shows the Suppliers associated to a Spare Part. Here, you can associate a Supplier [Associate Supplier], edit its association [Edit Association] or remove its association [Remove Association]. You can also view the selected Supplier in the Suppliers Tab [Go To Supplier].

Number	Name	Product Number	Price	Note	Preferred Supplier
185930	Festo	3982011-1	335.00	8 dages levering	<input type="checkbox"/>
337836	Bent Nygaard	4464848	425.00	God ven af huset	<input checked="" type="checkbox"/>
188853	J.W.Froehlich	335337338	315.00	Billigt	<input type="checkbox"/>
193321	Bosch	820006103	557.00	Dag/dag levering	<input type="checkbox"/>
76962600	Solar	446838276	350.00	Ny lev.	<input type="checkbox"/>

Buttons: Associate Supplier, Edit Association, Remove Association, Go To Supplier

The Suppliers Sub Tab of Spare Part

You can learn more about Suppliers by reading [Suppliers](#).

2.3.3.9.7 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected Spare Part.

Note	File Name	Path	View
Stoptidsregistrering, MTBF, MITTR 2004	vmware_logo.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	

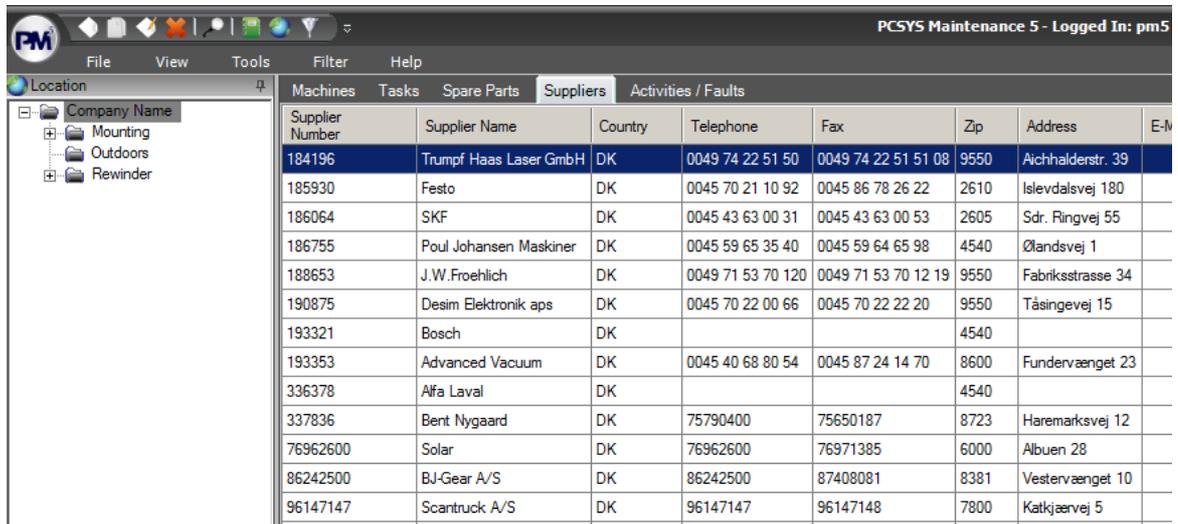
Buttons: Add Attachment, Delete Attachment

The Attachments Sub Tab of Tasks

You can learn more about Attachments in [Attachments](#).

2.3.4 Suppliers

This pane shows all the suppliers available in the system. These suppliers can be assigned to spare parts and will then be used when ordering to specify spare part number, pricing etc.



Supplier Number	Supplier Name	Country	Telephone	Fax	Zip	Address	E-Mail
184196	Trumpf Haas Laser GmbH	DK	0049 74 22 51 50	0049 74 22 51 51 08	9550	Aichhalderstr. 39	
185930	Festo	DK	0045 70 21 10 92	0045 86 78 26 22	2610	Islevdalsvej 180	
186064	SKF	DK	0045 43 63 00 31	0045 43 63 00 53	2605	Sdr. Ringvej 55	
186755	Poul Johansen Maskiner	DK	0045 59 65 35 40	0045 59 64 65 98	4540	Ølandsvej 1	
188653	J.W.Froehlich	DK	0049 71 53 70 120	0049 71 53 70 12 19	9550	Fabriksstrasse 34	
190875	Desim Elektronik aps	DK	0045 70 22 00 66	0045 70 22 22 20	9550	Tåsingvej 15	
193321	Bosch	DK			4540		
193353	Advanced Vacuum	DK	0045 40 68 80 54	0045 87 24 14 70	8600	Fundervænget 23	
336378	Alfa Laval	DK			4540		
337836	Bent Nygaard	DK	75790400	75650187	8723	Haremarksvej 12	
76962600	Solar	DK	76962600	76971385	6000	Albuen 28	
86242500	BJ-Gear A/S	DK	86242500	87408081	8381	Vestervænget 10	
96147147	Scantruck A/S	DK	96147147	96147148	7800	Katkjærvej 5	

In PM5, a Supplier is the source of a Machine.

When you create a Supplier, you can also specify its contact information. If contact information for a Supplier is defined, you can use PM5 as an electronic phone and address book.

The Suppliers Tab has four sub tabs: Details, Machines, Spare Parts and Attachments. You can find more information about each sub tab by reading the Suppliers Sub Tab section.

2.3.4.1 Supplier Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Country, Zip Code and Phone Types fields. If you want to add, edit or delete values in Country, Zip Code and Phone Types, please click on their underlined names in the image.

The screenshot shows a 'Supplier' form with the following fields and sections:

- Supplier Number:** Text input field.
- Country:** Dropdown menu with 'DK' selected.
- Supplier Name:** Text input field.
- Address:** Text input field.
- Zip Code:** Text input field.
- City:** Dropdown menu with 'Select' selected.
- Telephone:** Text input field.
- Fax:** Text input field.
- E-Mail:** Text input field.
- Note:** Text area.
- Telephone Numbers:** Table with columns 'Phone Types' and 'Number'. The first row contains a '*' in the 'Phone Types' column.
- Contacts:** Table with columns 'Name' and 'Phone'. The first row contains a '*' in the 'Name' column.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

Supplier Number - the unique identifier for a supplier, hence one of the *required* fields to fill out to be able to save a supplier.

Country - the country of the supplier.

Supplier Name - the name of the supplier.

Address - place of business where it can be contacted.

Zip Code - the postal code of the supplier. This can be set automatically by selecting the City.

City - the city where the supplier resides.

Telephone - the phone number of the supplier.

Fax - the fax number of the supplier.

Note - in this field you can note down other information regarding the supplier.

Telephone Numbers - in this field, you can specify other contact details of the supplier.

Contacts - in this field, you can specify the contact persons of the supplier.

2.3.4.2 Create Supplier

To create a supplier you can do one of three things:

- 1) File -> New...
- 2) CTRL + N
- 3) Right click the grid and select "New..."

Then you will get this form.

Supplier

Supplier Number Country

Supplier Name

Address

Zip Code City

Telephone Fax

E-Mail

Note

Telephone Numbers

	Phone Type	Number
*	<input type="text"/>	<input type="text"/>

Contacts

	Name	Phone
*	<input type="text"/>	<input type="text"/>

Save Cancel

- 1) Enter the supplier number.
- 2) Select the country of the supplier.
- 3) Enter the supplier name.
- 4) Enter the contact information of the supplier.
- 5) Provide a describing text for the supplier.
- 6) Enter other details for the supplier.
- 7) Click save.

Note: Supplier Number and Supplier Name are *required fields*. You cannot save a Supplier if the *required fields* are empty.

2.3.4.3 Edit Supplier

To edit a supplier, select the supplier you want to edit and do one of the following:

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.

Supplier Number	Country
184196	DK

Supplier Name: Trumpf Haas Laser GmbH

Address: Aichhalderstr. 39

Zip Code	City
9550	Mariager

Telephone	Fax
0049 74 22 51 50	0049 74 22 51 51 08

E-Mail:

Note:

Telephone Numbers	
Phone Type	Number
*	

Contacts	
Name	Phone
▶ Hr. Haas	
*	

Buttons: Save, Cancel

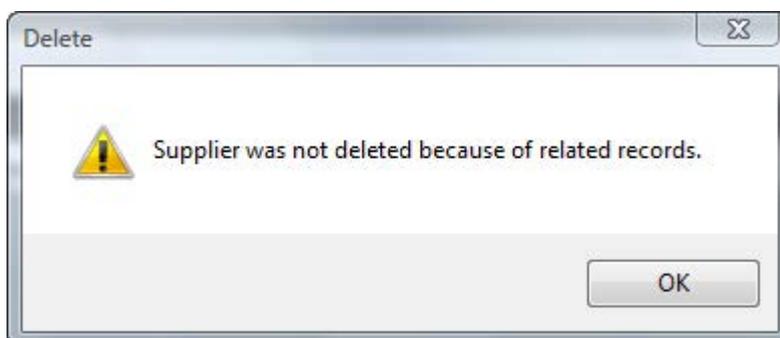
Change the details of the Supplier that you want to change and click Save.

2.3.4.4 Delete Supplier

To delete a supplier, select the supplier and do one of the following

- 1) CTRL+D
- 2) Right click and click "Delete"
- 3) File -> Delete

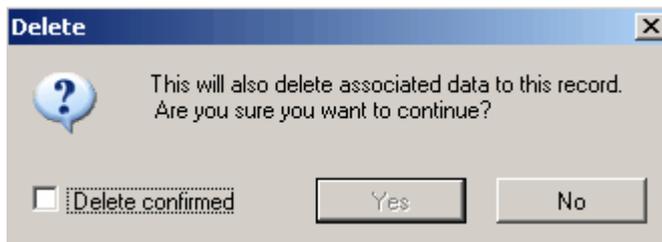
Supplier was not deleted because of related records



There are a few scenarios that disable you from deleting a supplier. If you have any associated

machines, you will have to remove these manually before you can delete the supplier.

If the supplier does not have any machine associations, you will be asked if you want to continue this operation. Mark the check box and click Yes.



The reason why this extra step has been implemented is that this operation will delete its association to a spare part. Use this functionality with care!

To delete multiple suppliers in one operation you can select these by clicking one record, hold shift and then click the last record you want to delete. Then do the steps above.

Supplier Number	Supplier Name	Country	Telephone	Fax	Zip	Address	E-Mail
184196	Trumpf Haas Las...	DK	0049 74 22 51 50	0049 74 22 51 5...	9550	Aichhalderstr. 39	haas.123@geon...
185930	Festo	DK	0045 70 21 10 92	0045 86 78 26 22	2610	Islevdalsvej 180	
186064	SKF	DK	0045 43 63 00 31	0045 43 63 00 53	2605	Sdr. Ringvej 55	
186755	Poul Johansen M...	DK	0045 59 65 35 40	0045 59 64 65 98	4540	Ølandsvej 1	
188653	J.W.Froehlich	DK	0049 71 53 70 120	0049 71 53 70 1...	9550	Fabriksstrasse 34	
190875	Desim Elektronik ...	DK	0045 70 22 00 66	0045 70 22 22 20	9550	Tåsingevej 15	
193321	Bosch	DK			4540		
193353	Advanced Vacuum	DK	0045 40 68 80 54	0045 87 24 14 70	8600	Fundervænget 23	
336378	Alfa Laval	DK			4540		
337836	Bent Nygaard	DK	75790400	75650187	8723	Haremarksvej 12	
76962600	Solar	DK	76962600	76971385	6000	Albuen 28	
86242500	BJ-Gear A/S	DK	86242500	87408081	8381	Vestervænget 10	
96147147	Scantruck A/S	DK	96147147	96147148	7800	Katkjærvej 5	
intern	Intern	DK			4540		

Page 1 showing 1 to 14 of total 14

You can also hold CTRL and click the records you want to delete one at a time.

Supplier Number	Supplier Name	Country	Telephone	Fax	Zip	Address	E-Mail
184196	Trumpf Haas Las...	DK	0049 74 22 51 50	0049 74 22 51 5...	9550	Aichhalderstr. 39	haas.123@geon...
185930	Festo	DK	0045 70 21 10 92	0045 86 78 26 22	2610	Islevdalsvej 180	
186064	SKF	DK	0045 43 63 00 31	0045 43 63 00 53	2605	Sdr. Ringvej 55	
186755	Poul Johansen M...	DK	0045 59 65 35 40	0045 59 64 65 98	4540	Ølandsvej 1	
188653	J.W.Froehlich	DK	0049 71 53 70 120	0049 71 53 70 1...	9550	Fabriksstrasse 34	
190875	Desim Elektronik ...	DK	0045 70 22 00 66	0045 70 22 22 20	9550	Tåsingevej 15	
193321	Bosch	DK			4540		
193353	Advanced Vacuum	DK	0045 40 68 80 54	0045 87 24 14 70	8600	Fundervænget 23	
336378	Alfa Laval	DK			4540		
337836	Bent Nygaard	DK	75790400	75650187	8723	Haremarksvej 12	
76962600	Solar	DK	76962600	76971385	6000	Albuen 28	
86242500	BJ-Gear A/S	DK	86242500	87408081	8381	Vestervænget 10	
96147147	Scantruck A/S	DK	96147147	96147148	7800	Katkjærvej 5	
intern	Intern	DK			4540		

Page 1 showing 1 to 14 of total 14

2.3.4.5 Search for a Supplier

To perform a search, you need to know one of the following about the Supplier you are looking for: Supplier Number or Supplier Name.

To search for a task do one of the following:

- 1) File -> Search
- 2) Right click and click "Search"
- 3) CTRL + Q

Then you will get this form

Supplier Quick Search

Supplier No:

Supplier Name:

Search

Number	Name
No records match your criteria.	

Ok Cancel

Enter the value for any of the following: Supplier Number or Supplier Name and click Search.

Supplier No	Supplier Name
20091119-004	

Number	Name
20091119-004	SUP-004

Page 1 showing 1 to 1 of total 1

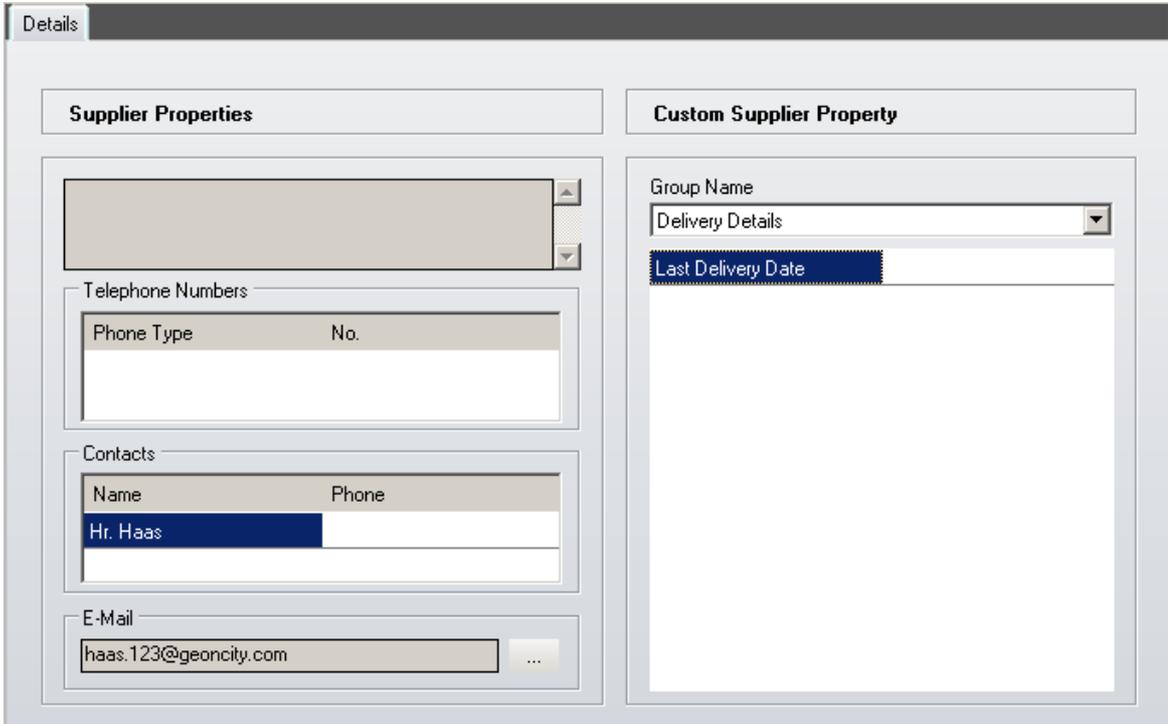
You will see the search results in the results grid. Click OK to return to the suppliers tab. You will be taken back to the Suppliers Tab where the search result you selected is highlighted.

2.3.4.6 Supplier Sub Tabs

The four sub tabs of supplier are discussed in this section.

2.3.4.6.1 Details Sub Tab

The Details Sub Tab shows you the Supplier Note, Telephone Numbers, Contacts, Email and the Custom Field Group used by the Supplier.

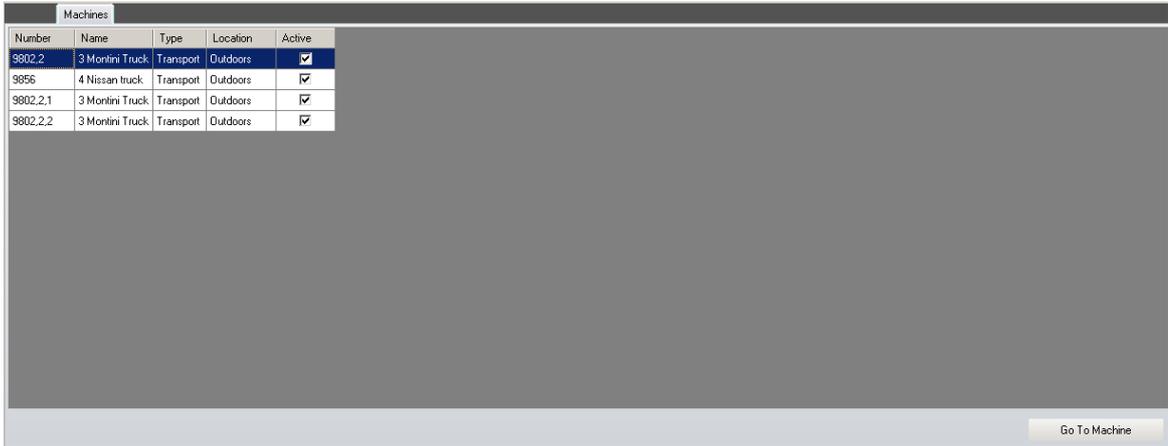


The Details Sub Tab of Supplier

You can find instructions on how to create Custom Field Groups by reading [Custom Field Groups](#).

2.3.4.6.2 Machines Sub Tab

The Machines Sub Tab shows you the Machines supplied by the selected Supplier. Here, you can view the selected Machine in the Machines Tab [Go To Machine].



The Machines Sub Tab of Supplier

To learn how to assign supplier to a machine read about [Machines](#).

2.3.4.6.3 Spare Parts Sub Tab

The Spare Parts Sub Tab shows you the Spare Parts associated to the selected Supplier. Here, you can associate a Spare Part [Associate Spare Part], edit its association [Edit Association] or remove its association [Remove Association].

Spare Parts							
Number	Type Number	Name	Group	Product Number	Price	Note	Preferred Supplier
0 820 006 103	B-445	Bosch Magnetvent	Magnetic valve, pneumatic	445838276	350.00	Ny lev.	<input checked="" type="checkbox"/>
6010	6010 2RS1/C3	SKF Ballbearing	Double-row ball bearing	SKF-6010/2RS	10.00	Ny lev.	<input type="checkbox"/>
A-P07-ADY1-0220-B	A-P07-ADY1-0220-B	Stuffing Box FM-0 pump	Pumps, vacuum		0.00		<input type="checkbox"/>
984F8510	BES 516-356-B0-C-03	No contact sensor Balluf	Non-contacting sensors	5705150480546	92.00		<input checked="" type="checkbox"/>
TD-2-8900/A1/SVB	4015082071516	Safety switch, K.Moeller.	Electrical		0.00		<input type="checkbox"/>

The Spare Parts Sub Tab of Supplier

You can associate specific spare parts to the machine by using the Filters in the Supplier Spare Part Association form. Enter the Price then click Save.

Supplier SparePart Association [X]

Supplier No: 76962600 Supplier Name: Solar

Filters

Group: Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	No.	Type No	Name	Dimension
Non-contacting sencors	5512	BES 516-377-S4-C	No contact sencorBalluf	M8x1 x61,5

Product No: Note:

Price:

Preferred Supplier

2.3.4.6.4 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected Supplier.

Note	File Name	Path	View
Stoptidsregistrering_MTBF_MITR 2004	Montagelinie 2004 Stoptid_MTBF_MITR.xls	c:\Personlig\Personlige oppgaver	<input type="checkbox"/>
Opgaveskema	Opgaveskema Montagelinie.doc	C:\Personlig\OVS\Stoptidsregistrering\Assembly line	<input type="checkbox"/>
Taktidsanalyse	Yamazumi montagelinie.xls	C:\Personlig\OVS\Stoptidsregistrering\Assembly line	<input type="checkbox"/>

Add Attachment Delete Attachment

The Attachments Sub Tab of Machine

You can learn more about Attachments in [Attachments](#).

2.3.5 Activities and Faults

The Activities/Faults tab is used to get an overview of the tasks in the past and future. In this grid you can easily see how many open, overdue, done tasks you have.

Fault	Task Name // Fault Type	Machine Name
<input type="checkbox"/>	12 months batterychange CPU101U/R.115U/H/FCPU516	Fillupstand
<input type="checkbox"/>	12 months batterychange CPU101U/R.115U/H/FCPU516	Leaksearch overpart
<input type="checkbox"/>	14 days planned service	Fillupstand
<input type="checkbox"/>	3 months planned service	Fillupstand
<input type="checkbox"/>	3 month planned service	Edge and tightnesstest
<input type="checkbox"/>	Lampchange	Haas Laser 506D
<input type="checkbox"/>	17 days planned service	Edge and tightnesstest
<input type="checkbox"/>	pump control, ½ year servicecheck	weighing-in pump
<input type="checkbox"/>	pump control, ½ year servicecheck	weighing-in pump
<input type="checkbox"/>	pump control, ½ year servicecheck	weighing-in pump
<input type="checkbox"/>	Service oil 30 days	weighing-in pump
<input type="checkbox"/>	Service oil 30 days	weighing-in pump
<input type="checkbox"/>	Service oil 30 days	weighing-in pump
<input type="checkbox"/>	Service oil 30 days	weighing-in pump

2.3.5.1 Activities

The activities are generated from the tasks specified on the machines. Depending on interval and other parameters these will be generated automatically when an activity is marked as done. Click [here](#) to read about specifying tasks for machines.

An Activity is a record of the progress of a Task. It shows you who performed the task, when it was performed and when it will be performed again.

In the Activities / Faults Tab, you can distinguish an Activity by looking at its Fault box. If the box is clear, it is an Activity.

Fault	Task Name // Fault Type	Machine Name	Machine No	Date	Done Date	Estimated	Fixed Date	Priority
<input type="checkbox"/>	Task 001	Machine 001	20091119-001	10/31/2009 9:00...	11/9/2009 8:00...	0	<input checked="" type="checkbox"/>	

When you select an Activity, you will see five sub tabs: Details, Spare Parts, Calibration, Attachments and Task - Attachments. You can find more information about each sub tab by reading the Activities Sub Tabs section.

2.3.5.1.1 Activity Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Signed By field. If you want to add, edit or delete values in To Be Signed By, please click on their underlined names in the image.

The screenshot shows a software window titled "Activities" with a close button in the top right. The form contains several sections:

- Signed By:** A dropdown menu with "Select" and a "Job No" field with the value "3". A "Priority" field has the value "5".
- To Be Signed By:** A text field containing "pm5". To its right are three checkboxes: "Done" (unchecked), "Started" (unchecked), and "Fixed Date" (checked).
- Task Information:** A group of fields including "Task Name" (TA-001), "Type of Task" (Task Type 1), "Machine Number" (20091119-001), and "Machine Name" (PM5-MA.001). Each field has a small "..." button to its right.
- Scheduling:** "Date Scheduled" (11/20/2009), "Activity Done" (empty), and "Expected End Date" (empty).
- Hours:** "Used Man Hours" (0.00) and "Estimated Manhours" (0.00). There is a small icon between these two fields.
- Notes:** Two large text areas labeled "Task Note" and "Activity Note".
- Buttons:** "Print", "Save", and "Cancel" buttons at the bottom right.

Signed By - the person who signed the activity. To add persons in the list, click on the link of the image above.

To Be Signed By - the person who was initially assigned to sign the task. The value for this is assigned through the task form. To learn how to assign value, click [here](#).

Job No. - the id or job number of the activity. This is automatically generated by PM5.

Priority - the priority number of the activity. Entering a value for Priority in an Activity allows you to sort Activities using the Priority field. Changing the value of priority in the Activity form will not affect the value of Priority in the Activity's parent Task.

Done Checkbox - when the Done box is checked it means the Activity is completely finished. Checking the Done box requires you to select a date for Activity Done and will cause a new activity to be scheduled on a future date (if the Task is Active). Learn more [here](#).

Started Checkbox - when the Started is checked, it means work has started on the activity but it is not yet completely finished. Checking the Started box requires you to select a date for Expected End Date.

Fixed Date - When the Fixed Date box is checked it means that the Date cannot be overridden. Checking the Fixed Date box makes sure that the Activity is performed only on the specified date - it cannot be overridden by the interval (number of days) or even by calculations of the next activity date by the OPC.

Date Scheduled - the scheduled date for the activity.

Activity Done - the date when the activity was set to done or finished.

Expected End Date - this field is used when the activity has started. This field sets the expected end or done date of the activity.

Used Man Hours - the total amount of uninterrupted labor used to perform the task. Learn more [here](#).

Activity Note - in this field you can note down other information regarding the activity.

The other fields that are not editable are used for easy reference on the machine and task where the activity is assigned.

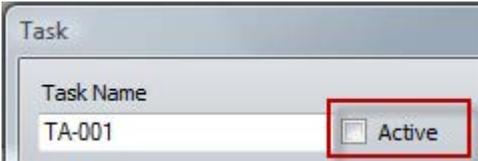
2.3.5.1.2 Create Activity

There are three ways to create an Activity.

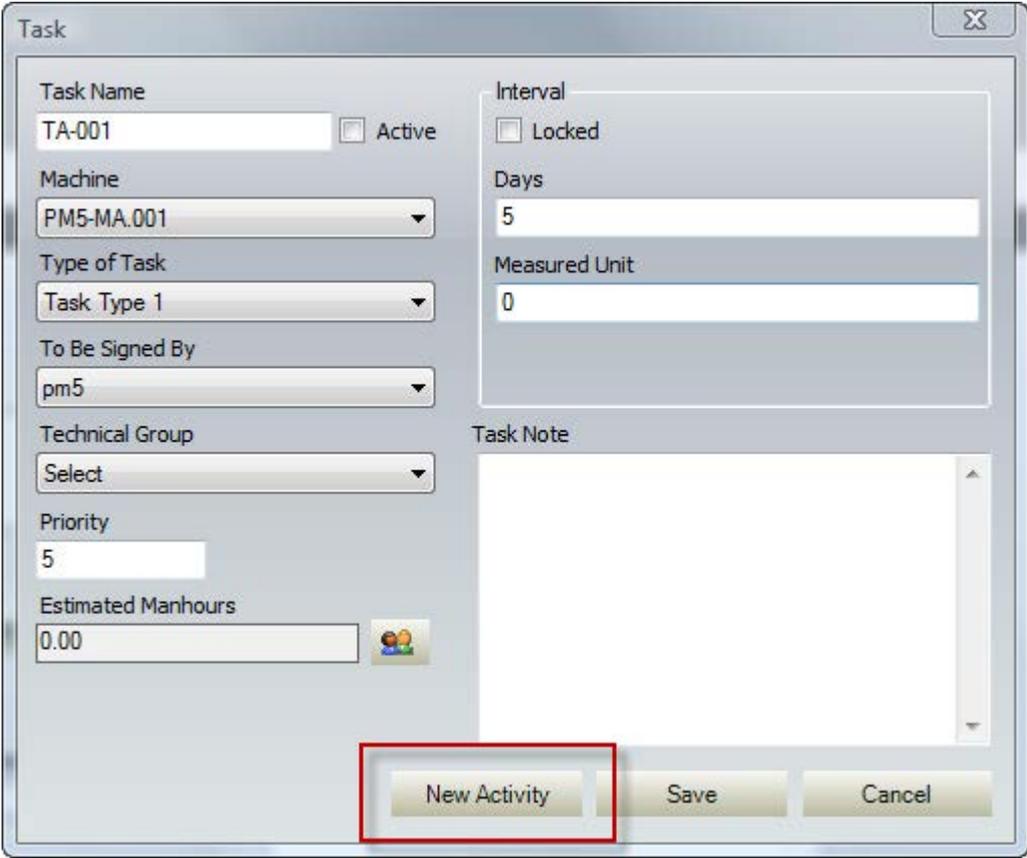
First, you can create a new Task (see [Create Task](#) for instructions) and with the creation of that task you automatically create an Activity.

Second is to mark an Activity as "Done." Once you mark an Activity as "Done" and save it, a new Activity will be created.

The third way applies to passive Tasks, which are tasks that are not marked as "Active."



When a Task is not marked as “Active” and all of its Activities are marked as “Done” or it has zero Activities, you will see a button in the Task form called New Activity.



Clicking on this button opens a window that will ask you to specify the date of the Activity.



2.3.5.1.3 Edit Activity

To edit an activity, select the activity you want to edit and do one of the following:

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.

The screenshot shows the 'Activities' form with the following data:

Field	Value
Signed By	Select
Job No	7
Priority	5
To Be Signed By	pm5
Done	<input type="checkbox"/>
Started	<input type="checkbox"/>
Fixed Date	<input checked="" type="checkbox"/>
Task Name	TA-001
Type of Task	Task Type 1
Machine Number	20091119-001
Machine Name	PM5-MA.001
Date Scheduled	11/23/2009
Activity Done	
Expected End Date	
Used Man Hours	0.00
Estimated Manhours	3.00

Change the details of the activity that you want to change and click Save.

2.3.5.1.4 Copy Activity

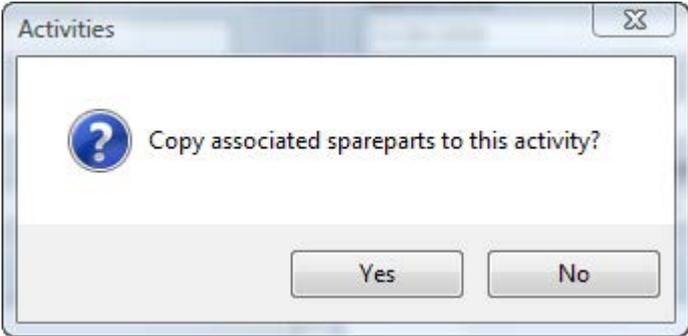
To copy an activity you can do one of the following

- 1) File -> Create copy...
- 2) Right click and choose "Create copy..."
- 3) ALT+F, C

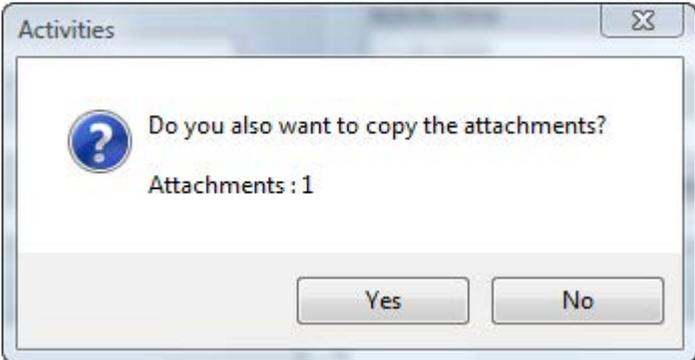
Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Fault	Task Name	Machine	Machine No	Date
<input type="checkbox"/>	12 months...	Leaksearc...	905539	23-03-2
<input type="checkbox"/>	12 months...	Fillupstand	905542	16-05-2
<input type="checkbox"/>	12 months...	Edge and ...	905543	24-03-2
<input checked="" type="checkbox"/>	12 months...	...	905545	16-04-2
<input type="checkbox"/>	14 days pl...	Fil		3-2
<input type="checkbox"/>	3 months ...	Fil		4-2
<input type="checkbox"/>	3 month pl...	Ed		4-2
<input type="checkbox"/>	Lampchange	Ha		4-2
<input type="checkbox"/>	17 days pl...	Ed		3-2
<input type="checkbox"/>	17 days pl...	Ed		4-2

- Create Copy...
- Edit...
- Delete
- Search... Ctrl+Q
- Add to Filter
- Help

Copied activity is always set to Done Status. The only details that you can change on the activity are Signed By, Priority, and the Used Manhours. Change the details of the Activity that you want to change and click Save. If activity has existing spare part associations, you will be asked if you want to copy also the Spare Parts associated to the original Activity.



If activity has existing attachments, you will be asked if you want to copy also the attachments of the original activity.



The Activity you copied will appear in bold in the Activities \ Faults Tab.

2.3.5.1.5 Set Activity to Done

To set an Activity to Done, you must select the Activity first. There are three ways to do this.

First, select the Activity through the Machine's Activities sub tab.

Machines					
Machine Number	ID Code	Machine Name	Location	Date	T
001	001	Machine 001	Mounting	7/16/2010	Fill
001.130	Jupiter	weighing-in pump	Rewinder	11/23/2005	Pu
001.132	0	Leaksearch Ballclosing	00	10/30/1994	Le
01	01	01	Mounting	7/16/2010	Fill
1.1000		1.1000	Outdoors	7/15/2010	Fill
1.2000		1.2000	Mounting	7/15/2010	Fill
88B		BBB	Mounting	7/15/2010	Fill
903982	11A	Rewinder	Rewinder	1/6/2003	mc
999999.99				1/6/2003	
Page 1 showing 1 to 20 of total 30					
Details					
Task Name	Date	Done	Done Date	Signed By	Used Man H
Task 001	7/16/2010	<input type="checkbox"/>			0
Task 001	7/16/2010	<input type="checkbox"/>			0

The Machines tab - Showing the Activities Sub Tab

Second is through the Task's Activities sub tab.

achines				Tasks	Spare Parts	Suppliers	Activities / Faults
Task Name	Task Type	Machine Name	Signed By				
op control, ½ year servicecheck	Planned servicecheck	weighing-in pump	D DVS				
ice oil 30 days	Lubrication	weighing-in pump	Jonny Peck				
months batterychange CPU101U/...	Planned servicecheck	Rewinder	Jonny Peck				
< 001	Attempt	Machine 001	pm5 pm5				
< 001	Calibration	Machine 001	pm5 pm5				
Page 1 showing 1 to 20 of total 21							
ails							
Activities							
Date	Done	Done Date	Signed By	Used Man Hours	Note		
14/2007	<input type="checkbox"/>		DVS	0			
8/2007	<input checked="" type="checkbox"/>	8/17/2007	DVS	2.5			
19/2006	<input checked="" type="checkbox"/>	11/27/2006	DVS	2.5	Lejer er		
3/2006	<input checked="" type="checkbox"/>	5/23/2005	DVS	2	alt ok		

The Tasks tab - Showing the Activities Sub Tab

And lastly, through the Activities tab itself.

achines							Activities / Faults
Machine Name	Machine No	Date	Done Date	Estimated	Fixed Date	Priority	
weighing-in pump	001.130	8/30/2007		1	<input checked="" type="checkbox"/>		
Las Laser 506D	905547	8/31/2007		2	<input checked="" type="checkbox"/>		
truck Cargo 1,5	9853	8/17/2007		0	<input type="checkbox"/>		
search Ballclosing	905539	8/11/2008		0.5	<input type="checkbox"/>		
and tightnesstest	905543	8/11/2008		0.5	<input type="checkbox"/>		
stand	905542	8/31/2007		2	<input type="checkbox"/>		
inder	903982	8/11/2008		0.5	<input type="checkbox"/>		
search overpart	905545	8/11/2008		0.5	<input type="checkbox"/>		
and tightnesstest	905543	11/9/2007		0.5	<input type="checkbox"/>		
stand	905542	11/9/2007		1	<input type="checkbox"/>		

The Activities / Faults tab - Showing the list of Activities

Open the Activity and you will get this form.

Activities

Signed By: Select Job No: 7 Priority: 5

To Be Signed By: pm5 Done Started Fixed Date

Task Name: TA-001

Type of Task: Task Type 1

Machine Number: 20091119-001

Machine Name: PM5-MA.001

Date Scheduled: 11/23/2009

Activity Done:

Expected End Date:

Used Man Hours: 0.00 Estimated Manhours: 3.00

Task Note:

Activity Note:

Print Save Cancel

- 1) Mark the Done checkbox.
- 2) Select value for Signed By.
- 3) Select the Activity Done date (current date is selected for this field by default).
- 4) Click Save.

You will then be asked if you want to associate/transfer spare parts to the activity.

The screenshot shows the 'Activities' application window. At the top, there are fields for 'Signed By' (a dropdown menu with 'Select' chosen), 'Job No' (text box with '120'), and 'Priority' (text box). Below these are 'To Be Signed By' (text box with 'pm5') and three checkboxes: 'Done' (checked), 'Started' (unchecked), and 'Fixed Date' (checked). The main area is divided into two columns. The left column contains 'Task Name' (text box with 'Task 001'), 'Type of Task' (dropdown menu with 'Attempt' selected), 'Machine Number' (text box with '001'), and 'Machine Name' (text box with 'Machine 001'). The right column contains 'Date Scheduled' (dropdown menu with '7/16/2010' selected), 'Activity Done' (dropdown menu with '7/19/2010' selected), and 'Estimated Manhours' (text box with '1.00'). At the bottom, there are two large text areas for 'Task Note' and 'Activity Note'. A dialog box titled 'Activities' is overlaid in the center, featuring a question mark icon and the text 'Do you want to add spare parts to the activity?'. It has two buttons: 'Yes' and 'No'. At the bottom of the main window, there are three buttons: 'Print', 'Save', and 'Cancel'.

Upon choosing 'Yes', the Associate Spare Part form will be displayed.

Associate Spare Part

Task Name
Task 001

Machine No
001

Machine Name
Machine 001

Filter

Group
Select

Dimension

Name

Bar Code

Spare Part No

Unit

Type No

Apply Filter

Group	Number	Type No	Name
Non-contacting sencors	984F8510	BES 516-35...	No contact sencor Balluf
Non-contacting sencors	984F8511	BES 516-32...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-32...	No contact sencor Balluf
Air cylinder double-acting	986U2058	DSNU-10-1...	Aircylinder Festo
Air cylinder double-acting	986U2060	DSNU-10-5...	Aircylinder Festo

Scheduled Qty.
0

Store
Stock B3 - Shelf 62 - - 11-6

Date Consumption
7/19/2010

Used By
pm5

Consumed

Consume Type
Test001

Note

Save Close

- 5) Select the spare parts you wishes to associate to the activity.
- 6) Enter the Scheduled Quantity.
- 7) (Optional) Select a Store.
- 8) Select the Consumption Date and who used it.
- 9) Decide whether the spare parts are already consumed.
- 10) Select the Consumption Type from the list.
- 11) Click Save and close the form.

You will then be asked for the next activity date. Click the OK button in the form.

The screenshot shows a software window titled "Activities" with a close button (X) in the top right corner. The window contains several input fields and checkboxes:

- Signed By:** A dropdown menu with "Select" as the current value.
- Job No:** A text field containing "126".
- Priority:** An empty text field.
- To Be Signed By:** A text field containing "pm5".
- Done:** A checked checkbox.
- Started:** An unchecked checkbox.
- Fixed Date:** A checked checkbox.
- Task Name:** A text field containing "Task 001" and a browse button (...).
- Date Scheduled:** A dropdown menu showing "8/ 3/2010".
- Type of Task:** A dropdown menu with "Attempt" selected.
- Machine Number:** A text field containing "001".
- Machine Name:** A text field containing "Machine 001".
- Estimated Manhours:** A text field containing "1.00".
- Task Note:** An empty text area.
- Activity Note:** An empty text area.

At the bottom of the window are three buttons: "Print", "Save", and "Cancel".

Overlaid on top of the "Activities" window is a smaller dialog box titled "Activity" with a close button (X). The dialog box contains:

- The text "A new activity is scheduled".
- A date dropdown menu showing "Wednesday, August 04, 2010".
- A checkbox for "Fixed Date", which is currently unchecked.
- An "Ok" button at the bottom.

2.3.5.1.6 Activity Sub Tabs

The five sub tabs of activity are discussed in this section.

2.3.5.1.6.1 Details Sub Tab

The Details Sub Tab of an Activity shows the Task Note, Activity Note and Job Number.

The screenshot shows a software window titled "Details" with a sub-tab "Activities / Faults Properties". Inside, there are two text boxes: "Task Note" containing "Control of pressuredrop over filter" and "Activity Note" containing "alt ok". Below these is a "Go To" section with a "Job No" field containing "62" and a button with three dots. To the right of the "Go To" section is a checked checkbox labeled "Spare Parts".

The Details Sub Tab of Activity

The Task Note can be changed by editing the parent Task of the Activity, which is the Task used to create the Activity.

The Activity Note can be changed by editing the Activity.

Clicking on the [...] button beside Job Number causes the Activities window to open, which allows you to edit the selected Activity.

When the Spare Parts box is checked, it means that at least one Spare Part is associated to the selected Activity. If it is not checked, it means that there are no Spare Parts currently associated to the selected Activity.

2.3.5.1.6.2 Spare Parts Sub Tab

The Spare Parts Sub Tab, when an Activity is selected, displays the Spare Parts associated with an Activity.

Number	Type Number	Name	Consumed	Scheduled	Used Qty	Store	User	Group	Note
986U2060	DSNU-10-50-P-A	Aircylinder Festo	<input checked="" type="checkbox"/>	15	5		pm5	Air cylinder doubl...	
986U2058	DSNU-10-10-P-A	Aircylinder Festo	<input type="checkbox"/>	15	0		pm5	Air cylinder doubl...	
984F8510	BES 516-356-B0...	No contact sencor ...	<input type="checkbox"/>	15	0		pm5	Non-contacting s...	

Buttons: Associate Spare Part, Edit Association, Remove Association, Go To Spare Part

The Spare Parts Sub Tab of Activity

The Spare Parts Sub Tab shows the Spare Parts associated to an Activity. Here, you can associate a Spare Part [Associate Spare Part], edit its association [Edit Association] or remove its association [Remove Association]. You can also view the selected Spare Part in the Spare Parts Tab [Go To Spare Part].

To associate multiple spare parts in one operation you can select these by clicking one record, hold shift and then click the last record you want to associate. Enter the Scheduled Quantity then click Save.

Associate Spare Part

Task Name
Task 001

Machine No
20091119-001

Machine Name
Machine 001

Filter

Group
Select

Dimension

Name

Bar Code

Spare Part No

Unit

Type No

Apply Filter

Group	Number	Type No	Name
Non-contacting sencors	984F8511	BES 516-32...	No contact sencor Balluf
Non-contacting sencors	984F8509	BES 516-32...	No contact sencor Balluf
Air cylinder double-acting	986U2061	ADVU-100-...	Aircylinder Festo
Air cylinder double-acting	93131023	ADVU-12-2...	Aircylinder Festo
Air cylinder double-acting	93131024	ADVUL-12-...	Aircylinder Festo

Scheduled Qty.
10

Date Consumption
11/23/2009

Used By
pm5

Consumed

Consume Type
Default

Store

Note

Save Close

You can also hold CTRL and click the records you want to associate one at a time.

Associate Spare Part

Task Name
Task 001

Machine No
20091119-001

Machine Name
Machine 001

Filter

Group: Select
Dimension:

Name:
Bar Code:

Spare Part No:
Unit:

Type No:

Apply Filter

Group	Number	Type No	Name
Magnetic valve, pneumatic	0 820 006 103	B-445	Bosch Magnetvent
Battery, PLC	20091119-001		SP-001
Battery, PLC	481	570515048...	Battery for OP Manel
Double-row ball bearing	485	6010 2RS1...	SKF Ballbearing
Double-row ball bearing	487	6010 2RS1...	SKF Ballbearing

Scheduled Qty.: 10
Store:

Date Consumption: 11/23/2009
Used By: pm5

Consumed
Consume Type: Default

Note:

Save Close

You can also associate specific spare parts to the task by using the Filters in the Associate Spare Part form.

Task Name
Task 001

Machine No
20091119-001

Machine Name
Machine 001

Filter

Group
Select

Dimension

Name

Bar Code

Spare Part No
481

Unit

Type No

Apply Filter

Group	Number	Type No	Name
Battery, PLC	481	570515048...	Battery for OP Panel

Scheduled Qty.
10

Date Consumption
11/23/2009

Used By
pm5

Consumed

Consume Type
Default

Note

Save Close

It is important to note that when attempting to associate a specific Spare Part to an Activity, the list of Stores displayed for the selected Spare Part is filtered by what is available in the current Location.

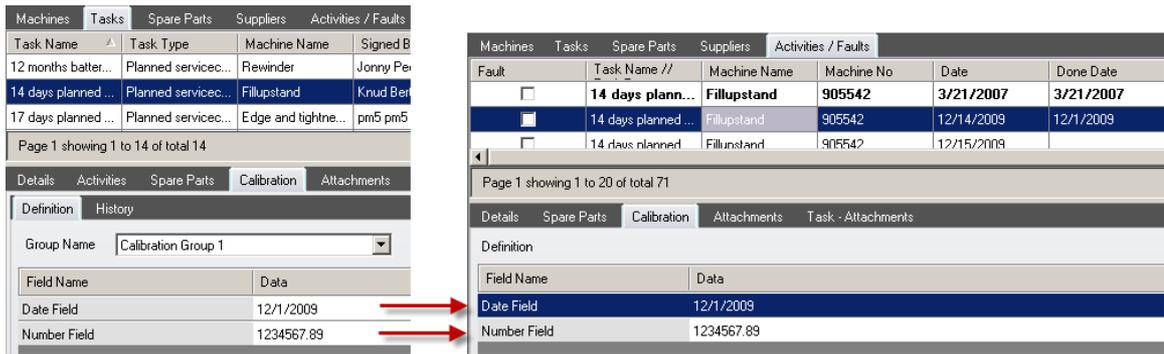
You can learn more about Spare Parts by reading [Spare Parts](#).

2.3.5.1.6.3 Calibration Sub Tab

The Calibration Sub Tab of Activity is divided into two panes: Definition and Reading.

If the parent Task of the selected Activity is assigned a Calibration Group and if values have been defined for the Calibration Group, you will see in the Definition pane the same set of values found in

the Calibration Definition Sub Tab of the parent Task of the selected Activity.



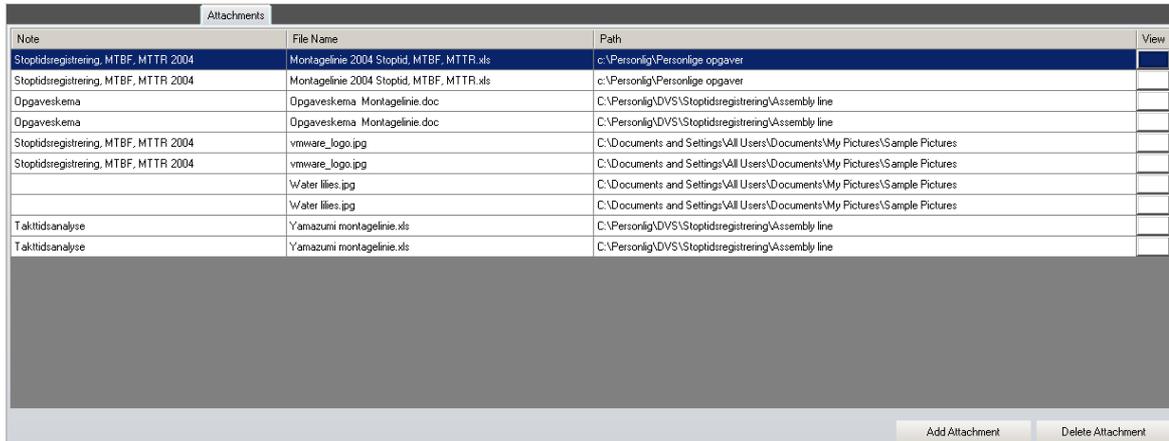
The Reading pane allows you to enter new values in the fields of the Calibration Group.



You can learn more about Calibration by reading [Calibration](#).

2.3.5.1.6.4 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected Activity.



The Attachments Sub Tab of Activity

You can learn more about Attachments in [Attachments](#).

2.3.5.1.6.5 Task - Attachments Sub Tab

The Task - Attachments Sub Tab shows the files or WWW links attached to the Activity's parent Task.

Note	File Name	Path	View
Stoptidsregistrering, MITBF, MITTR 2004	vmware_logo.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	

The Task - Attachments Sub Tab of Activity

To learn how to attach files in Task, click [here](#).

2.3.5.2 Faults

The faults listed in the activities/faults pane are all linked to their corresponding machines. A fault can be manually generated and reported from the OPC (read about [OPC](#)). The faults are indicated in the grid by a check mark in the "fault column".

Fault	Task Name // Fault Type
<input checked="" type="checkbox"/>	Emission error
<input checked="" type="checkbox"/>	013-b.4
<input checked="" type="checkbox"/>	041-1.7
<input checked="" type="checkbox"/>	Y27.6
<input checked="" type="checkbox"/>	Palette hangs after precipitater on HB
<input checked="" type="checkbox"/>	Data carrier error before index position.
<input checked="" type="checkbox"/>	Ball squeezing error
<input checked="" type="checkbox"/>	Vacuum not reached
<input checked="" type="checkbox"/>	Electric failure
<input checked="" type="checkbox"/>	Cylinder error
<input checked="" type="checkbox"/>	Electric failure
<input checked="" type="checkbox"/>	Mechanical
<input checked="" type="checkbox"/>	Mechanical
<input checked="" type="checkbox"/>	Accident

A Fault is an error or defect found in a Machine. It gives you a description of what the fault is, when it occurred and why it occurred.

When you select a Fault, you will see four sub tabs: Details, Spare Parts, Stop and Attachments. You can find more information about each sub tab by reading the Faults Sub Tabs section.

2.3.5.2.1 Fault Fields

When you create a spare part, you will be shown a set of fields. Each field is explained below.

Note: You can only select values in the Fault Type, Discovered By, Technical Group, To Be signed By, Approved By and Cause Types fields. If you want to add, edit or delete values in Fault Type, Discovered By, Technical Group, To Be signed By, Approved By and Cause Types, please click on their underlined names in the image.

The screenshot shows a 'Faults' window with the following fields and controls:

- Machine: 20091119-001, PM5-MA.001, Job No: []
- Fault Type: Select (underlined)
- Discovered (Date): Monday, November 23, 2009
- Discovered By: pm5 (underlined)
- Priority: []
- Alarm Code: []
- Technical Group: Select (underlined)
- Estimated Manhours: 0
- Used Manhours: 0
- To Be Signed By: Select (underlined)
- Started:
- Expected End Date: Monday, November 23, 2009
- Approval Required: Approved:
- Approved By: Select (underlined)
- Solved:
- Date Solved: Monday, November 23, 2009
- Cause Type: Select (underlined)
- Fault Description: []
- Solution: []
- Buttons: Print, Save, Cancel

Machine - refers to the machine where the fault was found. You can always change its value since this field is editable.

Job No. - the id or job number of the fault. This is automatically generated by PM5.

Fault Type - the type of fault.

Discovered Date - the date when the fault occurred or was found.

Discovered By - the person who discovered the fault. To add persons in the list, click on the link of the image above.

Priority - the priority number of the fault. Entering a value for Priority in a fault allows you to sort fault using the Priority field.

Alarm Code - the error code of the machine. When you know the error code you can often refer this in the troubleshoot section of the manual of the machine to see how to fix the error.

Technical Group - refers to the technical group who should resolve the fault.

Estimated Manhours - the estimated total amount of uninterrupted labor required to resolve the fault. Learn more [here](#).

Used Manhours - the total amount of uninterrupted labor used to resolve the fault. Learn more [here](#).

To Be Signed By - the person who signed the fault. To add persons in the list, click on the link of the image above

Started Checkbox - when the Started is checked, it means work has started on the fault but it is not yet completely finished. Checking the Started box requires you to select a date for Expected End Date.

Expected End Date - the date when the fault is expected to finish.

Approval Required Checkbox - when the Approval Required is checked, it means that the fault requires to have an approval.

Approved Checkbox - when the Approved is checked, it means that the fault was already approved. Checking this box requires you to select the person who approved the fault.

Approved By - the person who approved the fault. To be included in this list, user must be belong to a user group with Approval privilege.

Solved Checkbox - when the Solved is checked, it means that the fault is already solved. Checking the Solved box requires you to select the date when it was solved and the cause type. Learn more [here](#).

Date Solved - the date when the fault was solved.

Cause Type - the type of cause of the fault. (e.g. mechanical)

2.3.5.2.2 Create Fault

The creation of faults is done in the machines tab of PM5.

The screenshot shows the 'Faults' dialog box with the following details:

- Machine: 20091119-001, PM5-MA.001
- Job No: [Empty]
- Fault Type: Select
- Discovered (Date): Tuesday, November 24, 2009
- Discovered By: pm5
- Priority: [Empty]
- Alarm Code: [Empty]
- Technical Group: Select
- Estimated Manhours: 0
- Used Manhours: 0
- To Be Signed By: Select
- Started:
- Expected End Date: Tuesday, November 24, 2009
- Approval Required: Approved:
- Approved By: Select
- Solved:
- Date Solved: Tuesday, November 24, 2009
- Cause Type: Select
- Fault Description: [Empty text area]
- Solution: [Empty text area]
- Buttons: Print, Save, Cancel

- 1) To create a fault, go to machines tab.
- 2) Select the machine you want to create a fault.
- 3) Go to Faults Sub Tab.
- 4) Click New Fault.
- 5) Select the Fault Type.
- 6) Select when the fault was discovered.
- 7) Select who discovered the fault.

- 8) (Optional) Set the priority number.
- 9) (Optional) Enter the alarm code.
- 10) Select the technical group that should resolve this fault.
- 11) Enter a describing text for the fault.
- 12) Assign manpower resources and set the estimated man hours to resolve the fault.
- 13) Click Save.

You will then be provided with two options: Add spare parts to fault and Add Stop Period.

The screenshot displays the 'Faults' dialog box with the following fields and options:

- Machine:** 903982.01.02
- Rewinder, straighteningroll:** Rewinder, straighteningroll
- Job No:** (empty)
- Fault Type:** N2 pressure too low
- Discovered (Date):** Tuesday, July 20, 2010
- Discovered By:** pm5
- Priority:** (empty)
- Alarm Code:** (empty)
- Technical Group:** Select
- Estimated Manhours:** 0
- Used Manhours:** 0
- To Be Signed By:** pm5
- Started:**
- Expected End Date:** Tuesday, July 20, 2010
- Fault Description:** (empty text area)
- Solution:** (empty text area)

A sub-dialog titled 'Fault' is open, showing the following options:

- Add spare parts to fault
- Add Stop Period

Buttons at the bottom of the main dialog include Print, Save, and Cancel.

Choosing to add spare parts to the fault will result to the following form. If the fault's machine has spare part associated to it already, you can either select from the machine's list of spare part or from

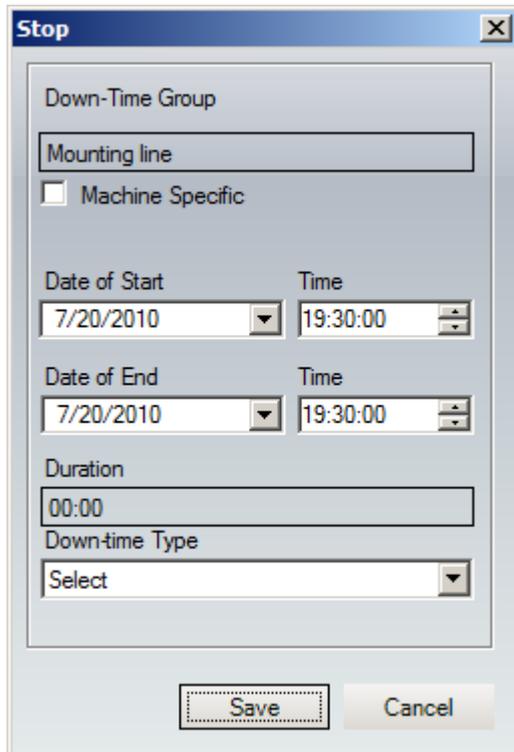
the global list. Just uncheck the 'Show machine spare parts only' to show the spare parts from the global list.

Group	Number	Type No	Name
Magnetic valve, pneumatic	932L9363	MFH-5-1/4-S	Magnetvent Festo
Non-contacting sencors	5512	BES 516-37...	No contact sencorBalluf
Pumps, vacuum	95322720	E2m 1,5	Vacuumpump, Edwards
Fittings, hydraulik	984F9269	6 EW 1000-...	Batterie Siemens PS S5-115U/H
Print and modules, PLC	93653227	6GT2 002-0...	Siemens Moby channel module CM

14) Select the spare parts you wish to associate to the fault.

- 15) Enter the Scheduled Quantity.
- 16) (Optional) Select a Store.
- 17) Select the Consumption Date and who used it.
- 18) Decide whether the spare parts are already consumed.
- 19) Select the Consumption Type from the list.
- 20) Click Save and close the form.

If you choose to Add Stop Period to the fault, the Stop form will be displayed to you after closing the Associate Spare Part form.



- 21) Provide the necessary details and click Save.

Note: Fault Type and Discovered By are *required fields*. You cannot save a Fault if any of the *required fields* is empty. All other fields can be filled out at a later time.

2.3.5.2.3 Edit Fault

To edit a fault, select the fault you want to edit and do one of the following:

- 1) Push "Enter"
- 2) CTRL + E
- 3) Right click and click "Edit..."
- 4) File -> Edit

Then you will get this form.

The screenshot shows a 'Faults' application window with the following fields and controls:

- Machine:** 20091119-001 (dropdown), PM5-MA.001 (text), Job No: 12 (text)
- Fault Type:** Fault Type 1 (dropdown)
- Discovered (Date):** Monday, November 23, 2009 (calendar)
- Discovered By:** pm5 (dropdown)
- Priority:** (text)
- Alarm Code:** (text)
- Technical Group:** Select (dropdown)
- Estimated Manhours:** 0.00 (text)
- Used Manhours:** 0.00 (text)
- To Be Signed By:** Select (dropdown)
- Started
- Expected End Date:** Monday, November 23, 2009 (calendar)
- Approval Required Approved
- Approved By:** Select (dropdown)
- Solved
- Date Solved:** Monday, November 23, 2009 (calendar)
- Cause Type:** Select (dropdown)
- Fault Description:** (text area)
- Solution:** (text area)
- Buttons:** Print, Save, Cancel

Change the details of the Fault that you want to change and click Save.

2.3.5.2.4 Set Fault to Solved

To set a Fault to Solved, you must select the Fault first. There are two ways to do this.

Select the Fault through the Machine's Faults sub tab

Machines				
Machine Number	ID Code	Machine Name	Location	
001.130	Jupiter	weighing-in pump	Rewinder	1
903982	11A	Rewinder	Rewinder	1
903982.00		Rewinder , control	Control	1
903982.01.01		Rewinder , finisher	Finisher	1
903982.01.02		Rewinder, straighteningroll	Straightening rolls	1
903982.01.03		Rewinder, feeder	Feeding	1
903982.02		Rewinder, cut	Cutting	1
905539	0	Leaksearch Ballclosing	Mounting	1
905539.00		Leaksearch Ballclosing - contr	00	1
905542	06B	Fillupstand	Mounting	1
905542.00		Fillupstand, control	00	1
905543	03C	Edge and tightnesstest	Mounting	1
905543.00		Edge and tightnesstest	00	1
905543.01		Edge and tightnesstest st.1	01	1

Page 1 showing 1 to 20 of total 23

Details				
Cause	Type	Date	Description	Solved
	Ball dosage error	7/20/2010		<input type="checkbox"/>

The Machines tab - Showing the Faults Sub Tab

Or through the Faults tab itself.

Machines		
Fault	Task Name // Fault Type	Machine Name
<input checked="" type="checkbox"/>	Emission error	Rewinder
<input checked="" type="checkbox"/>	013-b.4	Haas Laser 506D
<input checked="" type="checkbox"/>	041-1.7	Haas Laser 506D
<input checked="" type="checkbox"/>	Y27.6	Edge and tightnesstest
<input checked="" type="checkbox"/>	Palette hangs after precipitater on HB	Edge and tightnesstest
<input checked="" type="checkbox"/>	Data carrier error before index position.	Edge and tightnesstest st.2

The Activities/Faults tab - Showing the list of Faults

Open the Fault for edit.

The screenshot shows a software window titled "Faults" with a close button in the top right corner. The window contains a form with the following fields and controls:

- Machine:** A dropdown menu showing "20091119-001" and a text box containing "PM5-MA.001".
- Job No:** A text box containing "12".
- Fault Type:** A dropdown menu showing "Fault Type 1".
- Discovered (Date):** A date picker showing "Monday, November 23, 2009".
- Discovered By:** A dropdown menu showing "pm5".
- Priority:** A text box.
- Alarm Code:** A text box.
- Technical Group:** A dropdown menu showing "Select".
- Estimated Manhours:** A text box showing "0.00".
- Used Manhours:** A text box showing "0.00".
- To Be Signed By:** A dropdown menu showing "Select".
- Started:** A checkbox.
- Expected End Date:** A date picker showing "Monday, November 23, 2009".
- Approval Required:** A checkbox.
- Approved:** A checkbox.
- Approved By:** A dropdown menu showing "Select".
- Solved:** A checkbox.
- Date Solved:** A date picker showing "Monday, November 23, 2009".
- Cause Type:** A dropdown menu showing "Select".
- Fault Description:** A large text area.
- Solution:** A large text area.

At the bottom of the window, there are three buttons: "Print", "Save", and "Cancel".

- 1) Mark the Solved checkbox.
- 2) Select the value for Date Solved (current date is selected for this field by default).
- 3) Select the Cause Type from the list.
- 4) Click Save.

Upon clicking Save button, the option of adding spare parts and stop period to the fault will be provided.

The screenshot shows the 'Faults' application window. At the top, there are fields for 'Machine' (903982.01.02), 'Rewinder, straighteningroll', and 'Job No'. Below this, the form is divided into several sections:

- Fault Type:** A dropdown menu showing 'N2 pressure too low'.
- Discovered (Date):** A date picker showing 'Tuesday, July 20, 2010'.
- Discovered By:** A dropdown menu showing 'pm5'.
- Priority:** An empty text input field.
- Alarm Code:** An empty text input field.
- Technical Group:** A dropdown menu showing 'Select'.
- Estimated Manhours:** A text input field with '0'.
- Used Manhours:** A text input field with '0'.
- To Be Signed By:** A dropdown menu showing 'pm5'.
- Started:** An unchecked checkbox.
- Expected End Date:** A date picker showing 'Tuesday, July 20, 2010'.

A modal dialog box titled 'Fault' is open in the center. It contains the following elements:

- A title bar with 'Fault' and a close button.
- A label 'Select from options' above a list box.
- Two checkboxes:
 - Add spare parts to fault
 - Add Stop Period
- 'Ok' and 'Cancel' buttons at the bottom.

At the bottom of the main window, there are three buttons: 'Print', 'Save', and 'Cancel'. Below the main form, there are two large empty text areas labeled 'Fault Description' and 'Solution'.

Choosing to add spare parts to the fault will result to the following form. If the fault's machine has spare part associated to it already, you can either select from the machine's list of spare part or from the global list. Just uncheck the 'Show machine spare parts only' to show the spare parts from the global list.

Associate Spare Part

Machine No: 905539 Machine Name: Leaksearch Ballclosing

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No: Show machine spare parts only.

Apply Filter

Group	Number	Type No	Name
Magnetic valve, pneumatic	932L9363	MFH-5-1/4-S	Magnetvent Festo
Non-contacting sencors	5512	BES 516-37...	No contact sencorBalluf
Pumps, vacuum	95322720	E2m 1,5	Vacuumpump, Edwards
Fittings, hydraulik	984F9269	6 EW 1000-...	Batterie Siemens PS S5-115U/H
Print and modules, PLC	93653227	6GT2 002-0...	Siemens Moby channel module CM

Scheduled Qty.: 5 Store:

Date Consumption: 7/20/2010 Note:

Used By: pm5

Consumed

Consume Type: Default

Save Close

- 1) Select the spare parts you wishes to associate to the fault.
- 2) Enter the Scheduled Quantity.
- 3) (Optional) Select a Store.
- 4) Select the Consumption Date and who used it.

- 5) Decide whether the spare parts are already consumed.
- 6) Select the Consumption Type from the list.
- 7) Click Save and close the form.

If you choose to Add Stop Period to the fault, the Stop form will be displayed to you after closing the Associate Spare Part form.

The 'Stop' dialog box is shown with the following details:

- Down-Time Group:** Mounting line
- Machine Specific
- Date of Start:** 7/20/2010
- Time:** 19:30:00
- Date of End:** 7/20/2010
- Time:** 19:30:00
- Duration:** 00:00
- Down-time Type:** Select

Buttons: Save, Cancel

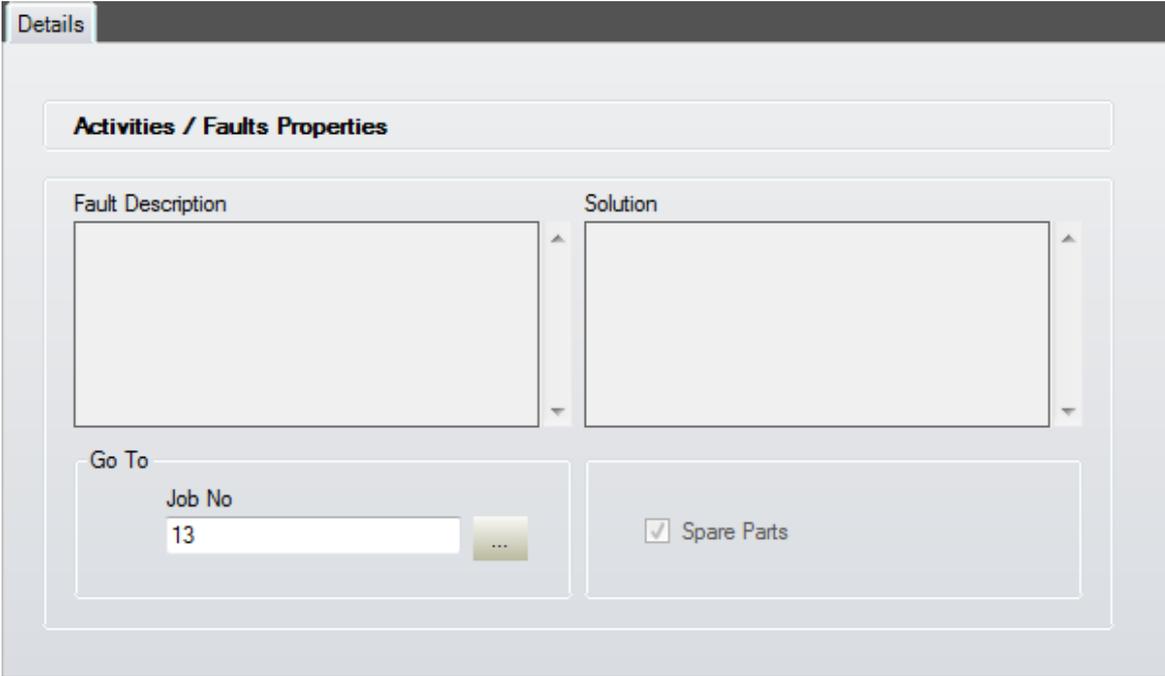
- 5) Provide the necessary details and click Save.

2.3.5.2.5 Fault Sub Tabs

The four sub tabs of fault are discussed in this section.

2.3.5.2.5.1 Details Sub Tab

The Details Tab of a Fault shows the Fault Description, Solution and Job Number.



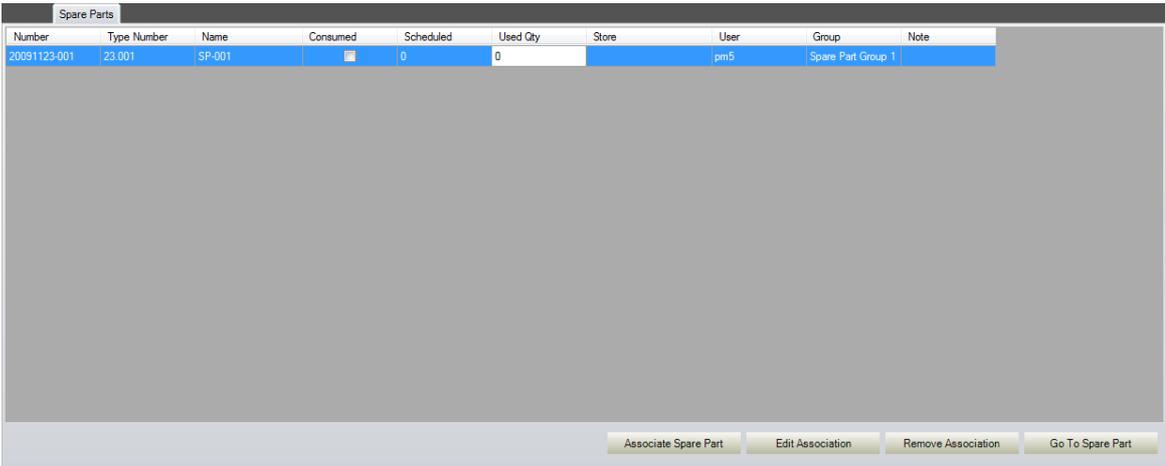
The Details Sub Tab of Fault

When the Spare Parts box is checked, it means that at least one Spare Part is associated to the selected Fault. If it is not checked, it means that there are no Spare Parts currently associated to the selected fault.

The Fault Description and Solution can be changed by editing the Fault. Clicking on the [...] button beside Job Number causes the Faults window to open, which allows you to edit the selected Fault.

2.3.5.2.5.2 Spare Parts Sub Tab

The Spare Parts Sub Tab, when a fault is selected, displays the Spare Parts associated with a fault.



The Spare Parts Sub Tab of Fault

The Spare Parts Sub Tab shows the Spare Parts associated to a Fault. Here, you can associate a Spare Part [Associate Spare Part], edit its association [Edit Association] or remove its association [Remove Association]. You can also view the selected Spare Part in the Spare Parts Tab [Go To Spare Part].

To associate multiple spare parts in one operation you can select these by clicking one record, hold shift and then click the last record you want to associate. Enter the Scheduled Quantity then click Save.

Machine No: 20091119-001 Machine Name: PM5-MA.001

Filters

Group: Select Dimension:

Name: Bar Code:

Spare Part No: Unit:

Type No:

Group	Number	Type No	Name
Spare Part Group 1	20091123-002	23.001	SP-001
Spare Part Group 1	20091123-003	23.001	SP-001
Spare Part Group 1	20091123-004	23.001	SP-001
Spare Part Group 1	20091123-005	23.001	SP-001

Scheduled Qty.: 10 Store:

Date Consumption: 11/24/2009 Note:

Used By: pm5

Consumed

Consume Type: Default

You can also hold CTRL and click the records you want to associate one at a time.

Machine No: 20091119-001

Machine Name: PM5-MA.001

Filters:

Group: Select

Dimension:

Name:

Bar Code:

Spare Part No:

Unit:

Type No:

Apply Filter

Group	Number	Type No	Name
Spare Part Group 1	20091123-002	23.001	SP-001
Spare Part Group 1	20091123-003	23.001	SP-001
Spare Part Group 1	20091123-004	23.001	SP-001
Spare Part Group 1	20091123-005	23.001	SP-001

Scheduled Qty: 10

Store:

Date Consumption: 11/24/2009

Used By: pm5

Consumed

Consume Type: Default

Note:

Save Close

You can also associate specific spare parts to the task by using the Filters in the Associate Spare Part form.

Machine No: 20091119-001 Machine Name: PM5-MA.001

Filters

Group: Select Dimension: _____

Name: _____ Bar Code: _____

Spare Part No: 20091123-005 Unit: _____

Type No: _____ **Apply Filter**

Group	Number	Type No	Name
Spare Part Group 1	20091123-005	23.001	SP-001

Scheduled Qty.: 10 Store: _____

Date Consumption: 11/24/2009 Note: _____

Used By: pm5

Consumed

Consume Type: Default

Save **Close**

It is important to note that when attempting to associate a specific Spare Part to a Fault, the list of Stores displayed for the selected Spare Part is filtered by what is available in the current Location.

You can learn more about Spare Parts by reading [Spare Parts](#).

2.3.5.2.5.3 Stop Sub Tab

The Stop Tab shows the Stops created for a Fault. Here, you can create a stop [New Stop] and delete existing stops [Delete Stop].

Type	Stop Group	Start Date	End Date	Duration	Individual
Downtime Type 1	Individual Stoptime	11/24/2009 3:51 PM	11/24/2009 3:51 PM	00:00	<input checked="" type="checkbox"/>

The Stop Sub Tab of Fault

You can learn more about Stops by reading [Stops](#).

2.3.5.2.5.4 Attachments Sub Tab

The Attachments Sub Tab shows the files or WWW links attached to the selected fault.

Note	File Name	Path	View
Stoptidsregistrering, MTBF, MTTR 2004	Montagelinie 2004 Stoptid, MTBF, MTTR.xls	c:\Personlig\Personlige oppgaver	<input type="checkbox"/>
Stoptidsregistrering, MTBF, MTTR 2004	Montagelinie 2004 Stoptid, MTBF, MTTR.xls	c:\Personlig\Personlige oppgaver	<input type="checkbox"/>
Opgaveskema	Opgaveskema Montagelinie.doc	C:\Personlig\DV5\Stoptidsregistrering\Assembly line	<input type="checkbox"/>
Opgaveskema	Opgaveskema Montagelinie.doc	C:\Personlig\DV5\Stoptidsregistrering\Assembly line	<input type="checkbox"/>
Stoptidsregistrering, MTBF, MTTR 2004	vmware_logo.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	<input type="checkbox"/>
Stoptidsregistrering, MTBF, MTTR 2004	vmware_logo.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	<input type="checkbox"/>
	Water files.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	<input type="checkbox"/>
	Water files.jpg	C:\Documents and Settings\All Users\Documents\My Pictures\Sample Pictures	<input type="checkbox"/>
Taktidsanalyse	Yamazumi montagelinie.xls	C:\Personlig\DV5\Stoptidsregistrering\Assembly line	<input type="checkbox"/>
Taktidsanalyse	Yamazumi montagelinie.xls	C:\Personlig\DV5\Stoptidsregistrering\Assembly line	<input type="checkbox"/>

The Attachments Sub Tab of Activity

You can learn more about Attachments in [Attachments](#).

2.3.5.2.6 Stops

A Stop refers to a point in time when a Machine stopped working. It is only possible to create a Stop for a Machine if a Fault is created first.

In a Stop, you can specify the date and time the Machine stopped working and the date and time the Machine started working again. In the Stop form, you will also see the Down-Time Group (Stop

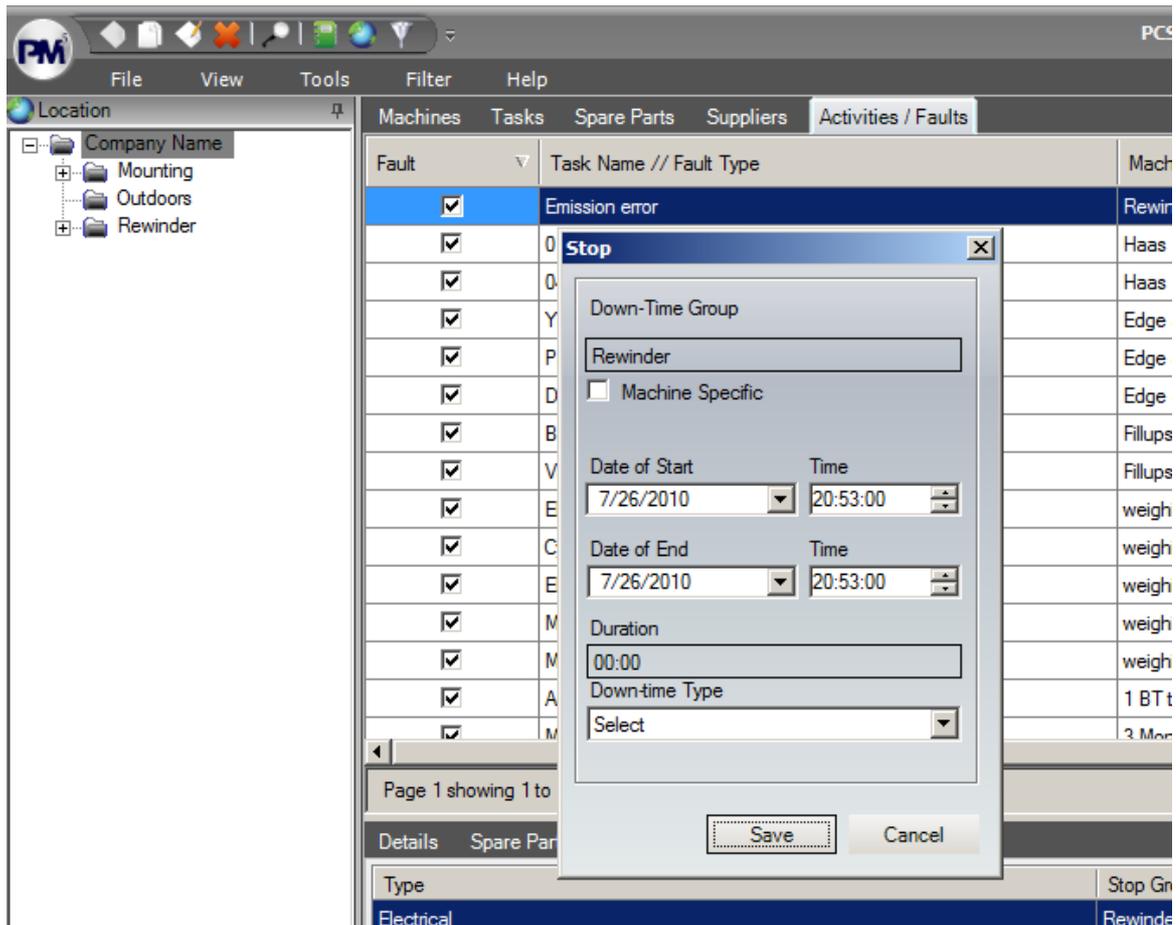
Group) of the Machine, a box that denotes if the Stop is Machine Specific, the duration of the Stop and a drop down box that allows you to select the Down-Time Type of the Stop.

A Stop Group is a group composed of interdependent Machines. Interdependent means that when one Machine in the Stop Group stops working, all of the Machines in the Stop Group are affected.

Stop Groups are created using the Administration tool and are used by Machines. You can find instructions on how to create a Stop Group [here](#).

2.3.5.2.6.1 Create Stop

On the faults sub grid you can enter one or more stops for the machine connected to the fault. Click on "new stop" in the sub pane and you will get this form.



You can enter the interval where the stop occurred. If you check the mark "Machine Specific" it means that other machines in the group were not affected by the stop on this machine and kept running during the stop. Otherwise the stop will be resulting in reported down time for all machines in this group.

Last specify the Down-time type which is also used for statistic purposes. The types can be defined [here](#).

The Stop created can be seen in the Stop Sub Tab of the fault and in the Stop Sub Tab of the

Machine the Stop was created for.

2.3.5.2.6.2 Delete Stop

There are two ways to delete a stop.

First, you can delete a stop through the stop sub tab of the machine the stop was created for.

Machines					
Machine Number	ID Code	Date	Price	Machine Name	
001	001	11/26/2009		Extra.001	
001.130	Jupiter	11/23/2005	23000.00	weighing-in pump	
002	002	11/26/2009		Extra.002	
003	003	11/26/2009		Extra.003	
903982	11A	1/6/2003		Rewinder	
903982.00		1/6/2003		Rewinder , control	
903982.01.01		1/6/2003		Rewinder , finisher	
903982.01.02		1/6/2003		Rewinder, straighte...	
903982.01.03		1/6/2003		Rewinder, feeder	
903982.02		1/6/2003		Rewinder, cut	
905529	0	10/20/1994		Leakproof Balle...	

Page 1 showing 1 to 20 of total 26

Details					
Date Start	Time Start	Date End	Time End	Down-time Type	Duration
6/16/2006	10:30	6/16/2006	12:00	Mechanical	01:30:00
10/9/2006	07:00	10/9/2006	10:15	Electrical	03:15:00
9/6/2006	17:00	9/7/2006	07:30	Mechanical	14:30:00
1/10/2007	12:30	1/10/2007	13:15	Mechanical	00:45:00

Second is through the stop sub tab of the fault of the machine.

Machines Tasks Spare Parts Suppliers Activities / Faults						
Fault	Task Name	Machine	Machine No	Date	Done Date	
<input checked="" type="checkbox"/>	Y27.6	Edge and tig...	905543	3/21/2004	3/21/2004	
<input checked="" type="checkbox"/>	Palette hang...	Edge and tig...	905543	3/21/2004	3/21/2004	
<input checked="" type="checkbox"/>	Data carrier ...	Edge and tig...	905543.02	3/21/2004	3/21/2004	
<input checked="" type="checkbox"/>	Ball squeezin...	Fillupstand	905542	3/21/2004	3/21/2004	
<input checked="" type="checkbox"/>	Electric failure	weighing-in p...	001.130	4/5/2006	4/5/2006	
<input checked="" type="checkbox"/>	Cylinder error	weighing-in p...	001.130	6/16/2006	6/16/2006	
<input checked="" type="checkbox"/>	Electric failure	weighing-in p...	001.130	10/9/2006	10/9/2006	
<input checked="" type="checkbox"/>	Mechanical	weighing-in p...	001.130	9/6/2006	9/8/2006	
<input checked="" type="checkbox"/>	Mechanical	weighing-in p...	001.130	1/10/2007	1/10/2007	

Page 4 showing 61 to 69 of total 69

Details Spare Parts Stop Attachments		
Type	Stop Group	Start Date
Mechanical	Mounting line	6/16/2006 10

- 1) Select the stop that you want to delete and click Delete Stop.
- 2) Click Yes in the confirmation message.

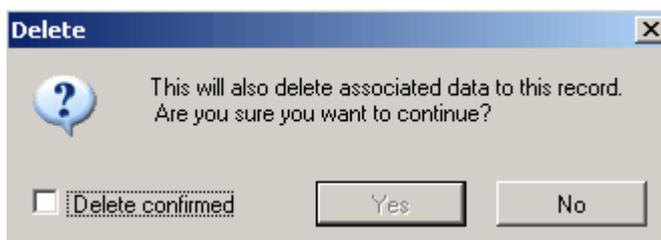
The stop gets deleted permanently and will no longer appear in the stop sub tabs.

2.3.5.3 Delete Activity/Fault

To delete an activity/fault, select the activity/fault and do one of the following

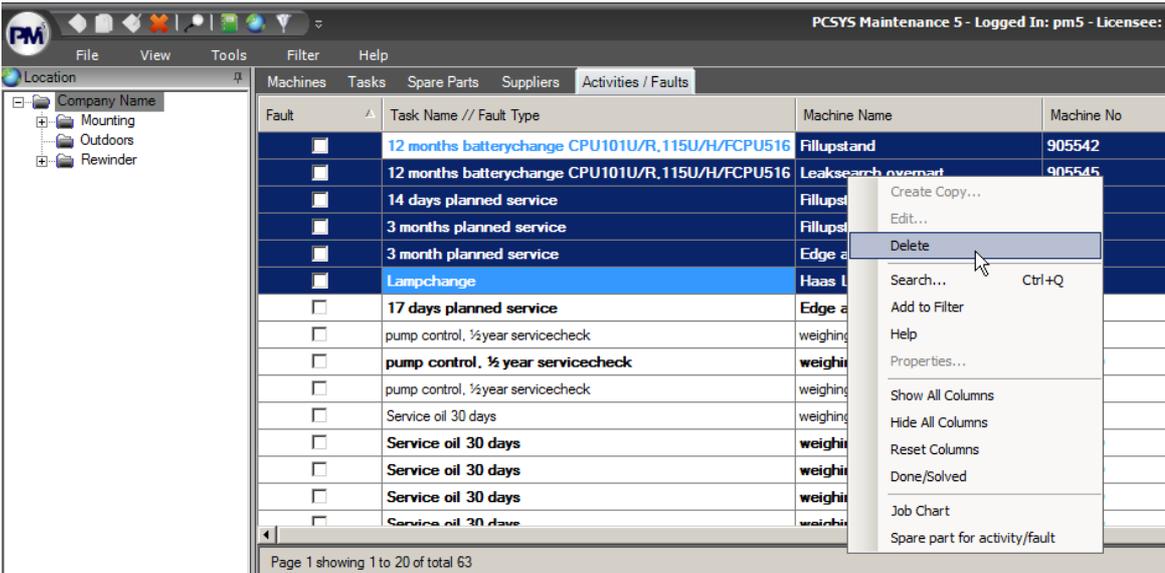
- 1) CTRL+D
- 2) Right click and click "Delete"
- 3) File -> Delete

You will be asked if you want to continue this operation. Mark the check box and click Yes.

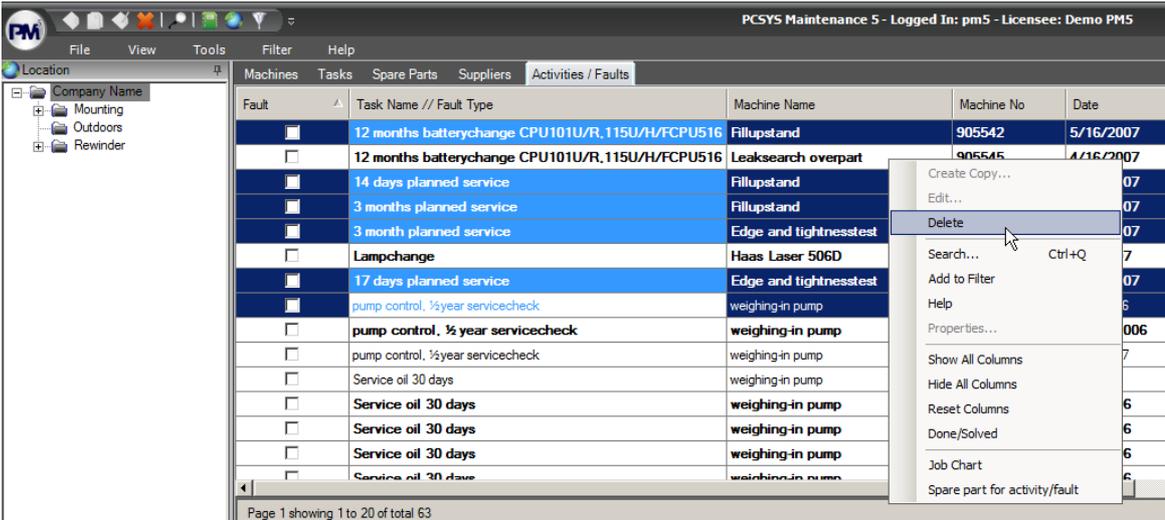


The reason why this extra step has been implemented is that this operation will delete everything related to this activity/fault. This will be records of consumption, used man hours etc. Use this functionality with care!

To delete multiple activities/faults in one operation you can select these by clicking one record, hold shift and then click the last record you want to delete. Then do the steps above.



You can also hold CTRL and click the records you want to delete one at a time.



2.3.5.4 Search Activity/Fault

To perform a search, you need to know one of the following about the Activity or Fault you are looking for: Task / Fault Type, Date, Machine Number, Machine Name or who signed the activity or solved the fault.

To search for an activity/fault do one of the following:

- 1) File -> Search
- 2) Right click and click "Search"
- 3) CTRL + Q

Then you will get this form

Activities/Faults Quick Search

Task / Fault Type:
 Date: -
 Machine Number:
 Machine Name:
 Signed By / Solved By:

Search

Fault	Task / Fault Type	Machine Name	Machine No	Signed By / Solved By	Date
No records match your criteria.					

Ok Cancel

Enter the value for any of the following: Task / Fault Type, Date, Machine Number, Machine Name or who signed the activity or solved the fault and click Search.

Activities/Faults Quick Search

Task / Fault Type:
 Date: -
 Machine Number:
 Machine Name:
 Signed By / Solved By:

Search

Fault	Task / Fault Type	Machine Name	Machine No	Signed By / Solved By	Date
<input checked="" type="checkbox"/>	Fault Type 1	PM5-MA.001	20091119-001		11/24/2009

Page 1 showing 1 to 1 of total 1

Ok Cancel

You will see the search results in the results grid. Click OK to return to the activities/faults tab. You will be taken back to the activities/faults tab where the search result you selected is highlighted.

Note: You can only search for Activities/Faults that are present in the Location selected in the Location Pane. If the Activity/Fault being searched for is not present in the selected Location, it will not show up in the search results.

2.3.6 Attachments

Attachments are files (or WWW links) that can be “attached” to a machine, task, spare part, supplier, activity or fault.

This is very useful especially when you want to include additional information about a machine, task, spare part, supplier, activity or fault that cannot fit into PM5. This could be a blueprint of a room, detailed specifications of a machine or any kind of supplement.

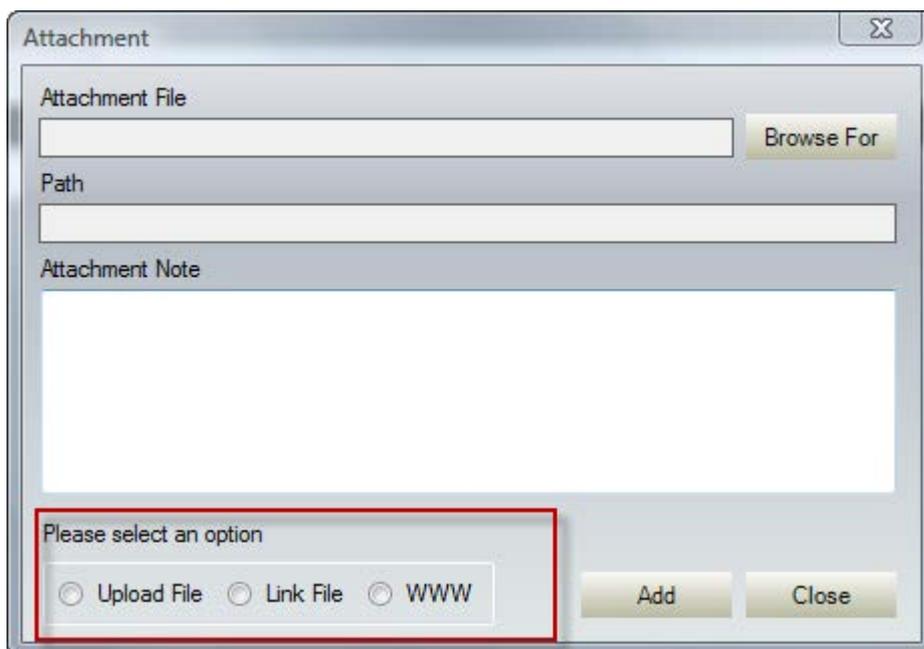
You can attach any file or WWW link to a machine, task, spare part, supplier, activity or fault, including spreadsheets, documents, database files, even sound recordings and graphic images.

In order to view an attached file, you need to have a copy of the software application that supports reading of the file. For example, if you have a Microsoft® Word® document as an attachment, then you must have Microsoft® Word® or an equivalent reader to be able to view the attachment.

In order to view an attached WWW link, you need to have an internet browser installed, such as Microsoft® Internet Explorer®.

2.3.6.1 Add Attachment

- 1) To add an attachment, select the data that you want to add an attachment to.
- 2) Click on the Attachments Sub Tab and click Add Attachment.



The screenshot shows a dialog box titled "Attachment". It has a close button in the top right corner. The dialog contains the following elements:

- An "Attachment File" text box with a "Browse For" button to its right.
- A "Path" text box below it.
- An "Attachment Note" text area below that.
- A section at the bottom titled "Please select an option" containing three radio buttons: "Upload File", "Link File", and "WWW".
- Two buttons, "Add" and "Close", are located at the bottom right of the dialog.

- 3) Choose one of the following radio buttons: Upload File, Link File or WWW. If you choose either Upload File or Link File, proceed to Upload or Link file. If you choose WWW, proceed to WWW.

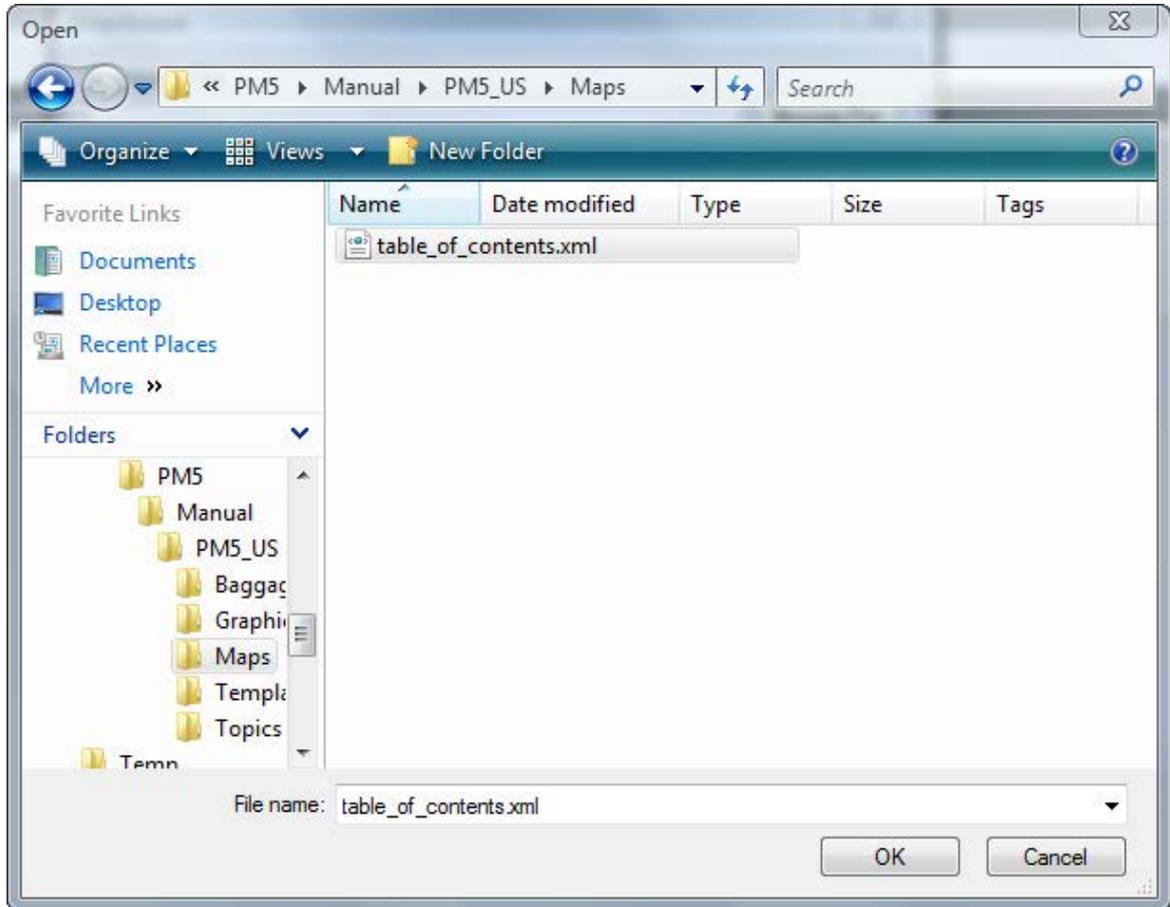
Notes:

- a. Choose Upload File if you want the attachment to be copied to your computer.
- b. Choose Link File if you just want to create a “link” to the attachment but don’t want the

- attachment to be copied to your computer.
c. Choose WWW if you want to enter a World Wide Web (WWW) address.

Upload or Link file:

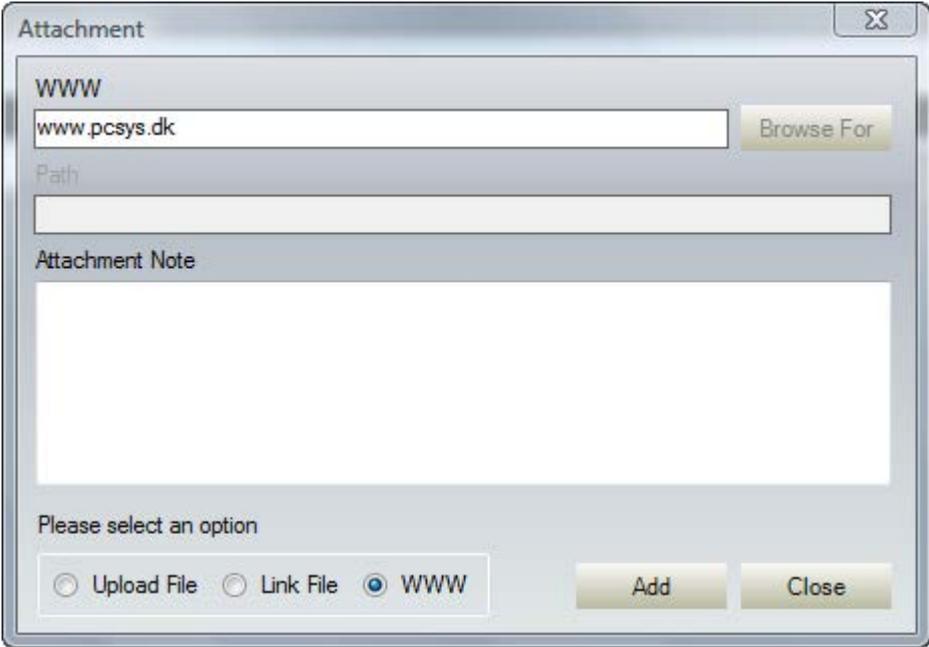
- 1) 4a) Click Browse For.
- 2) 5a) Select the file you want to attach and click Open.



- 3) Click Add in the Attachment form.

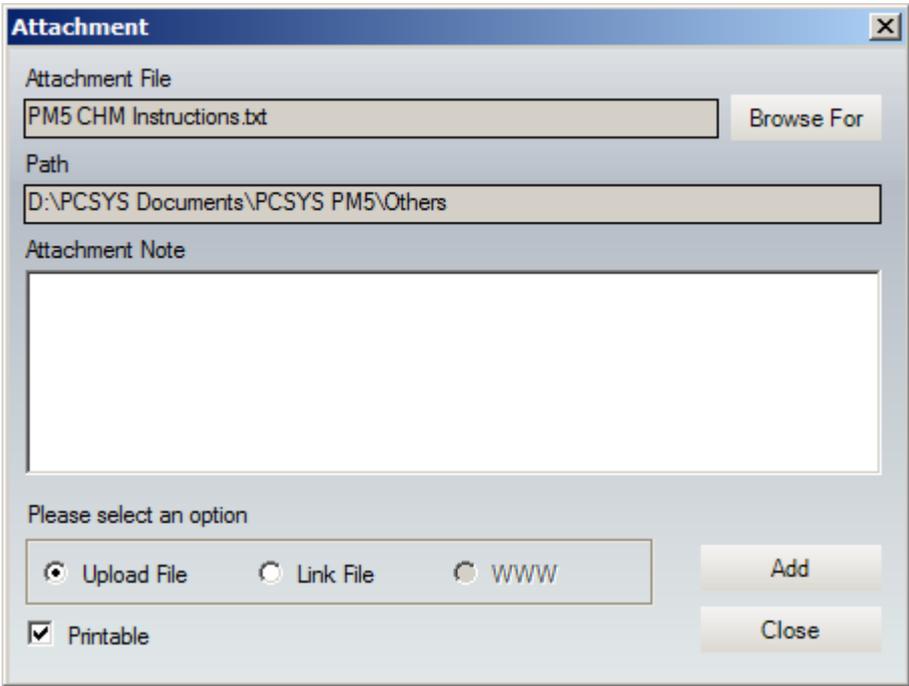
WWW link:

- 1) Type the WWW address in the WWW box and click Add.



2) You will see the WWW address in the Attachments Sub Tab. This is the last step for attaching a WWW address.

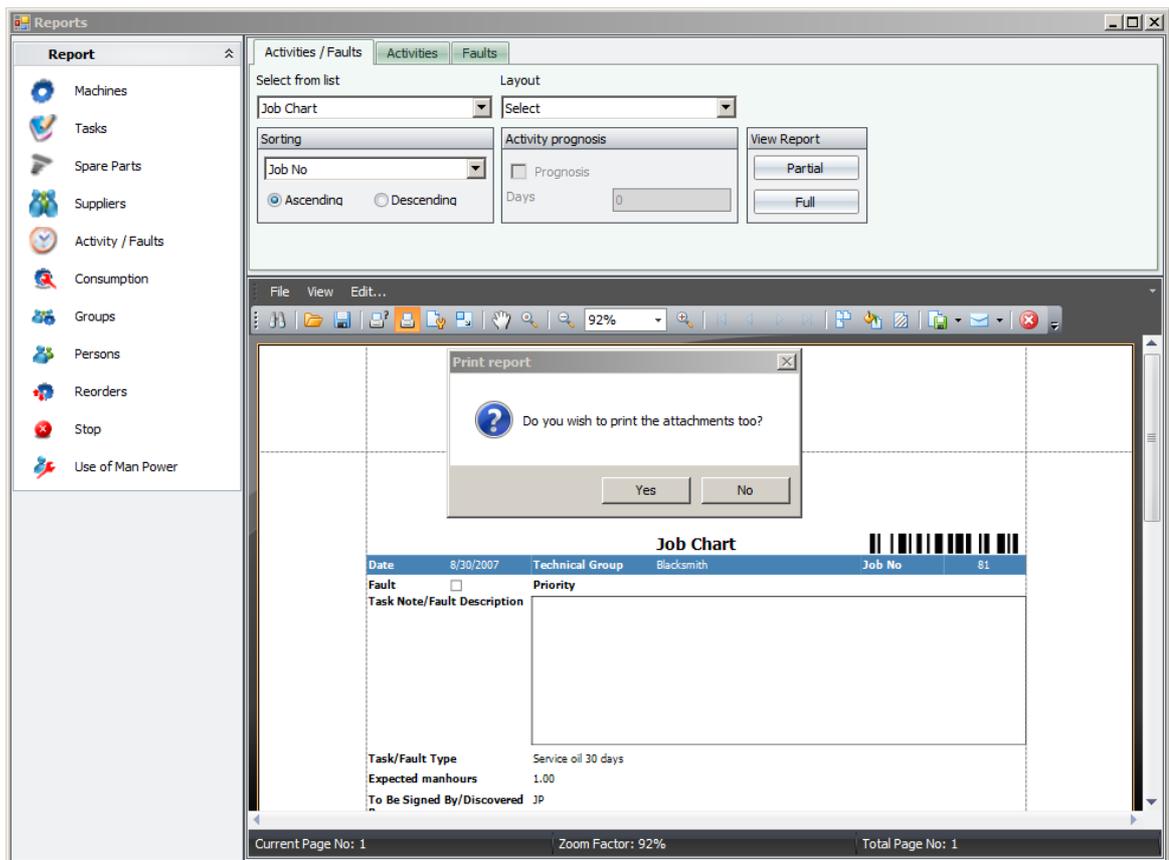
A special case applies to Task Attachment sub tab, wherein an extra field is added - Printable checkbox. Printable checkbox allows you to determine if the attached file is capable of being printed or not.



The Task Attachment form

Attached files that are defined as printable can be also be printed directly along with the activity card

where it is attached to.



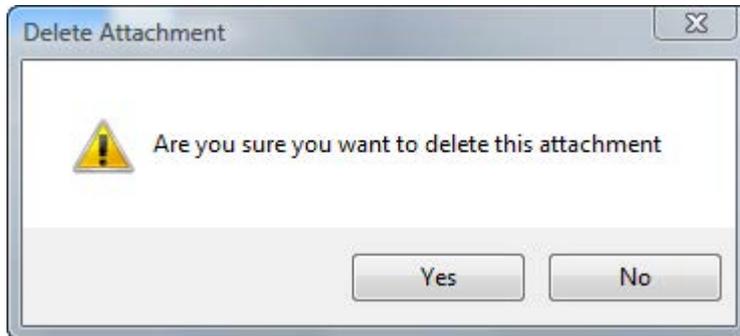
Printing of Activity Card along with Task attachments

The following are the file formats that are printable in PM5:

- rich text files
- pdf files
- word document files
- excel files
- text files
- .dotx files
- .mht and .html files
- .xlsm files
- .docm files
- .xlsb files
- .xltx files
- .xltn files
- .csv files

2.3.6.2 Delete Attachment

- 1) To delete an attachment, select the data where the attachment is attached.
- 2) Click Delete Attachment in the attachment sub tab.
- 3) A confirmation message will appear to you.



- 4) Click Yes from the options.
- 5) The Attachment gets deleted permanently and will no longer appear in the Attachments Sub Tab.

2.4 Menu Bar and Quick Access Toolbar

The Menu Bar displays a list of menus. The menus in PM5 consist of File, View, Tools and Help.



File contains the New, Create Copy, Edit, Delete and Search commands, which have been used extensively throughout this manual. View contains commands that hide and show the Location (found on the right pane) and Filter (found on the bottom). Tools contains commands for launching Administration, Purchase, Consumption and Reports. Help has commands that will open the Client Manual, Utilities Manual and the About window.

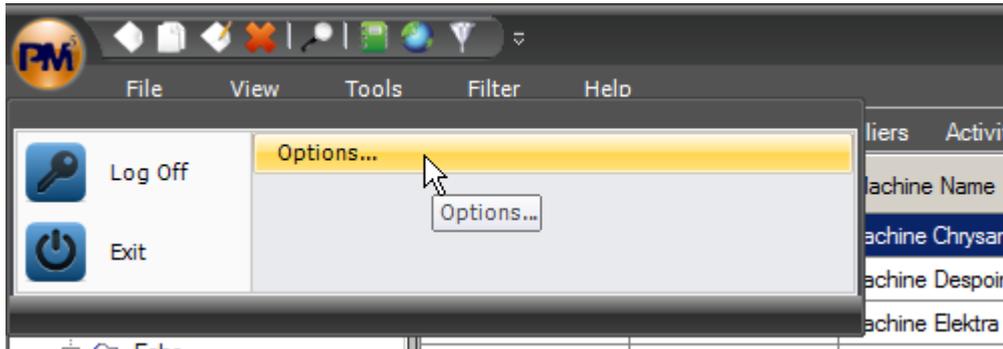
The commands in the menu may or may not be available depending on the privileges your User Group has and on the selected tab. For example, if you are a part of a User Group that has the necessary privileges and the active tab is the Machines Tab, all the commands in the File menu will be available. On the other hand, if the active tab is the Activities / Faults Tab, the New command will always appear disabled in the File menu.

The Quick Access Toolbar contains buttons that allow menu commands to be performed with just a single click. The toolbar consists of New, Create Copy, Edit, Delete, Search, Reports, Location and Filter.

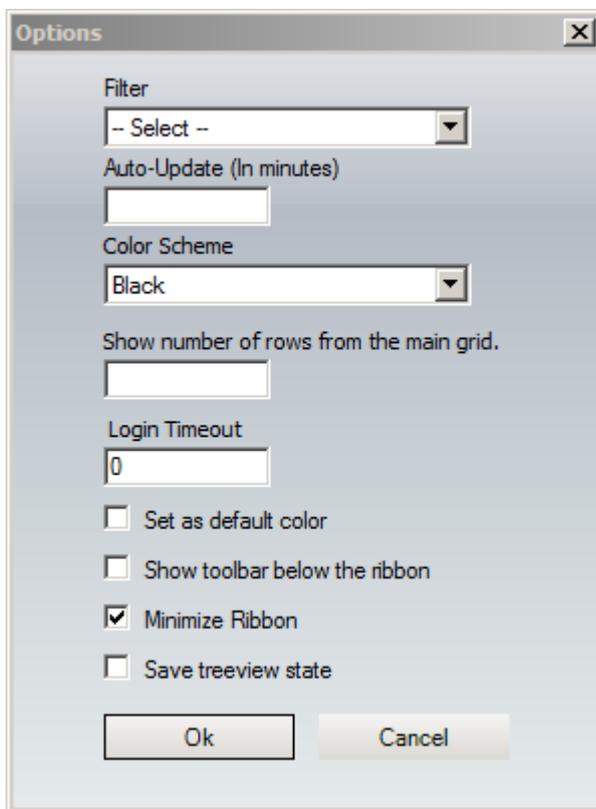


This allows you to perform the selected commands faster. For example, you want to create a Machine, instead of clicking on File > New to open the Machines form, all you have to do is click on the New button and the Machines form will open.

PM5 also allows you to change its color scheme, position of the quick access toolbar and the visibility of the ribbon. You can do this by clicking on the PM5 icon and selecting Options...



Here, you can change the color scheme to black, blue or silver. You can also specify a filter, set the Auto-Update, specify the default color, limit the number of rows to be shown in the main grid, set the login timeout, position the quick access toolbar below the ribbon, minimize the ribbon and save tree view state.



Filter - the Filter field in Options can be used if you want your data to be displayed according to the criteria you set in a filter.

Auto-Update (In minutes) - the number of minutes the Activities/Faults tab should update.

Show number of rows from the main grid - set the number of rows to be displayed in the main grids i.e. Machines, Tasks, Spare Parts, Suppliers, Activities and Faults.

Login Timeout - Timeout (in minutes) determines how long before a user will be automatically logged out after the predefined period of inactivity. (0 value means no timeout)

Save tree view state check box - a checked mark means that your state of navigation tree/location pane is saved when you close PM5, otherwise the tree is always collapsed when the client launches.

This is what the top of PM5 looks like when the color scheme is set to blue, the toolbar is shown below the ribbon and the ribbon is not minimized.



The drop down button beside the quick access toolbar allows you to change the position of the quick access toolbar and to minimize the ribbon.



2.5 Measured Parameter

Aside from using the value of days field specified in the task form in calculating the next activity date of a machine, you can use measured parameter to estimate its earliest next activity date. Measured Parameter is discussed in details [here](#).

The measured parameter form in tools displays the list of measured parameter in PM5 with the entered counter readings for each.

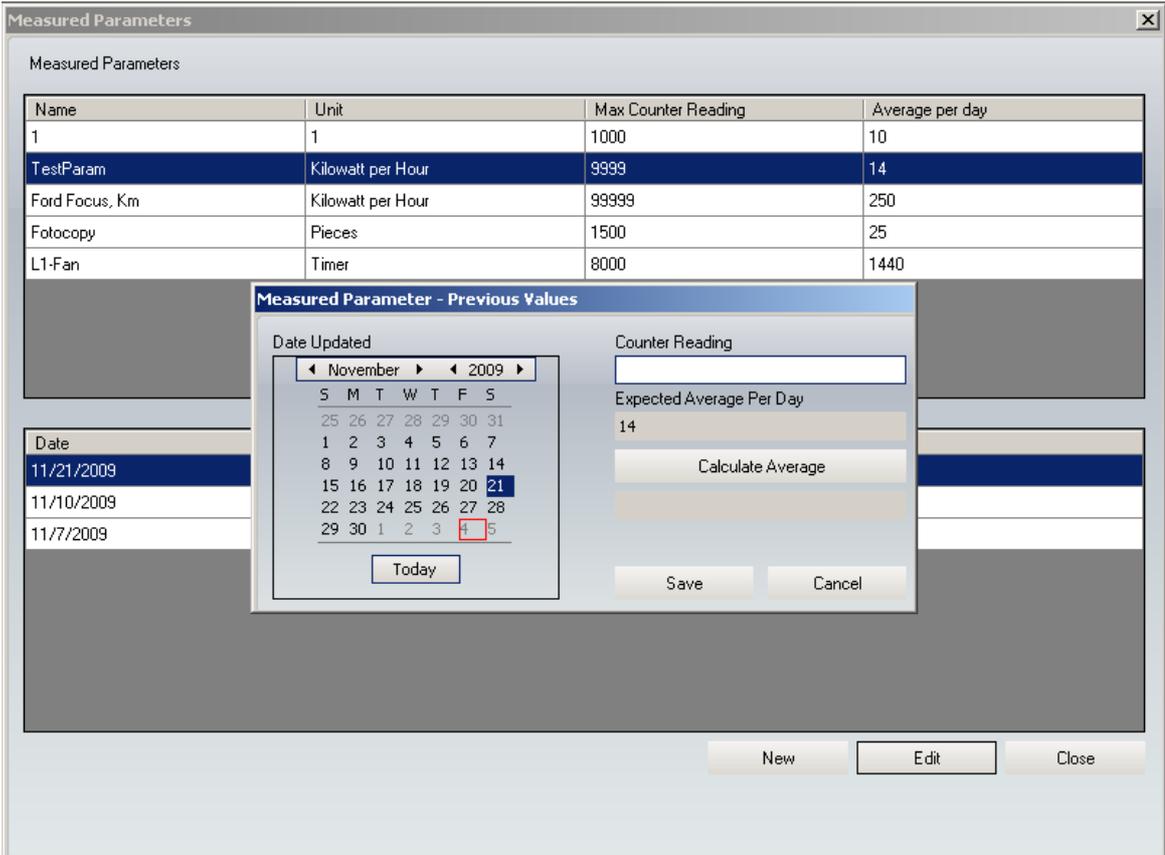
Name	Unit	Max Counter Reading	Average per day
1	1	1000	10
TestParam	Kilowatt per Hour	9999	14
Ford Focus, Km	Kilowatt per Hour	99999	250
Photocopy	Pieces	1500	25
L1-Fan	Timer	8000	1440

Date	Counter Reading	Average for period
------	-----------------	--------------------

New Edit Close

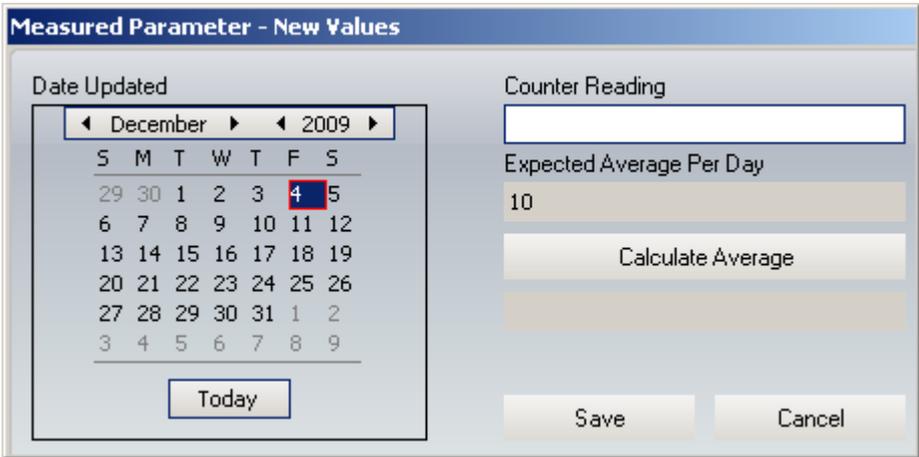
Measured Parameters Form in tools

From here, you can select a measured parameter, then create or edit its counter readings.



Measured Parameters Form in tools - showing how to edit a counter reading entry

To add a counter reading for a measured parameter, click the [New] button then you will get this form.



Measured Parameter - New Values Form

Select the date and enter the counter reading for the measured parameter. You can click on the [Calculate Average] button to see the average reading. Click Save.

Note: You cannot insert two counter readings on the same day.

To edit a counter reading, click the [Edit] button and you will be presented with this form.

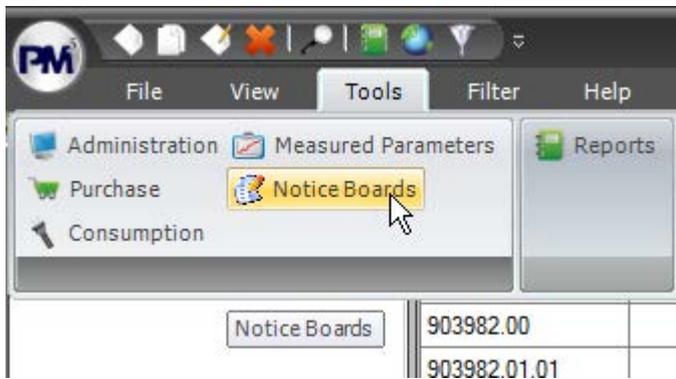
Measured Parameter - Previous Values Form

The form will display the date when it was last updated. Enter the new counter reading and select the new date. You can click on the [Calculate Average] button to see the average reading. Click Save.

Note: You can only edit the last record from the list of logs of measured parameter.

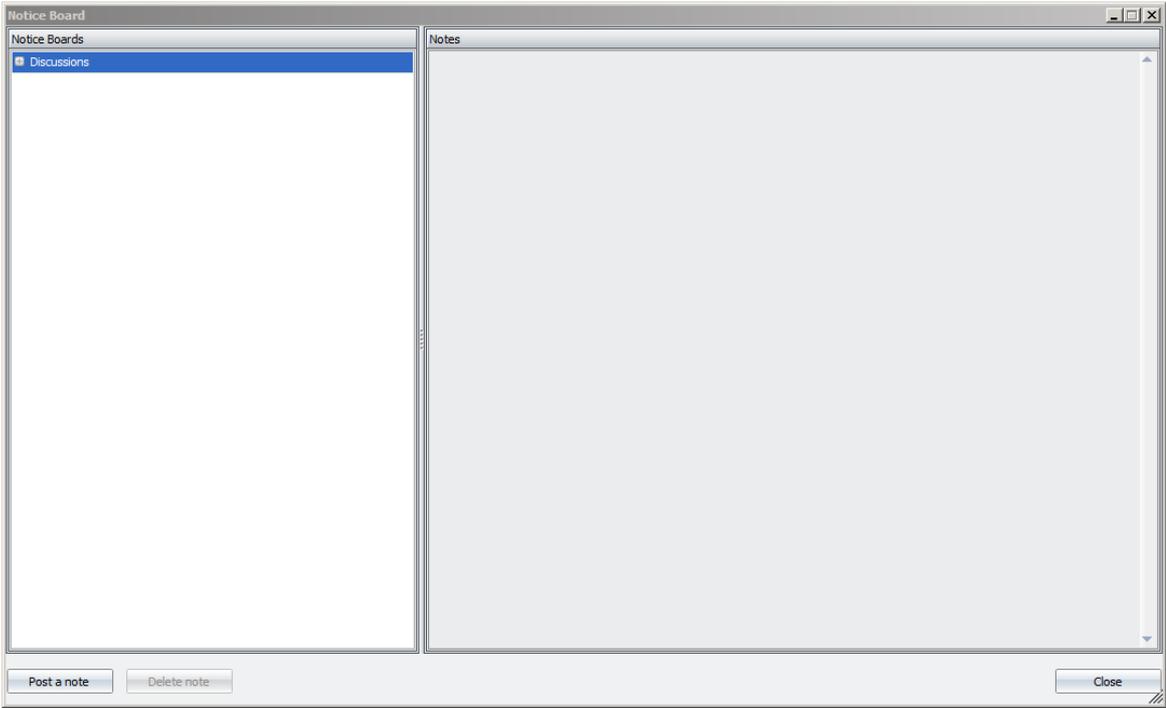
2.6 Notice Boards

Notice Board tool lets the user post notes and read notes posted by other user. To access Notice Board, click on the Tools menu and select Notice Boards.



The Tools Menu - Showing the Notice Board

The Notice Board form will then be displayed to you. Notice Boards are created in the Administration module of PM5. To learn how to create Notice Boards, click [here](#).

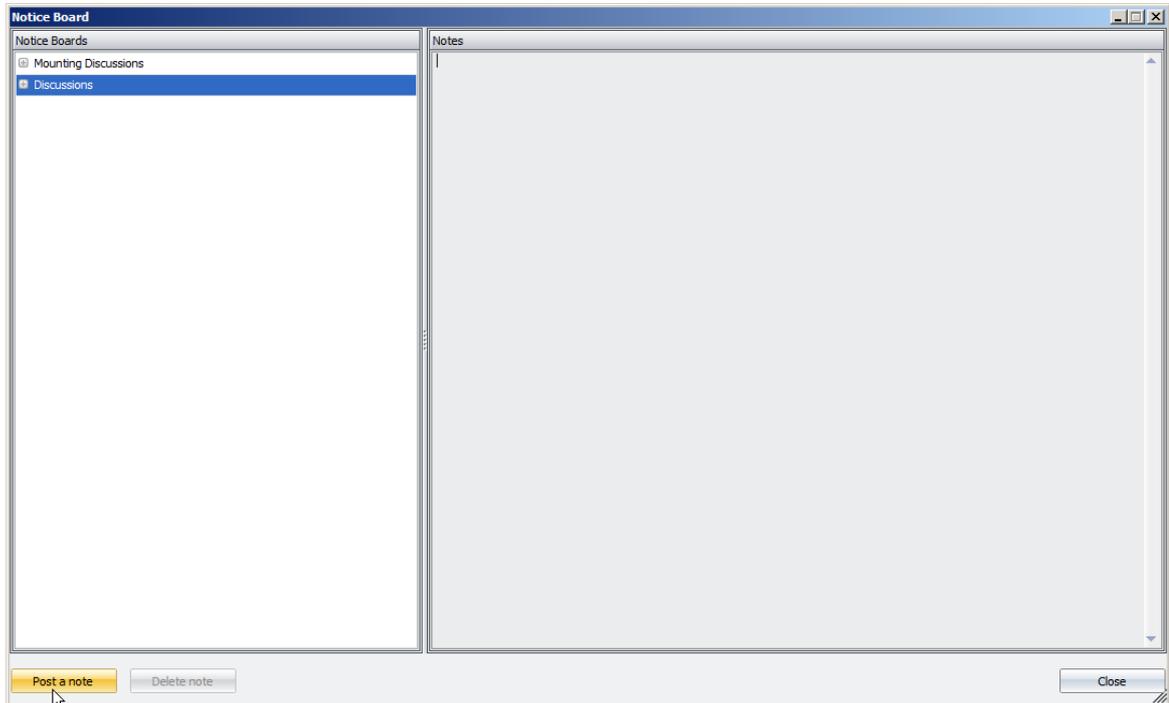


The Notice Board form

Note: Notice Boards are assigned to certain locations. Hence, only Notice Boards that are assigned within your location access will be available to you.

2.6.1 Posting, viewing and deleting Notes

To post a note, select the Notice Board you wishes to post a note to and click the 'Post a note' button.



The Notice Board form - Showing how to Post a Note

After clicking 'Post a note', you will see a dialog where you can enter your notes. Click 'Post Note' when you have finished filling out the form. The 'Title' is a required field.

The 'Post a note' dialog box contains the following elements:

- Notice Board:** A dropdown menu currently showing 'Discussions'.
- Title:** A text input field containing the word 'Machineries'.
- Note:** A large text area with a vertical scrollbar, containing the text 'Please update PUQ3 specifications.'.
- Buttons:** Two buttons at the bottom right: a yellow 'Post Note' button and a grey 'Cancel' button.

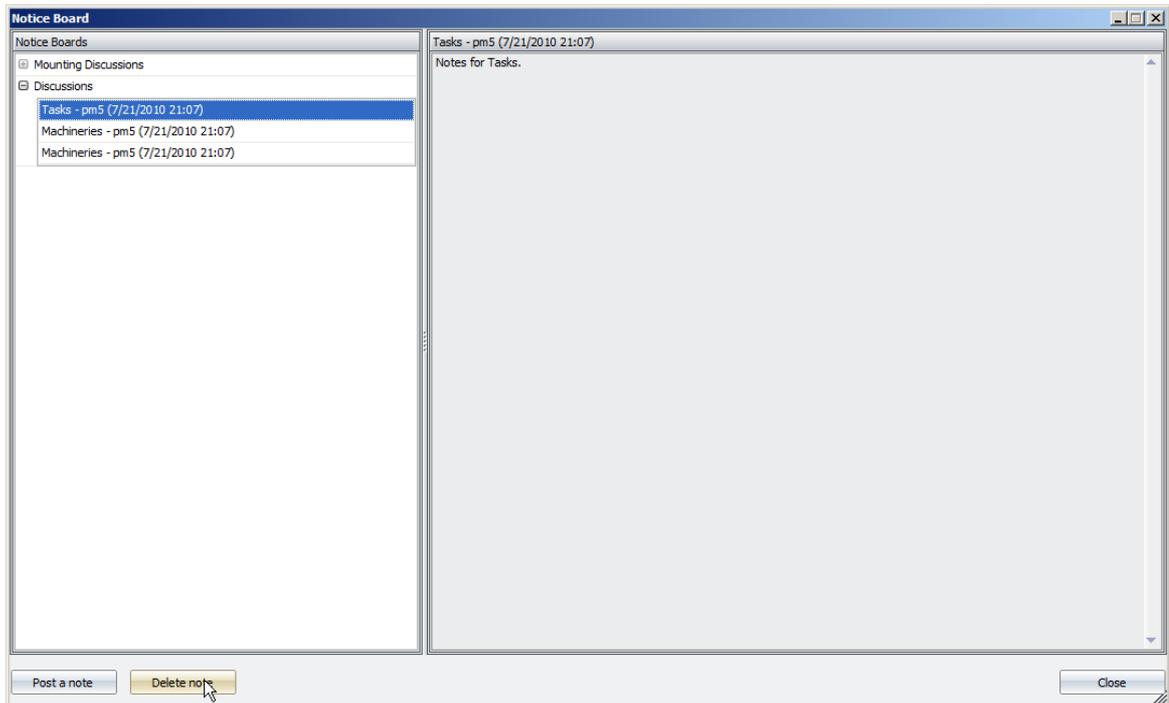
To view posted notes, select a Notice Board and the conversation title. The posted messages can be seen on the right pane of the form.

The 'Notice Board' window is split into two panes:

- Left Pane (Notice Boards):** A tree view showing a hierarchy of boards. Under 'Discussions', there are three items: 'Tasks - pm5 (7/21/2010 21:07)', 'Machineries - pm5 (7/21/2010 21:07)' (which is highlighted in blue), and another 'Machineries - pm5 (7/21/2010 21:07)'.
- Right Pane:** A large area displaying the content of the selected conversation. The title is 'Machineries - pm5 (7/21/2010 21:07)' and the content is 'Noted by KB.'.

The Notice Board form - Showing the message of the selected Notice Board conversation

To delete a posted note, select the note on the Notice Board where it is posted and click 'Delete Note'.



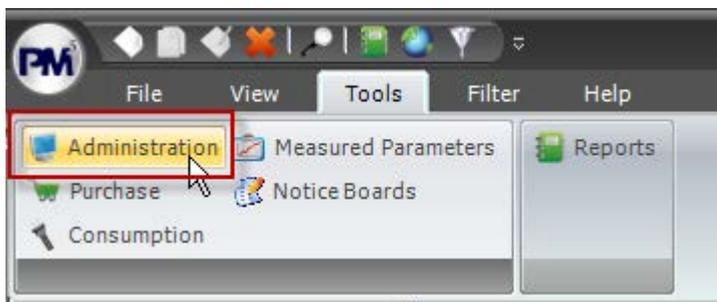
The Notice Board form - Showing how to delete a note

Note: You can not delete the messages posted by other user, you can only delete the messages you have posted.

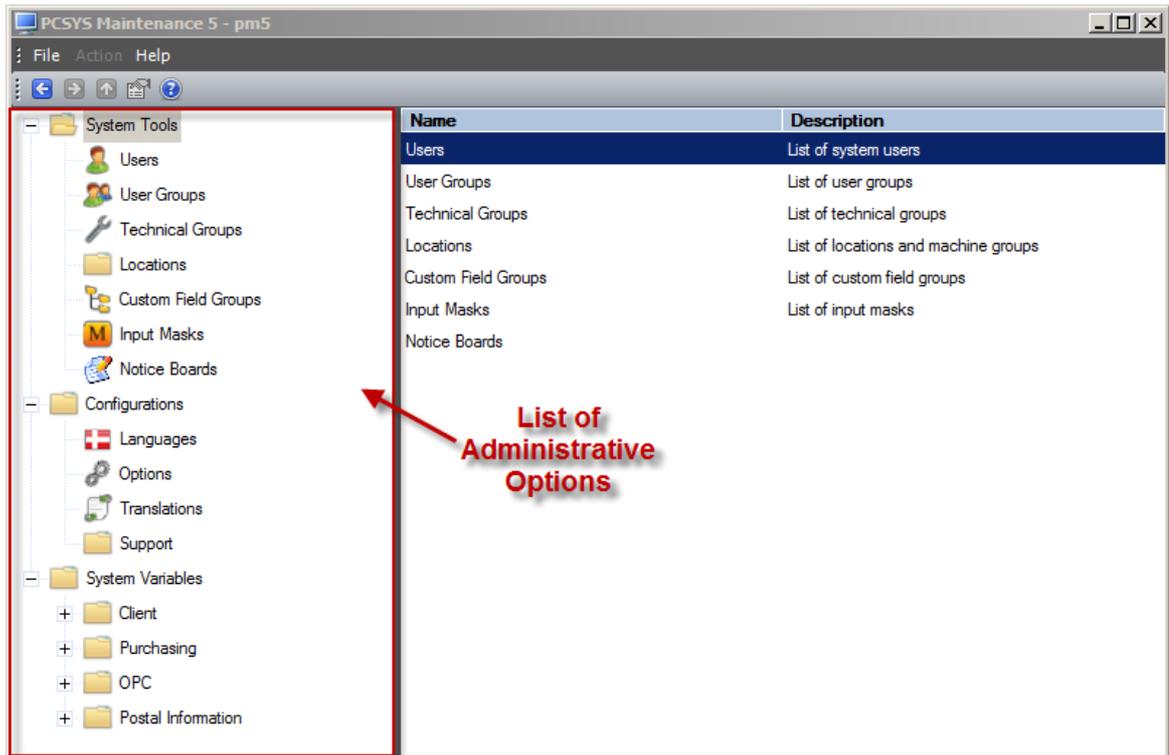
3 Administration Module

The following help files will give an in-depth introduction to the setting up of main administrative settings of PM5. If you are a user looking to use the more basic features of PM5 you are probably looking for the client application. You will find this by clicking [here](#).

To access the Administration Module you need to log in to PM5 with a user with administrator access. You will then see the main application screen. In the top of the screen is a menu where you will find the item called "Tools". After clicking on it a small menu dialog will appear. On this you will find the button leading to the administration module.



After clicking on it you will be presented to the administration module dialog,



As you will see there are three main administrative parts which can be configured from here; System Tools, Configurations and System Variables.

System Tools allows you to create new (and modify existing) Users, User Groups, Technical Groups, Locations, Custom Field Groups, Input Masks and Language.

Configurations allows you to modify Registration Information.

System Variables allows you to create new (and modify existing) variables for Client, Purchasing and OPC.

Read the sub-chapters to this file to learn more on each of the administrative settings that PM5 offers.

3.1 Users

A user is someone who has an account which has access or formerly had access to the PM5 system. It is only when we start setting up their specific rights that they will differ in terms of what they can do and what they can see.

Let us first look at the specific information that a user consists of.

Information

Us The User ID is what users will use to log in to both PM5. It is similar to what in many other systems is called User ID. The User ID must be unique for the system. Once we have created the user ID we will not be able to change it again, so please enter the correct name initially.

Fir The First Names of the user.
st
Na
me

La The Last Name of the user.
st
Na
me

De The Description refers to the job title of the user in your business.
scr
ipti
on

Em The Email of the user.
ail

Mo The Mobile Number of the user.
bile
Nu
mb
er

Pa The Password is a set of characters that is used in combination with the User ID to identify whether or not the user is allowed to log in to PM5. Included in the default installation is the User ID "pm5" and Password "pm5." You can immediately use "pm5" as the password. When creating a new user you will be asked to confirm the password to make sure that you typed correctly.
d

Def The Default Language determines the language used in PM5. You can choose from Czech, Danish, Dutch, English, French, German, Italian, Norwegian, Polish, Portuguese, Russian or Swedish as the Default Language.
t
La
ng
ua
ge

Aut Auto update decides how often a user's activities/faults list will refresh itself when a user has the application open. If Auto update is checked, the activities/faults list will automatically reload. If Auto update is unchecked, the list will not automatically reload.
o
up
dat
e
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Lo Login Privilege determines whether the user is allowed to log in to PM5 or not. If a User has a Login Privilege, the User ID and Password can be used for logging into PM5 Admin and PM5 Client. If you have an employee who no longer works for the company (he may have left the company), you should remove his login privilege. The reason for not deleting him is that the login information of what he did is still relevant to know for other users even though the employee may never actually log in again.

Information

Always Access is used to reserve slots for users. To get a good understanding of this feature, the *Maximum Number of Users Allowed To Login* needs to be explained first.

ys

The *Maximum Number of Users Allowed To Login* refers to the number of users that can log in to PM5. This is determined by the license purchased for PM5. If a five (5) user license was purchased, then the *Maximum Number of Users Allowed To Login* is five (5) users. If a ten (10) user license was purchased, the *Maximum Number of Users Allowed To Login* is not the same as the *Maximum Number of Users That Can Be Created* is

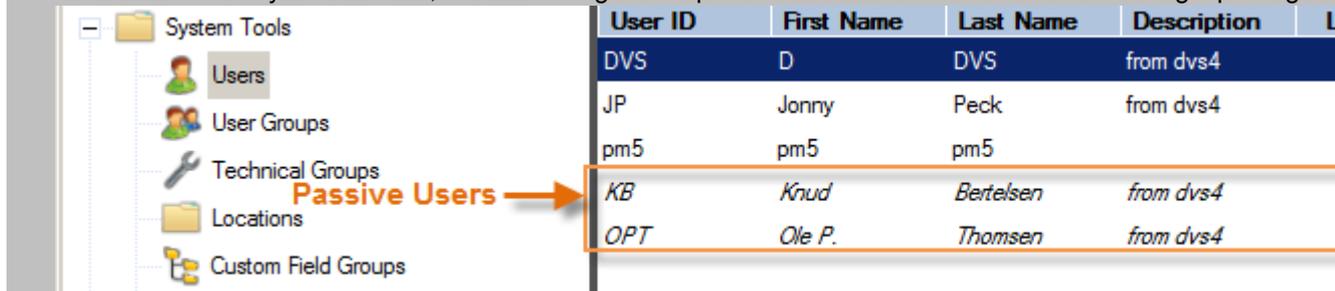
not limited by the license; you can create an unlimited number of users with any license.

Going back to Always Access, let us say you purchased a ten (10) user license for PM5 and your business has eleven (11) users. Now, eleven (11) of your users have Login Privileges and one (1) does not have a Login Privilege (possibly where Login Privilege = False). Out of the eleven (11) users that have Login Privileges, two (2) users have Always Access privileges (they do not have regular login privileges). Now, because you purchased a ten (10) user license, out of eleven (11) users, the *Maximum Number of Users Allowed To Login* is ten (10) users.

Does this mean that you can only ten (10) out of eleven (11) users can log in all at the same time? Yes, however, recall that you have two (2) users with Always Access privileges. This means that those two (2) users always have login privileges. So, out of the nine (9) users that have regular login privileges, only eight (8) users can login at any time because two (2) slots are always reserved for the two (2) users that have Always Access privileges.

Always Access is useful for Administrators because it makes sure that the user will always be able to login if they need to be configured (i.e. resetting the Logged In status of a user to allow him to login again).

A passive user is one who we no longer will want to assign e.g. tasks or in other ways be able to relate to in connection with assignments in the system. Passive users will never have login privileges, no matter if this setting is set to true or false. Your business can take advantage of the passive users feature by assigning the passive status to users who are on leave or have moved on to a different, unrelated position in your business. This allows you to keep a record of users who have used PM5 in your business, without mixing them up with those users who have never had login privileges.



User ID	First Name	Last Name	Description
DVS	D	DVS	from dvs4
JP	Jonny	Peck	from dvs4
pm5	pm5	pm5	
KB	Knud	Bertelsen	from dvs4
OPT	Ole P.	Thomsen	from dvs4

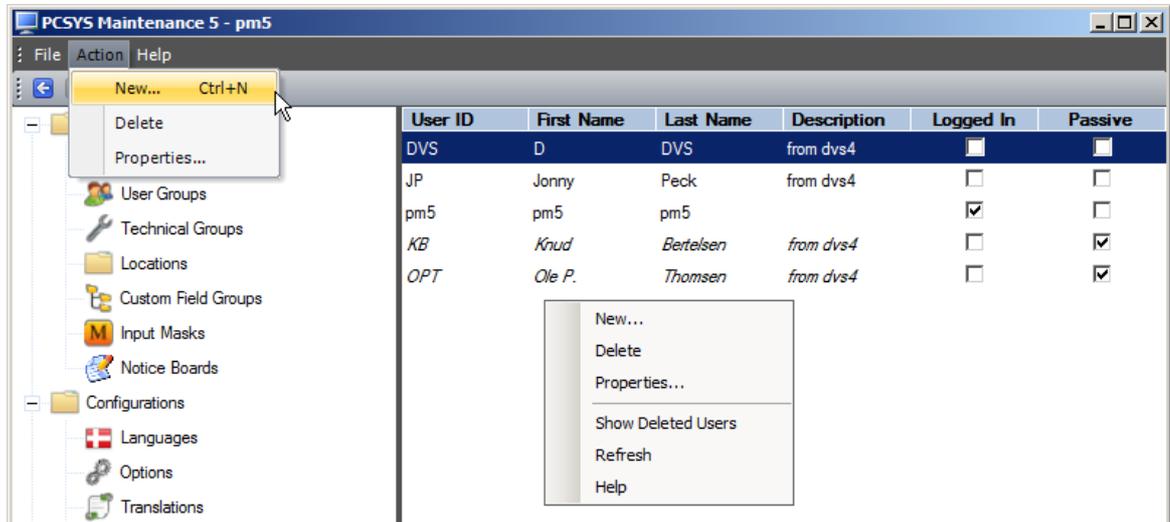
It is possible to force users out of the system by removing the check-mark of a user in the "Logged in" column. This can be useful if a user is assumed to just have left his connection open and is taking up space without actively using the system.

ed

In

3.1.1 Adding, editing and deleting users

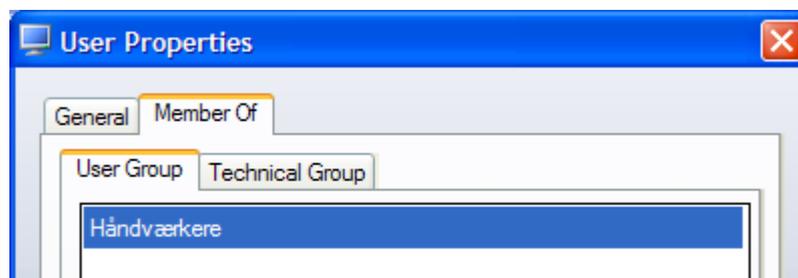
The user list shows a number of columns to help identify the users that you have in your system. Notice the columns "Logged in" and "Passive" that allow you to immediately change these settings for individual users on the list. Clicking these columns will have an immediate effect on the database and system. To understand the two settings please read the "[Users](#)" page.



The Administration Module User List - Showing how to add, delete and edit users

There are two ways in which we can perform actions on the list. One is via using the drop down menu for item "Action" and the other is via right clicking anywhere on the list area. The Actions that are offered are:

Action	Description
New ...	When creating a new user you will open the "New user" dialog. Here you must specify some of the general information and settings of a user. To learn more on these settings please read the " Users " page.
Delete	If you accidentally created a user you do not need you can delete it. Deleted users are both passive and have no login privileges. You should never delete users who used to work for the company. Just make them passive in order to easily remember the employees that historically have worked in the system,
Properties ..	Properties is used to edit existing users. It will offer almost the same settings as the Add page, but update of password is done as an individual process rather than together with the editing of the rest of the user information. To learn more on each of the user properties on the General tab please read the " Users " page.



Besides the General tab you will also notice a "Member of" tab. This tab is used to

Action	Description
	specify which groups a user should be member of. The two sub tabs offer membership of "User Groups" and "Technical groups". Each tab has an "Add" and "Remove" button to manage which groups of the specific type that the selected user is made member of. Please go to the User Groups file or Technical Groups file to learn more on what these types of groups are used for.
Show Deleted Users	Deleted users are never actually "Destroyed". They will still exist in the database but just not be shown in the system. If you want to see the users that have been deleted from the system or even restore them from their deleted state, you can use this action to get access to the deleted users list dialog.
Refresh	Refresh is used to reload the information of the user list. This may be necessary if other people are working on the list at the same time.
Help	When clicking help the user will always be directed to the help file relevant for the page he is currently looking at.

3.2 User Groups

User Groups provide a way to assign Privileges, Locations as well as specify how the Interfaces should look for a group of Users. By applying these settings on groups rather than on each individual user we make sure that these settings are easier to maintain as well as it is quicker to apply to users. Any user that is member of a User Group will inherit the settings of that User Group. If a user is member of more than one User Group, then the combined access settings of the User Groups he is member of, will make up the total access that he has as a User in the system.

We will in the following go through each of the main access settings that can be granted to a User Group. Then on the related sub pages we will teach you how to actual apply and set up a new User Group.

Main Information

The main settings of a User Group are quite simple. They just consist of a name, description and the array of Users belonging to it. There is no restriction on Users being member of more than one User Group at a time.

Privileges

Privileges are permissions to perform specific actions. For example, the ability to "Approve faults" is a Privilege.

Here is a complete list of the Privileges available in PM5 Admin.

Privilege	Description
Main dataset	Main Dataset grants Users the privileges of creating new, copying, editing and deleting Machines, Tasks, Spare Parts, Suppliers and Activities. It also allows Users to access the Consumption Tool and to generate Reports.
User	The "User" privilege gives Users the ability to create, edit and delete Users and User Groups.
Group	Group privilege allows Users to create new, edit and delete "Groups" in PM5 Admin. It also allows Users to generate Reports.
Task	Task Creation grants Users the right to create, delete and edit Tasks. It also allows

Privilege	Description
creation	Users to access the Consumption Tool and to generate Reports.
Task limited	Task Limited grants Users the right to create "one-time" Tasks. "One-time" Tasks are Tasks that do not have an interval and are performed only once. This privilege also allows Users to generate Reports.
Activities ack. privilege	Activities ack. privilege gives Users the ability to mark activities as "done" in PM5 Client.
Activity creation	Activity Creation gives Users the ability to create a new activity for tasks that are not active. It also allows users to mark activities as "done."
Remove activity news marking	Remove Activity News Marking grants Users the right to change the way new Activities appear in PM5 Client. By default, a new Activity appears "bold," as in "Service oil 30 days." When Users have this right, once they Edit a new Activity, its appearance will change from "bold" to "not bold."
Fault privilege	Fault Privileges gives Users the rights to create new faults, delete faults and mark them as "Solved" or "Not Solved." It also gives the rights to create new Stops and delete existing Stops.
Remove fault news marking	Remove Fault News Marking grants Users the right to change the way new Faults appear in PM5 Client. By default, a new Fault appears "bold," as in "Service oil 30 days." When Users have this right, once they Edit a new Fault, its appearance will change from "bold" to "not bold."
Approval	Approval gives Users the ability to approve faults. This means that Users who have this privilege will be shown in the "Approved By" list.
Storage privilege	Storage Privilege grants Users the right to create, copy, edit and delete Spare Parts and Suppliers and it gives the right to allocate Spare Parts to Stores. It also allows Users to access the Consumption Tool and to generate Reports.
Purchase/ Spare part	Purchase / Spare Part gives Users the ability to use the Purchase Module, the ability to create, copy, edit and delete Spare Parts and Suppliers and the right to allocate Spare Parts to Stores. It also allows Users to access the Consumption Tool and to generate Reports.
Attachment	Ability to create, delete and edit attachments.
Advance Pocket PC	Advance Pocket PC grants Users access to the standard and advanced functions of the bar code scanner.
Basic Pocket PC	Basic Pocket PC grants Users access to the standard functions of the bar code scanner.
Replace Spare Part	Replace Spare Parts gives Users the ability to replace one spare part with another in all associations between spare part that is to be replaced with its Machines, Tasks and Activities/Faults.
Merge Spare Parts	Merge Spare Parts grants Users the ability to merge or combine one spare part with another in all associations between spare part that is to be merged with its Machines, Tasks, Stores and Attachments.
Delete Spare Parts	Delete Spare Parts gives Users the ability to delete spare part and all its associations. Spare Parts that are deleted are set to 'Inactive' status.

Tabs

Setting in tabs decide which main as well as sub tabs that users of a specific group will see.

The below list shows the main tabs and related sub tabs that a User Group can be granted access to. If a user is not member of a group that has access to any of the listed tabs, he or she will also not be given this tab upon login to the system.

Main Tab	Sub Tabs
Machines	Details, Tasks, Activities, Spare Parts, Faults, Stop, Attachments
Tasks	Details, Activities, Spare Parts, Calibration, Attachments
Spare Parts	Details, Machines, Consumptions, Stores, Suppliers, Attachments
Suppliers	Details, Machines, Spare Parts
Activities / Faults	Details, Spare / Parts, Calibration / Stop

Locations

This tab will list all the Locations that have been added to the system, so that it is possible to give access to each single one of these. If a user is not member of a User Group that has access to a location, then that location will not be shown to this user when he logs in.

There are four check states in marking the check box in Locations: Blank state, Checked state, Checked gray or Boxed state and Unchecked and Name in Italic state.

Blank = No rights

Checked = All rights

Checked Gray or Boxed = Rights to the location and the machines selected and machines that you create.

Unchecked and Name in Italic = No rights to the location but there is some rights further down the tree for other sub-locations.

3.2.1 Suggested User Groups

By default the system has a number of default user groups set up. You are free to remove these as you like, but they give some idea of the types of User Groups that typically are created in the system.

Below is a table that summarizes the suggested User Groups. Beside each User Group Name are the User Group Privileges that are to be checked.

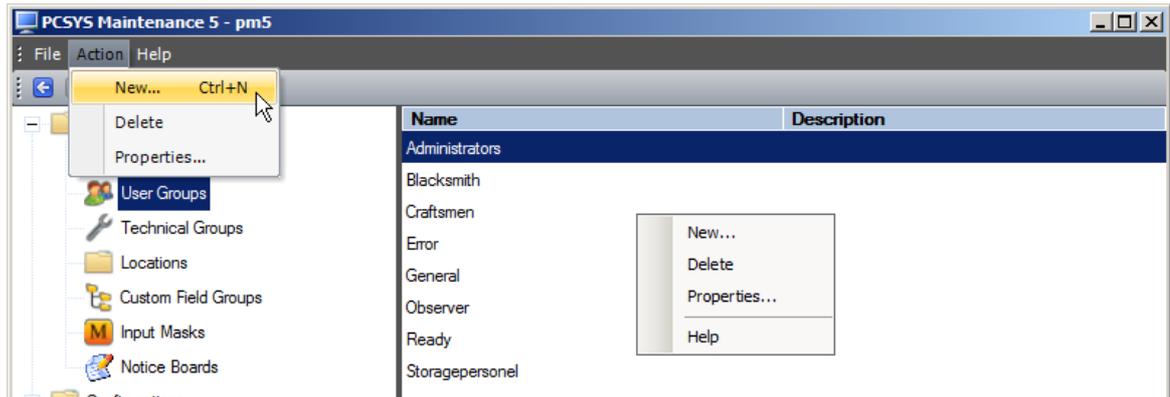
User Group Name	User Group Privileges
Craftsmen	Activities Ack. Privilege, Remove Activity News Marking, and Remove Fault News Marking
Failure	Fault Privileges, and Remove Fault News Marking
Personnel of Stocks	Storage Privileges
Superior	All privileges except Task Creation

3.2.2 Adding, editing and deleting User Groups

The following page will introduce how to add, edit and delete User Groups. If you want to understand the information and settings of User Groups please [click here](#) to read its description.

Let us initially look at where to access the three buttons for Add, Edit and Delete.

When in the Administrator dialog choose the User Groups menu item. After this you will see the existing User Groups that exist in the system. If you want to delete or edit a User Group you must highlight it in the list and then click either the 'Delete' or 'Properties...' (edit) buttons. These can be accessed either via the drop down 'Action' menu item or via right clicking in the list area. If you are adding a new User Group (button 'New...') you need not have any record highlighted.



The Administration Module User Group List - Showing how to add, delete and edit User Groups

After clicking 'New..' you will get a small dialog where only User Group name and Description can be inserted. Only the name is actually required.



The Administration Module User Group Add Form

When you have finished setting the Name and Description of the User Group click the 'Add Group' button.

Since you will be required to also set a number of other settings for a User Group you should after creation highlight the new group and click the 'Properties...' button. This will open up the User Group edit dialog. Below we will go through the 4 tabs where User Group information can be set up in.

The screenshot shows a window titled "User Group Properties" with a close button (X) in the top right corner. The window has four tabs: "General", "Privileges", "Locations", and "Tabs". The "General" tab is selected. Below the tabs, there is a group icon of three people and the text "Administrators". Underneath, there is a "Description" label followed by an empty text input field. Below that is a "Members" label followed by a table with one row and three columns. The first column contains "pm5", the second contains "pm5 pm5", and the third is empty. Below the table are two buttons: "Add" and "Remove". At the bottom right of the window are "Ok" and "Cancel" buttons.

Members		
pm5	pm5 pm5	

The Administration Module User Group Edit Form - The 'General Information' Tab

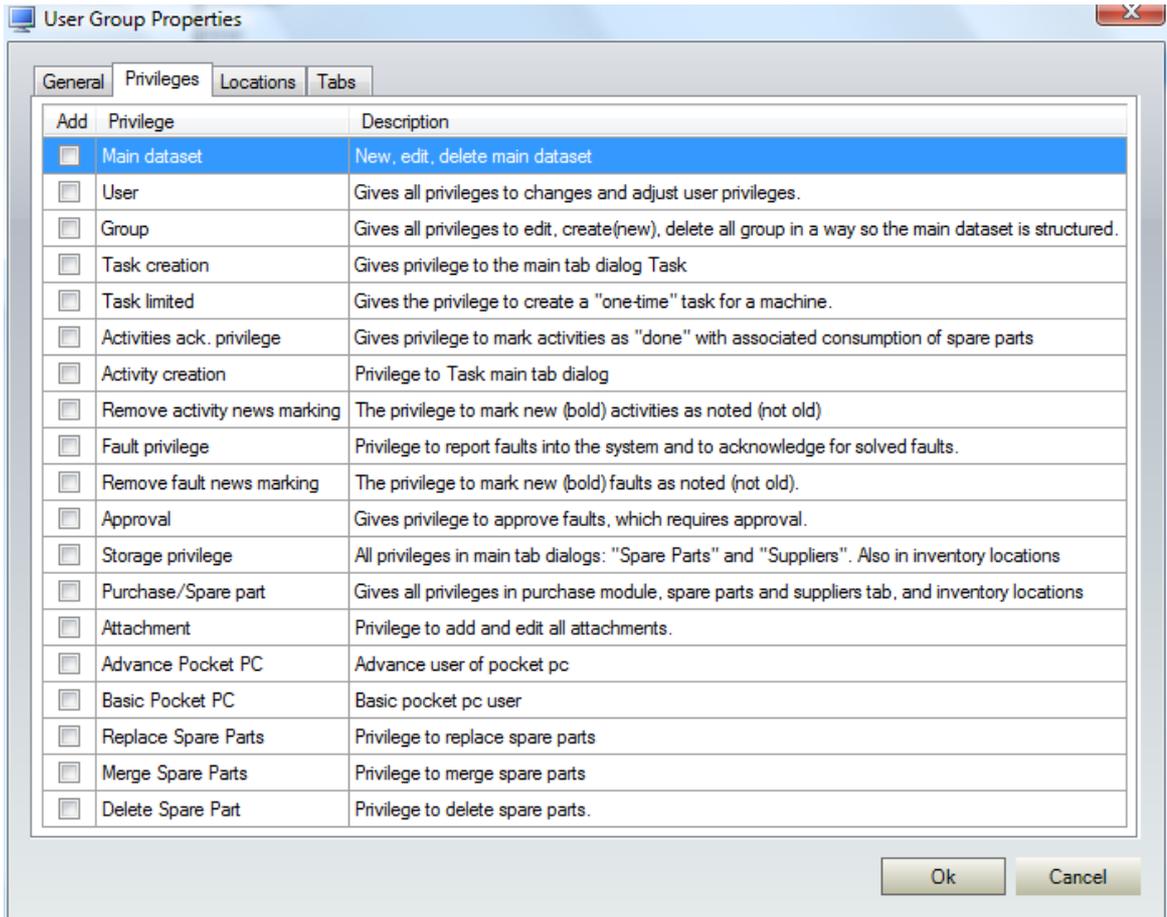
On the General tab of User Group it is possible to add those Users that should be member of the specific group. By clicking the 'Add' button you will open a small dialog where you can choose among existing users in the system and insert them. To remove a user form the group highlight it and click the 'Remove' button.

User ID	First Name	Last Name	Description
ABCDABCD...	John	Doe	Report Test
Observer A	Observer	A	
Observer B	Observer	B	
Observer C	Observer	C	
Techie A	Techie	A	
Techie B	Techie	B	
Techie C	Techie	C	
Techie Global	Techie	Global	
User A	User	A	A security agr...
User B	User	B	Ett märkespla...
User C	User	C	

The Add User Form of Administration Module User Group Form

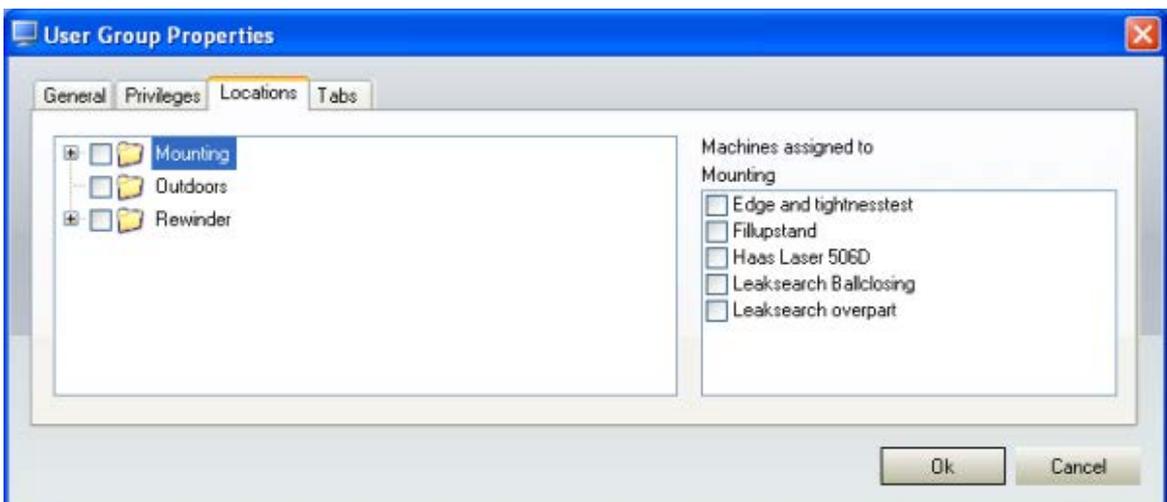
Starting v5.06, a Quick Filter is introduced in the Add User's form. If you have a long list of users in your application, quick filter can help you find person/s easily on your list. Just enter the corresponding values on the fields of the filter then click 'Search' to apply it.

The Privilege tab specifies the modules and features that Users of the User Group will have access to. Just check the modules and features that are relevant for the group and the Users will have these privileges granted on their next log in.



The Administration Module User Group Edit Form - The 'Privileges' Tab

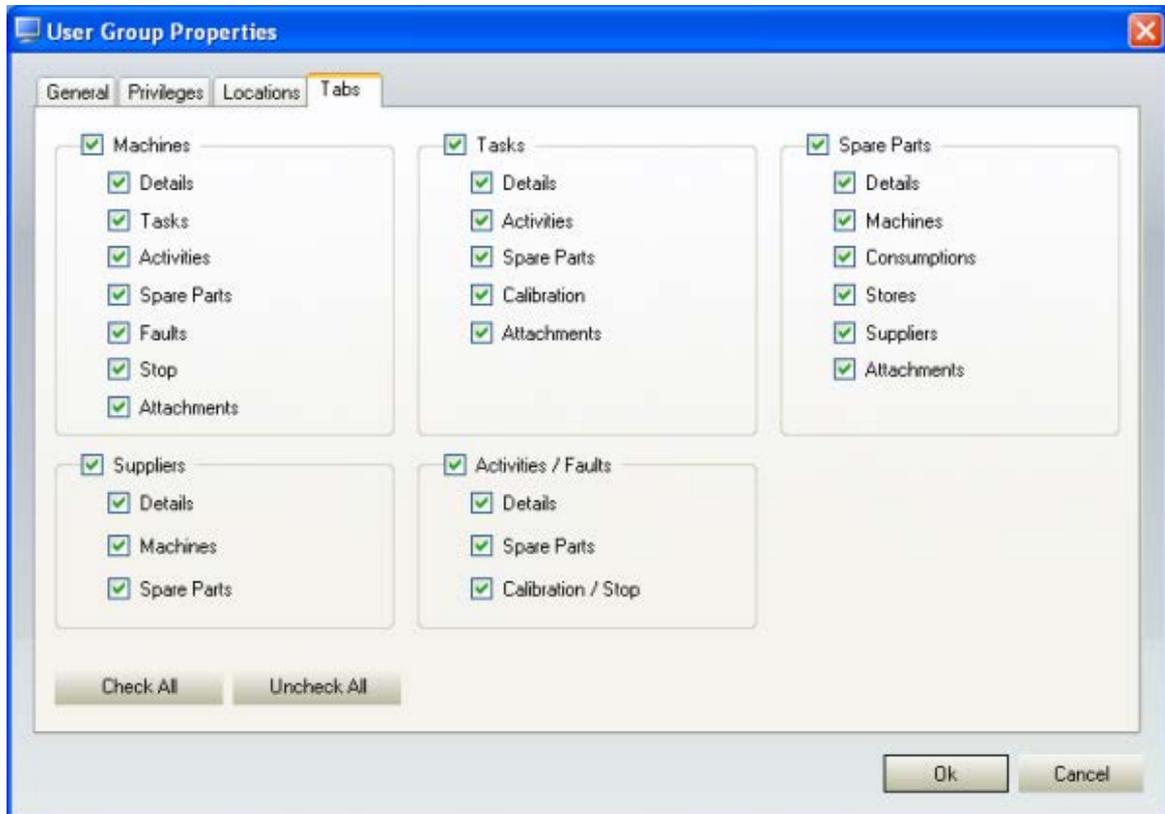
The Locations tab specifies which general Locations that Users of the User Group will have access to.



The Administration Module User Group Form - The 'Locations' Tab

As you will see the locations are organized in hierarchies. Tick off any location that you want

members of the User Group to have access to. For each location there may be multiple machine types related. Once you choose a location you can then also specify which machine types members of the User Group will have access to. Members will have access to all those locations and machine types that one of the User Groups, in which they are member, has access.



The Administration Module User Group Form - The 'Tabs' Tab

On the last tab of User Group Properties, it is possible to specify which tabs that members of the User Group will be able to see when logged in. The check and uncheck all button provide an easy way to update all check boxes at once.

3.3 Technical Groups

If there are already User Groups, why is there a need for Technical Groups? Technical Groups allow you to control which Users can be set as manpower resources for a Task in the PM5 Client. Setting manpower resources means specifying which group is responsible for carrying out the task.

Technical Groups are not used for controlling access as is the case with User Groups.

In the PM5 Client, you can set manpower resources for a Task only if the Users are members of a Technical Group that is assigned to the same Location as the Machine for which the Task is being performed.

For example, let's say you want to set manpower resources for a Task called **Mandatory service**, which is being performed for a Machine called **1 BT truck Cargo 1,5** that is in the Location called **Outdoors**. Let's say you want to use as a manpower resource the User called **JP** who is a member of the Technical Group **Blacksmiths**.

To do this, you need to make sure that a group that **JP** is member of, e.g. **Blacksmiths**, is assigned rights to the Location called Outdoors. Since the Machine called **1 BT truck Cargo 1,5** is in this location, then any task made on this machine can be assigned to **JP**.

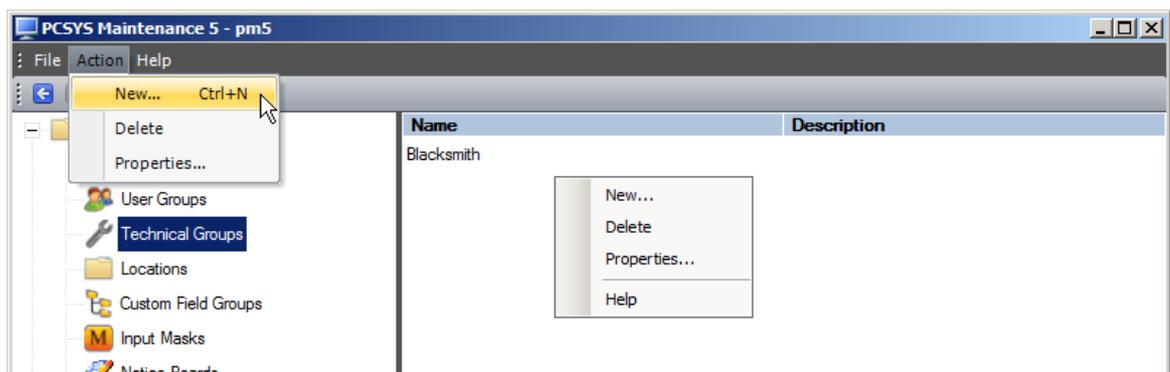
In the following sections, you will learn 'How to Create a Technical Group' and 'How to Add Members to a Technical Group'.

3.3.1 Adding, editing and deleting Technical Groups

The following page will introduce how to add, edit and delete Technical Groups. If you want to understand the information and settings of Technical Groups, please [click here](#) to read its description.

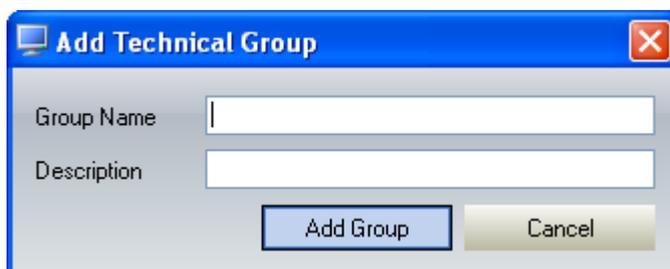
Let us initially look at where to access the three buttons for Add, Edit and Delete.

When in the Administrator dialog choose the Technical Groups menu item. After this you will see the existing Technical Groups that exist in the system. If you want to delete or edit a Technical Group you must highlight it in the list and then click either the 'Delete' or 'Properties...' (edit) buttons. These can be accessed either via the drop down 'Action' menu item or via right clicking in the list area. If you are adding a new Technical Group (button 'New...') you need not have any record highlighted.



The Administration Module Technical Group List - Showing how to add, delete and edit Technical Groups

After clicking 'New..' you will get a small dialog where only User Group name and Description can be inserted. Only the name is actually required.



The Administration Module Technical Group Add Form

When you have finished setting the Name and Description of the User Group click the 'Add Group' button.

Since you will be required to also set the included users of a Technical Group you should after creation highlight the new group and click the 'Properties...' button. This will open up the Technical Group edit dialog. Below we will go through the 2 tabs where User Group information can be set up in.

The screenshot shows a dialog box titled "Technical Group" with two tabs: "General" and "Locations". The "General" tab is active. At the top left of the main area is a wrench and screwdriver icon. The group name "Blacksmith" is displayed in a large font. Below it is a "Description" text box. Underneath is a "Members" section containing a table with two columns. The table lists the following members:

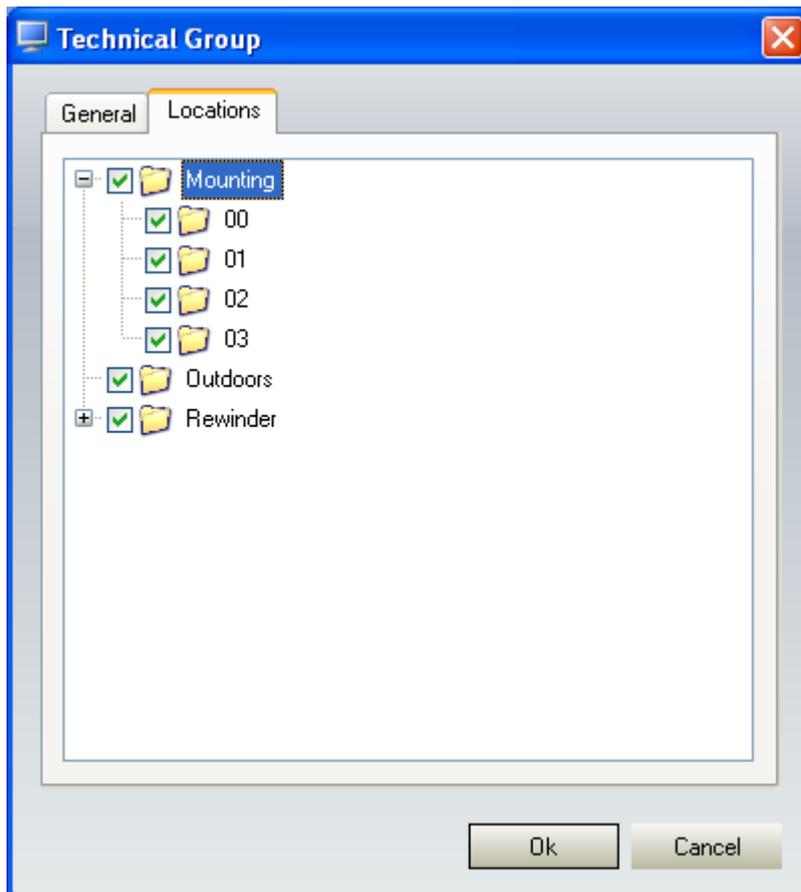
DVS	D	DVS
JP	Jonny	Peck

Below the table are "Add" and "Remove" buttons. At the bottom of the dialog are "Ok" and "Cancel" buttons.

The Administration Module Technical Group Edit Form - The 'General Information' Tab

On the General tab of Technical Group it is possible to add those Users that should be member of the specific group. By clicking the 'Add' button you will open a small dialog where you can choose among existing users in the system and insert them. To remove a user form the group highlight it and click the 'Remove' button.

The Locations tab specifies which general Locations that Technical Group will be used for.



The Administration Module Technical Group Form - The 'Locations' Tab

3.4 Locations and Machine Groups

Locations and Machine Groups are used to group Machines and their associated Tasks, Spare Parts, Suppliers, Activities and Faults. This will allow you to organize your Machines based on where they are and what they do.

Why are there two kinds of groups?

There are two kinds of groups because it allows you to distinguish between physical locations and product categories.

Locations are used refer to actual places and Machine Groups are used to group Machines by their type.

For example, you could have a car dealership with Locations in "Denmark," "USA" and "England" and Machine Groups "Cars," "SUVs" and "Multi-Purpose Vehicles."

You could also have a car factory that's located in "Copenhagen" and have multiple locations that simply refer to places inside your factory. For example, inside the location "Copenhagen," you could have the locations "Assembly Line," "Painting Area" and "Car Wash" and, depending on the engine of the car, you could have the machine groups "Diesel," "Gasoline" and "Electric."

The following paragraphs tell you more about what can be done and what can not be done with

Locations and Machine Groups.

Can I Create a Location within a Location?

You are allowed to create a Location within a Location. So, if you want to create a Location called "Detailing" in "Painting Area," you can.

Locations	Stores	Inherited Stores
[-] PMS (Location)		Blank
[+] Mounting (Location)		Blank
[+] Rewinder (Location)		Blank
Outdoors (Location)		Blank
[-] Copenhagen (Location)		Blank
Assembly Line (Location)		Blank
[-] Painting Area (Location)		Blank
[+] Detailing (Location)		Blank
Car Wash (Location)		Blank

A Location within another Location

Can I Create a Machine Group within a Location?

You can create Machine Groups within a Location. This means that if you want to create a machine group called "Washers" inside the Location "Car Wash," you can.

Locations	Stores	Inherited Stores
[-] PMS (Location)		Blank
[+] Mounting (Location)		Blank
[+] Rewinder (Location)		Blank
Outdoors (Location)		Blank
[-] Copenhagen (Location)		Blank
Assembly Line (Location)		Blank
[-] Painting Area (Location)		Blank
Detailing (Location)		Blank
[-] Car Wash (Location)		Blank
[+] Washers (Machine Group)		Blank

A Machine Group within a Location

Can I Create a Machine Group within a Machine Group?

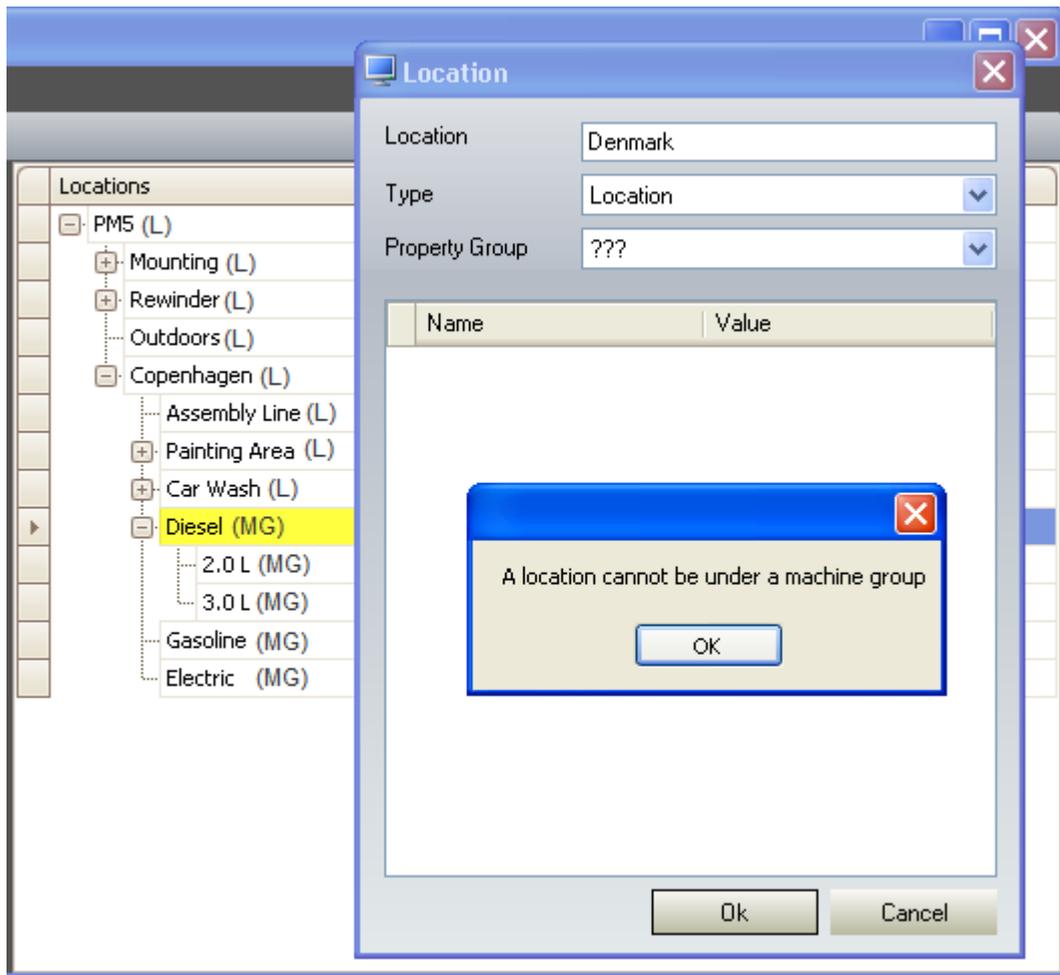
It is legal in PM5 to create a Machine Group inside a Machine Group. So, if you want to create Machine Groups for "Diesel" called "2.0 L" and "3.0 L," you can.

Locations	Stores	Inherited Stores
[-] PMS (Location)		Blank
[+] Mounting (Location)		Blank
[+] Rewinder (Location)		Blank
Outdoors (Location)		Blank
[-] Copenhagen (Location)		Blank
Assembly Line (Location)		Blank
[+] Painting Area (Location)		Blank
[+] Car Wash (Location)		Blank
[-] Diesel (Machine Group)		Blank
2.0 L (Machine Group)		Blank
3.0 L (Machine Group)		Blank
Gasoline (Machine Group)		Blank
Electric (Machine Group)		Blank

Machine Groups with a Machine Group

Can I Create a Location within a Machine Group?

You cannot make a Location within a Machine Group. If you want to create a Location called "Denmark" in the Machine Group "Diesel" you will not be allowed to.



Error Message when trying to create a Location inside a Machine Group

Can I Create Locations with the Same Name?

You can create Locations with the same name as long as they are not on the same level. For example, you can have three Locations called "Car Wash" if they are inside different locations. Keep in mind that these three Locations with the same name are independent of each other, which means that the Machines in the "Car Wash" in "Copenhagen" are different from the machines in the "Car Wash" in "Odense."

Locations	Stores	Inherited Stores
[-] PMS (Location)		Blank
[+] Mounting (Location)		Blank
[+] Rewinder (Location)		Blank
Outdoors (Location)		Blank
[-] Copenhagen (Location)		Blank
Car Wash (Location)		Blank
[-] Århus (Location)		Blank
Car Wash (Location)		Blank
[-] Odense (Location)		Blank
Car Wash (Location)		Blank

Three Locations with the same name in different levels

Can I Create Machine Groups with the Same Name?

You can also create Machine Groups with the same name but in different levels. Keep in mind that these three Machine Groups are independent of each other, which means that Machines in the "Diesel" Machine Group in "Copenhagen" are different from the machines in the "Diesel" in "Odense."

Locations	Stores	Inherited Stores
[-] PMS (Location)		
[+] Mounting (Location)	Stock B3;L10, bought via Intra...	
[+] Rewinder (Location)	Shop;Drawerstock;Sattelitest...	
Outdoors (Location)	Stock B3;L10, bought via Intra...	
[-] Copenhagen (Location)		
Diesel (Machine Group)		
[-] Århus (Location)		
Diesel (Machine Group)		
[-] Odense (Location)		
Diesel (Machine Group)		

Three Machine Groups with the same name in different levels

How you choose to make use of Locations and Machine groups depends on you and the type of your business. The important thing to remember is that they are there to help you get your Machines organized.

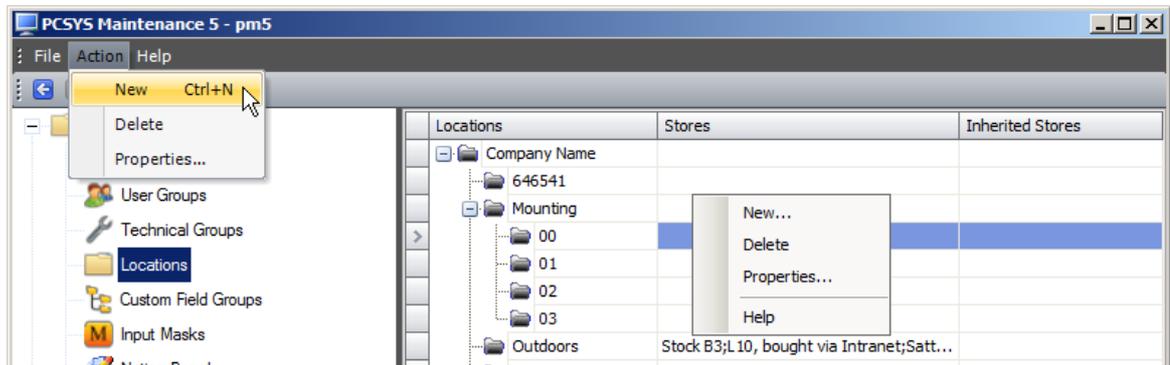
3.4.1 Adding, editing and deleting Locations

The following page will introduce how to add, edit and delete Locations. If you want to understand the information and settings of Locations, please [click here](#) to read its description.

First, let us look at where to access the buttons for Add, Edit and Delete.

When in the Administrator dialog choose the Locations menu item. After this you will see the existing Locations and Machine Groups that exist in the system. If you want to delete or edit a Location or Machine Group you must highlight it in the list and then click either the 'Delete' or 'Properties...' (edit) buttons. These can be accessed either via the drop down 'Action' menu item or

via right clicking in the list area. If you are adding a new Location or Machine Group (button 'New...') you do not need to have any record highlighted.



The Administration Module Locations Tree - Showing how to add, delete and edit Locations

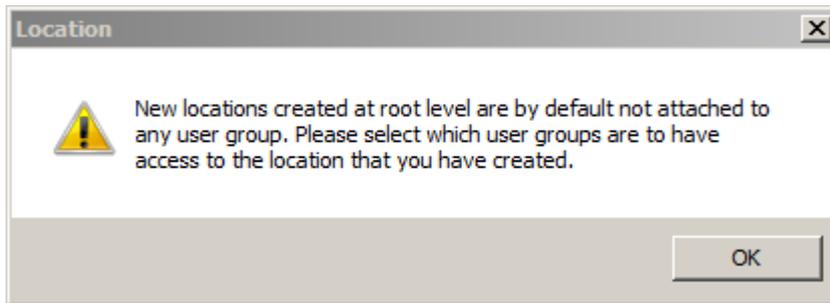
After clicking 'New..' you will see a dialog where Location and Type and Property Group can be selected. Location and Type are required. For more information on the different types (Location and Machine Group), please [click here](#). If you want to know more about Property Groups, please [click here](#).

The screenshot shows the 'Location' dialog box. It has a title bar with a close button. The dialog contains three input fields: 'Location' (empty), 'Type' (set to 'Location'), and 'Property Group' (set to '???'). Below these fields is a table with two columns: 'Name' and 'Value'. The table is currently empty. At the bottom of the dialog are 'Ok' and 'Cancel' buttons.

The Administration Module Locations Add Form

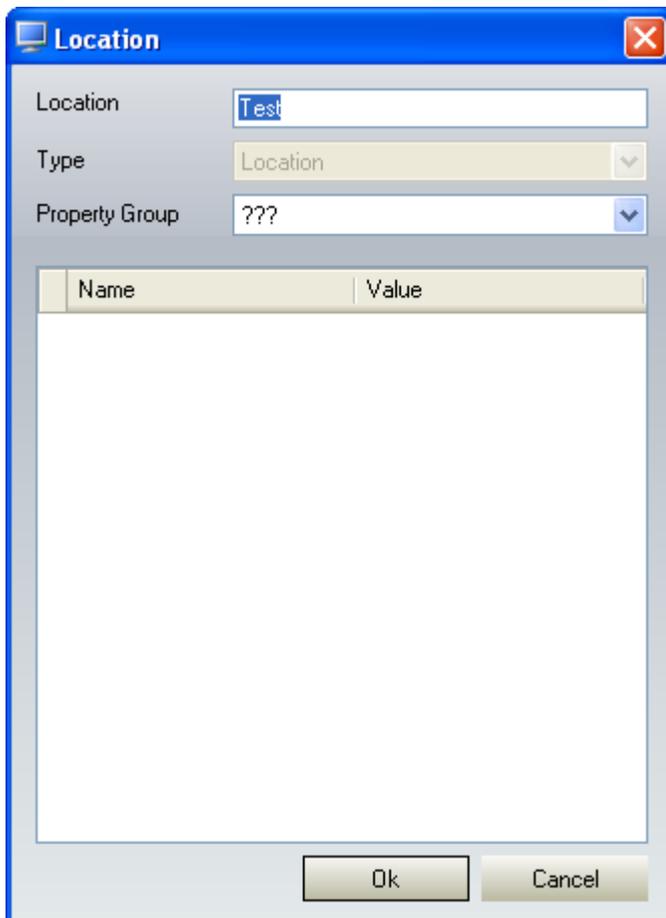
When you have finished entering a name for your Location or Machine Group, click the "Ok" button.

A notification is displayed whenever you create a Location at Level 1. It is a reminder that the Location created is not yet associated to any user group, hence will not be accessible in the client until you assigned it to a user group . Press the 'OK' button to continue.



Notification when User creates new Location at Level 1

Can I change the Type of a Location or Machine Group after creating it? Yes, but only if it does not have any child Locations or Machine Groups. If it has any Locations or Machine Groups under it, you will not be allowed to change its type.

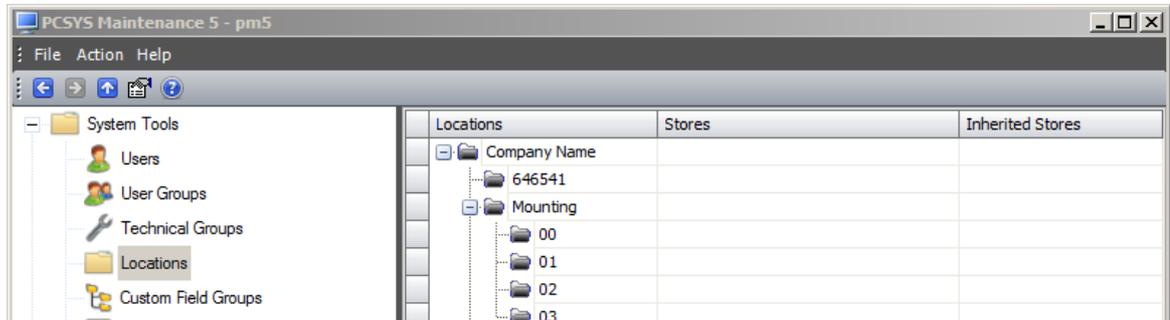


The Administration Module Locations Properties Form (Type is Locked)

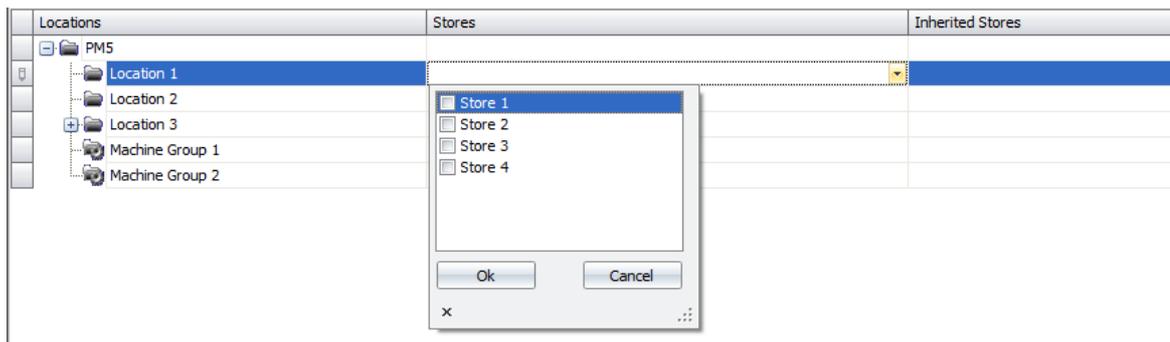
3.4.2 Assigning Stores to Locations and Machine Groups

The following page will introduce how to assign stores to locations. It allows you to control which Stores will be available in certain Locations. If you want to learn more about Stores, [click here](#).

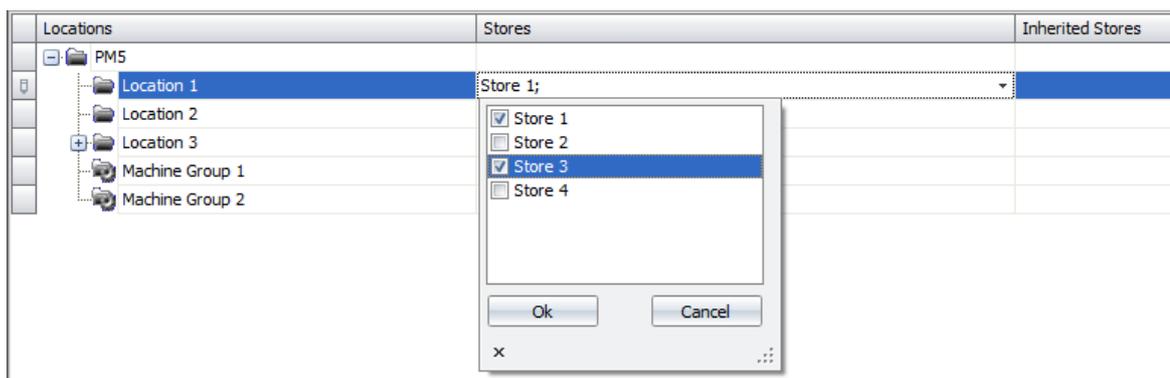
In the list of administrative module, select Location and you will be presented with your list of locations displayed in a tree view.



Select the location you want to assign a store, in the Stores column click on the arrow down symbol. A drop down checklist will show up, displaying all the possible Stores that can be assigned.



Simply place a check on the Store that you wish to associate to the current Location. Associations that already exist will show up as checked. Un-checking them will remove their association.



Click OK to save the association. The list of stores assigned to a location can be seen in the Stores column of Location. If the selected location has child locations, it will automatically inherit the stores

of its parent location.

Locations	Stores	Inherited Stores
PM5		
Location 1		
Location 2		
Location 3	Store 3;	
Machines 15 - 30		Store 3;
Machine Group 1		
Machine Group 2		

Inherited stores cannot be removed. However, you can still associate stores to a child location.

Locations	Stores	Inherited Stores
PM5		
Location 1		
Location 2		
Location 3	Store 3;	
Machines 15 - 30	Store 4;	Store 3;
Machine Group 1		
Machine Group 2		

Note 1: Stores that will be displayed in the client module depends on what stores are available in locations assigned to the user group where a user belongs. To learn how to assign locations to a user group, click [here](#).

Note 2: . For clients that are upgrading to v5.05, all Stores will be, by default, accessible on all Level 1 (top-level) Locations. This way, you can refine the Store-Location accessibility by refining it in the Admin module.

3.5 Custom Field Groups

What if you wanted to create new fields in PM5? Let's say you have a car and you want to define its color, fuel level and break-in date. How would you do that? You can create new fields in PM5 with Custom Field Groups. You can do this not just for your Machines but also for your Spare Parts, Suppliers, Tasks, Locations and Machine Groups.

Below is an example:

Group Name: Car

Type: Machines

Properties

Field	Type
Color	Text
Fuel Level	Number
▶ Break-in Date	Date
*	

Ok Cancel

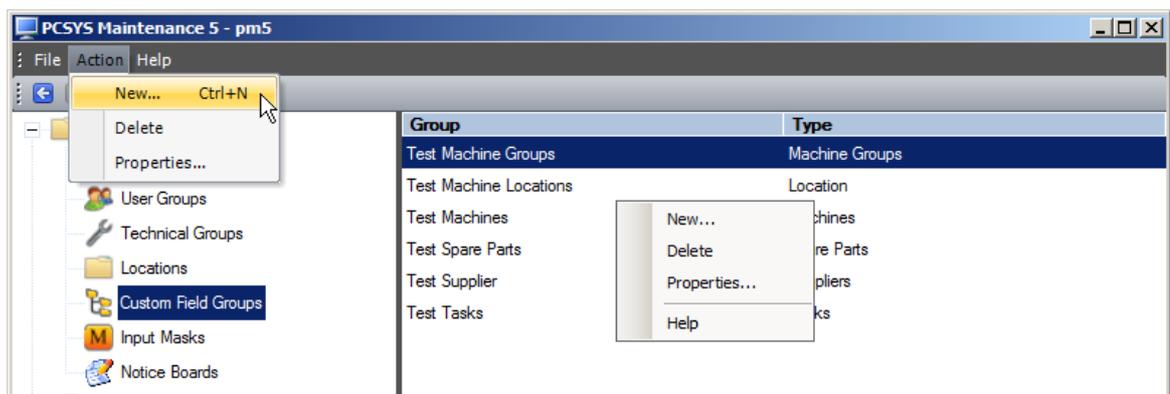
The Administration Module Custom Field Group Properties Form

After creating your Custom Field Group, you can immediately use it in your Machine.

3.5.1 Adding, editing and deleting Custom Field Groups

The following page will introduce how to add, edit and delete Custom Field Groups. If you want to understand the information and settings of Custom Field Groups, please [click here](#) to read its description.

Let us first look at where to access the buttons for Add, Edit and Delete.



The Administration Module Custom Field Group List - Showing how to add, delete and edit Custom Field Groups

After clicking 'New..' you will see a dialog where Group Name and Type and Properties (Fields and Types) can be defined. The Group Name, Type and at least one Property is required.

	Field	Type
*		▼

The Administration Module Custom Field Group Add Form

As you might have already read in the description of Custom Field Groups, you can create new fields for Machines, Tasks, Spare Parts, Suppliers, Locations and Machine Groups.

In Properties, you can choose between three types: Date, Number and Text.

If you choose Date, you'll only be allowed to enter valid dates such as "03 August 2009," "08/03/2009" and "August 3, 2009."

For a Number type, you can only enter numbers such as "0," "5491" and "9753124680."

Text allows you to enter letters, numbers and special symbols. For example, entering: "john.3.16@gmail.com" is a valid text input.

Below is an example of a Custom Field Group being used in the Client Application:

Custom Machine Properties

Group Name
Car

Color Silver

Fuel 753

Break-in Date 8/7/2009

Custom Machine Properties in Client Application

Can you delete a Custom Field Group if it is currently being used? No. PM5 will not allow you to delete Custom Field Groups that are currently being used in the Client Application. This way, it is much harder to accidentally wipe out a lot of custom data.

3.6 Input Masks

Input Masks allow you to automatically create input for fields. For example, if you create an input mask for Machine Number called "B1-#####," all your Machine Numbers will automatically have "B1-" as their first three characters. After that, you can enter any character for the last five. This means you could have "B1-99@ZZ" as a Machine Number.

Input Mask

Type
Machine Name

Input Mask
B1-#####

Sample Data
B1-99@ZZ

Ok Cancel

An Input Mask called "B1-#####"

In the above example, Sample Data allows you to test the Input Mask you've created.

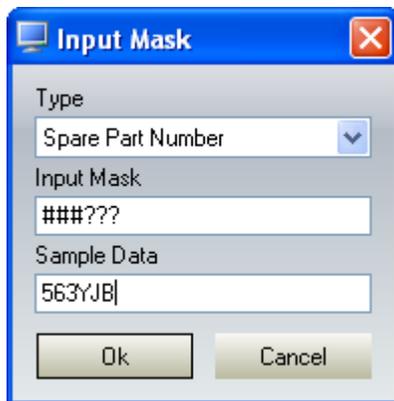
What characters are used to create an Input Mask? The table below shows you those characters and what they do:

Character(s)	Effect
1,2,3,4,5,6,7 and 8	Always forces 1,2,3,4,5,6,7 or 8 to appear
Uppercase and lowercase letter B , lowercase c and uppercase and lowercase letters D to Z	Always forces uppercase and lowercase letter B , lowercase c or uppercase and lowercase letters D to Z to appear
!, @, \$, %, ^, *, (,), {, }, [,], :, ;, ", ' , _ , - and +	Always forces the respective characters to appear

#, 0 or 9	Allows you to enter only numbers
?	Allows you to enter only letters
A or a	Allows you to enter only letters and numbers
& or C	Allows you to enter any character
\	Escape Character – Forces “wildcards” to be displayed

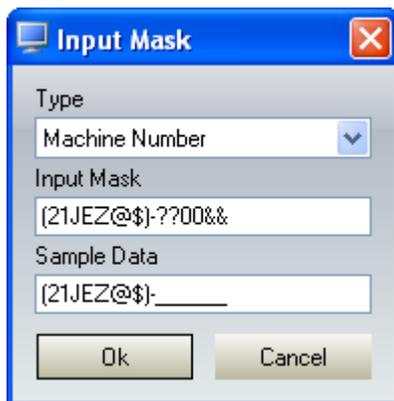
What fields can you create Input Masks for? You can create Input Masks for Machine Number, Machine Name, Spare Part Number, Spare Part Name, Account Number and Task Name.

For what other purpose can you use Input Masks? In addition to automated input, it also allows you to restrict input. Let's say you created an input mask called "###???". What happens then? With that input mask, you restrict the user to entering only numbers for the first three characters, only letters for the last three and a maximum of only 6 characters. This means that only input such as "563YJB" will be allowed. If you try to enter characters other than those in the Input Mask, you will not be allowed to.



An Input Mask called "###???"

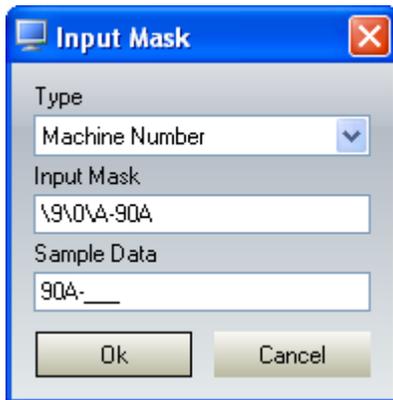
If you created an input mask called "(21JEZ@\$)-??00&&," you would get this result:



An Input Mask called "(21JEZ@\$)-??00&&"

What are wildcards? Wildcards are the characters #, 0, 9, ?, A, a, C and &. They do not appear in the field if they are part of the input mask. To force these wildcards to be included, you need to use the Escape Character "\." For example, if you want 90A to appear in an Input Mask, you would need

to create an Input Mask called "\9\0\A." The example below shows you what happens when wildcards are escaped:

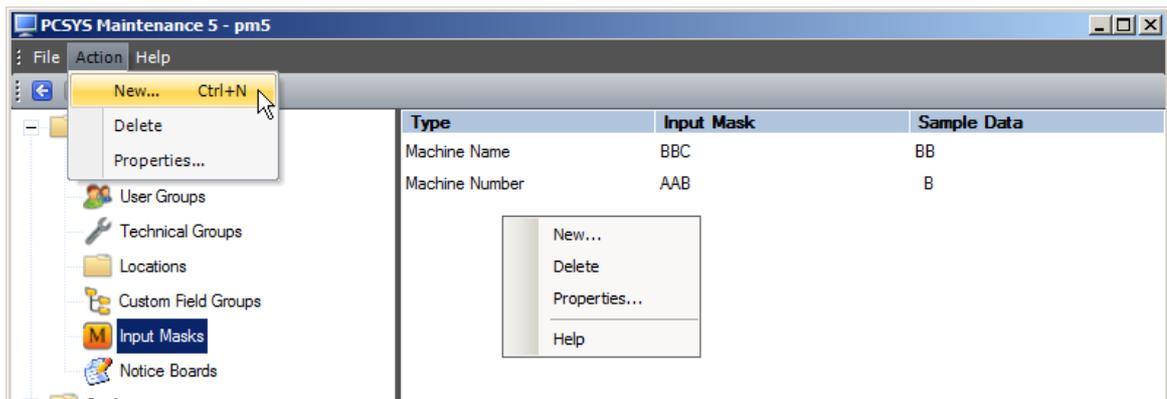


An Input Mask called "\9\0\A-90A"

3.6.1 Adding, editing and deleting Input Masks

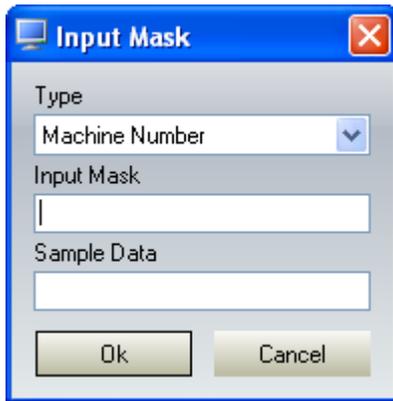
The following page will introduce how to add, edit and delete Input Masks. If you want to understand the information and settings of Input Masks, please [click here](#) to read its description.

First, let us look at where to access the buttons for Add, Edit and Delete.



The Administration Module Input Masks List - Showing how to add, delete and edit Input Masks

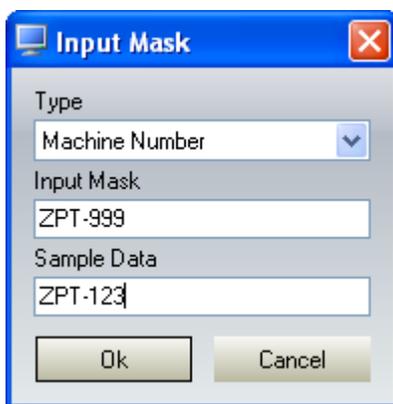
After clicking 'New..' you will see a dialog where Type and Input Mask can be defined. The Type and Input Mask are required.



The screenshot shows a dialog box titled "Input Mask". It has a "Type" dropdown menu currently set to "Machine Number". Below it is an "Input Mask" text field which is empty. Underneath that is a "Sample Data" text field, also empty. At the bottom of the dialog are two buttons: "Ok" and "Cancel".

The Administration Module Input Masks Add Form

When you have finished choosing the Type and entering the Input Mask, you can test the Input Mask in Sample Data.

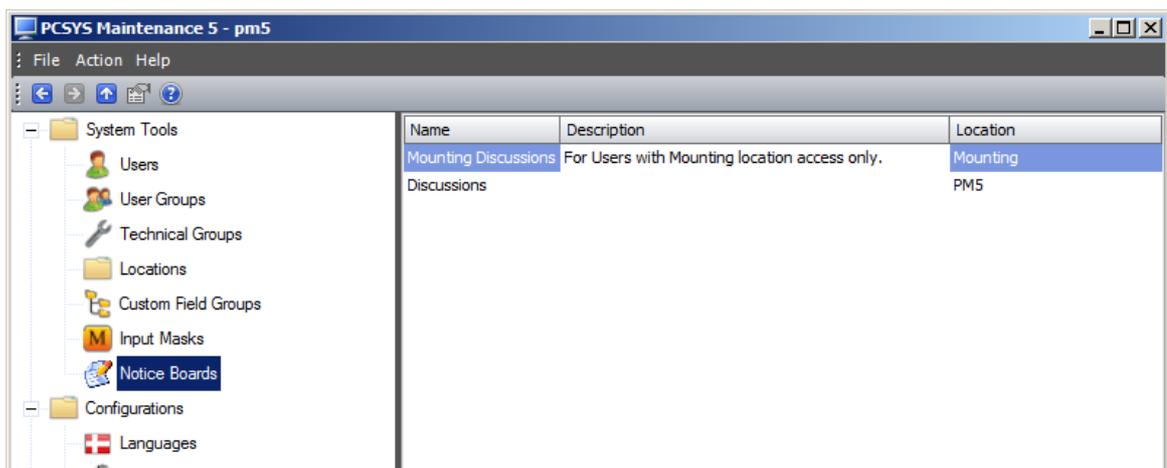


This screenshot shows the same "Input Mask" dialog box, but now the "Input Mask" field contains the text "ZPT-999" and the "Sample Data" field contains "ZPT-123". The "Type" dropdown remains "Machine Number".

The Administration Module Input Masks Add Form - Showing how to enter Sample Data

3.7 Notice Boards

Notice boards in the Administration module contains the list of Notice boards. It also allows you to manage all the Notice boards that resides in the application.



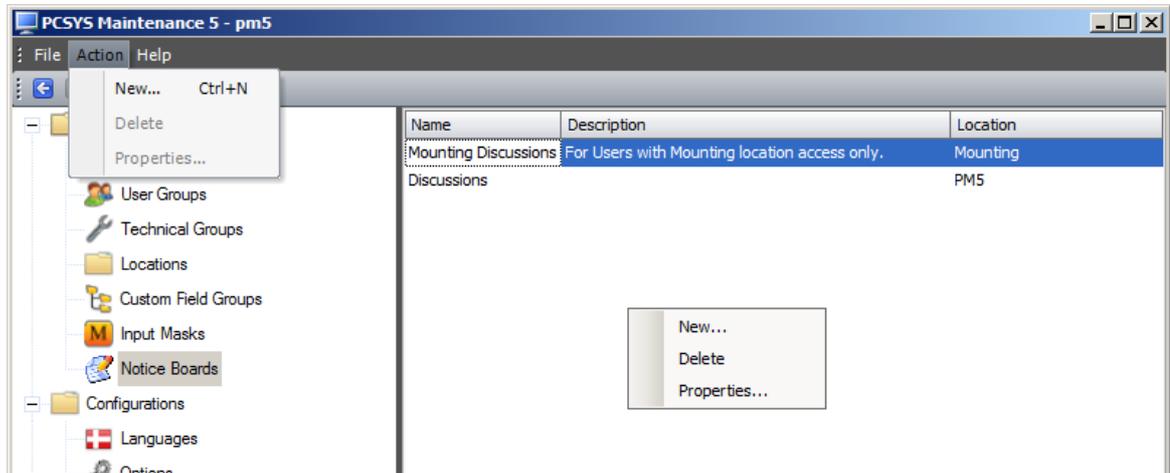
Name	Description	Location
Mounting Discussions	For Users with Mounting location access only.	Mounting

The Administration Module Notice Board - Showing the List of Notice Boards available in PM5

3.7.1 Adding, editing and deleting Notice Boards

The following page will introduce how to add, edit and delete Notice Boards.

Let us look first where we can access the buttons for Add, Edit and Delete.



The Administration Module Notice Board List - Showing how to add, delete and edit Notice Boards

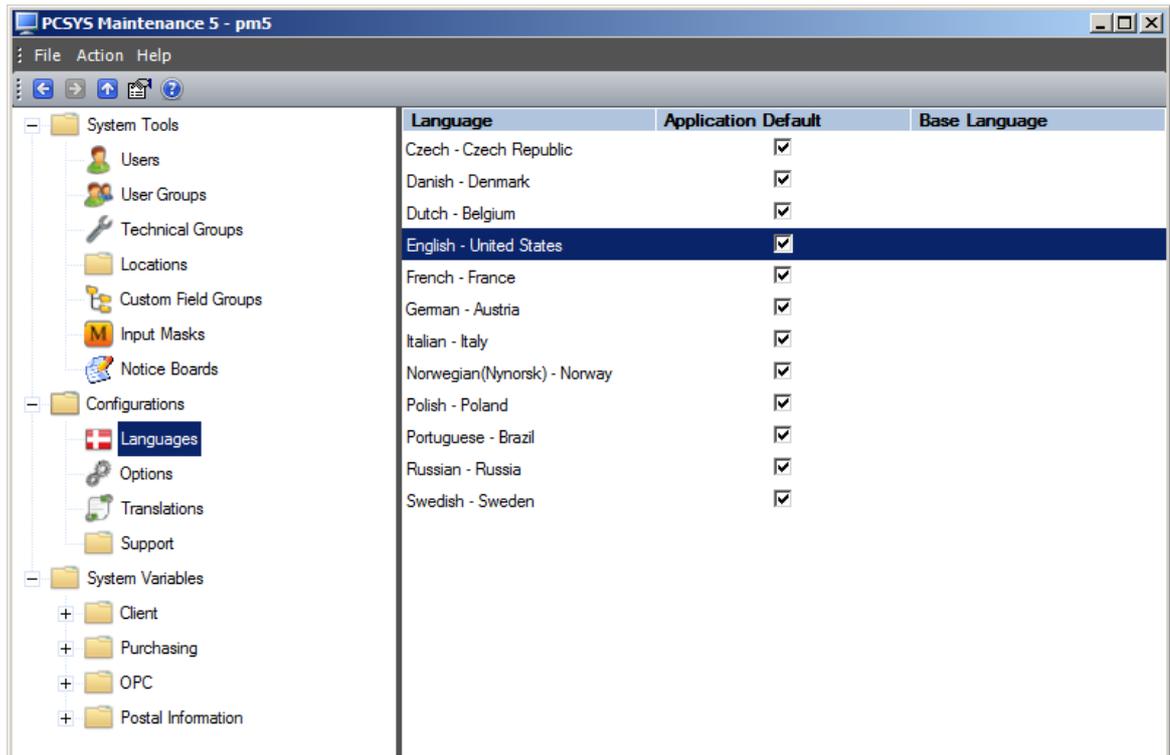
After clicking 'New..' you will see a dialog where Notice Board Name, Location assignment and Description can be defined.

The Administration Module Notice Board Add Form

- 1) Provide a Name for your Notice Board.
- 2) Select the Location assignment of the Notice Board by clicking on the down arrow and clicking the 'Accept' button to assign it.
- 3) Provide a descriptive text for the Notice Board.
- 4) Click Save.

3.8 Languages

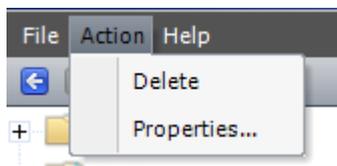
PM5 will offer 12 different default languages. These default languages cannot be deleted or edited but it is possible to create a new language by highlighting an existing language and clicking the 'Copy' button (Action -> Copy). The language that was copied from will be the 'Base language' of the new language, meaning that it will be the language used as default when text resources are missing for the new language. Below is shown an example of how a new language 'English - UK' will appear in the dialog:



The Language Dialog

For information on how to create translations for a non-default language, please [click here](#).

It is possible to delete non-default languages as well as update their names using the 'Delete' and 'Properties' buttons found in the Action menu.



The Language Dialog Action Menu

3.9 Options

Options is where you can enter your license information, set your company logo and change other configuration settings.

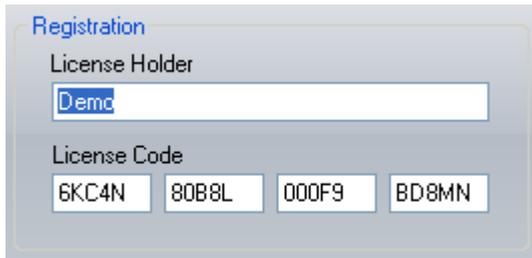
The Options dialog box is titled "Options" and contains the following fields and controls:

- Registration**
 - License Holder: Demo PM5
 - License Code: 8BC4K | I0B00 | 00GF9 | BD84B
- Attachment Folder**
 - Attachment Folder: [Empty text field]
 - Browse For Folder... button
- Logo**
 - Logo: [Empty image box]
 - Browse For File... button
 - Clear button
- Timeout (In minutes)**: 30
- Minimum Auto-Update (In minutes)**: 0
- Root Location Text**: [Empty text field]
- Report Header**: [Empty text field]
- Print Label Directly to Printer

Buttons: Ok, Cancel

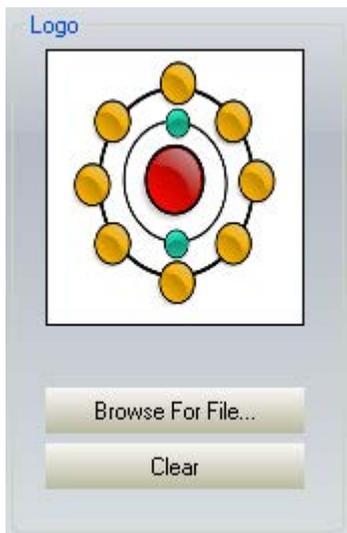
The Options Dialog

When you get your licensing information, enter it in Registration and click the "Ok" button to check its authenticity. If you entered a valid name and code, PM5's features will be upgraded to the level in your license.

The image shows a 'Registration' dialog box. It has a title bar with the word 'Registration' in blue. Below the title bar, there are two sections. The first section is labeled 'License Holder' and contains a text input field with the word 'Demo' inside. The second section is labeled 'License Code' and contains four separate text input fields, each with a portion of a license code: '6KC4N', '80B8L', '000F9', and 'BD8MN'.

The Options Dialog - Registration

To set your Company Logo, which will be shown whenever you print Reports, click the "Browse For File..." button and look for your desired image. PM5 supports the JPEG, ICO, BMP, TIFF and GIF image formats. If you wish to remove the current logo, click "Clear."

The image shows a 'Logo' dialog box. It has a title bar with the word 'Logo' in blue. Below the title bar, there is a large square area containing a circular logo with a red center and several yellow and teal dots around it. Below the logo area, there are two buttons: 'Browse For File...' and 'Clear'.

The Options Dialog - Logo

The next paragraphs discuss the other configuration settings in PM5.

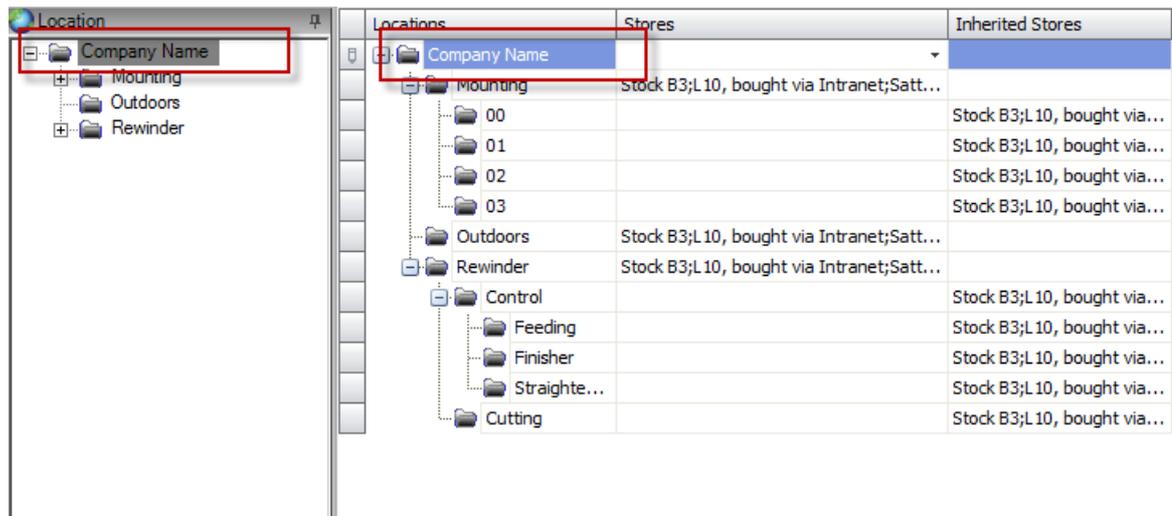
The Attachment Folder is the folder where your attachments in the Client Application are stored. Attachments simply refer to files, such as documents, images, etc. You can attach files to a Machine, Task or Spare Part by going to their Attachments Tab. You should set your attachment folder to a shared folder in your drive or to a location on your network server so that other users will be able to download your attachments. Setting it to a local folder that is not shared will make your attachments impossible to get hold of for the users.

Whenever you log in to PM5, your status will be set to "logged in" and no other user can use your account until you log out. Unfortunately, you may not always be able to log out because your computer could crash, you experience a power failure or face a similar problem that causes PM5 to terminate before you are able to log out. The problem is, unless your status is set to "logged out," you will not be able to log in. How is this problem solved?

Timeout (In minutes) was designed to specifically address this problem. It defines the amount of time PM5 will wait before setting the status of a user to "logged out." This way, if PM5 terminates prematurely, you will be able to log in after a certain period of time. For example, due to a power interruption, PM5 terminates before you are able to log out. If you set the Timeout to 5, you just wait 5 minutes then you can log in again. This beats never being able to use your account again.

When you create a user, you have the option to set the value of its Auto-Update. If you've already read the section on [Users](#), you'll know that Auto-Update controls how often the Activities & Faults list is reloaded. Here in Options, the Minimum Auto-Update (In Minutes) sets the minimum value that the user is allowed to set for his Auto-Update interval. This means that if you enter 5 as the Minimum Auto-Update, the lowest value that a user is allowed to enter in his Auto-Update is 5. If he enters a value lower than 5, Auto-Update will be disabled for his account.

Root Location Text allows you to change the text of the root node of the Location tree in the Administration and Client modules.



The Location Tree - Showing a different text on the root node

What you enter in the Report Header box will appear on the header of all reports.

If you mark the Print Label Directly to Printer check box, it means you enable the printing of labels directly to the printer. No visual confirmation and no preview document will be seen on the screen once you chooses to print barcode through the Quick Access menu of Spare Part grid and 'Print Barcode' button of the Spare Part form.

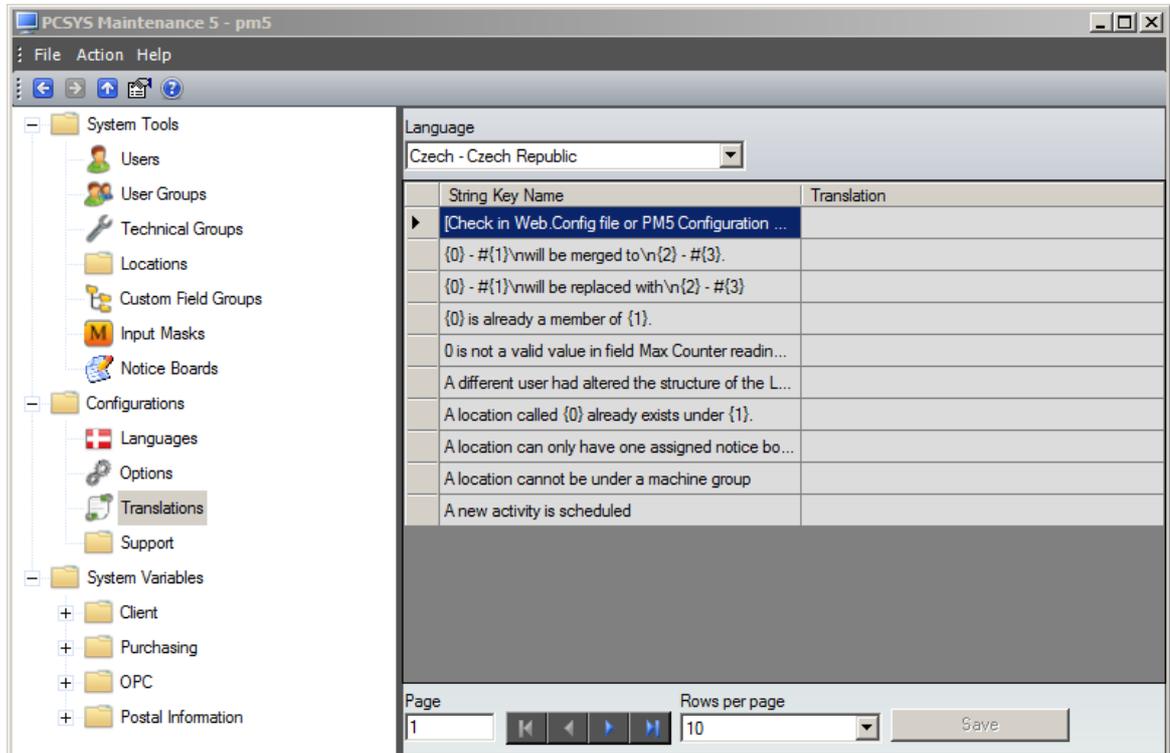
Below is an example of a customization of the other configuration settings:

Timeout (In minutes)	<input type="text" value="30"/>
Minimum Auto-Update (In minutes)	<input type="text" value="5"/>
Root Location Text	<input type="text" value="Company Name"/>
Report Header	<input type="text" value="Company Name"/>
<input type="checkbox"/> Print Label Directly to Printer	

The Options Dialog - Other Configuration Settings

3.10 Translations

The translation module makes it possible to create translations for new languages (i.e. not default languages). To see how to create new languages please [click here](#). To start translating simply choose a new language in the Language drop down. If you choose one of the default languages, the middle column called "Translation" will not appear and you will only be able to review the shown language.



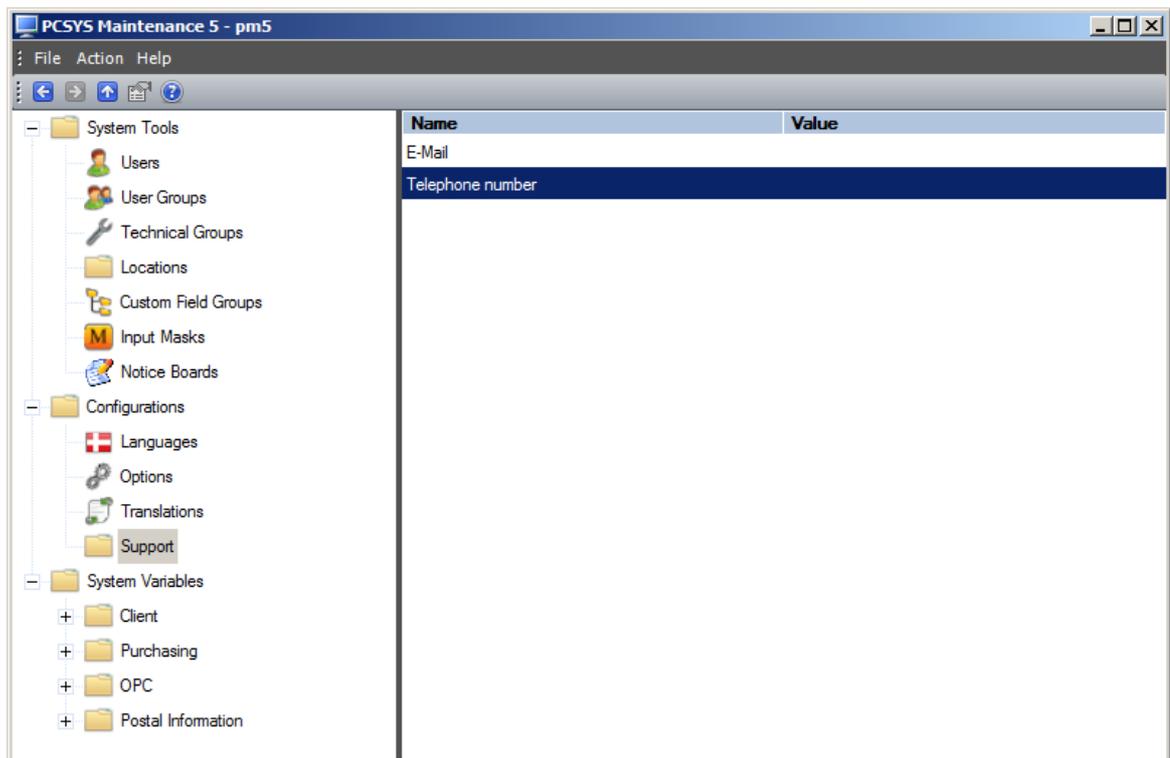
The Language Translation Dialog

To start translating simply just choose the field in the Translation column that you wish should differ from the "Base Translation" value and insert it. Initially you will only be shown 10 of the text resources of the system, but you can use the pager in the bottom of the screen to see the rest. You can also choose to show a different number of text resources on each page by using the 'Rows per page' drop down. Choose the 'value' all to get the entire list of texts that can be translated.

You do not need to translate texts that are the same as the base language shown. If a value does not exist for the new language, then it will inherit the value from the base language.

When you are ready to save either use the 'Save' button on the panel below the text resource list or use the Save button in the Action menu. You will in the Action menu also find a cancel button you can use if you regret the translations you have been made in the session.

3.11 Support



Feature under development. It is currently possible to set the values of email address and telephone number but the feature that makes use of this information has not been implemented yet.

In the future, this will be used to set the email address and telephone number that will appear whenever PM5 throws an exception. This way, the users will have a way of asking for support whenever PM5 encounters a bug.

3.12 System Variables

If you have been using PM5, you will notice that there are some fields in the client that have a "fixed" list of values that you can not seem to change.

For example, if you open a Machine and try to select a Type, you can only select from a list; you can not enter new types.

The Client Application Machine Properties Form - Showing a "fixed" list of Machine Types

If you needed to create a new Machine Type or a new value for another "fixed" field, how would you do it? You can update Machine Types and other "fixed" fields from within System Variables. Here is a list of the fields in the Client Application that you can update in the Administration Module:

1. [Machines](#)
 - [Types](#): System Variables -> Client -> Machines -> Types
 - [Account Numbers](#): System Variables -> Client -> Machines -> Account Numbers
 - [Measured Parameters](#): System Variables -> Client -> Machines -> Measured Parameters
 - [Measured Unit Types](#): System Variables -> Client -> Machines -> Measured Parameters -> Unit Types
2. [Tasks](#)
 - [Types](#): System Variables -> Client -> Tasks -> Types
 - [Calibration Groups](#): System Variables -> Client -> Tasks -> Calibration Groups
3. [Spare Parts](#)
 - [Groups](#): System Variables -> Client -> Spare Parts -> Groups
 - [Manufacturers](#): System Variables -> Client -> Spare Parts -> Manufacturers
 - [Stores](#): System Variables -> Client -> Spare Parts -> Stores
 - [Consumption Types](#): System Variables -> Client -> Spare Parts -> Consumption Types
4. [Suppliers](#)
 - [Phone Types](#): System Variables -> Client -> Suppliers -> Phone Types

5. Faults

- Cause Types: System Variables -> Client -> Faults -> Cause Types
- Down-time Types: System Variables -> Client -> Faults -> Down-time Types
- Types: System Variables -> Client -> Faults -> Types
- Stop Groups: System Variables -> Client -> Faults -> Stop Groups

Aside from the fields in the Client Application, you can also update fields in the Purchasing Module, OPC Module and Postal Information:

1. Purchasing

- Accounts: System Variables -> Purchasing -> Accounts
- Contact Information: System Variables -> Purchasing -> Contact Information
- Settings: System Variables -> Purchasing -> Settings
- Taxes: System Variables -> Purchasing -> Taxes

2. OPC

- Faults: System Variables -> OPC -> Faults
- Measured Parameters: System Variables -> OPC -> Measured Parameters

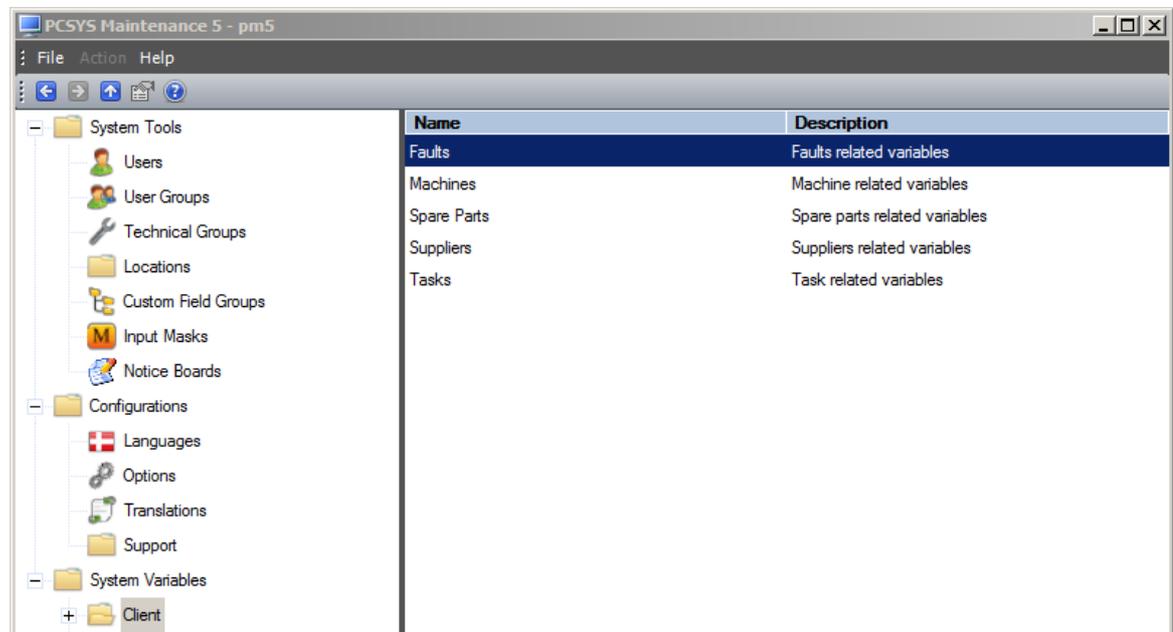
3. Postal Information

- Countries: System Variables -> Postal Information -> Countries
- Zip Codes: System Variables -> Postal Information -> Zip Codes

You can get more detailed information on how to add, edit and delete values in these fields and their relationship to their parent modules in the following sections.

3.12.1 Client

Client contains a list of modules in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Machines, you will be taken to the Machine node.



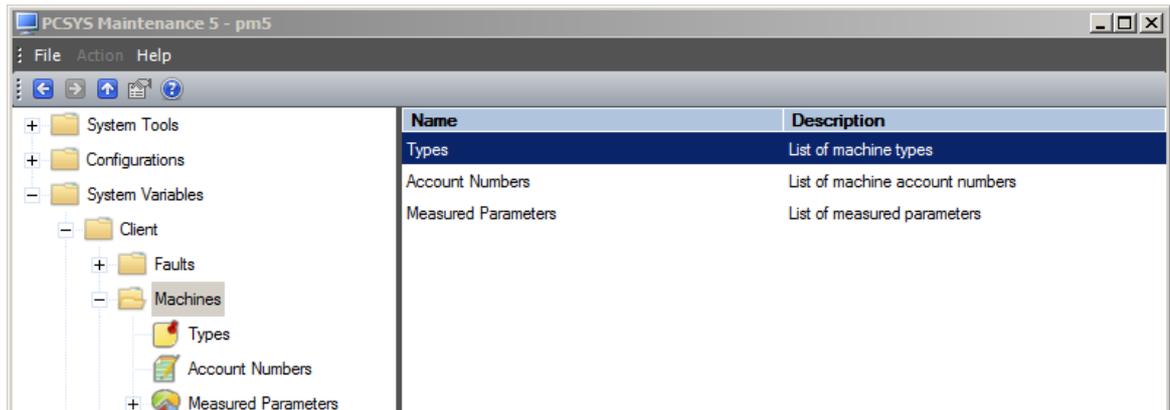
The Administration Module System Variables -> Client List - Showing how to jump to child nodes

To read more about the modules in Client, click on the links below:

- [Machines](#)
- [Tasks](#)
- [Spare Parts](#)
- [Suppliers](#)
- [Faults](#)

3.12.1.1 Machines

Machines contains a list of the "fixed" fields found in a Machine in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Types, you will be taken to the list of Types.



The Administration Module System Variables -> Client -> Machines List - Showing how to jump to child items

To read more about a 'fixed' field in a Machine, click on one of the links below:

- [Types](#)
- [Account Numbers](#)
- [Measured Parameters](#)
 - [Measured Unit Types](#)

3.12.1.1.1 Types

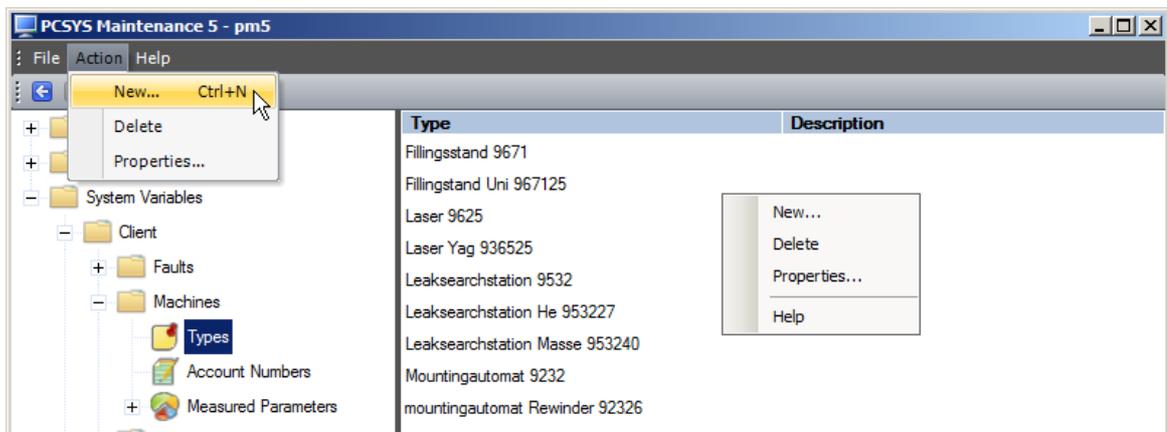
Machine Types allow you to group machines by their type. Let us say you have three machines: A Pick-up Truck, an SUV and a Mini-Van and you would like to group them together. One way to do this is to assign the Machine Type "Light Truck" to all three. This way, when you sort your Machines by type, these three will be grouped together.

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Machine Number	Machine Name	Type	ID Code	
905542	Fillupstand	Fillingstand Uni 9...	06B	
905542.00	Fillupstand, control	Fillingstand Uni 9...		
905547.00	Haas Laser 506D...	Laser Yag 936525		
905547	Haas Laser 506D	Laser Yag 936525	11A	
905545	Leaksearch over...	Leaksearchstatio...	0	
905545.00	Leaksearch over...	Leaksearchstatio...		
905539	Leaksearch Ballc...	Leaksearchstatio...	0	
905539.00	Leaksearch Ballc...	Leaksearchstatio...		
000003	Pick-up Truck	Light Truck		
000004	SUV	Light Truck		
99934	Mini-Van	Light Truck		
903982	Rewinder	mountingautomat...	11A	
903982.00	Rewinder , control	mountingautomat...		

The Client Application Machine Tab - Showing Machines grouped together by Type

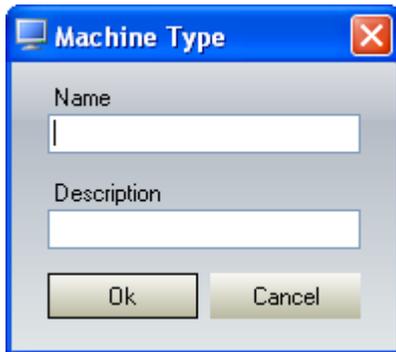
The following paragraphs will show how to add, edit and delete Machine Types and will describe their relationship to the Client Application.

Let us look at where to access the buttons for Add, Edit and Delete.



The Administration Module Machine Types List - Showing how to add, delete and edit Machine Types

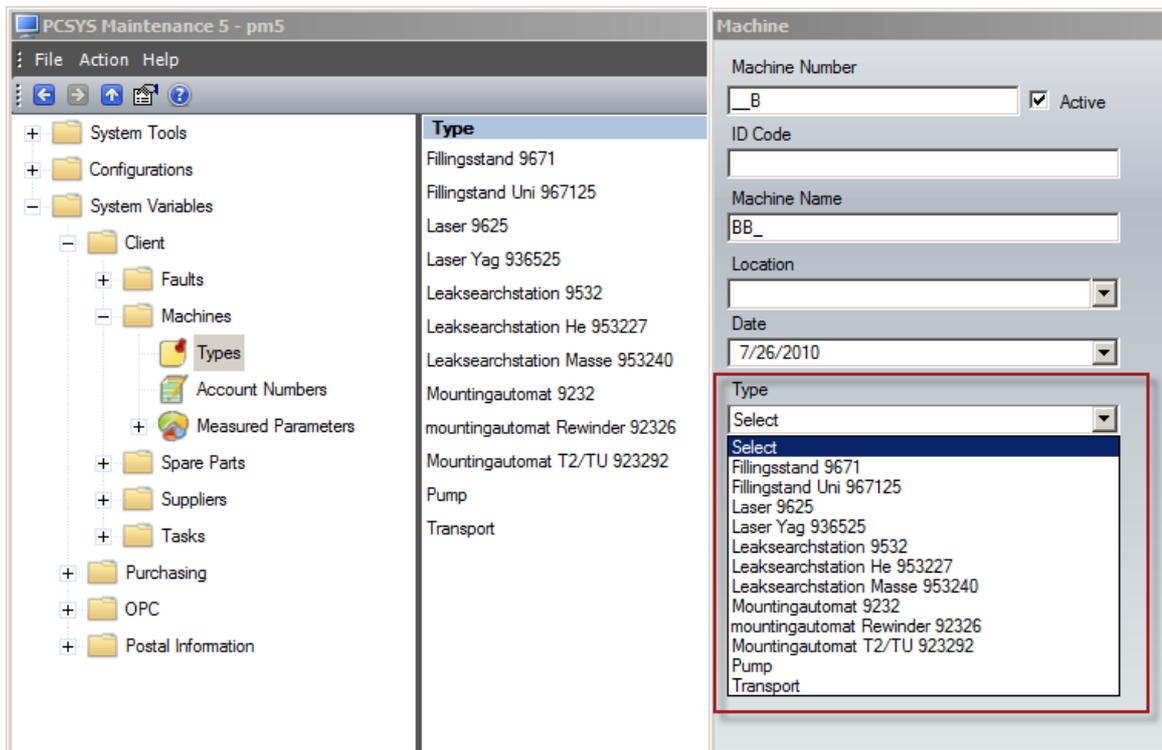
After clicking 'New..' you will see a dialog where Type and Description can be defined. Only the Type is required.



A dialog box titled "Machine Type" with a blue header and a close button (X) in the top right corner. It contains two text input fields: "Name" and "Description". Below the fields are two buttons: "Ok" and "Cancel".

The Administration Module Machine Types Add Form

All the Machine Types that appear in the Administration Module can be selected in the Client Application.



The screenshot shows the "PCSYS Maintenance 5 - pm5" application interface. On the left is a tree view with folders like "System Tools", "Configurations", "System Variables", "Client", "Faults", "Machines", "Types", "Account Numbers", "Measured Parameters", "Spare Parts", "Suppliers", "Tasks", "Purchasing", "OPC", and "Postal Information". The "Types" folder is expanded, showing a list of machine types. On the right is the "Machine" add form, which includes fields for "Machine Number", "ID Code", "Machine Name", "Location", "Date", and a "Type" dropdown menu. The "Type" dropdown is open, showing a list of machine types: "Select", "Fillingsstand 9671", "Fillingstand Uni 967125", "Laser 9625", "Laser Yag 936525", "Leaksearchstation 9532", "Leaksearchstation He 953227", "Leaksearchstation Masse 953240", "Mountingautomat 9232", "mountingautomat Rewinder 92326", "Mountingautomat T2/TU 923292", "Pump", and "Transport".

Type
Fillingsstand 9671
Fillingstand Uni 967125
Laser 9625
Laser Yag 936525
Leaksearchstation 9532
Leaksearchstation He 953227
Leaksearchstation Masse 953240
Mountingautomat 9232
mountingautomat Rewinder 92326
Mountingautomat T2/TU 923292
Pump
Transport

The Administration Module Machine Types List and The Client Application Machine Add Form - Showing the Machine Types available

3.12.1.1.2 Account Numbers

Account Numbers allow you to group Machines together. You can assign Account Numbers to Machines in the Machine Add/Edit Form in the Client Application.

The screenshot shows the 'Machine' form with the following fields and values:

- Machine Number: 905543
- Active:
- ID Code: 03C
- Machine Name: Edge and tightnesstest
- Location: Mounting
- Date: 10/ 6/1994
- Type: Mountingautomat T2/TU 923292
- Machine Note: (Empty text area)
- Supplier: Poul Johansen Maskiner
- Manufacturer: Select
- Account Number: 1100 (highlighted in red box)
- Stop Group: Mounting line
- Use Measured Value:
- Measured Parameter: Select
- Unit: (Empty input field)
- Units Per Day: (Empty input field)

Buttons: Save, Cancel

The Client Application Machine Add/Edit Form - Showing how to assign an Account Number to a Machine

An Account Number helps you identify which Account a Machine or a group of Machines belong to when producing a Report about the Consumption of their Spare Parts.

Consumption Report

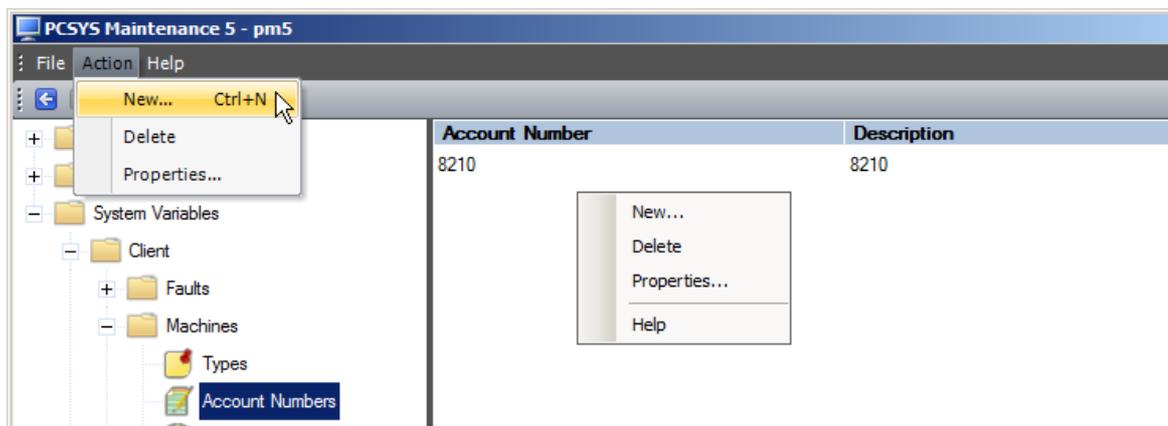
Machine Name: All
 Location: All
 User: All
 Account: 1100
 Period: 1/1/2005 - 8/17/2009

Date	Used By	Spare Part Name	Spare Part No	Bar Code	Task / Fault Type	Machine Name	Machine No
8/17/2007	DVS	Batterie Siemens PS 55-115L/H	984F9269		Planned servicecheck	Edge and lightnesstest	905543
4/5/2006	pm5	Battery for OP Mand	W79084-E1001-B2		Electric failure	weighing-in pump	001.1304
8/17/2007	DVS	Magnetvent Festo	932L9327			Edge and lightnesstest	905543
8/17/2007	DVS	Magnetvent Festo	932L9363			Edge and lightnesstest	905543
10/9/2006	pm5	Safetyswitch. K.Moeller.	TO-2-8900/11/SVB		Electric failure	weighing-in pump	001.1304
5/23/2007	DVS	SKF Ballbearing	6010		Planned servicecheck	weighing-in pump	001.1304

The Consumption Reports Form - Showing how to generate a Report using Account Numbers

The following paragraphs will show how to add, edit and delete Account Numbers and will describe their relationship to the Client Application.

Let us look at where to access the buttons for Add, Edit and Delete.



The Administration Module Account Numbers List - Showing how to add, delete and edit Account Numbers

After clicking 'New..' you will see a dialog where Account No and Description can be defined. Only the Account No is required.

The Administration Module Machine Account Number Add Form

All the Account Numbers that appear in the Administration Module can be selected in the Client Application.

The Administration Module Machine Account Numbers List and The Client Application Machine Add Form - Showing the Account Numbers available

3.12.1.1.3 Measured Parameters

When you buy a new car you will often be asked to have it brought in for a service check every certain number of kilometers or within a certain amount of time, e.g. every 5000 kilometers or every 3 months. It is possible to arrange the same system with the Measured Parameters feature of PM5.

In PM5 you call the process of doing Service Checks on your car a 'Task.' Whenever the service check is actually performed on the car it is called an 'Activity.' Click on [Tasks](#) or [Activities](#) to learn more on this.

A task can thus be set up to have an activity carried out every certain number of days. If you have set up a task that needs to be carried out every 30 days you set 'Interval days' of the task to 30. Whenever an activity of that task is done it will automatically propose an activity 30 days later than the scheduled date.

If the machine that the task belongs also has a measured parameter set, there is a chance that the

next proposed date would be earlier than 30 days. Let us look into how this can happen.

Let's say that the machine in question is a car, which needs to be checked every 30 days or every 1000 kilometers (set as the measured parameter). If the 1000 kilometers are estimated to be reached earlier than 30 days, the next activity will be scheduled to be carried out earlier. When there are values for both Days and Measured Unit, an activity is scheduled based on whichever comes first - the number of days or the accumulated value of a measured parameter.

Measured parameters are always based on a unit of measurement (e.g. kilometers, grams, liters) which can be set up using [Unit Types](#).

After this you set up the measured parameter, which you can read more about by clicking [here](#).

To read more on adding a measured parameter to a machine, please click [here](#).

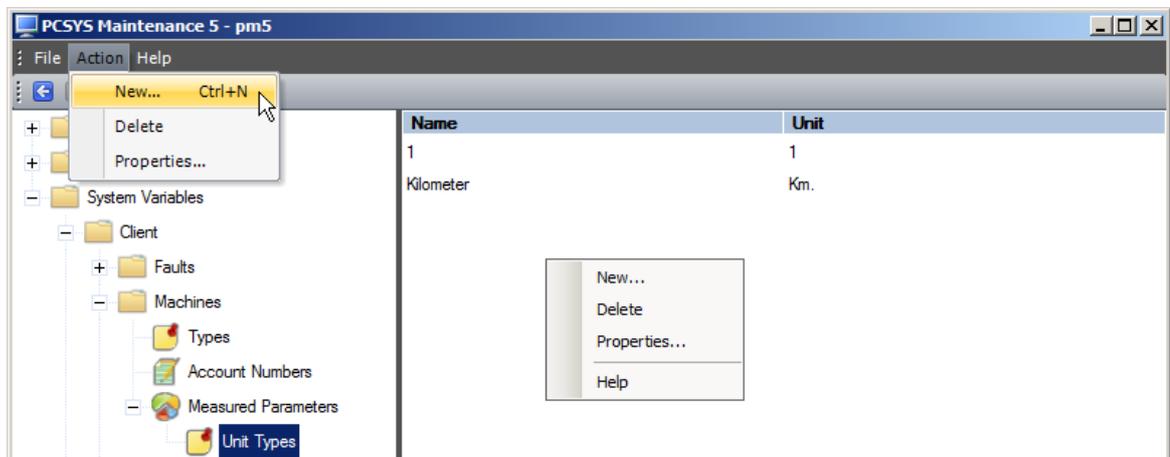
To see an example of how a measured parameter actually influences the next activity date please click [here](#).

3.12.1.1.3.1 Unit Types

Unit Types is where you can create Units for Measured Parameters. For example, you could create 'Kilometer' as a unit, which could be used to represent mileage. Or you could create 'Liter,' which could be used to show fuel levels.

The following paragraphs will show how to add, edit and delete Unit Types and will describe their relationship to Measured Parameters.

Let us look at where to access the buttons for Add, Edit and Delete.



The Administration Module Unit Types List - Showing how to add, delete and edit Unit Types

After clicking 'New..' you will see a dialog where Unit Name and Unit can be defined. Unit Name and Unit are both required.

The Administration Module Unit Types Add Form

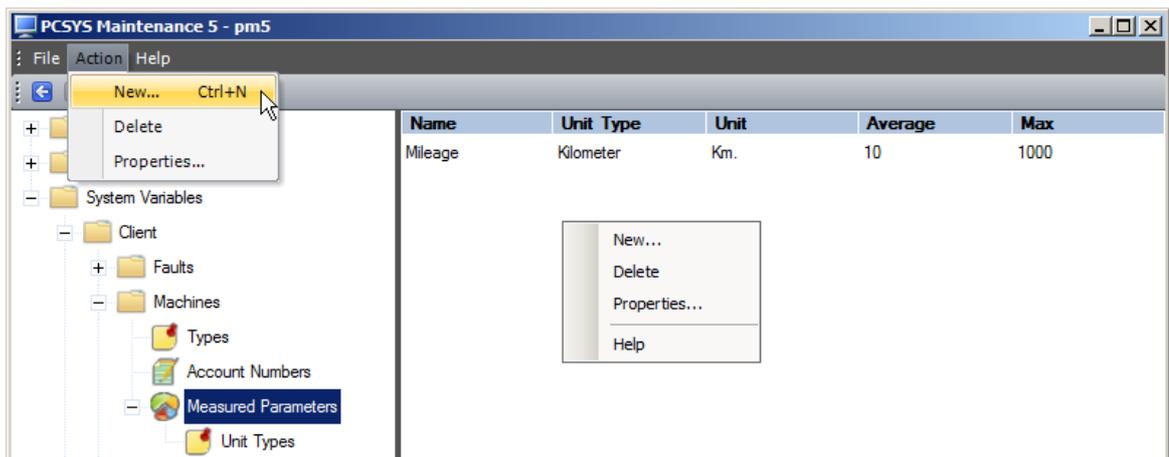
The Unit Types that appear here can be selected in the Unit dropdown box when adding\editing Measured Parameters.

The Administration Module Measured Parameters Add Form - Showing the Unit Types available

3.12.1.1.3.2 Setting up Measured Parameters

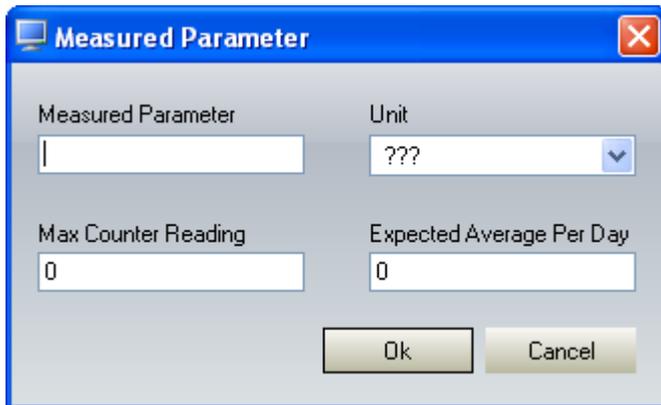
The following page will introduce how to add, edit and delete Measured Parameters. If you would like to get an overview of Measured Parameters please [click here](#) to read its description.

Let us look at where to access the buttons for Add, Edit and Delete.



The Administration Module Measured Parameters List - Showing how to add, delete and edit Measured Parameters

After clicking 'New..' you will see a dialog where Measured Parameter, Unit, Max Counter Reading and Expected Average Per Day can be defined. All fields are required.



The Administration Module Measured Parameters Add Form

The text in Measured Parameter is what will be used to identify the measured parameter in the Client Application, the Unit is the unit of measure that it will use (you can define this in [Unit Types](#)), Max Counter Reading is the maximum value that the measured parameter is allowed to accumulate and Expected Average Per Day is the value that the machine is expected to accumulate every day.

3.12.1.1.3.3 Example of Measured Parameter

The following page will show you how to use Measured Parameters. If you would like to get an overview of Measured Parameters please [click here](#) to read its description.

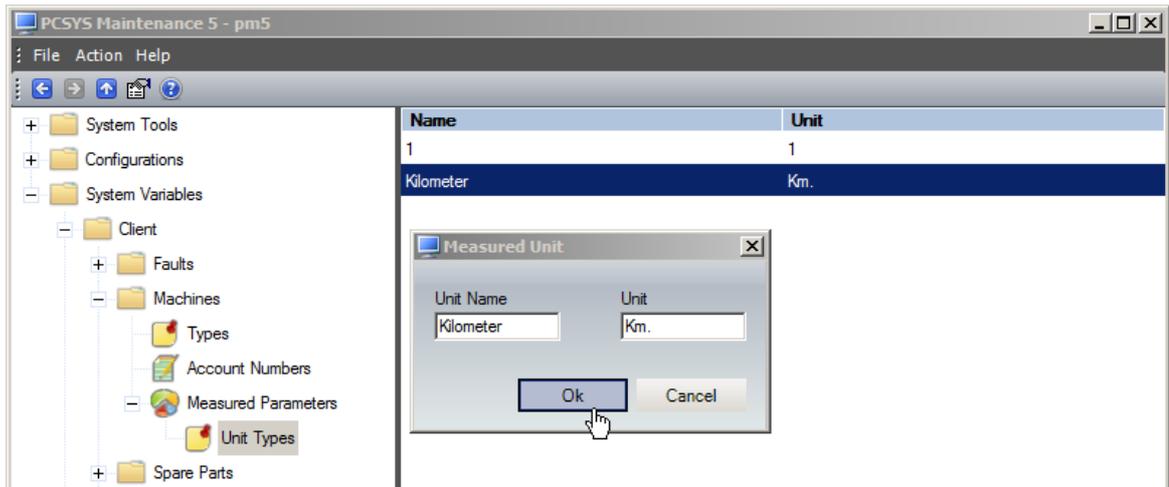
Let's say that you have a truck that has a timing belt that needs to be replaced every 10,000 kilometers. How can you schedule that Activity in such a way that it is performed whenever your truck accumulates 10,000 kilometers? You can do that by using Measured Parameters.

The following paragraphs will guide you step by step - from the creation of a Measured Parameter in the Administration Module to how they are used in the Client Application.

First, let's create a Unit Type. This will be the unit of measure of your Measured Parameter.

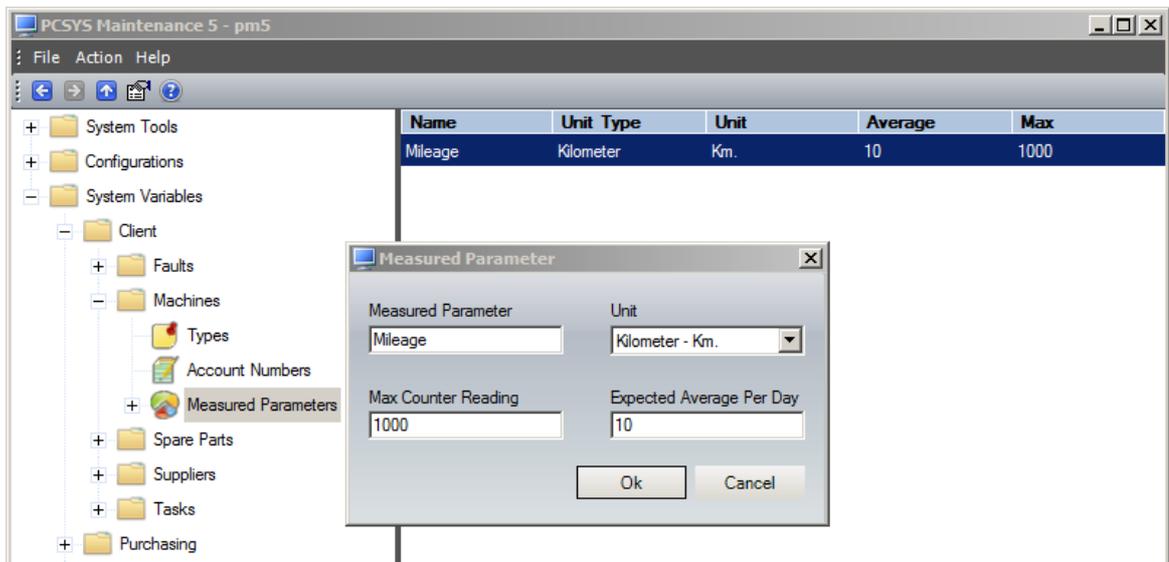
In the Administration Module, go to System Variables -> Client -> Machines -> Measured Parameters and click Action -> New.

Type "Kilometer" in Unit Name and "Km" in Unit and click Ok.



The Administration Module Unit Types List - Showing how to add a Unit Type

In the Administration Module, go to System Variables -> Client -> Machines -> Measured Parameters and click Action -> New. Type "Mileage" in Measured Parameter, select "Kilometer - Km" in Unit, type "999999" in Max Counter Reading and "50" in Expected Average Per Day and click Ok.



The Administration Module Measured Parameters List - Showing how to add a Measured Parameter

Close the Administration Module. Click on the Machines Tab in the Client Application. Type "2" in the "Go to page" box and press [Enter]. You should see "3 Montini Truck" on top of the list. Now, double click on "3 Montini Truck."

Machine Number	Machine Name	Account Number	ID Code	Type	Date	Price	Supplier
9802,2	3 Montini Truck			Transport	3/1/2004		Scantrud
9853	1 BT truck Cargo 1,5			Transport	5/24/2003		Intern
9856	4 Nissan truck			Transport	7/1/2005		Scantrud

Page 2 showing 21 to 23 of total 23

Go to page 2

The Client Application Machines Tab - Showing how to access a Machine

Check the "Use Measured Value" box, select "Mileage" in Measured Parameter and click Save. Then click Ok to close the window that says the data has been successfully updated.

Machine

Machine Number: 9802.2 Active

ID Code:

Machine Name: 3 Montini Truck

Location: Outdoors

Date: 3/ 1/2004

Type: Transport

Machine Note: Truck med Joystik

Supplier: Scantruck A/S

Manufacturer: Select

Account Number: Select

Price:

Capacity:

Power:

Stop Group: Select

Use Measured Value

Measured Parameter: Mileage

Unit: Kilometer

Units Per Day: 50

Save Cancel

The Client Application Machine Edit Form - Showing how to assign a Measured Parameter to a Machine

Click on the Tasks Sub Tab and click New Task.

Details **Tasks** Activities Spare Parts Faults Stop Attachments

Name	Interval (Days)	Interval (Units)	Active	Estimated Man Hours
------	-----------------	------------------	--------	---------------------

New Task Delete Task Go To Task

The Client Application Machines Tab - Tasks Sub Tab - Showing how to create a new Task

Type "Change Timing Belt" in Task Name, select "Planned servicecheck" in Type of Task, type "90" in Days and "10000" in Measured Unit and click Save. You will be prompted for the Date of First Activity. Accept the default value (the date today) and click Ok.

The Client Application Task Add Form - Showing how to add a new task with Measured Units

Let's say you performed the first maintenance activity on the first scheduled date. Go to the Activities Sub Tab and double click on "Change Timing Belt."

Task Name	Date	Done	Done Date
Change Timing Belt	8/11/2009	<input type="checkbox"/>	

The Client Application Machines Tab - Activities Sub Tab - Showing how to go to an Activity

You will be taken to the Activites Tab. Double click "Change Timing Belt".

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Fault	Task Name //	Machine Name	Machine No	
<input type="checkbox"/>	12 months batter...	Edge and tightne...	905543	
<input type="checkbox"/>	14 days planned ...	Fillupstand	905542	
<input type="checkbox"/>	12 months batter...	Rewinder	903982	
<input type="checkbox"/>	12 months batter...	Leaksearch over...	905545	
<input type="checkbox"/>	3 month planned ...	Edge and tightne...	905543	
<input type="checkbox"/>	3 months planne...	Fillupstand	905542	
<input type="checkbox"/>	12 months batter...	Fillupstand	905542	
<input type="checkbox"/>	pump control, ½ y...	weighing-in pump	001.1304	
<input type="checkbox"/>	Change Timing Belt	3 Montini Truck	9802,2	
<input checked="" type="checkbox"/>	Emission error	Rewinder	903982	

The Client Application Activities/Faults Tab - Showing how open an Activity

Check the "Done" box, select the date today in Activity Done and click Save. You will be prompted to enter a counter reading in Measured Parameter. We will go back to this later. For now, just click Close.

Activities ✖

Signed By: Job No: Priority:

To Be Signed By:

Done Started Fixed Date

Task Name: ...

Type of Task:

Machine Number:

Machine Name: ...

Date Scheduled: ▾

Activity Done: ▾

Expected End Date:

Used Man Hours: Estimated Manhours:

Activity Note:

Task Note:

The Client Application Activities Edit Form - Showing how to mark an Activity as done

Next, you will be prompted for the date of the next Activity. Because you have not entered any counter readings, the number of days (90) will be used as the Interval. So, the date you see right now is exactly 90 days after the date of the first activity. For now, accept this date and click Ok.

The Client Application - Schedule Activity Form

Click on the Machines Tab, make sure "3 Montini Truck" is selected and click on the Activities Sub Tab and take a look at the next activity date. This date was calculated based on the number of days entered in the Interval (90). It will change once you enter counter readings in measured value, which you will do in the next step.

Machine Number	Machine Name	Account Number	ID Code
9802,2	3 Montini Truck		
9853	1 BT truck Cargo 1,5		
9856	4 Nissan truck		

Page 2 showing 21 to 23 of total 23

Task Name	Date	Done	Done Date	Signed B
Change Timing Belt	11/9/2009	<input type="checkbox"/>		
Change Timing Belt	8/11/2009	<input checked="" type="checkbox"/>	8/11/2009	pm5

The Client Application Machines Tab - Activities Sub Tab - Showing the date of the next activity

Now, click on the Details Sub Tab and click on the  button beside the Measured Parameter box. This will open the Measured Parameter form. Click New to enter a counter reading.

Measured Parameter

Measured Parameter	Unit
Mileage	Kilometer
Max Counter Reading	Expected Average Per Day
999999	50

Date	Counter Reading	Average for period
------	-----------------	--------------------

Close New Edit

The Client Application Measured Parameter Add Form

Since this is the first counter reading, type "0" in Counter Reading and click Save.

Measured Parameter

Measured Parameter	Unit
Mileage	Kilometer
Max Counter Reading	Expected Average Per Day
999999	50

Previous Values

Date Updated

Counter Reading

Expected Average Per Day

New Values

Date Updated
Tuesday, August 11, 2009

Counter Reading
0

Expected Average Per Day
50

Calculate Average

Calculate Average

Save Cancel

The Client Application Measured Parameter Edit Form - Entering the first counter reading

Let's enter another reading. Once again, click New. Type "5000" in counter reading and select a date about a month from the current date and click Save.

Measured Parameter	Unit
Mileage	Kilometer
Max Counter Reading	Expected Average Per Day
999999	50

Previous Values

Date Updated
Tuesday, August 11, 2009

Counter Reading
0

Expected Average Per Day
50

New Values

Date Updated
Thursday, September 10, 2009

Counter Reading
5000

Expected Average Per Day
50

Calculate Average

Calculate Average

Save Cancel

The Client Application Measured Parameter Edit Form - Entering another counter reading

Because two counter readings greater than 0 are required in order for Measured Parameters to recalculate the date of the next activity, let us enter a third counter reading. Click New and type "9000" in counter reading, select a date about two months from the current date and click Save.

Close the Measured Parameter window and go to the Activities Sub Tab. Look at the date of the next activity. You will see that it has been adjusted to an earlier date. Why? Because the counter reading is approaching "10,000" - the value that you set in the Machine's [Measured Unit Interval](#) - the date was adjusted accordingly.

Machine Number	Machine Name	Account Number	ID Code	Type	Date	Price	Supplier
9802,2	3 Montini Truck			Transport	3/1/2004		Scantrud
9853	1 BT truck Cargo 1,5			Transport	5/24/2003		Intern
9856	4 Nissan truck			Transport	7/1/2005		Scantrud

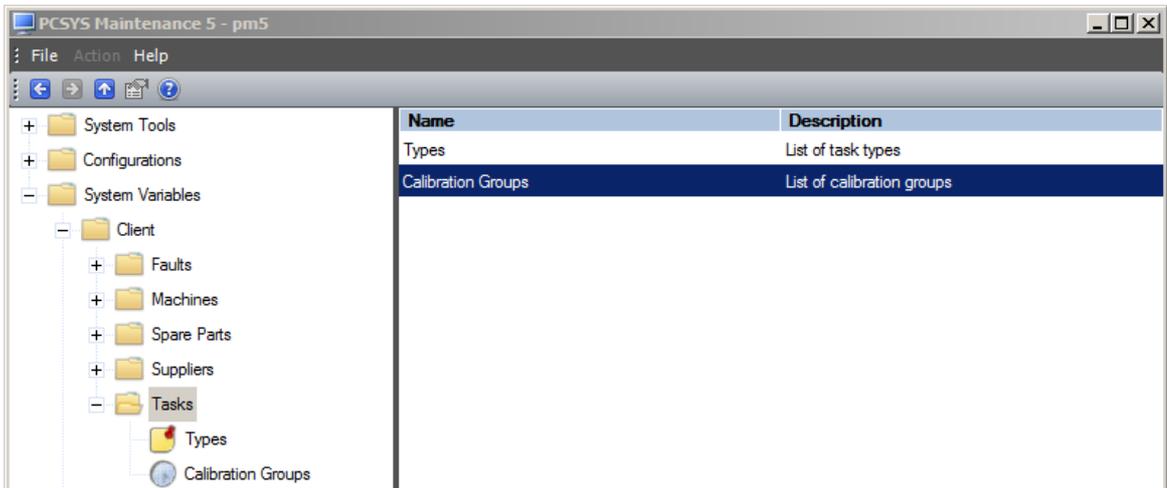
Page 2 showing 21 to 23 of total 23

Go to page

Task Name	Date	Done	Done Date	Signed By	Used Man Hours	Note
Change Timing Belt	10/25/2009	<input type="checkbox"/>			0	
Change Timing Belt	8/11/2009	<input checked="" type="checkbox"/>	8/11/2009	pm5	0	

3.12.1.2 Tasks

Tasks contains a list of the "fixed" fields found in a Task in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Calibration Groups, you will be taken to the list of Calibration Groups.



The Administration Module System Variables -> Client -> Tasks List - Showing how to jump to child items

To read more about a 'fixed' field in a Task, click on one of the links below:

- [Types](#)
- [Calibration Groups](#)

3.12.1.2.1 Types

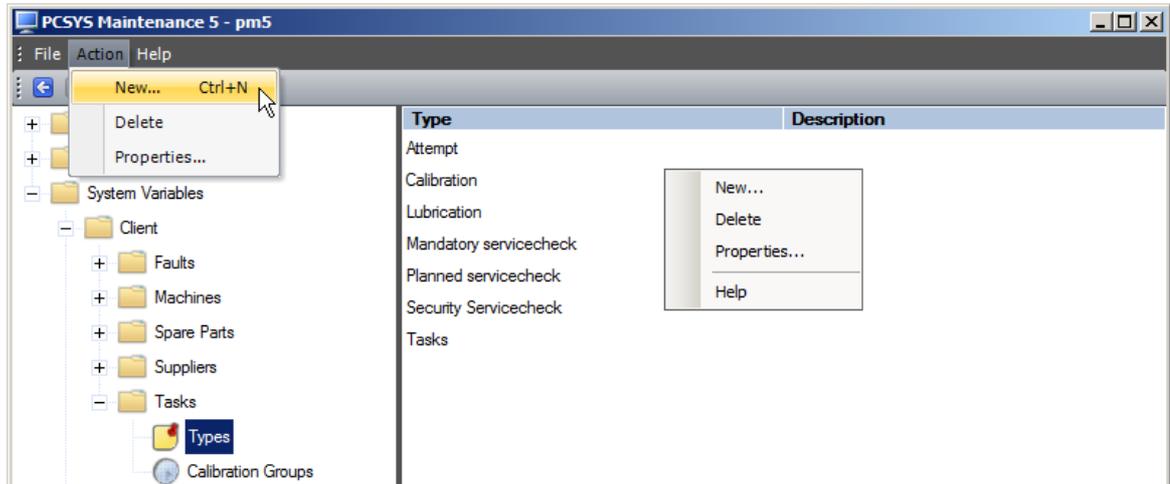
Task Types provide a way to categorize Tasks. You can also create reports on Tasks using Task Types.

To learn how to assign Task Types to a Task, please click [here](#).

To see how to produce a Report using Task Types, click [here](#).

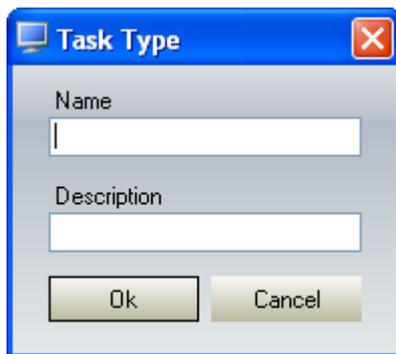
Now, let's take a look at how to add, edit and delete Task Types.

Below, you can see the menu items adding, editing (Properties...) and deleting.



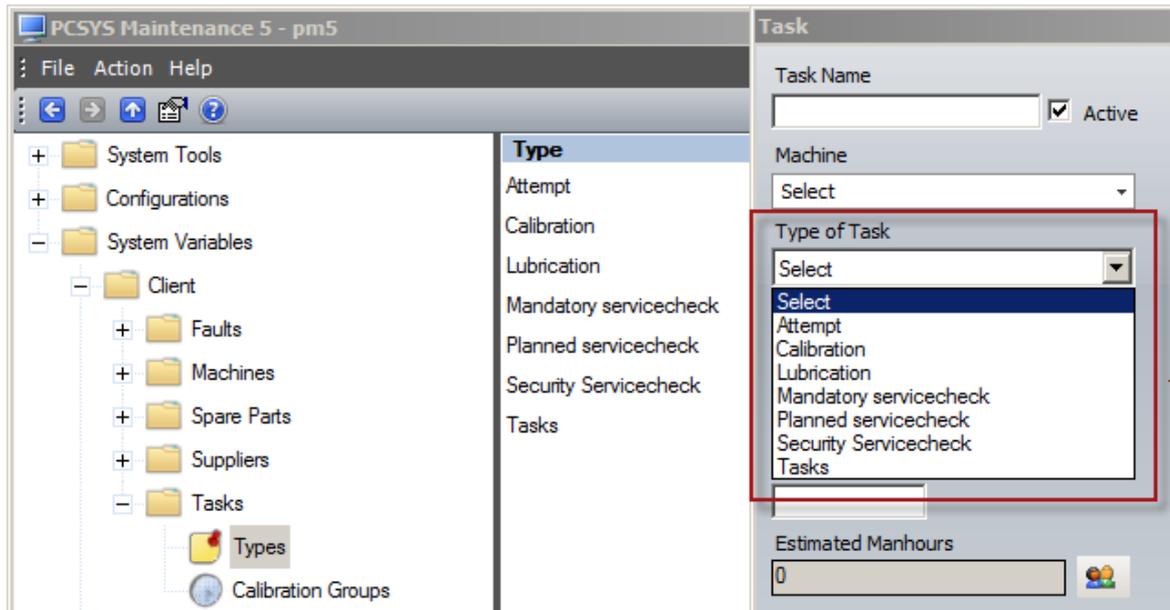
The Administration Module Task Types List - Showing how to add, delete and edit Task Types

When you click 'New...', you will see a dialog where Task Type and Description can be defined. Only the Task Type is required.



The Administration Module Task Type Add Form

All the Task Types that appear in the Administration Module can be selected in the Client Application.



The Administration Module Task Types List and The Client Application Task Add Form - Showing the Tasks available

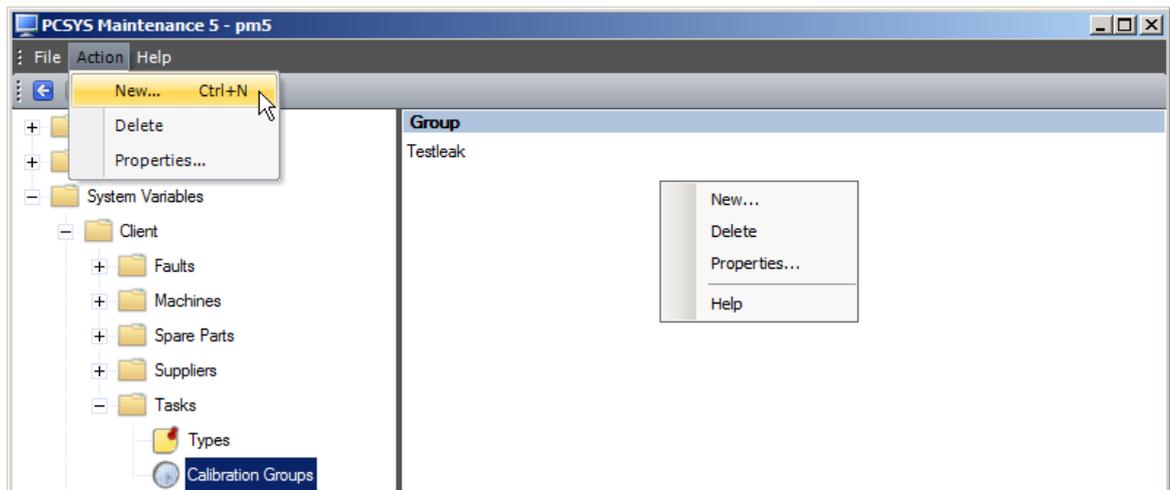
3.12.1.2.2 Calibration Groups

Calibration Groups provide a way to enter additional data for Tasks. They are similar to [Custom Field Groups](#) in the way that they both allow you to add new fields. However, in Custom Field Groups, if you make any changes to the values you entered, you are unable to look back on its past values. With Calibration Groups, you can choose to enter data every time a Task is performed and you can keep track of the changes you've made by looking at its Calibration History.

To learn how to use Calibration Groups in the Client Application, please click [here](#).

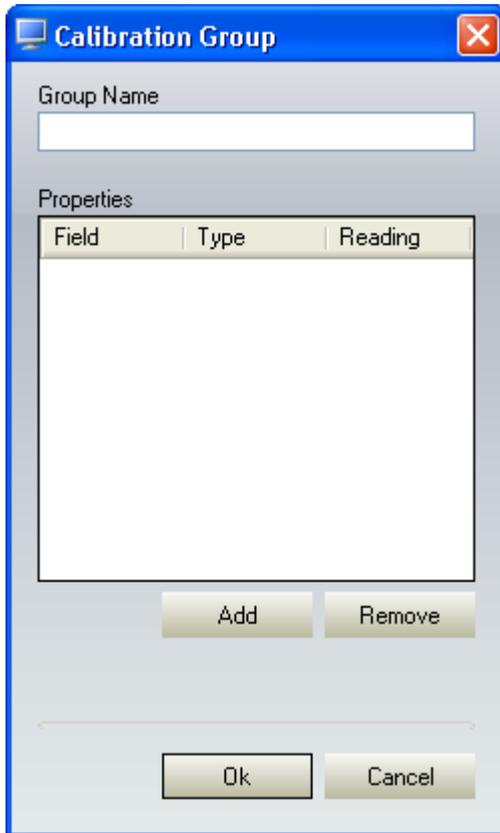
Now let's take a look at how to add, edit and delete Calibration Groups.

Below, you will see the menu items adding, editing (Properties...) and deleting.



The Administration Module Calibration Groups List - Showing how to add, delete and edit Calibration Groups

When you click 'New...', you will see a dialog where Group Name and Fields can be defined. Only the Group Name is required.



Field	Type	Reading
-------	------	---------

The Administration Module Calibration Group Add Form

Field is where you enter your desired name for your custom field.

Type controls what data can be entered in the field. The types available are Date, Number and Text. The values you will be able to enter in the field will depend on the type of the field. A field that has a 'Date' type only accepts Dates, a 'Number' type will only accept numbers and a 'Text' type will allow you to enter virtually any type of text.

The last field, Reading, controls whether a value can be recorded in the field every time an Task is performed. If the Reading box is checked, a value can be entered every time. If it is not checked, the value of the field can only be entered once. To see how this works in the Client Application, please click [here](#).

Group Name
Wheel Alignment

Properties

Field	Type	Reading
Front	Number	<input checked="" type="checkbox"/>
Back	Number	<input checked="" type="checkbox"/>
Last Perfor...	Date	<input checked="" type="checkbox"/>
Responsible	Text	<input type="checkbox"/>

Add Remove

Ok Cancel

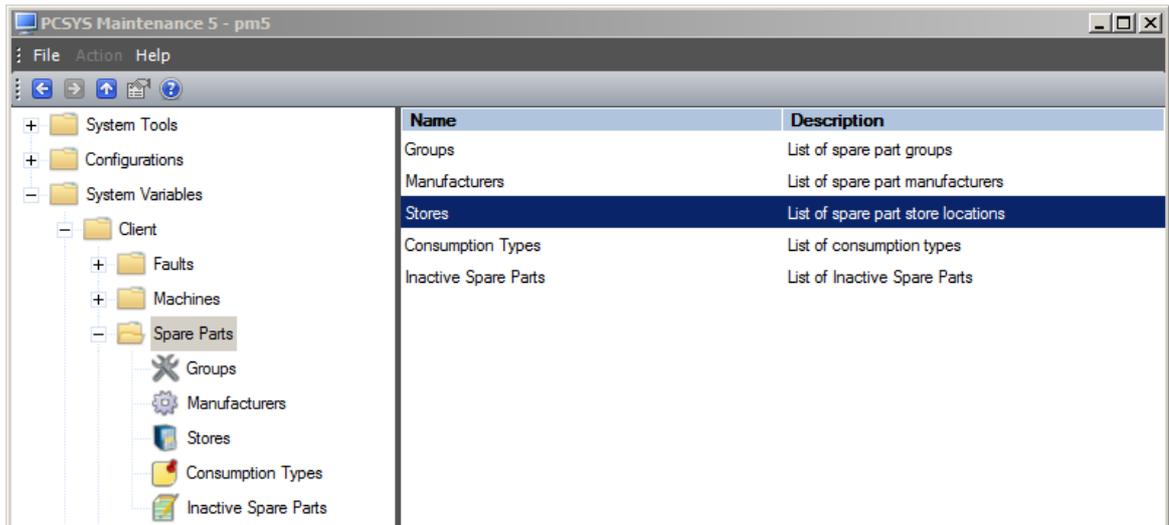
The Administration Module Calibration Group Edit Form

All the Task Types that appear in the Administration Module can be selected in the Client Application.

The Administration Module Calibration Groups List and The Client Application Task Tab Calibration Sub Tab - Showing the Calibration Groups available

3.12.1.3 Spare Parts

Spare Parts contains a list of the "fixed" fields found in a Spare Part in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Stores, you will be taken to the list of Stores.



The Administration Module System Variables -> Client -> Spare Parts List - Showing how to jump to child items

To read more about a 'fixed' field in a Spare Part, click on one of the links below:

- [Groups](#)
- [Manufacturers](#)
- [Stores](#)
- [Consumption Types](#)
- [Inactive Spare Parts](#)

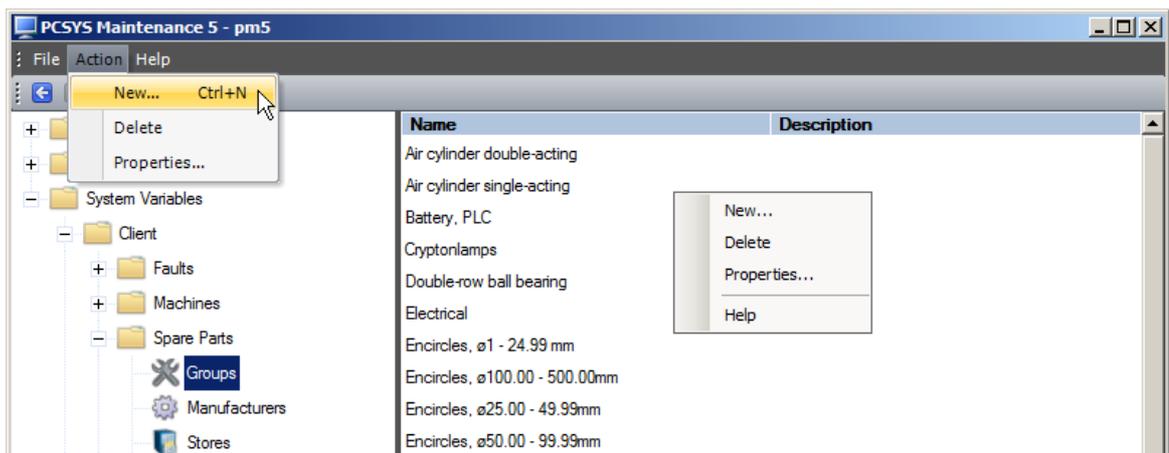
3.12.1.3.1 Groups

Spare Part Groups help you to categorize your Spare Parts.

To learn how to assign Groups to a Spare Part, please click [here](#).

Now let's take a look at how to add, edit and delete Spare Part Groups.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



The Administration Module Spare Part Groups List - Showing how to add, delete and edit Spare Part Groups

When you click 'New...', you will see a dialog where Group Name and Description can be defined. Only the Group Name is required.

The Administration Module Spare Part Group Add Form

All the Spare Part Groups that appear in the Administration Module can be selected in the Client Application.

The Administration Module Spare Part Groups List and The Client Application Spare Part Add Form - Showing the Spare Part Groups available

3.12.1.3.2 Manufacturers

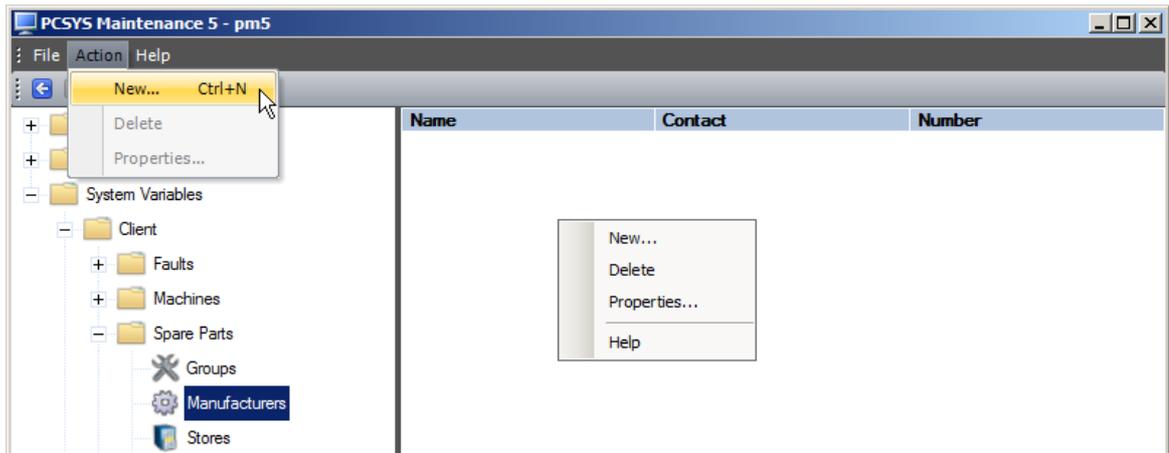
Manufacturers help you identify the manufacturers of a Spare Part.

To learn how to assign Manufacturers to a Spare Part, please click [here](#).

To see how to produce a Report using Manufacturers, click [here](#).

Now let's take a look at how to add, edit and delete Manufacturers.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



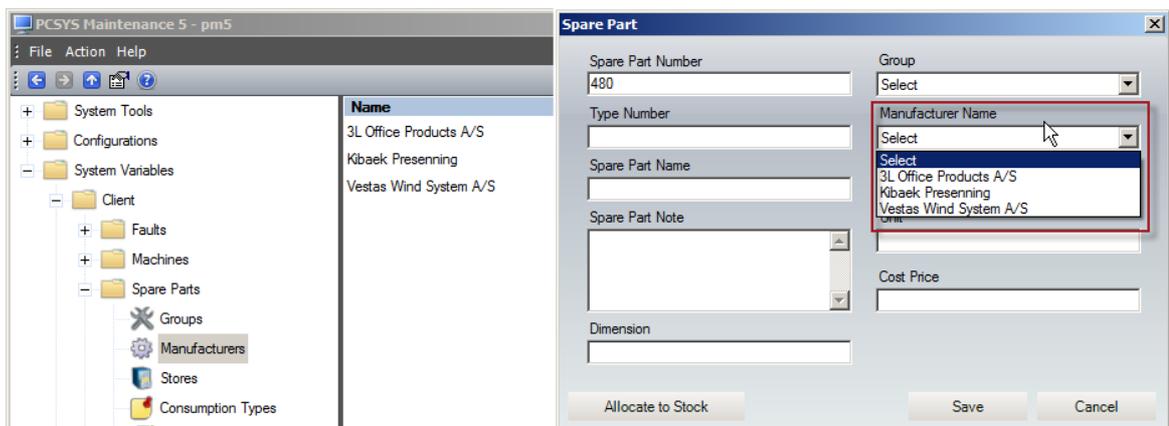
The Administration Module Manufacturers List - Showing how to add, delete and edit Manufacturers

When you click 'New..,' you will see a dialog where the Manufacturer's Name, Contact Person and Number can be defined. Only the Manufacturer's Name is required.



The Administration Module Manufacturer Add Form

All the Manufacturers that appear in the Administration Module can be selected in the Client Application.



The Administration Module Spare Part Manufacturers List and The Client Application Spare Part Add

Form - Showing the Manufacturers available

3.12.1.3.3 Stores

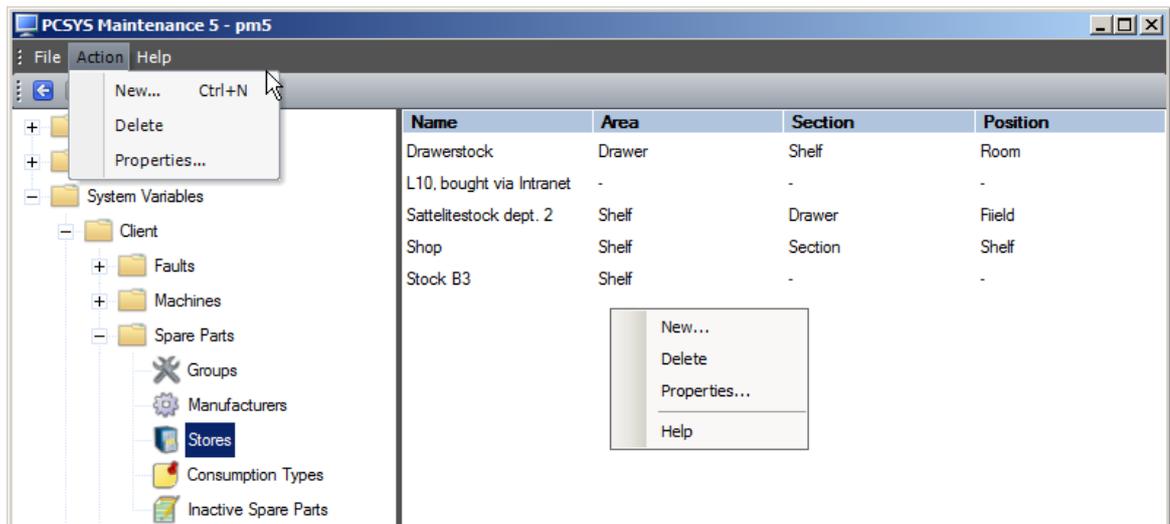
Stores represent storage areas such as rooms, shelves, floor levels, etc.

To learn how to use Stores in the Client Application, please click [here](#).

To see how to produce a Report using Stores, click [here](#).

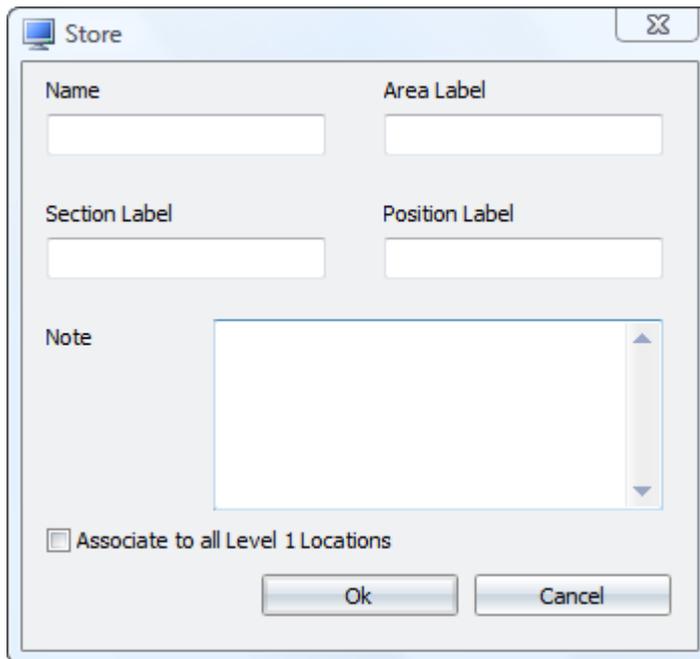
Now let's take a look at how to add, edit and delete Stores.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



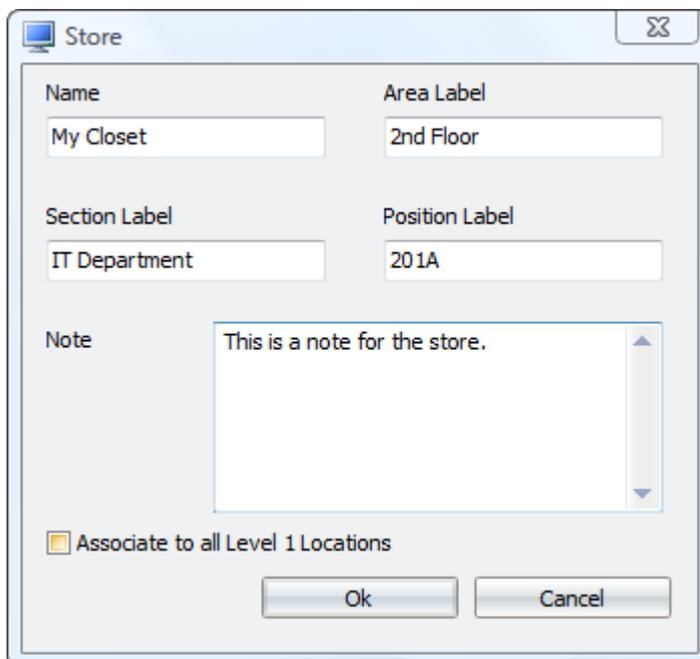
The Administration Module Stores List - Showing how to add, delete and edit Stores

When you click 'New..,' you will see a dialog where the Store's Name, Area Label, Section Label and Position can be defined. Only the Store's Name and Area Label are required.



The Administration Module Store Add Form

The Area Label, Section Label and Position Label help you to define where your Store is located. Let's say you have a store called "My Closet" located in room 201A of the IT Department on the second floor. To define that store in PM5, you would use "My Closet" as its Name, "Second Floor" as its Area Label, "IT Department" as its Section Label and "201A" as its Position Label. You can add more describing text for the store.



The Administration Module Store Edit Form

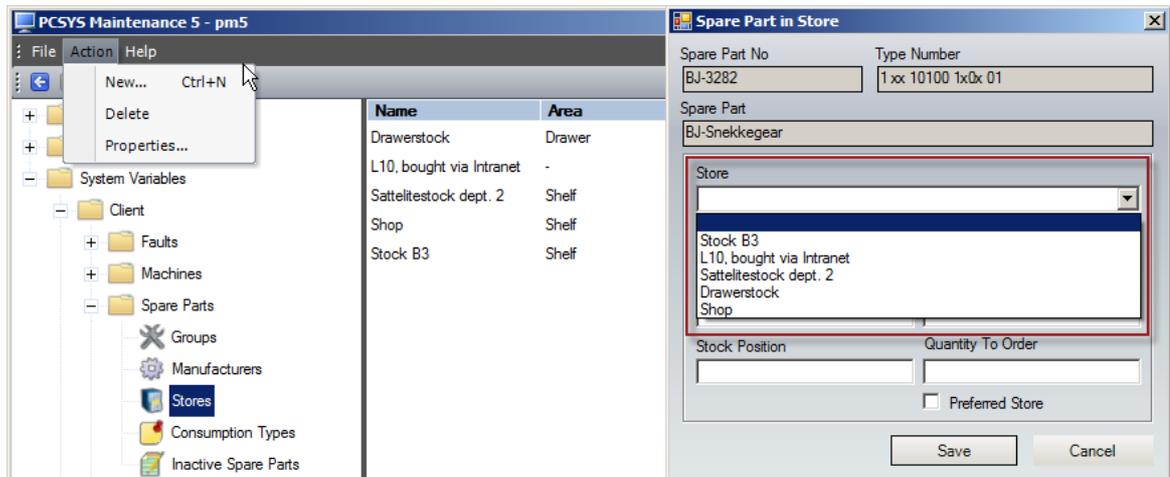
When you put a check on the Associate to all Level 1 Locations checkbox, it means that you are

assigning the stores to all level 1 or parent locations.



Automatic association of store to all level 1 locations

All the Stores that appear in the Administration Module can be selected in the Client Application.



The Administration Module Spare Part Stores List and The Client Application Spare Part In Store Add Form - Showing the Stores available

3.12.1.3.4 Consumption Types

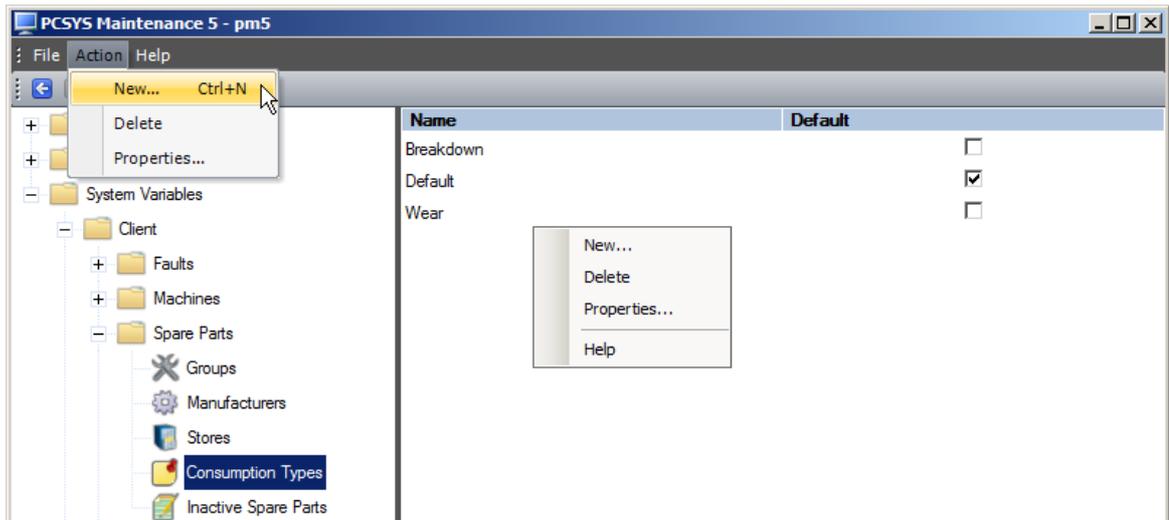
Spare Parts are used to replace parts in a Machine that have stopped working. Consumption Types identify "why" the Spare Part is being replaced.

For example, if the Consumption Type is "Wear," you will know that the reason the part was replaced is because the part has been worn out after normal use. If the Consumption Type is "Breakdown," you would know that the part is being replaced because it broke down earlier than it normally should.

To learn how to use Consumption Types in the Client Application, please click [here](#).

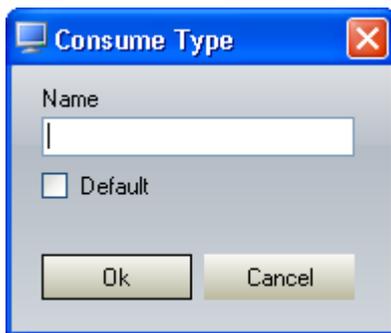
Now let's take a look at how to add, edit and delete Consumption Types.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



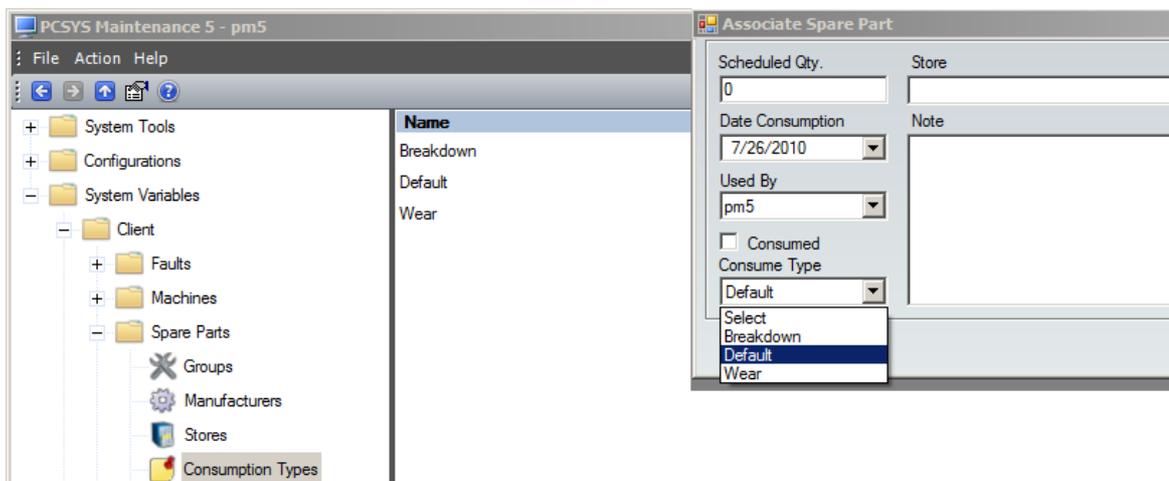
The Administration Module Consumption Types List - Showing how to add, delete and edit Consumption Types

When you click 'New...', you will see a dialog where the Consumption Type can be defined. Here you can also set the Consumption Type as default, which means it will always be the value used for Consumption Type unless another one is selected. You are required to enter a Name.



The Administration Module Consumption Type Add Form

All the Consumption Types that appear in the Administration Module can be selected in the Client Application.

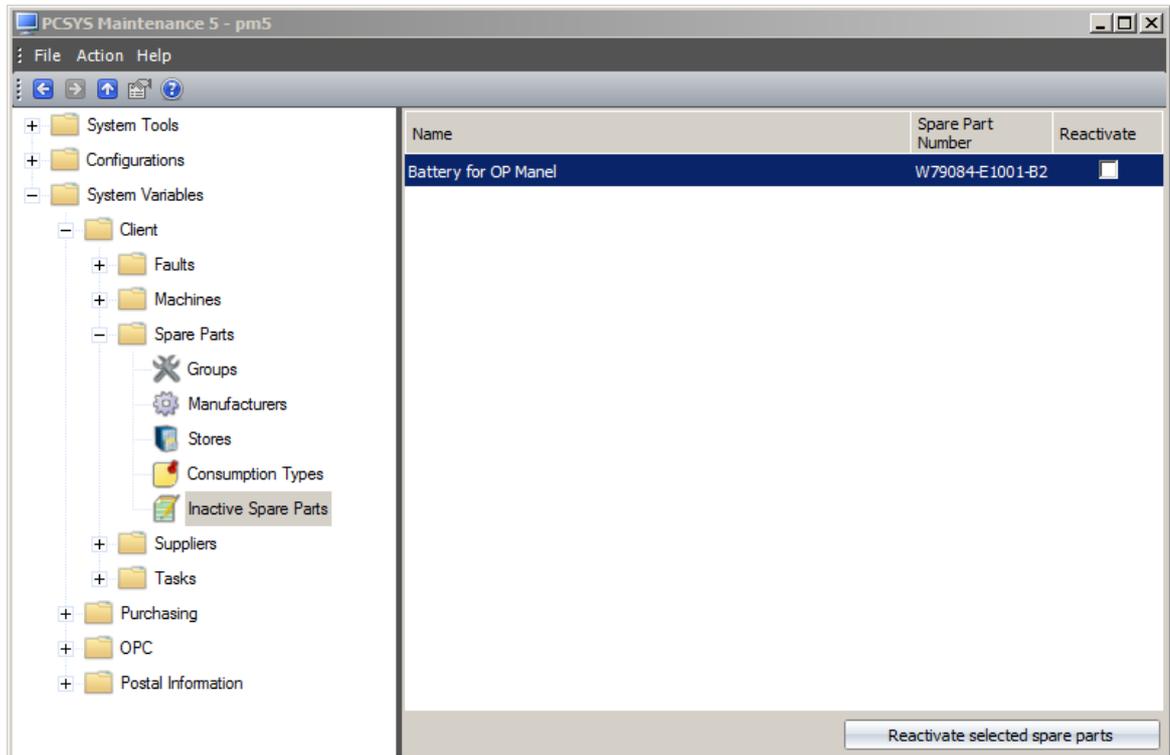


The Administration Module Consumption Types List and The Client Application Associate Spare Part Form - Showing the Consumption Types available

3.12.1.3.5 Inactive Spare Parts

Inactive Spare Parts shows deleted Spare Parts that have been consumed in an Activity or a Fault. Spare Parts that have not been consumed are not displayed here and are deleted permanently.

To "undelete" or "restore" an inactive Spare Part, check the Reactivate box of the Spare Part and click "Restore."

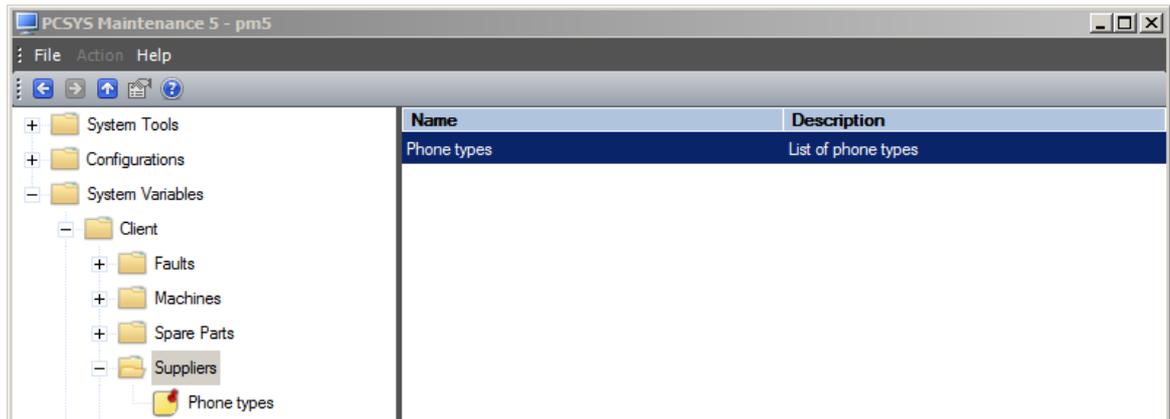


The Administration Module Inactive Spare Parts List - Showing how to Restore Spare Parts

After restoring them, you will see the spare parts in the Spare Part tab.

3.12.1.4 Suppliers

Suppliers contains a list of the "fixed" fields found in a Supplier in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Phone Types, you will be taken to the list of Phone Types.



The Administration Module System Variables -> Client -> Suppliers List - Showing how to jump to child items

To read more about a 'fixed' field in a Supplier, click on one of the links below:

- [Phone Types](#)

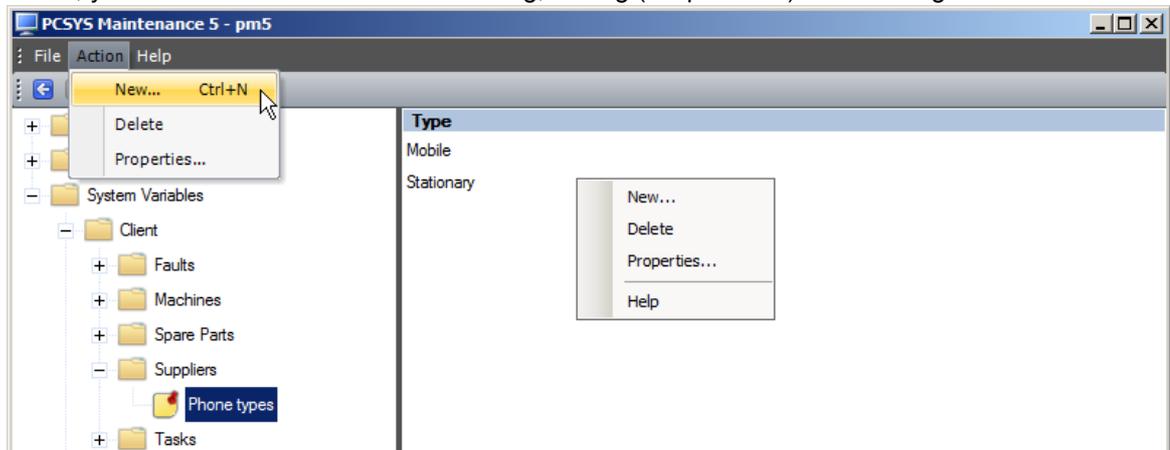
3.12.1.4.1 Phone Types

Phone Types represent the phones used by Suppliers. They could be mobile phones, land phones, wired or wireless phones depending on the type of phones that your Suppliers use.

To learn how to assign Phone Types to a Supplier, please click [here](#).

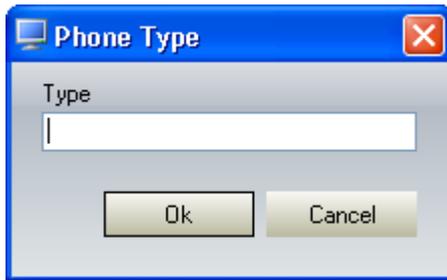
Let's take a look at how to add, edit and delete Phone Types.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



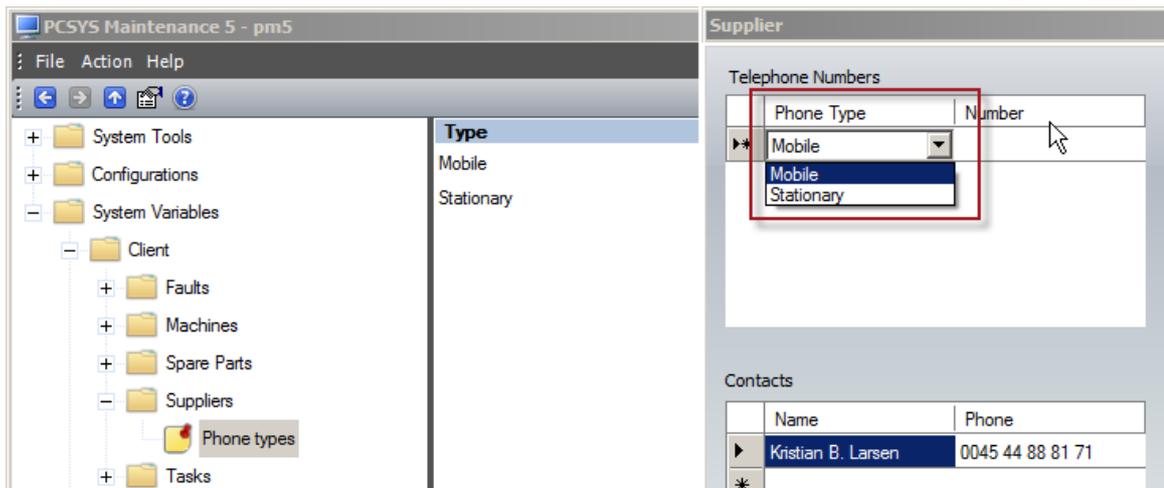
The Administration Module Phone Types List - Showing how to add, delete and edit Phone Types

When you click 'New..,' you will see a dialog where the Type can be defined. You are required to enter a Type.



The Administration Module Phone Types Add Form

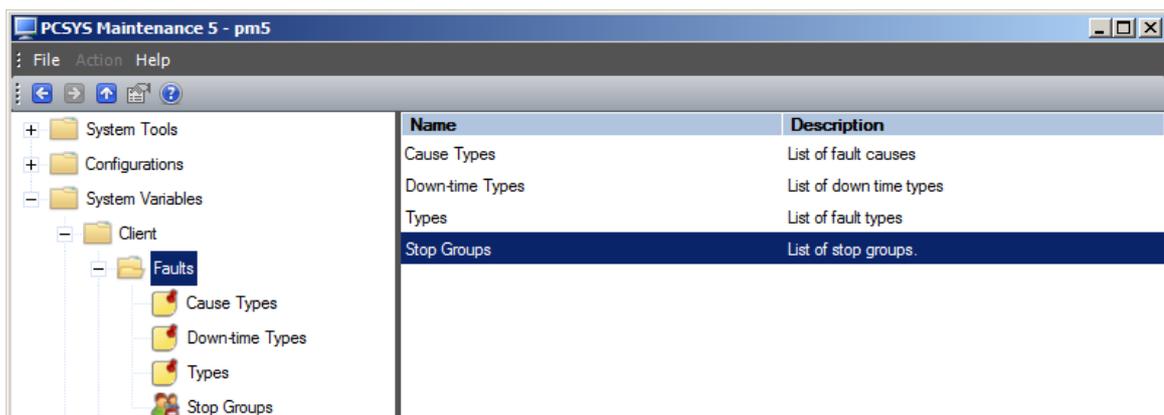
All the Phone Types that appear in the Administration Module can be selected in the Client Application.



The Administration Module Phone Types List and The Client Application Supplier Add Form - Showing the Phone Types available

3.12.1.5 Faults

Faults contains a list of the "fixed" fields found in a Fault in the Client Application. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Stop Groups, you will be taken to the list of Stop Groups.



The Administration Module System Variables -> Client -> Faults List - Showing how to jump to child items

To read more about a 'fixed' field in a Supplier, click on one of the links below:

- [Cause Types](#)
- [Down-time Types](#)
- [Types](#)
- [Stop Groups](#)

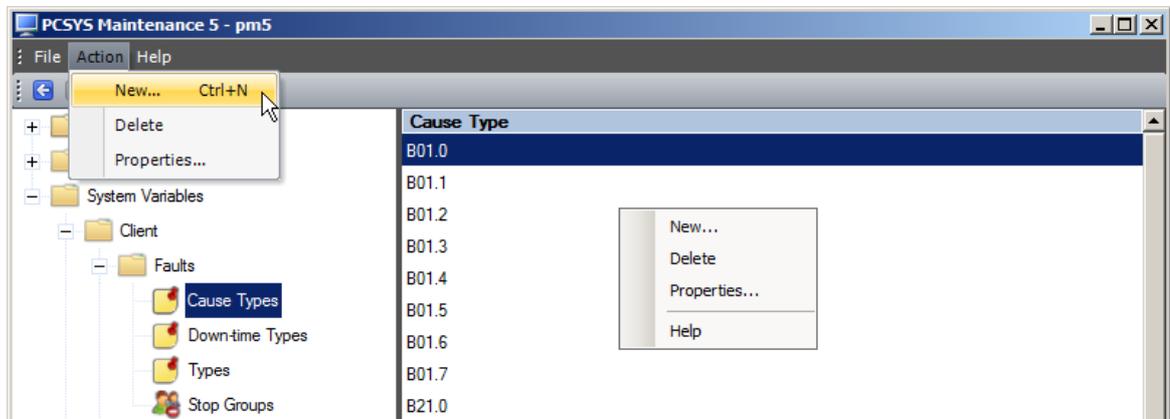
3.12.1.5.1 Cause Types

There is always a reason why Faults occur. Cause Types help you to immediately identify that reason. If you need a more detailed description about what caused a Fault, you will be able to see it in Fault Description.

To learn how to assign Cause Types to a Fault, please click [here](#).

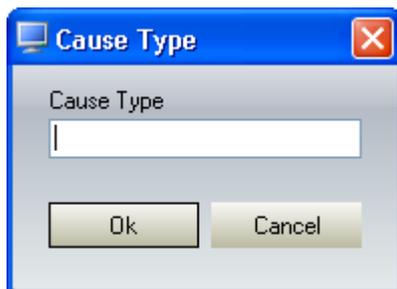
Now let's take a look at how to add, edit and delete Cause Types.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



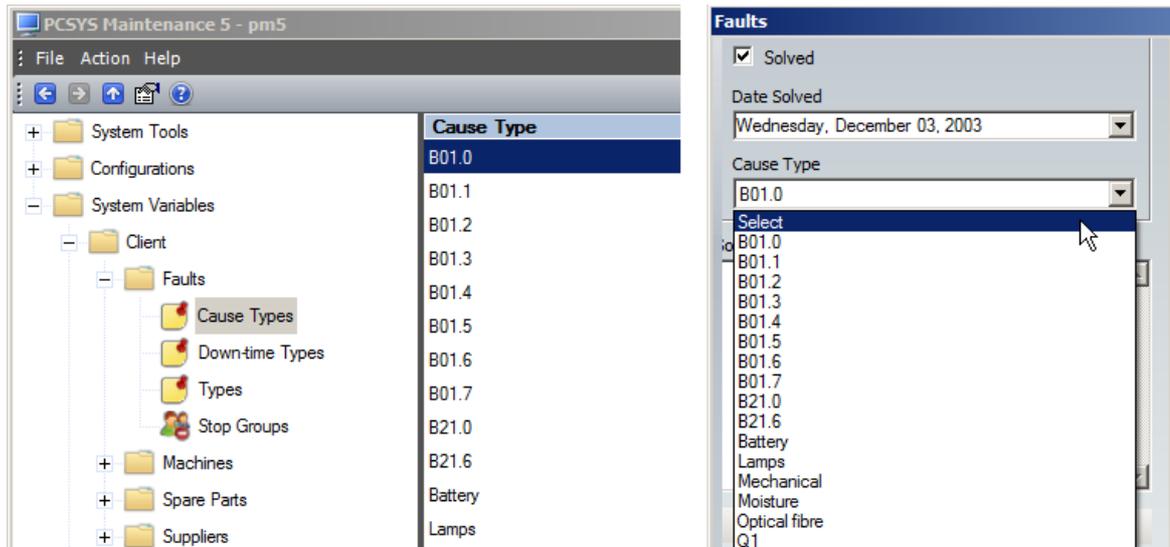
The Administration Module Cause Types List - Showing how to add, delete and edit Cause Types

When you click 'New..,' you will see a dialog where the Cause Type can be defined. You are required to enter a Cause Type.



The Administration Module Cause Types Add Form

All the Cause Types that appear in the Administration Module can be selected in the Client Application.



The Administration Module Cause Types List and The Client Application Fault Add Form - Showing the Cause Types available

3.12.1.5.2 Down-time Types

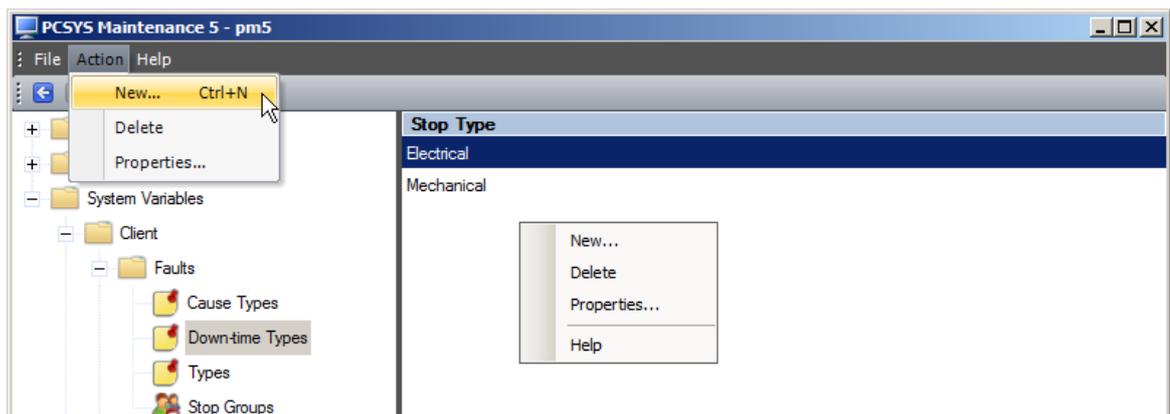
Machines break down from time to time and when they do, they are unable to provide service. Down-time Types tell you why a Machine is currently unavailable.

Let's say you have a Machine that has stopped and in the details of its Stop, it was assigned a Down-time Type of "Electrical." Based on this fact, you can immediately say that the Machine is "down" because of an electrical problem.

To learn how to assign Down-time Types to a Stop, please click [here](#).

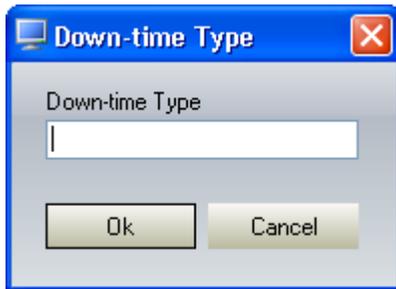
Now let's take a look at how to add, edit and delete Down-time Types.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



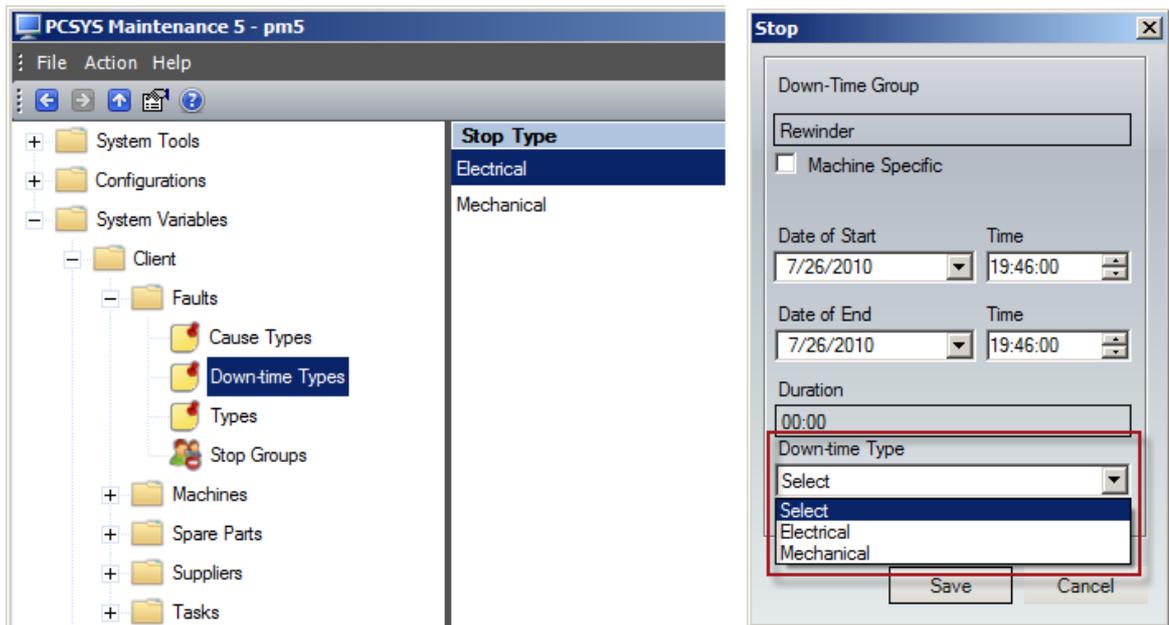
The Administration Module Down-time Types List - Showing how to add, delete and edit Down-time Types

When you click 'New...', you will see a dialog where the Down-time Type can be defined. You are required to enter a name for the Down-time Type.



The Administration Module Down-time Types Add Form

All the Down-time Types that appear in the Administration Module can be selected in the Client Application.



The Administration Module Down-time Types List and The Client Application Stop Add Form - Showing the Down-time Types available

3.12.1.5.3 Fault Types

Fault Types give a short description of a Fault. Let's say your car's computer suffers an "Electric Failure." To give the Fault a quick description, you can use "Electric Failure" as its Fault Type. So, whenever you see a Fault Type, you will get an idea of what the Fault is.

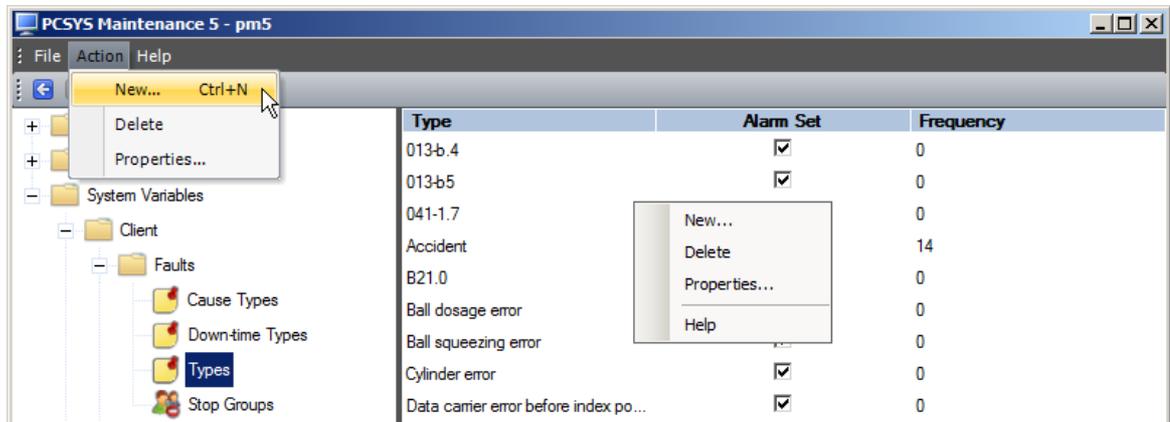
You might get confused with Fault Types and Cause Types because they appear to be similar. To clearly distinguish between them, keep in mind that Fault Types, such as "Electric Failure" tell you what kind of Fault occurred whereas Cause Types, such as "Moisture," tell you why the Fault occurred. Of course, how you use Fault Types and Cause Types will depend on your business. They are provided in PM5 for flexibility and convenience.

With Fault Types, you can also set an alarm that monitors the frequency of a Fault. If the alarm goes off because a Fault happens too frequently, the Fault is displayed in **red text** in the Client Application.

To learn how to assign Fault Types to a Fault, please click [here](#).

Now let's take a look at how to add, edit and delete Fault Types.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



The Administration Module Fault Types List - Showing how to add, delete and edit Fault Types

When you click 'New...', you will see a dialog where the Fault Type can be defined. You are required to enter a Fault Type.



The Administration Module Fault Types Add Form

When you select a Fault and click "Properties...", you will see a dialog where you can set an alarm. What you enter in the Frequency box will determine the number of days allowed in between Fault occurrences before the alarm is triggered. This means that if you set a Frequency of "2" for a Fault Type and the Fault repeatedly occurs within 2 days, an alarm will be triggered. If the Fault occurs outside of 2 days, it will not trigger an alarm.

To enable the alarm, you must check the box labeled "Alarm when fault occurs too frequently."

The Administration Module Fault Types Edit Form

All the Fault Types that appear in the Administration Module can be selected in the Client Application.

Type
013-b.4
013-b5
041-1.7
Accident
B21.0
Ball dosage error
Ball squeezing error
Cylinder error
Data camter error before index po...
Electric failure
Emission error
Error in squeezing power
Mechanical

The Administration Module Fault Types List and The Client Application Fault Add Form - Showing the Fault Types available

3.12.1.5.4 Stop Groups

A Stop Group is used to categorize Stops. This is useful when you want to know if other machines are affected by the stoppage of one Machine.

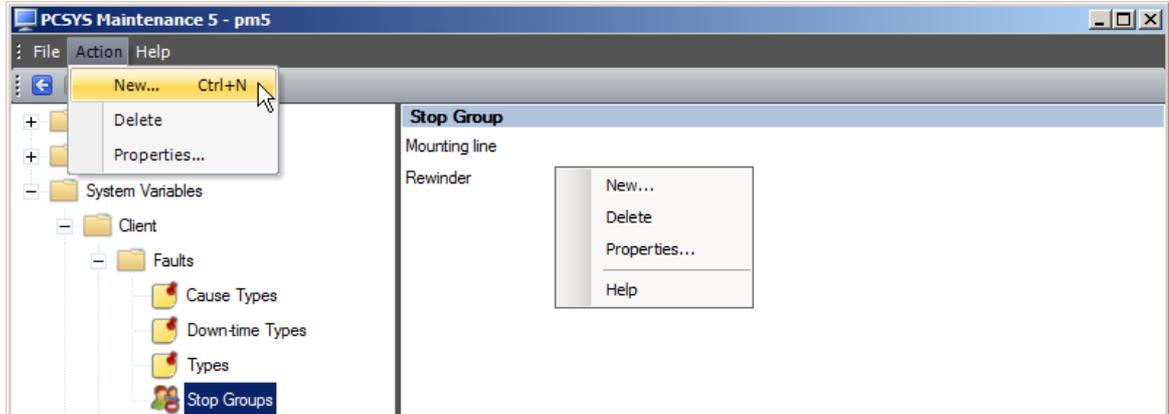
Let's say you have 3 machines namely CPU, Keyboard and Monitor that belong to one Stop Group called PC. Due to heavy use your Keyboard breaks down and it affects the CPU and the Monitor. Because they all belong to one Stop Group, it is understood that the Keyboard's stoppage affects the other Machines in the Stop Group.

On the other hand, if the stoppage of the Keyboard did not affect any other Machine, its Stop Group can be set to "Machine Specific," to make it clear that its break down only affects itself and no other Machines.

To learn how to assign Stop Groups to a Machine and how to set "Machine Specific" Stops, please click [here](#).

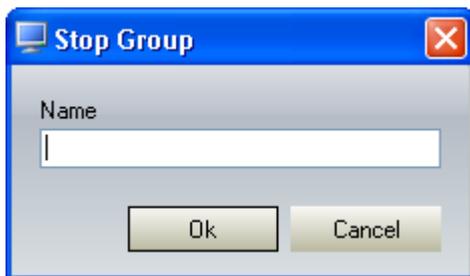
Now let's take a look at how to add, edit and delete Stop Groups.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



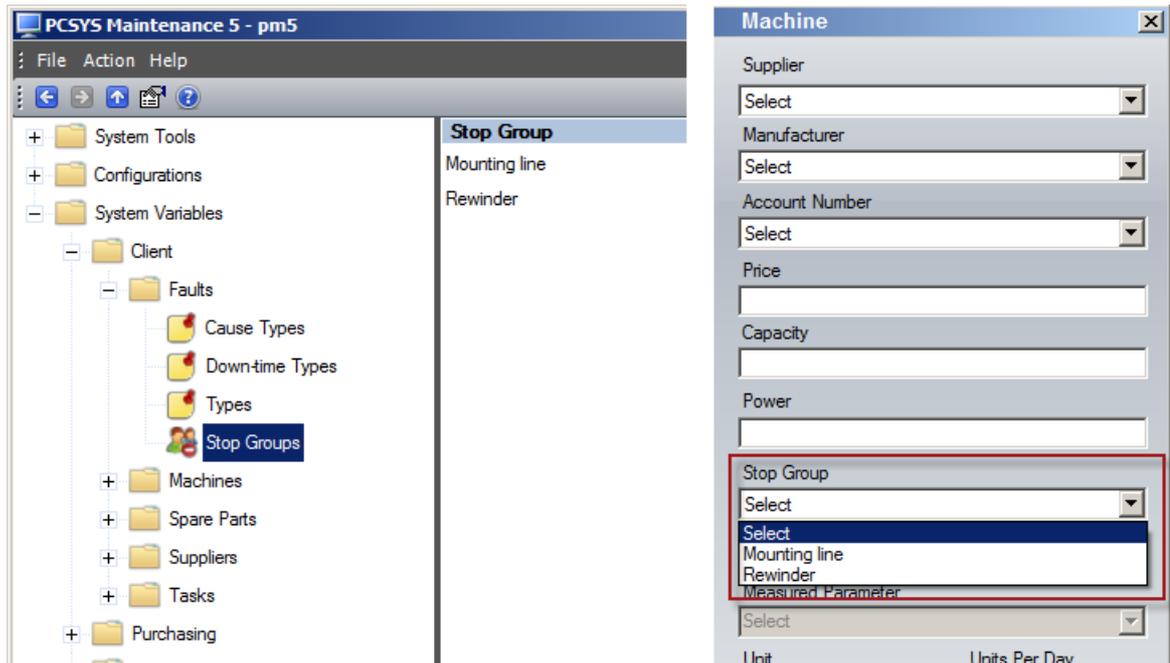
The Administration Module Stop Groups List - Showing how to add, delete and edit Stop Groups

When you click 'New..,' you will see a dialog where the Stop Group can be defined. You are required to enter a name for the Stop Group.



The Administration Module Stop Groups Add Form

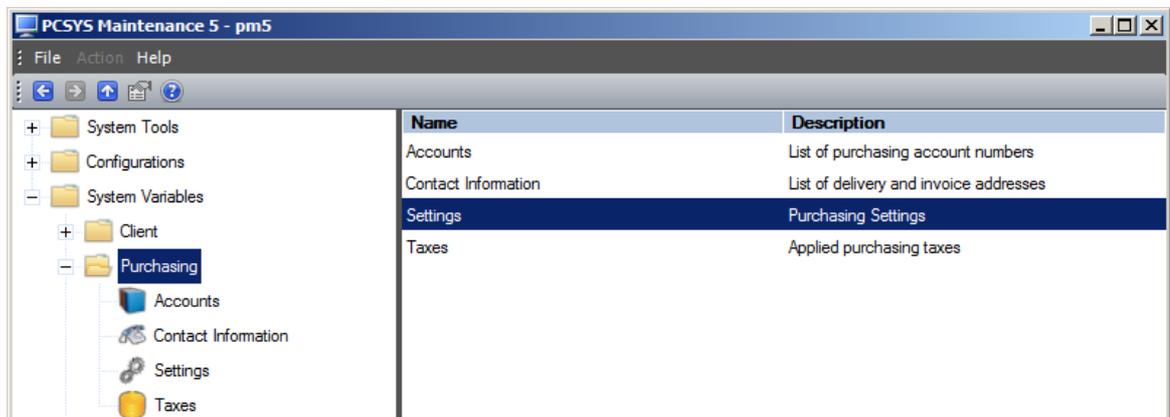
All the Stop Groups that appear in the Administration Module can be selected in the Client Application.



The Administration Module Stop Groups List and The Client Application Machine Add Form - Showing the Stop Groups available

3.12.2 Purchasing

Purchasing contains a list of the "fixed" fields as well as configurable options found in the Purchasing Module. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Settings, you will be taken to the list of Settings.



The Administration Module System Variables -> Purchasing List - Showing how to jump to child items

To read more about a 'fixed' field in the Purchasing Module, click on one of the links below:

- [Accounts](#)
- [Contact Information](#)
- [Settings](#)
- [Taxes](#)

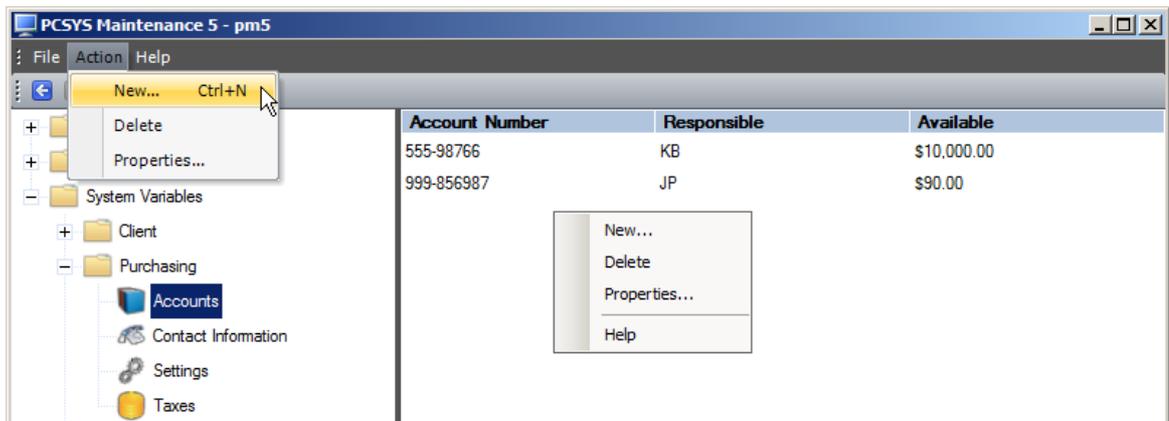
3.12.2.1 Accounts

Accounts contains the list of accounts used in the Purchase module. An account in PM5 is similar to a real world bank account. It has an account number, amount of money left in the account and other information such as when the account was created and whether it is still open or has been closed.

It is used when creating Purchase Orders in the Purchase Module. When a Purchase Order has been sent and the Spare Parts ordered have been received, the cost of the Spare Parts are deducted from the amount of money in the Account. To see how this is done in the Purchase Module, please click [here](#).

Now let's take a look at how to add, edit and delete Purchasing Accounts.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



The Administration Module Purchasing Accounts List - Showing how to add, delete and edit Purchasing Accounts

When you click 'New...', you will see a dialog where the Account Number, Description, Person Responsible for the Account (Responsible) and Starting Amount can be defined. You are required to enter an Account Number.

The 'Account Number' dialog box contains the following fields and controls:

- Account Number:
- Description:
- Responsible: (with a dropdown arrow)
- Start Amount: \$ _____ 0.00
- Buttons: Ok, Cancel

The Administration Module Purchasing Account Add Form

When you select an Account and click "Properties...", you will see a dialog that shows you the amount used, amount available and the date the account was created in addition to the fields you see when creating a new account. The amount used is the same as the cost of the spare parts that have been ordered and received in the Purchase Module. To see how ordering and receiving is done, please click [here](#).

The Administration Module Purchasing Account Edit Form

All the Accounts that appear in the Administration Module can be selected in the Purchase Module.

The Administration Module Purchasing Accounts List and Purchase Module Order Form - Showing the Accounts available

3.12.2.2 Contact Information

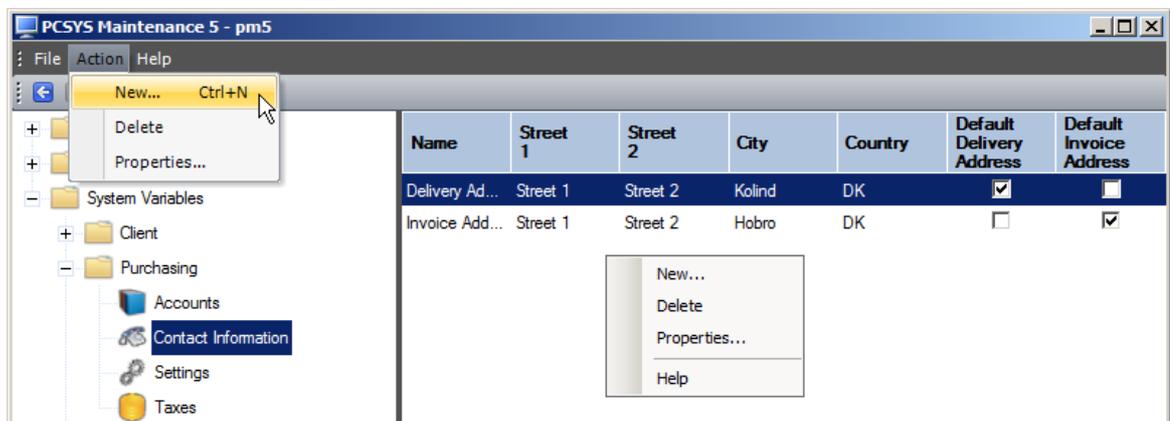
Contact Information allows you to define the addresses for delivery and invoicing in a Purchase Order and their associated phone and fax numbers.

The reason for having two addresses is that sometimes the address where the Spare Parts will be delivered is different from the address where the bill should be sent to. For example, you could have a warehouse as a delivery address and a corporate center as an invoice address. This way, the Spare Parts will be brought to the warehouse and the bill will be sent to the corporate center.

Of course, how you use addresses depends entirely on how you conduct your business; it is possible for you to have the same delivery and invoice address. The separation of addresses is a feature that provides you with greater flexibility only if you need it. To learn how to set the delivery and invoice addresses in a Purchase Order, please click [here](#).

Now let's take a look at how to add, edit and delete Purchasing Addresses.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



The Administration Module Purchasing Addresses List - Showing how to add, delete and edit Purchasing Addresses

When you click 'New...', you will see a dialog where the Name, Street, Country, Zip Code, City, Phone Number, Fax Number can be defined. You are required to enter a Name and a Street.

If you want to know how to define a Country, please click [here](#).

If you want to learn how to create a City (and its corresponding Zip Code), please click [here](#).



Contact Information

Name
|

Street 1
|

Street 2
|

Country
Select

Zip Code City:
| Select

Phone
|

Fax
|

Set as default delivery address

Set as default invoice address

Ok Cancel

The Administration Module Purchasing Account Add Form

When you select an Address and click "Properties...", you will see the boxes "Set as default delivery address" and "Set as default invoice address." Here, default means the same as automatic. So, if you check the default delivery address box of an address, that address automatically becomes the delivery address for all new Purchase Orders unless you explicitly change it. The default invoice address box also controls the invoice address for all new Purchase Orders.

The Administration Module Purchasing Account Edit Form

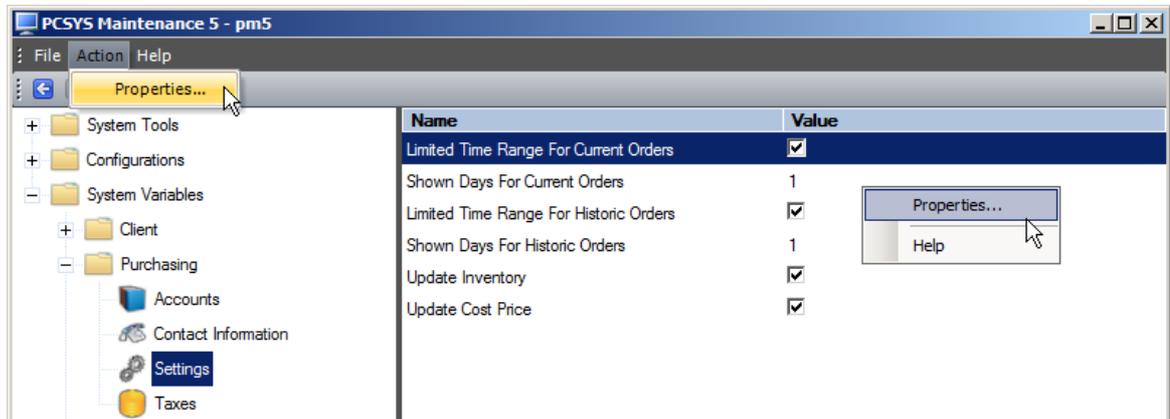
All the Addresses that appear in the Administration Module can be selected in the Purchase Module.

The Administration Module Purchasing Addresses List and Purchase Module Order Form - Showing the Addresses available

3.12.2.3 Settings

Settings allows you to control the behavior of the Purchase Module. To learn how to use the Purchase Module, please click [here](#).

Let's take a look at how to change Purchasing Settings.



The Administration Module Purchasing Settings List - Showing how to change the Purchasing Settings

When you click 'Properties..,' you will see a dialog where you can change various settings. What each setting does is explained below.

Purchasing module setup

Use Limited Time Range for Current Orders
Number of Days To Show

Use Limited Time Range for Historic Orders
Number of Days To Show

Receive Update

Inventory Cost Price

Delete Orders Older Than

Invoice Notes

The Administration Module Purchasing Settings Edit Form

Purchasing Settings:

- Use Limited Time Range For Current Orders - This setting works in combination with its Number of Days To Show box. If you check this setting and enter "30" in its Number of Days to Show box, orders that *have not* been closed will only be displayed within 30 days of the date it was created.
- Use Limited Time Range For Historic Orders - This setting works in combination with its Number of Days To Show box. If you check this setting and enter "30" in its Number of Days to Show box, orders that *have* been closed will only be displayed within 30 days of the date it was created.
- Receive Update: Inventory - If you check this setting, whenever Spare Part orders are received, their inventory (Stock) in the Spare Parts Tab Stores Sub Tab in the Client Application gets updated. If "5" Spare Parts are ordered and there are currently "3" of those parts, when those Spare Parts are received the stock will be updated to have a value of "8" (5 + 3).

Machines		Tasks		Spare Parts		Suppliers		Activities / Faults			
Spare Part Name		Spare Part		Manufacturer		Type Number					
Ballbearing SKF		981X1396				6005 2RS					
Ballbearing SKF		981X1410				6007 2RS					
Batterie Siemens PS S5-115U/H		984F9269				6 EW 1000-7AA					
Battery for OP Manel		W79084-E1001-B2				5705150480546					
BJ-Snekkegear		BJ-3282				1 xx 10100 1x0x 01					
Page 1 showing 1 to 20 of total 29											
Details		Machines		Consumptions		Stores		Suppliers		Attachments	
Store		I		II		III		Stock		Quant	
Drawerstock		Drawer 4		Shelf 1		Room 13		3		5	

The Client Application Spare Parts Tab - Stores Sub Tab - Showing a Spare Part's Inventory

- Receive Update: Cost Price - Checking this box causes a Spare Part's Cost Price to be updated whenever an ordered Spare Part is received. You can enter a new Cost Price for a Spare Part whenever you add a Spare Part to a Purchase Order. To see how this is done, please click [here](#).

Spare Part
✕

Spare Part Number <input type="text" value="986U2058"/>	Group <input type="text" value="Air cylinder double-acting"/>
Type Number <input type="text" value="DSNU-10-10-P-A"/>	Manufacturer Name <input type="text" value="Select"/>
Spare Part Name <input type="text" value="Aircylinder Festo"/>	Bar Code <input type="text"/>
Spare Part Note <div style="border: 1px solid gray; height: 30px; width: 100%;"></div>	Unit <input type="text" value="Pcs"/>
Dimension <input type="text"/>	<div style="border: 2px solid red; padding: 2px;"> Cost Price <input type="text" value="213.54"/> </div>

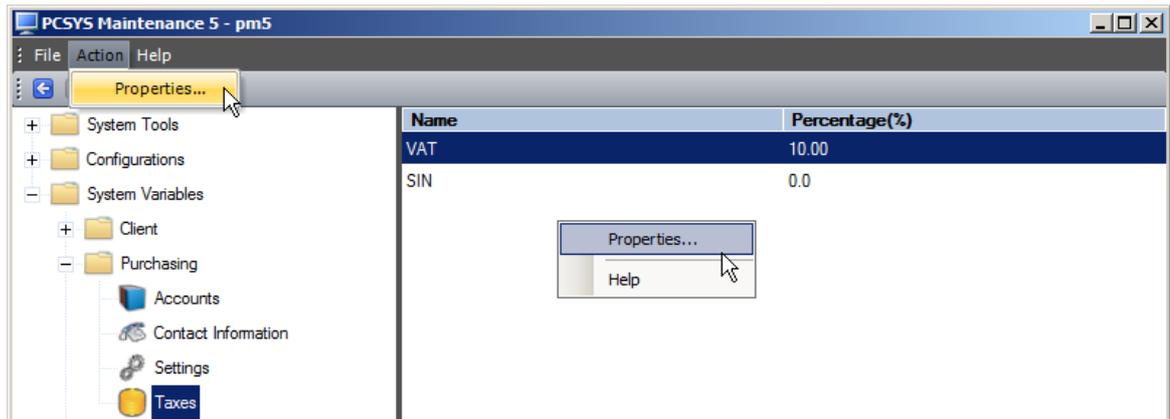
The Client Application - Spare Parts Edit Form - Showing a Spare Part's Cost Price

- Delete Orders Older Than: Date - If you choose a date and click on the Delete button, all Purchase Orders that were created before the selected date will be deleted.
- Invoice Notes - What you type in here will automatically become the invoice notes for all new Purchase Orders, unless you explicitly change them.

3.12.2.4 Taxes

Taxes allows you to change the names and percentages of the taxes in the Purchase Module. To learn how to use the Purchase Module, please click [here](#).

Let's take a look at how to change the taxes.



The Administration Module Purchasing Taxes List - Showing how to change the Purchasing Taxes

When you click 'Properties..,' you will see a dialog where you can change tax information.

Tax 1	Tax 2
Name: VAT	Name: SIN
Percent (%): 10.00	Percent (%): 0.0

The Administration Module Purchasing Taxes Edit Form

You can see these taxes in the Purchase Order form.

The Purchase Module - Edit Purchase Order Form

3.12.3 OPC

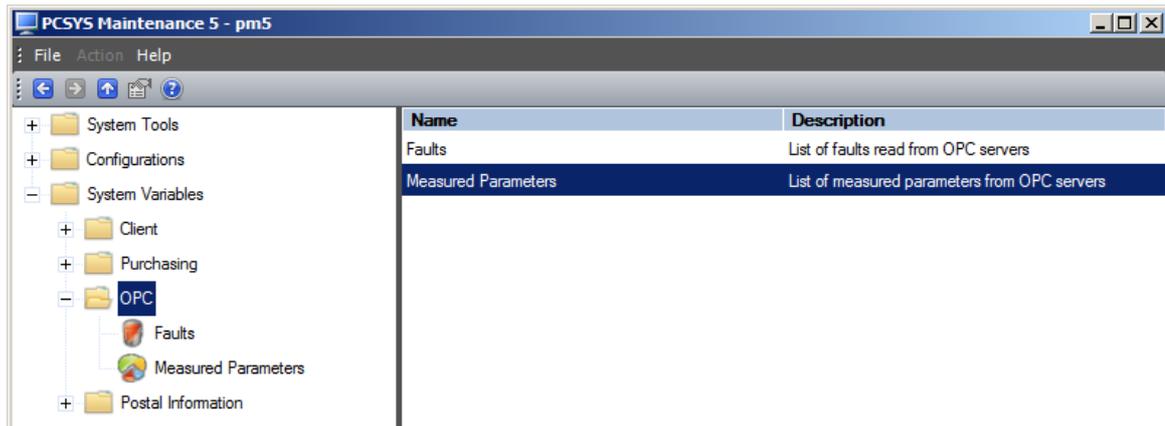
What is OPC? It stands for “open connectivity via open standards,” according the OPC Foundation. OPC, in **PM5**, is used for automatically updating Faults and Measured Parameters. To learn more about Faults, please click [here](#). To learn more about Measured Parameters, please click [here](#).

You will find OPC useful when your Machines need to be closely monitored. To illustrate, let’s say you are running four water-based air conditioning systems and you want to know if any of them experience problems. If you connect them to PM5 via OPC, you will be able to monitor their temperature and water levels and you will easily see if there are any problems because they will automatically show up as Faults.

To be able to use the OPC features, you will need to have the **OPC Core Components** installed with PM5 and a connection to an **OPC Server**. Please refer to the Installation Guide for instructions on how to do this. You can also download the **OPC Core Components Redistributable** file from the [OPC Foundation](#) if you don’t want to run it from the PM5 installer.

If you don’t have OPC compatible machines but would like to try out the OPC functions, you can use an **OPC Simulation Server**. One such server is Iconics’ Free OPC Simulator Server, which you can get from their [website](#). You will need to have the OPC Core Components installed to be able to use the simulation server.

If you want to go directly to a sub item, you can double click on its name to “jump” directly to that item. For example, if you double click on Measured Parameters, you will be taken to the list of Measured Parameters.



The Administration Module System Variables -> OPC List - Showing how to jump to child items

To read more about the fields in OPC, click on one of the links below:

- [Faults](#)
- [Measured Parameters](#)

3.12.3.1 Faults

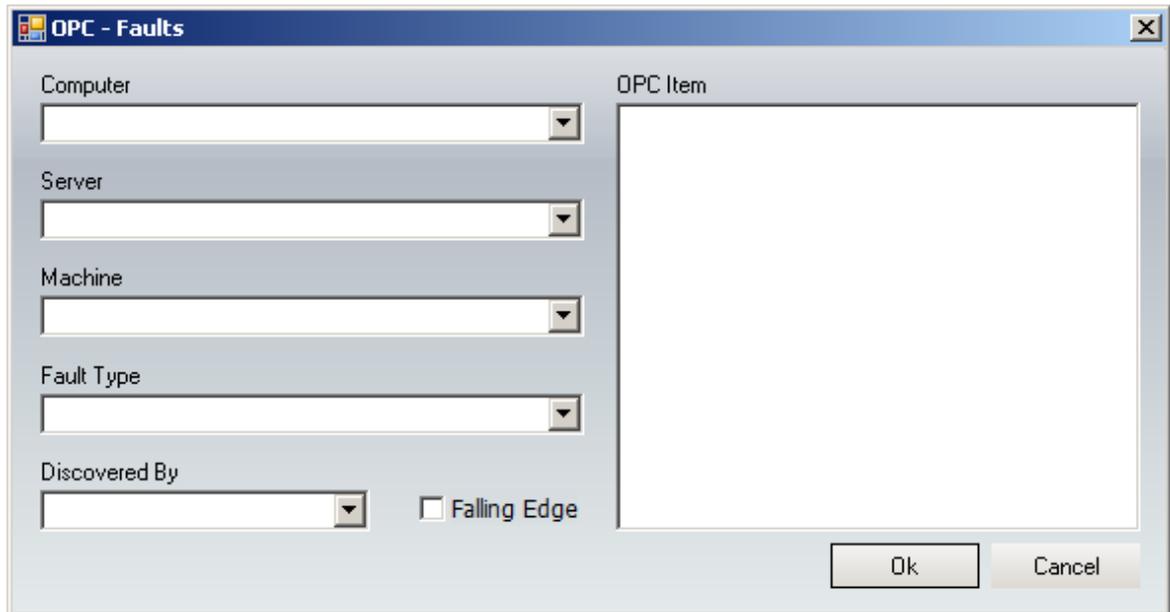
An OPC Fault is similar to a regular Fault in the way that both mean that an error has occurred in a Machine. However, its major difference is that, unlike regular Faults, OPC Faults are automatically generated by the OPC Server. This means that if your OPC connected Machine encounters a problem, the OPC Server will send the details of the problem to PM5, which automatically generates a fault based on the information sent.

To illustrate, here's an example: You have a radiator Machine in PM5. You recently connected that radiator to an OPC Server and set it to send an error when it reaches 100 degrees Celsius. You have also created an OPC Fault, which will be triggered when the OPC Server sends an error. Now, let's say your radiator reached 100 degrees Celsius. What will happen is the OPC Server will send an error to PM5. Once PM5 receives the error, it will create a new OPC Fault. Finally, If you take a look at the Activities\Faults Tab, you will see that a new Fault has been created for your radiator.

To create a new fault using OPC you can do one of three things:

- 1) Action -> New...
- 2) CTRL + N
- 3) Right click the grid and select "New..."

Then you will get this form.



The screenshot shows a Windows-style dialog box titled "OPC - Faults". On the left side, there are five dropdown menus labeled "Computer", "Server", "Machine", "Fault Type", and "Discovered By". Below the "Discovered By" dropdown is a checkbox labeled "Falling Edge". On the right side, there is a large, empty rectangular area labeled "OPC Item". At the bottom right of the dialog, there are two buttons: "Ok" and "Cancel".

The OPC-Faults New Form

Computer - refers to your computer name.

Server - the instance name of the server.

Machine - the name of the machine that you want to be monitored.

Fault Type - the fault of the machine that occurred.

Discovered By - the person who discovered the fault.

Falling Edge check box - means a change from high value to low value. If an OPC fault has a falling edge checked, it means that PM5 will look for the OPC item to change from value 1 to 0. When this occurs PM5 will create an associated fault in the PM5 database. If Falling Edge is not checked, PM5 will look for the OPC item to change from value 0 to 1.

OPC Item - data received or sent by the OPC Server.

- 1) Select a Computer, the Server, the Machine name, Fault Type, who discovered the fault and an OPC Item.

Computer: ARGIENCHAR

Server: argienchar.ICONICS.SimulatorOPCDA

Machine: 3 Montini Truck

Fault Type: Accident

Discovered By: JP Falling Edge

OPC Item: Logical_BOOL

Tree View: argienchar.ICONICS.SimulatorOPCDA

- Logical
 - _BOOL**
 - _BSTR
 - Memory
 - Random
 - Square
- Numeric
- Textual
 - LogicalDataItem
 - NumericDataItem
 - TextualDataItem

Buttons: Ok, Cancel

2) Finally, click Ok. The created OPC Fault can also be seen in the Faults sub tab of the machine where the OPC fault was associated.

Machine	Item	Server	Computer	Fault Type
1 BT truck Cargo 1.5	Logical_BOOL	argienchar.ICONICS.SimulatorOPCDA	ARGIENCHAR	Mechanical
3 Montini Truck	Logical_BOOL	argienchar.ICONICS.SimulatorOPCDA	ARGIENCHAR	Mechanical
3 Montini Truck	Logical_BOOL	argienchar.ICONICS.SimulatorOPCDA	ARGIENCHAR	Accident

Machines	Tasks	Spare Parts	Suppliers	Activities / Faults
Machine Number	ID Code	Machine Name	Location	Date
9853		1 BT truck Cargo 1.5	Outdoors	5/24/2003
9902.2		3 Montini Truck	Outdoors	3/1/2004
9856		4 Nissan truck	Outdoors	7/1/2005
00B		BB0	Outdoors	12/9/2009
905543	03C	Edge and tightnesstest	Mounting	10/6/1994
905543.00		Edge and tightnesstest	00	10/6/1994
905543.01		Edge and tightnesstest st.1	01	10/6/1994
905543.02		Edge and tightnesstest st.2	02	10/6/1994

Details	Tasks	Activities	Spare Parts	Faults	Stop	Attachments
Cause	Type	Date	Description	Solved	Solution	
	Accident	12/9/2009 3:48 AM		<input checked="" type="checkbox"/>		

Note: Computer, Server, Machine, Fault Type, Discovered By and OPC Item are *required fields*. You cannot save an OPC Fault if any of the *required fields* are empty.

3.12.3.2 Measured Parameters

To create and use OPC Measured Parameter you can do one of three things:

- 1) Action -> New...
- 2) CTRL + N
- 3) Right click the grid and select "New..."

Then you will get this form.

The OPC - Measured Parameter New Form

Computer - refers to your computer name.

Server - the instance name of the server.

Measured Parameter - the measured parameter to use.

Scan Rate: Minutes - the number of minutes PM5 should get data from the OPC Server.

MP Unit/ OPC Unit - this is used to compute for the ratio of Measured Parameter Unit to OPC Unit. For example, if the value for the OPC item is 120 and OPC Unit Ratio is 60 then, the data from the OPC Server will be divided by the value in the OPC Unit, in our case will be $120 / 60 = 3$. The quotient will then be entered in the Measured Parameter log. This is important because it ensures that PM5 does not get too much high values for the counter reading of measured parameter that OPC might transfer.

OPC Item - data received or sent by the OPC Server.

- 1) Select the Computer, Server, Measured Parameter and OPC Item in the list.
- 2) Enter the Scan Rate and Unit Ratio in their respective fields.

- 3) Finally, click OK.

Note 1: Computer, Server, Measured Parameter, Scan Rate and OPC Item are *required fields*. You cannot save an OPC Measured Parameter if any of the *required fields* are empty.

Note 2: The value you enter in Scan Rate represents the time in minutes. It also must always be a whole number; it cannot contain any decimals.

When you close the Administration module and select the machine where the OPC Measured Parameter was assigned, you will see the Measured Parameter readings from the OPC Server. To do this, click the [...] button in the Details sub tab of the machine. Upon clicking on the [...] button, you will see the Measured Parameter form.

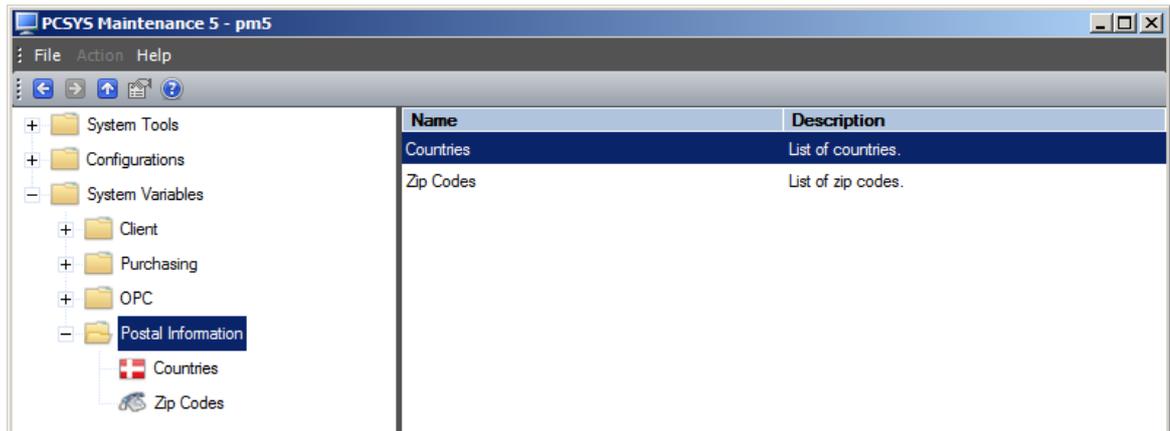
Measured Parameter	Unit
Kilowatt Usage	Kilowatt per hour
Max Counter Reading	Expected Average Per Day
5000	150

Date	Counter Reading	Average for period
12/10/2009	0	150
12/10/2009	0	150
12/10/2009	1	150
12/10/2009	0	150
12/10/2009	1	150
12/10/2009	1	150
12/10/2009	0	150
12/10/2009	1	150
12/10/2009	1	150
12/10/2009	0	150
12/10/2009	0	150

The readings created by the OPC Measured Parameter

3.12.4 Postal Information

Postal Information contains a list of the "fixed" fields as well as configurable options found in the Supplier Add/Edit Form. If you want to go directly to a sub item, you can double click on its name to "jump" directly to that item. For example, if you double click on Countries, you will be taken to the list of Countries.



The Administration Module System Variables -> Postal Information List - Showing how to jump to child items

To read more about a 'fixed' field in the Supplier Add/Edit Form, click on one of the links below:

- [Countries](#)
- [Zip Codes](#)

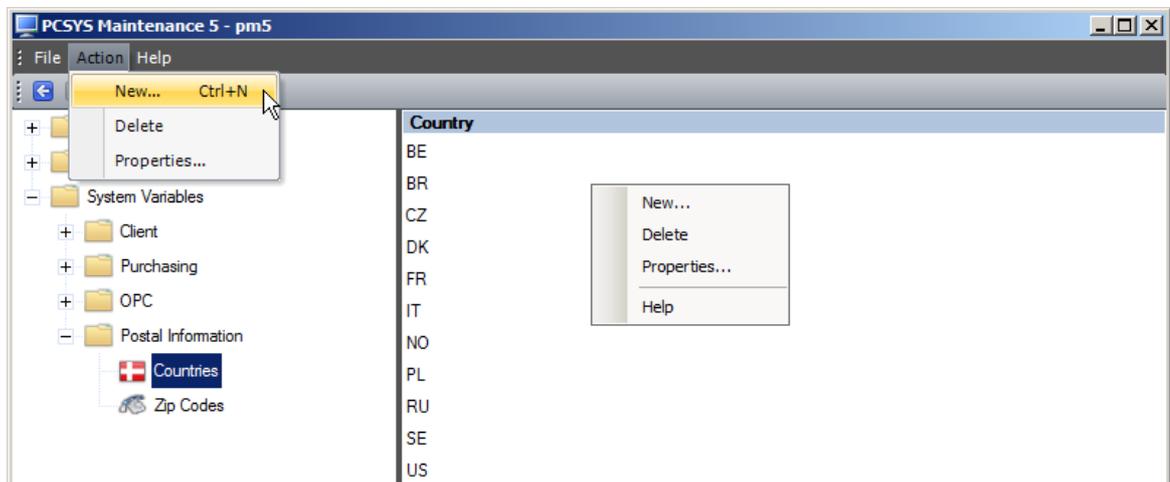
3.12.4.1 Countries

Countries contains the list of Countries used in the Supplier Add Form and the Zip Codes Add Form. To see how to select a country when creating a Supplier, please click [here](#). To see how to select a country when creating a Zip Code, please click [here](#).

Now let's take a look at how to add, edit and delete Countries.

SE

Below, you will see the menu items for adding, editing (Properties...) and deleting.



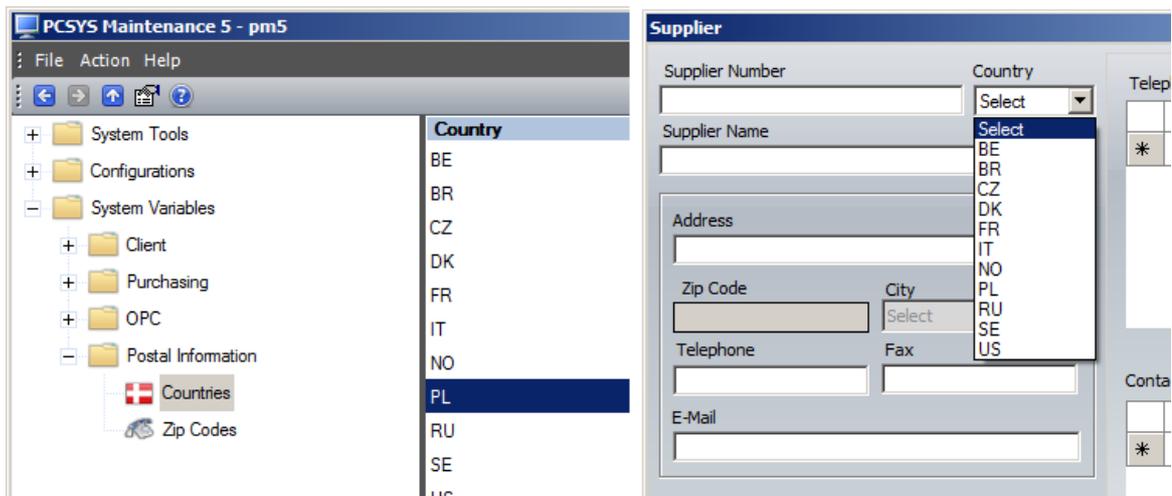
The Administration Module Countries List - Showing how to add, delete and edit Countries

When you click 'New...', you will see a dialog where the the Country can be defined. You are required to enter a name for the Country.



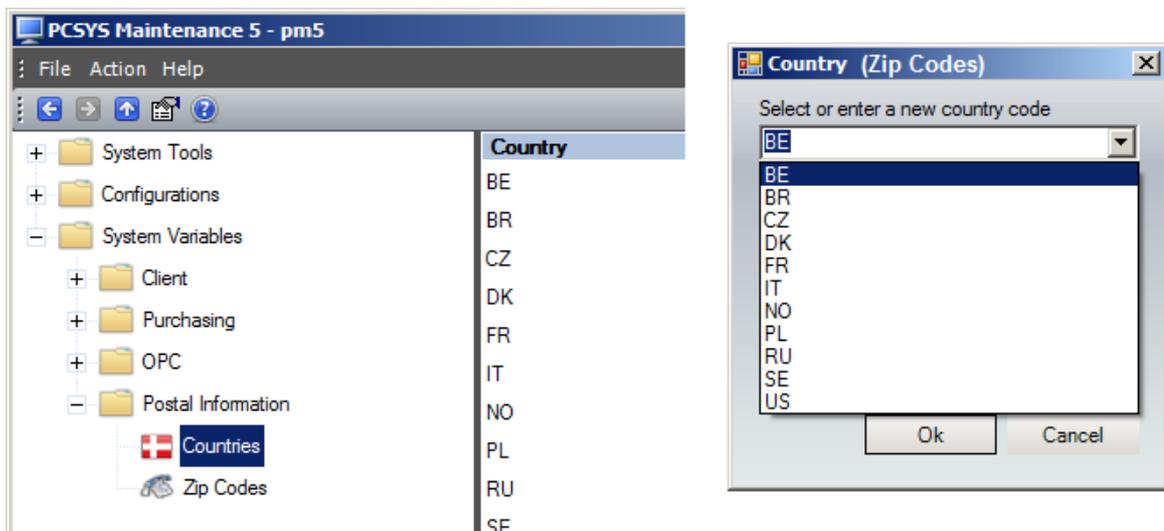
The Administration Module Country Add Form

All the Countries that appear in the Administration Module can be selected in the Supplier Add form in the Client Application.



The Administration Module Countries List and Client Application Supplier Form - Showing the Countries available

They can also be selected in the Zip Codes Add Form in the Administration Module.



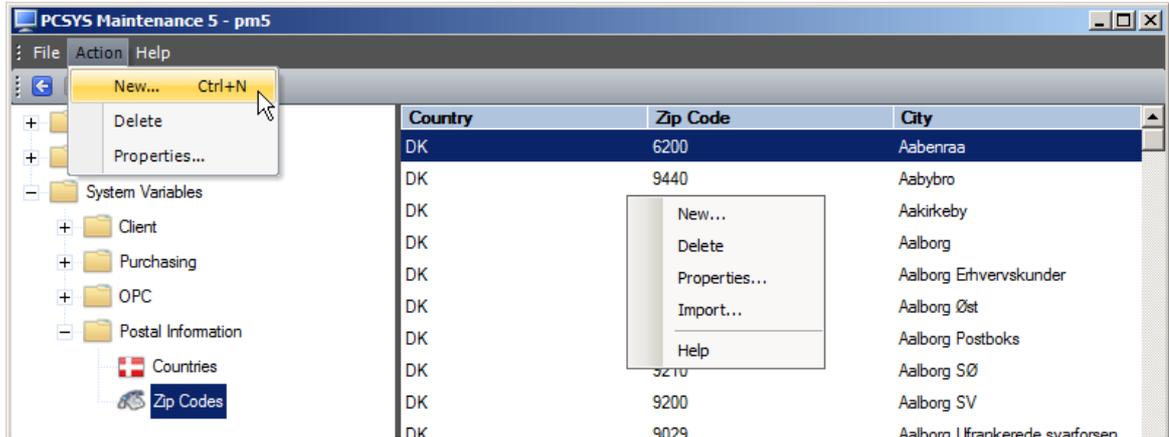
The Administration Module Countries List and Zip Codes Add Form - Showing the Countries available

3.12.4.2 Zip Codes

Zip Codes contains the list of Zip Codes used in the Supplier Add Form. To see how to select a Zip Code when creating a Supplier, please click [here](#).

Now let's take a look at how to add, edit and delete Zip Codes.

Below, you will see the menu items for adding, editing (Properties...) and deleting.



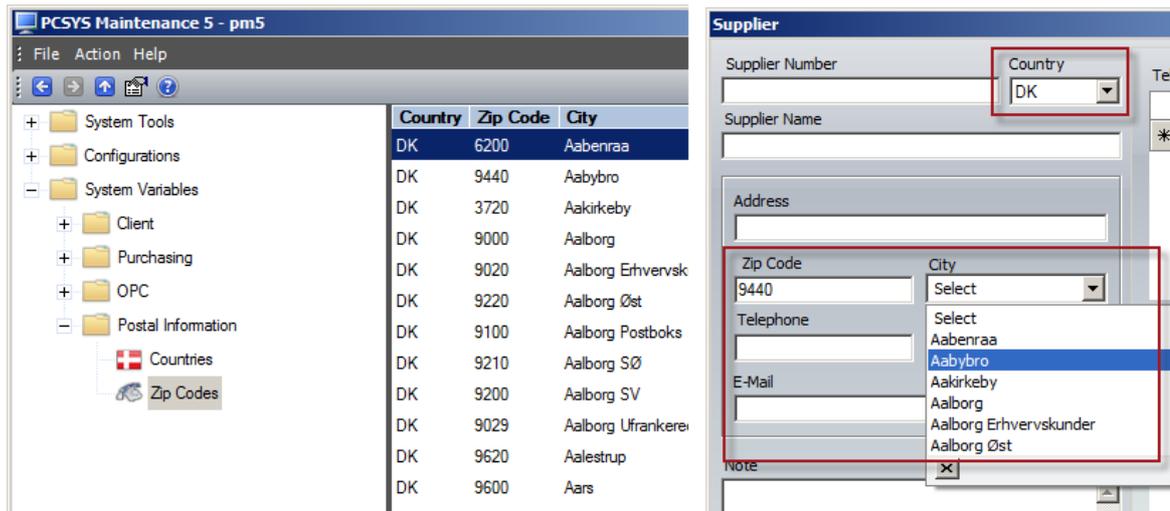
The Administration Module Zip Codes List - Showing how to add, delete and edit Zip Codes

When you click 'New...,' you will see a dialog where the the Zip Code can be defined. You are required to enter a Country, Zip Code and Postal District.



The Administration Module Zip Code Add Form

All the Zip Codes that appear in the Administration Module can be selected in the Supplier Add form in the Client Application.



The Administration Module Countries List and Client Application Supplier Form - Showing the Zip Codes available

4 Purchasing Module

The following paragraphs will tell you how to gain access to the purchasing module and will give you a brief overview of its features.

To be able to access the purchasing module, you need two things:

- A PM5 license that includes access to the Purchasing Module
- A user account that has the privilege to use the Purchasing Module

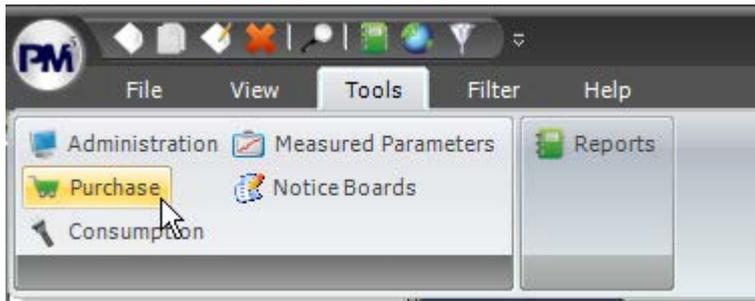
If you would like access to the Purchasing Module but your current license does not include it, please contact PCSYS at (45) 43 43 29 29 or info@pcsys.dk for instructions on how to upgrade your license.

If your user account does not have access to the Purchasing Module, you will need to add it to a User Group that has the "Purchase/Spare Part" privilege. For instructions on adding a user to a User Group, please click [here](#).

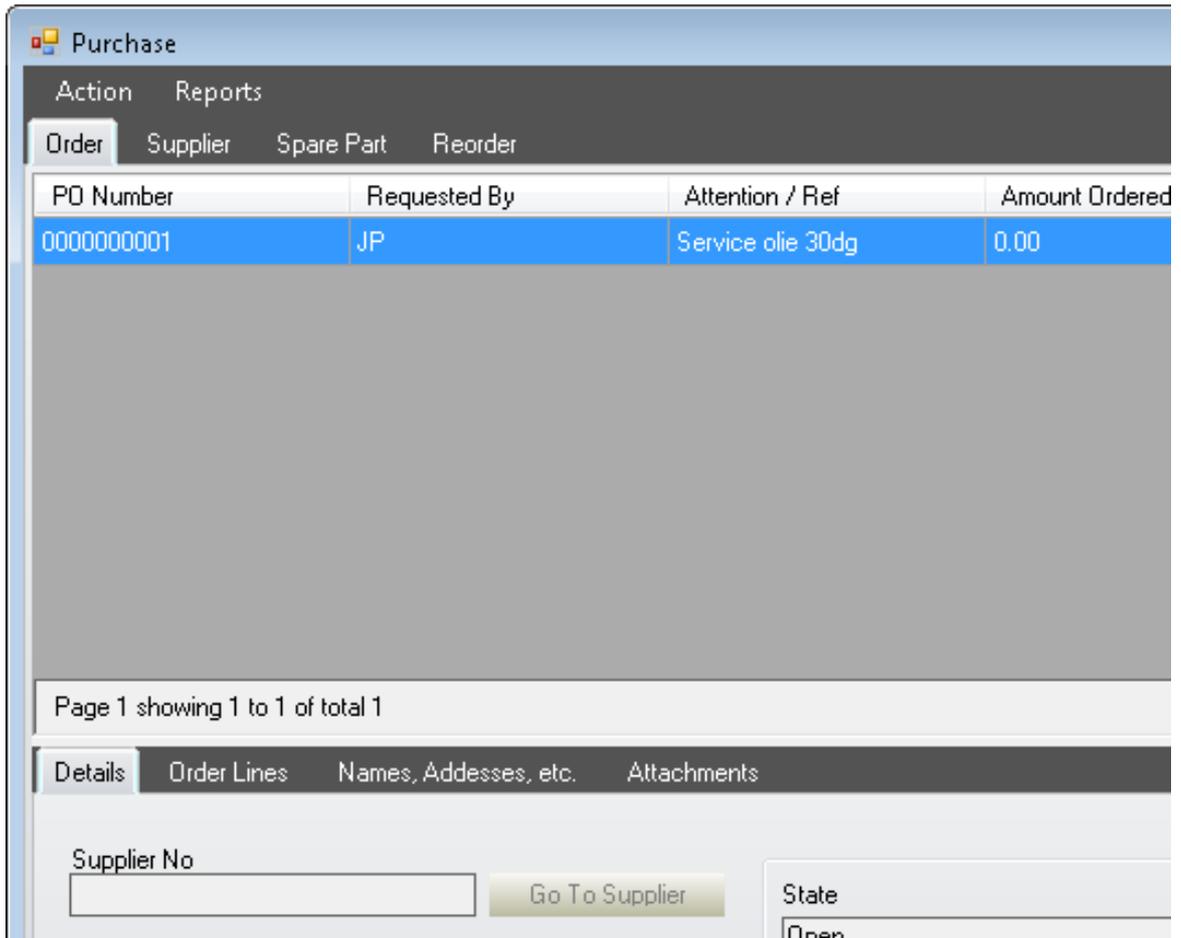
Once you have the correct license and an account that has the correct privilege, you will be able to access the Purchasing Module.

Opening the Purchase Module

To open the Purchasing Module, log in to PM5 and point and click on Tools and click Purchase.



After clicking on it you will be shown the Purchasing Module dialog.



From here, you can create, send, receive and close spare part Purchase Orders. You can also create and print reports regarding Purchase Orders.

To read more about a specific topic, click on one of the links below:

- [What is a Purchase Order?](#)
- [Create a Purchase Order](#)
- [Send an Order](#)
- [Receive Ordered Spare Parts](#)
- [Close an Order](#)
- [Create a Report](#)

- [Print a Report](#)
- [How do I configure settings for the Purchasing Module?](#)

4.1 What is a Purchase Order?

In PM5, a Purchase Order (PO) is an agreement between you and your supplier. It contains information regarding what spare parts were ordered, the quantities and prices of those spare parts and other related information such as where it will be delivered and who will pay for it.

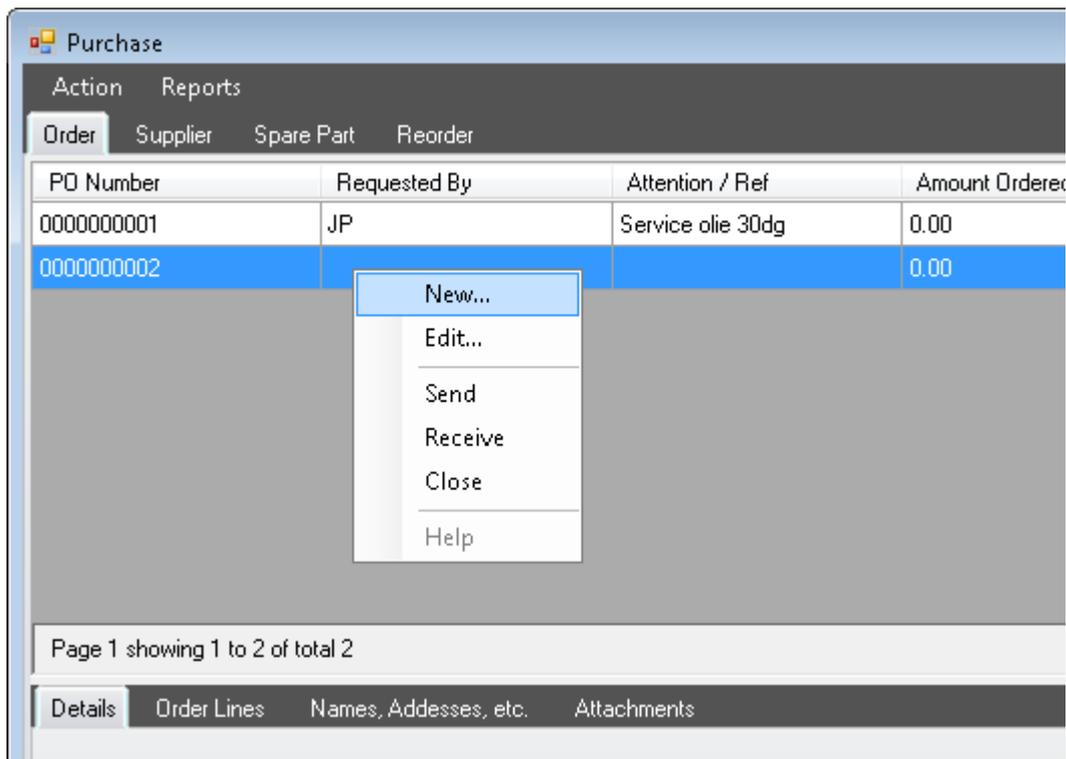
If you send a PO to your supplier, you are giving an offer to buy his products. If your purchase order is accepted, it forms a contract between you and your supplier.

To learn how to create a PO, please click [here](#).

4.2 Create a Purchase Order

The following paragraphs will show you how to create a Purchase Order (PO) and add Spare Parts to that order.

To create a new PO, right click anywhere in the Order Tab and click new.



The Purchasing Module - Order Tab - Showing how to create a new PO

You will see the Purchase Order window where you can enter some basic information regarding your PO.

Purchase Order

Attn / Ref
[Text Field]

Supplier No
Select

Supplier Name
Select

State
Open

Account Number
Select

Currency
[Text Field]

Taxes
 VAT
 SIN

Names
Requested By
Select

Ordered By
Select

Attention
Select

Dates
Created
9/16/2009

Sent
[Text Field]

Closed
[Text Field]

Addresses
Deliver To
Delivery Address

City
Kolind

Invoice
Invoice Address

City
Hobro

Order Note
[Text Area]

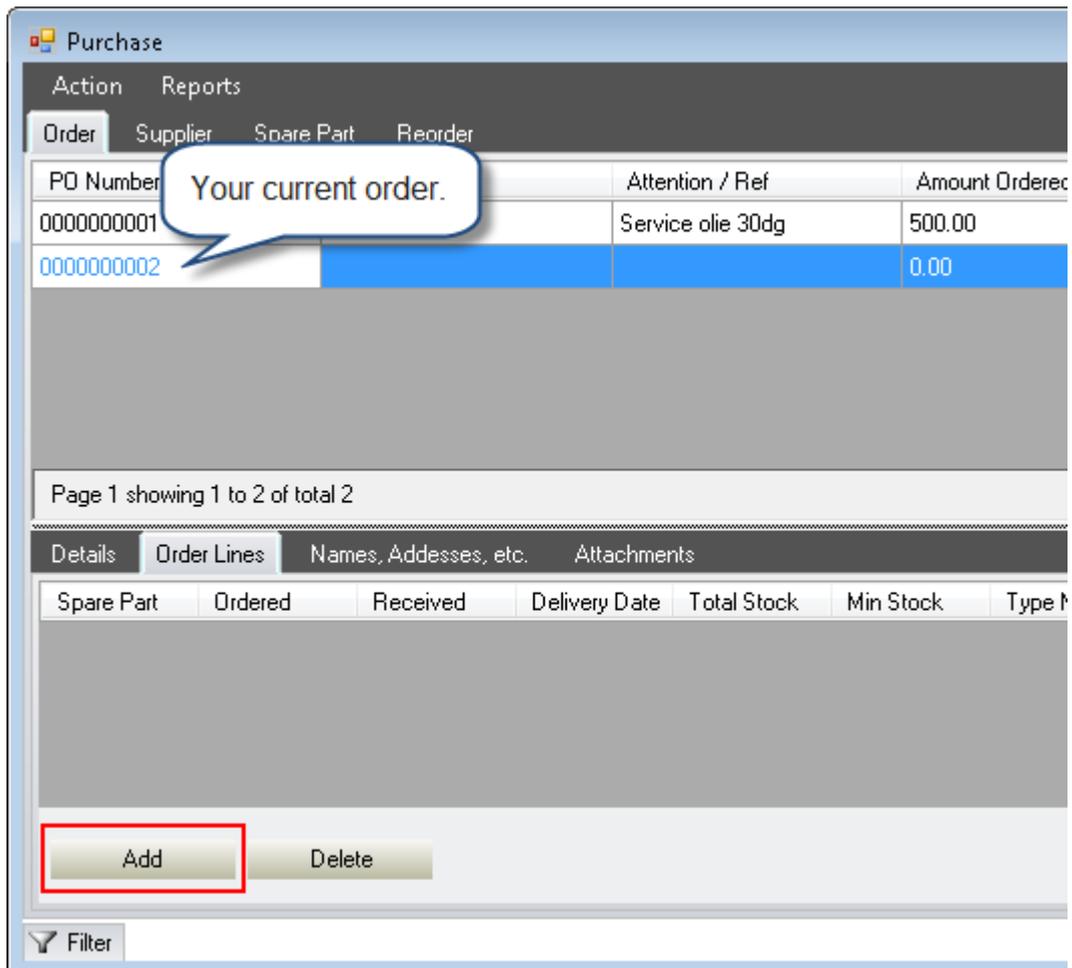
Save Cancel

The Purchase Order Window

You might notice that there are some fixed fields here, such as Account Numbers, Taxes and Addresses, and would like to find out they can be defined. [This](#) section will answer those questions.

When you are done entering information, click Save. Now you are ready to select the Spare Parts that will be included in your PO. These Spare Parts can be added via the Order Lines sub tab.

With your order selected, click on the Order Lines sub tab and click Add.



The Purchase Module - Order Tab - Order Lines Sub Tab - Showing how to add to an Order Line

This will show you a list of all the Spare Parts in the database. To add a Spare Part to your current order, right click on the Spare Part and click Add to Current Order.

Purchase

Action Reports

Order Supplier Spare Part Reorder

PO Number 0000000002 Requested By JP Att

Spare Part No	Name	Type No	In Store
981X1410	Ballbearing SKF	6007 2RS	<input checked="" type="checkbox"/>
984F9269	Batterie Siemens PS S...	6 EW 1000-7AA	<input checked="" type="checkbox"/>
W79084-E1001-B2	Battery for DP Manel	5705150480546	<input checked="" type="checkbox"/>
BJ-3282	BJ-Snekkegear	1 ... 10100 1-0-01	<input checked="" type="checkbox"/>
0 820 006 103	Bosch Magnetvent		<input checked="" type="checkbox"/>
93652501	Lamp		<input checked="" type="checkbox"/>
932L9327	Magnetvent Festo		<input checked="" type="checkbox"/>

Page 1 showing 1 to 20 of total 29

Suppliers Store Order History

Supplier No	Supplier Name	Address	Zip
86242500	BJ-Gear A/S	Vestervænget 10	8381
336378	Alfa Laval		4540

The Purchase Order Window - Spare Part Tab - Showing how to add a Spare Part to the Current Order

You will see the Order Line window. Type in the Quantity that you want to order and, if it is not already there, also type in the Price and the applicable Discount for the Spare Part. When you are done, click Save.

The screenshot shows the 'Order Line' window with the following sections:

- Purchase Order Details:** PO No (0000000002), Requested By, Attn / Ref.
- Spare Part Details:** Spare Part No (92326601), Type No (BES 516-371-G-S-49-C), Spare Part Name (No contact sensor Balluf), Spare Part Note (With jack).
- Order Line Details:**
 - Ordered:** Date Sent, Quantity (2), Price (512.00), Delivery Date.
 - Conditions:** Discount % (0), Store (Stock B3 - Shelf 62 - - 1), Expected Del. Day.
 - Taking Delivery:** Received By (Select), Quantity Received (0), Price (0.0), Discounted Price (0), Date Received.
 - Accounts:** Account No (Select), Job No, Amounts (Ordered: 1024, Received: 0).
- Order Line Note:** A text area for additional notes.
- Buttons:** Save, Cancel.

The Order Line Window - Showing the relevant fields for ordering a Spare Part

Repeat this process if you want to add more Spare Parts to your PO. When you are finished adding Spare Parts, you can now send your PO. To find out how to do that, please click [here](#).

4.2.1 Fixed Fields in a Purchase Order

The screenshot shows a 'Purchase Order' window with the following fields and sections:

- Attn / Ref:** Text input field.
- Supplier No:** Dropdown menu with 'Select'.
- Supplier Name:** Dropdown menu with 'Select'.
- State:** Dropdown menu with 'Open'.
- Account Number:** Dropdown menu with 'Select' (highlighted with a red box).
- Currency:** Text input field.
- Taxes:** Section with checkboxes for 'VAT' and 'SIN' (both checked, highlighted with a red box).
- Names:** Section with dropdowns for 'Requested By', 'Ordered By', and 'Attention', all set to 'DVS'.
- Dates:** Section with text input fields for 'Created' (9/16/2009), 'Sent', and 'Closed'.
- Addresses:** Section with dropdowns for 'Deliver To' (Delivery Address) and 'Invoice' (Invoice Address) (both highlighted with a red box).
- City:** Text input fields for 'City' (Kolind) and 'City' (Hobro).
- Order Note:** Text area.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

Purchase Order Window - Showing the 'fixed' fields

You can find instructions on how to add and delete values from the above fields in the links below:

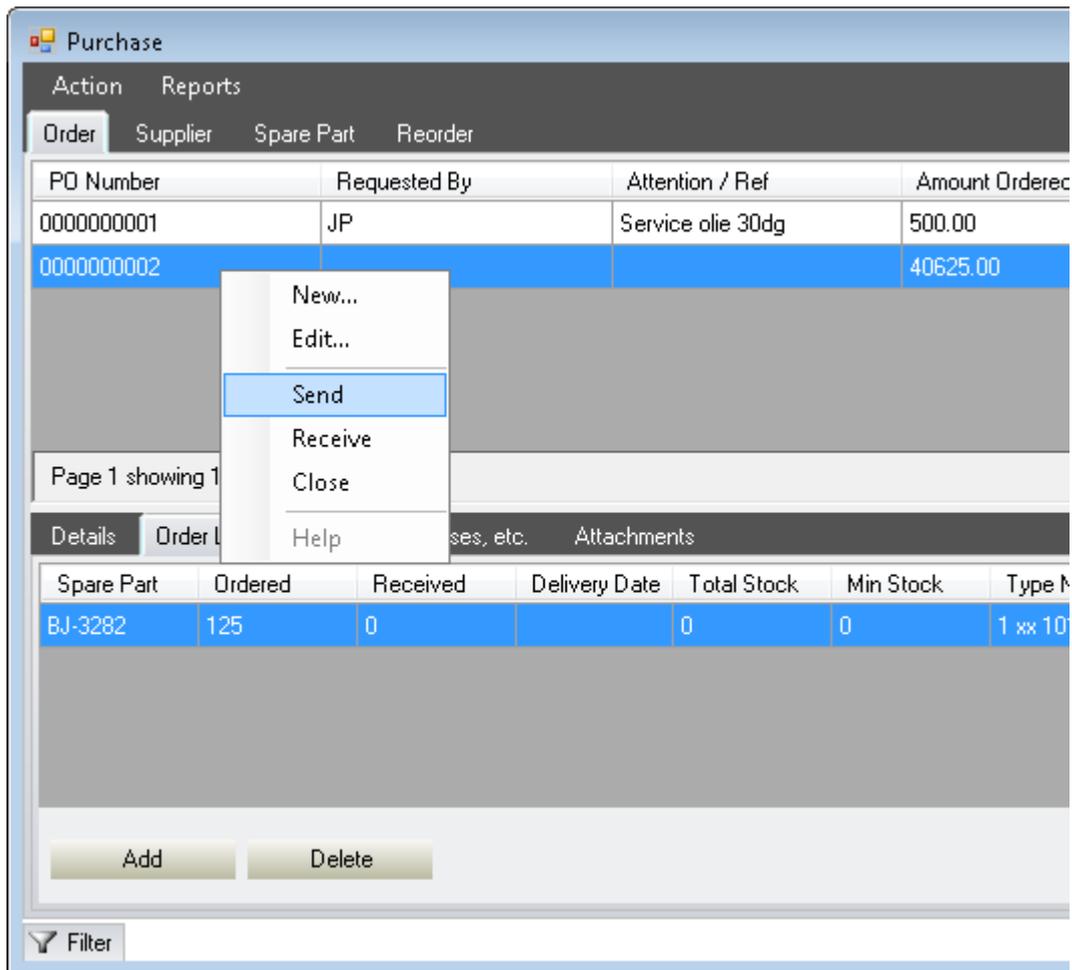
- [Account Numbers](#)
- [Taxes](#)
- [Settings](#)

4.3 Send an Order

This section tells you how to send a Purchase Order (PO).

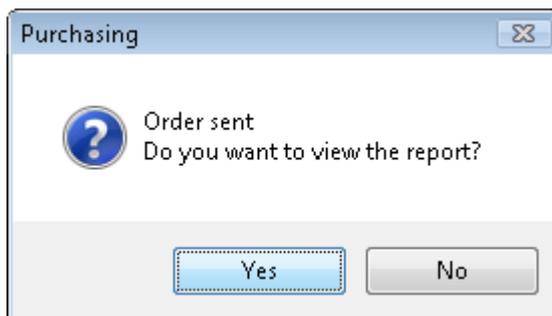
Sending an Order in PM5 means finalizing the order. Once you send an order, you will no longer be able to edit it.

To send an order, right click on the desired PO and click Send.



The Purchasing Module - Order Tab - Showing How to Send a Purchase Order

After you click Send, you will be given the option to view its report. This allows you to print your PO. Click Yes to see a preview of how your PO will look like.



The Purchasing Module - View Report Dialog

You will now see a preview of the Purchase Order.

Purchase Order Report

Supplier	BJ-Gear A/S	State	Sent	Deliver To	Delivery Address	Telephone	12345678	
Address	Vestervænget 10, DK	Account No			Street 1	Fax	87654321	
Phone	86242500	Currency			Street 2			
Fax	87408081	Sent	9/17/2009 7:08:27 PM		8560 Kolind	Attn.		
Attn / Ref		PO Number	0000000002		DK			
Order Note					Invoice	Invoice Address	Telephone	12345678
						Street 1	Fax	87654321
						Street 2		
						9550 Hobro	Attn.	
						DK		

Item	Product No	Spare Part Name	Type	Order Line Note	Qty	Unit	Price	Total price	Delivery Date	Account No
1	BJ-3282	BJ-Snekkegear	1 xx 10100 1x0x 01		125	Pcs	325.00	40625		
Sub total									40,625.00	
VAT								10.00%	4,062.50	
SIN								0.00%	0.00	
Grand total									44,687.50	

The Purchase Order Report - Showing a Preview of the Purchase Order

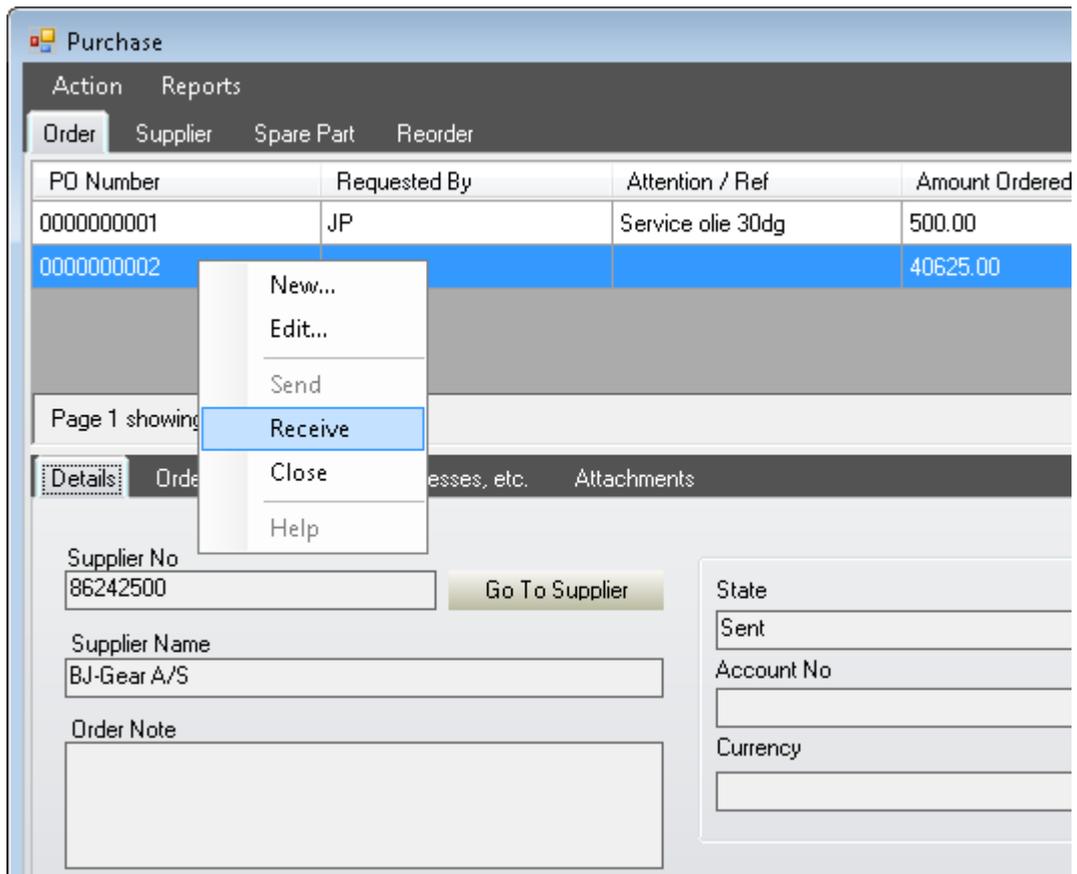
4.4 Receive Ordered Spare Parts

Here, you will learn how to receive ordered spare parts.

Receiving ordered Spare Parts increases the stocks of those Spare Parts. You can view the stocks of a Spare Part by looking at the Spare Part's Stores Sub Tab in the Client Application. To learn more about stocks, please click [here](#).

Before you can receive an order, it first needs to be sent. To learn how to send an order, please click [here](#).

To receive an order, right click on it and choose Receive.



The Purchasing Module - Order Tab - Showing How to Receive a Purchase Order

You will see a dialog box that says the Order has been received. Click OK to close it. With your order selected, click on the Order Lines sub tab and double click on the Order Line.

The screenshot shows the 'Order Line' window with the following data:

Purchase Order Details		Spare Part Details	
PO No	0000000004	Spare Part No	93652501
Requested By		Type No	01-04-23-00
Attn / Ref		Spare Part Name	Lamp
		Spare Part Note	
Order Line Details			
Ordered	Conditions	Taking Delivery	Accounts
Date Sent	Discount %	Received By	Account No
7/21/2010	12	Select	Select
Quantity	Store	Quantity Received	Job No
10	Stock B3 - Shelf 58 -- 1-	10	
Price	Expected Del. Day	Price	Amounts
12.00	7/23/2010	12.00	Ordered
Delivery Date		Discounted Price	105.6
7/21/2010		10.56	Received
		Date Received	105.6
Order Line Note			

The calendar for July 2010 is open, showing the date 21 selected.

The Order Line Window - Showing the relevant fields for receiving Ordered Spare Parts

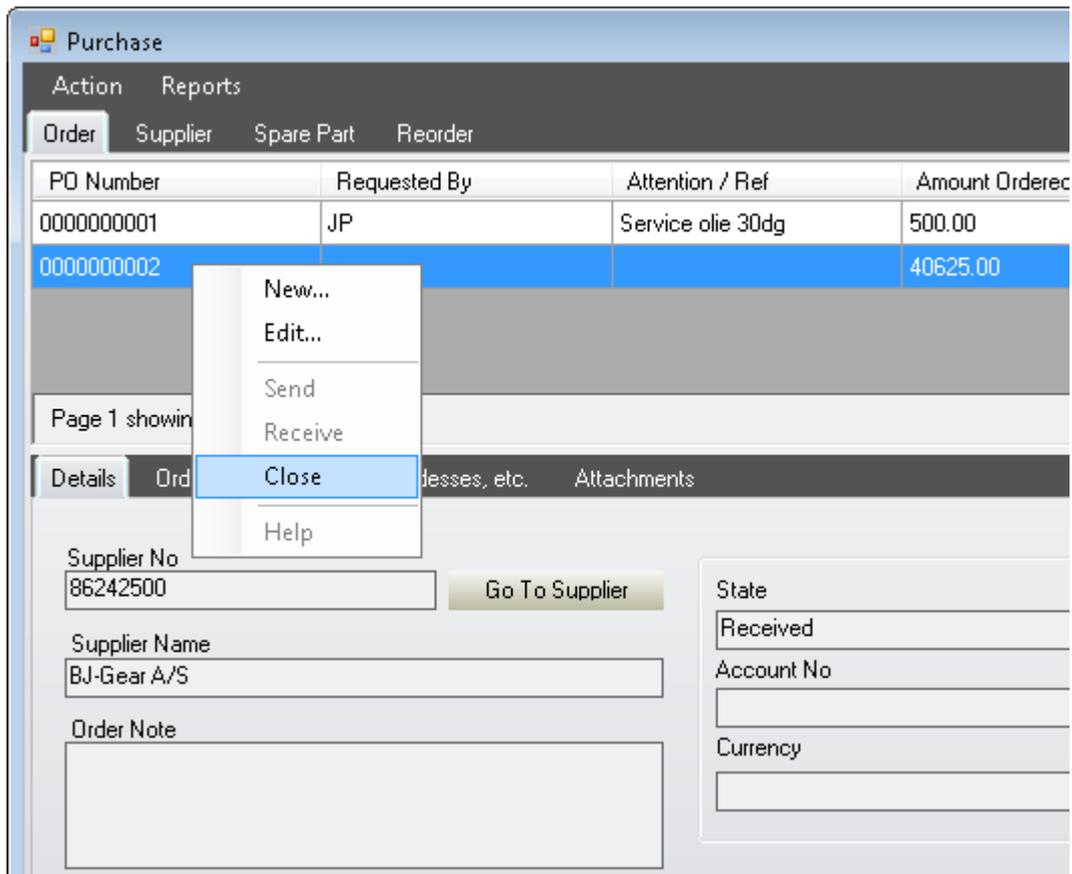
Select who received the delivery, type in the Quantity Received and, if it is not already there, also type in the Price and select the date when it was received. When you are done, click Save.

4.5 Close an Order

This section shows you how to close a Purchase Order (PO).

Closing a PO causes it to be moved from the list of current orders to the list of historic orders. When a PO is in the list of historic orders, the number of days it is shown is limited by the value set in the Administration Module. To learn more about current orders, historic orders and how to change their values, please click [here](#).

To close a PO, right click on it and select Close.



The Purchasing Module - Order Tab - Showing How to Close a Purchase Order

You will see a dialog box that says the Order has been closed. Click OK to close the dialog box.

4.6 Create a Report

The following paragraphs will show you how to create a Report for a Purchase Order (PO).

The Reporting facility of the Purchase Module allows you to create POs that you can Email or Print.

To create a report, click on Reports in the file menu.



Select the PO that you want to be displayed in the From and To dropdown lists and click Full.

Select from list Purchase Order PO Number From PO no. To PO no. 0000000001 0000000001 Orders on Account No From Account No To Account No Select Select Orders in period From Date September 22, 2009 To Date September 22, 2009	Layout Select PO Number Name Requested By Ordered By Supplier Select Select Select State <input checked="" type="radio"/> All <input type="radio"/> Open <input type="radio"/> Sent <input type="radio"/> Received <input type="radio"/> Closed View Report Clear Partial Full
---	--

The Purchasing Module - Reports Window - Showing How to Create a Purchase Order

You will see the report in the bottom half of the window.

Purchase Order Report

Supplier Festo Address Islevdalsvej 180, DK Phone 0045 70 21 10 92 Fax 0045 86 78 26 22 Attn / Ref Service olie 30dg	State Close Account No Currency Sent 9/17/2009 5:30:18 PM	Deliver To Delivery Address Street 1 Street 2 8560 Kolind DK Telephone 12345678 Fax 87654321 Attn. JP
Order Note 99	PO Number 0000000001	Invoice Delivery Address Street 1 Street 2 8560 Kolind DK Telephone 12345678 Fax 87654321 Attn. KB

Item	Product No	Spare Part Name	Type	Order Line Note	Qty	Unit	Price	Total price	Delivery Date	Account No
1	986U2058	Aircylinder Festo	DSNU-10-10-P-A		5	Pcs	100.00	500		
Sub total									500.00	
VAT								10.00%	50.00	
SIN								0.00%	0.00	
Grand total									550.00	

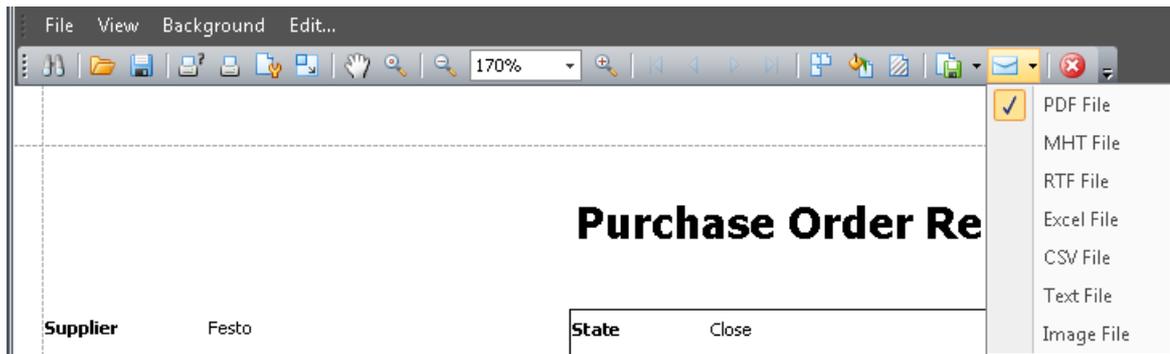
The Purchase Order Report - Showing a Preview of the Purchase Order

4.7 Email a Report

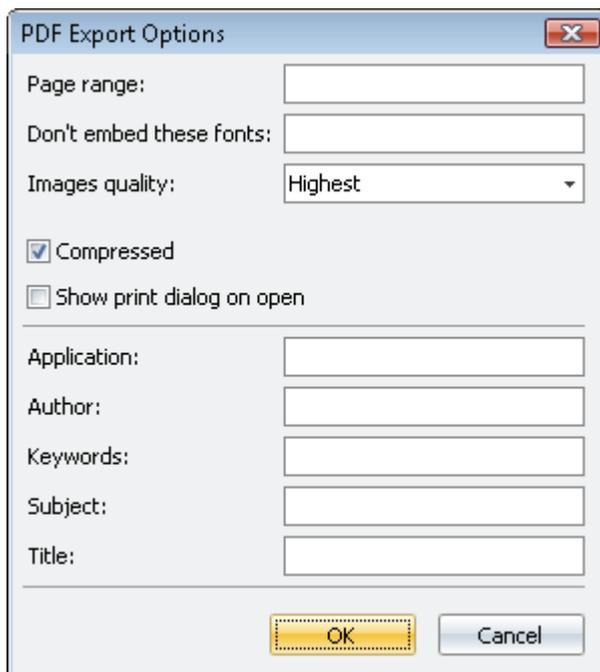
The following paragraphs will show you how to save a Report of a Purchase Order (PO).

First you need to create a Report. Click [here](#) to find out how to create one.

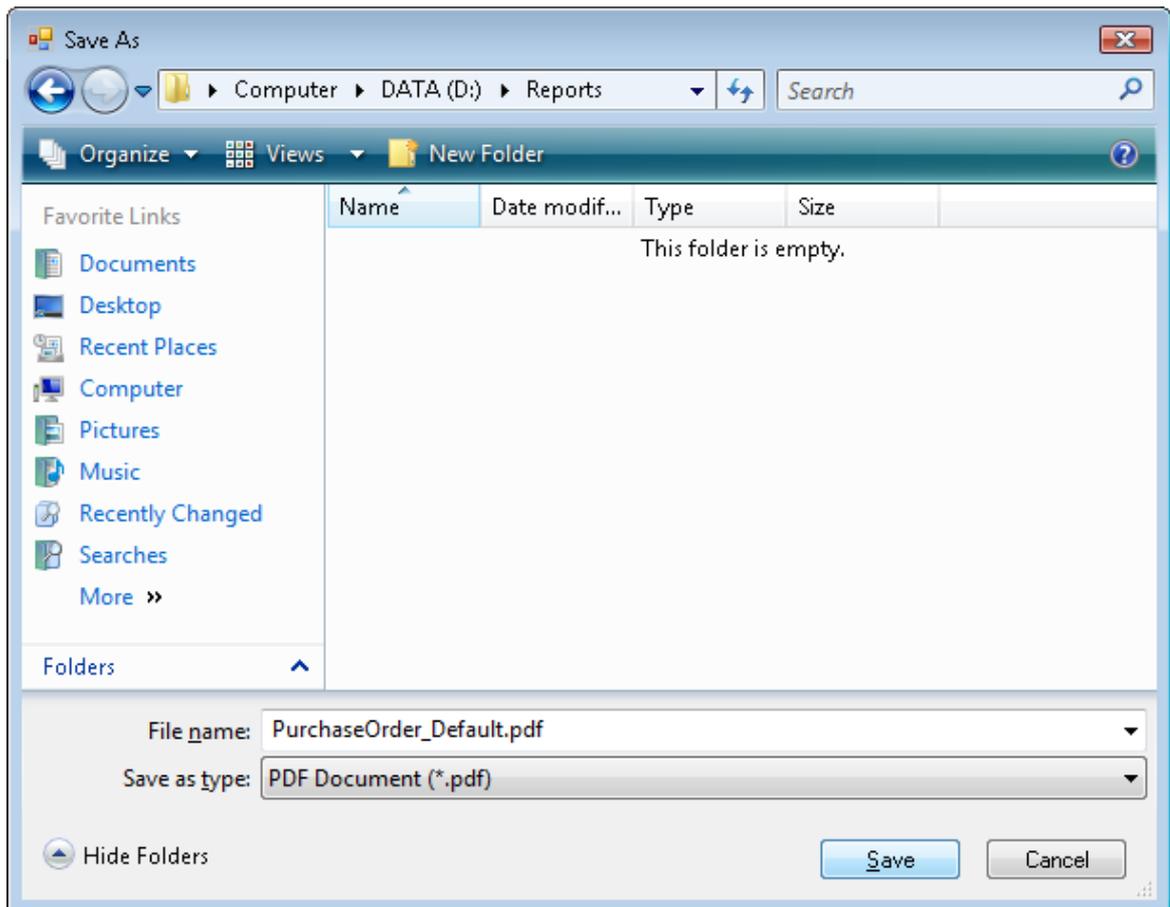
When you have the Report opened, click on down arrow of the the Email icon in the toolbar.



Click on your desired format, this will open a dialog box where you can enter extra settings such as the Page Range, Image Quality, etc. Enter your custom settings and click OK.



You will be prompted to save the report. Select a location to save it and click Save.



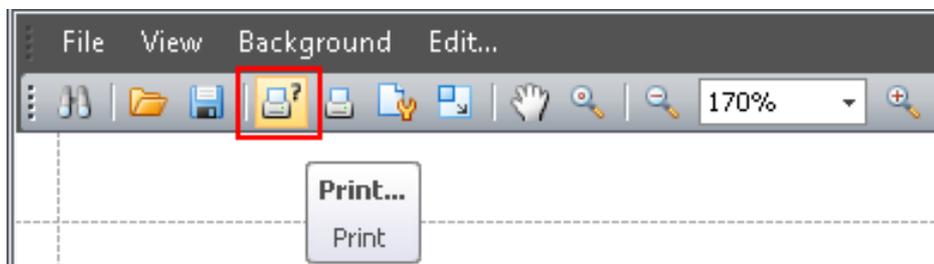
After you click Save, PM5 will open your email application where you can send the PO to your Supplier or to other parties.

4.8 Print a Report

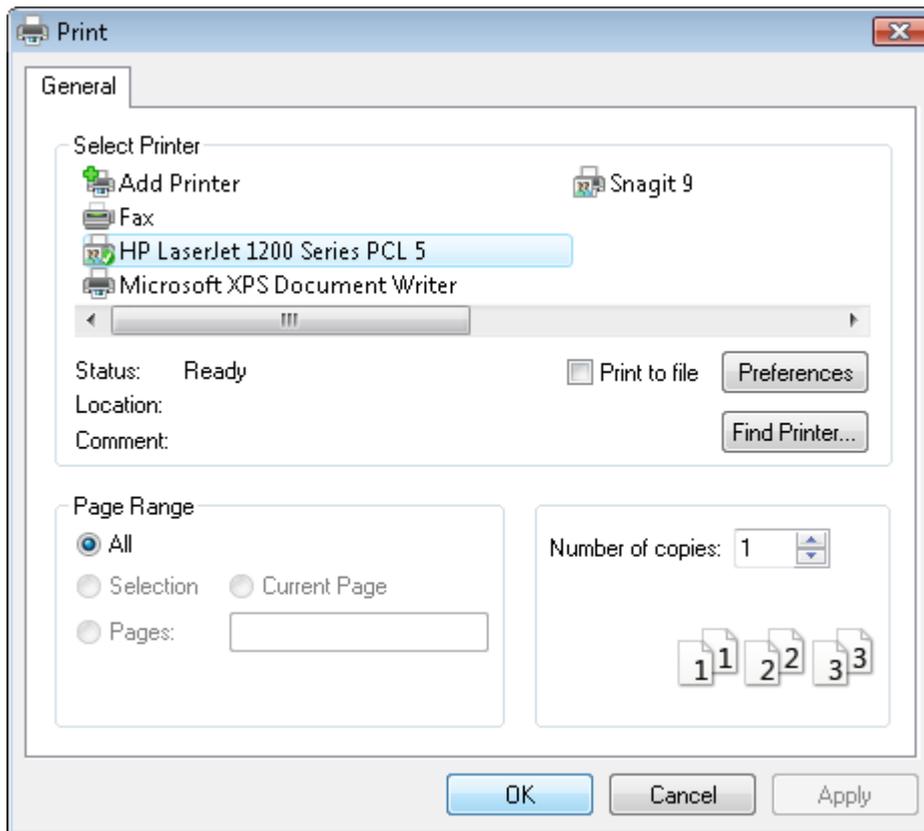
The following paragraphs will show you how to print a Report of a Purchase Order (PO).

First you need to create a Report. Click [here](#) to find out how to create one.

When you have the Report opened, click on the Print icon in the toolbar.



This will open the Printer dialog. Select your desired printer from the list and click OK.



Assuming your printer has enough ink, paper and is in proper working order, you can now retrieve a printed copy of your PO.

Endnotes 2... (after index)

Back Cover