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Benchmark Apps

PPM Planner User Guide

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Benchmark Apps – PPM Planner Overview

Benchmark apps offer an intuitive, cloud-hosted application for the Planned Preventative Maintenance (PPM) Planner. Key Project information is transferred from Benchmark to the PPM Planner via Benchmark's industry-standard API to visualise a visit schedule. This application allows you to:

- Generate a PPM schedule for every maintained Asset in a Benchmark Project.
- Adjust the visit schedules.
- Export the PPM information and use it in external applications.

Key Terminology

Term	Description	Example
Asset	A Project Item with an associated visit schedule. Only the Project Items identified as Assets are transferred from Benchmark to the PPM Planner.	
Labour Element	Represents the labour resource carrying out the maintenance visit for an Asset.	<ul style="list-style-type: none"> • n: Normal Time • o: Out of Hours • sn: Subcontracted Normal Time • so: Subcontracted Out of Hours
Frequency	Represents a periodical visit required to maintain an Asset. Frequencies are configured as Activities in the Codes window in Benchmark. Asset frequencies suffixed with the relevant Labour Element are stored as Item Variables in Benchmark.	<ul style="list-style-type: none"> • 1M: Monthly • 3M: Quarterly • 6M: Half-yearly • 1Y: Yearly <p>Suffixed with Labour Element:</p> <ul style="list-style-type: none"> • 1M -sn: The Asset requires a maintenance visit once a month from a Subcontractor during Normal hours. • 1Y -o: The Asset requires an Out of Hours maintenance visit once a year.
Duration	The amount of time required to complete a maintenance visit. Durations associated with the Item Variable are stored in the <i>Qty</i> and <i>Unit</i> fields in Project Resources in Benchmark.	<p>A Variable associated with an Asset has the following details in Project Resources:</p> <ul style="list-style-type: none"> • <i>Resource Description</i>: 1M - sn • <i>Qty</i>: 0.25 • <i>Unit</i>: Hr <p>This means the Asset requires a monthly maintenance visit of 15 minutes from a Subcontractor during Normal hours.</p>
Special Frequency	A frequency not defined in the PPM Planner application but present in the schedule.	

Term	Description	Example
	Administrators can also nominate a normal frequency (defined in the application) as a Special Frequency.	

Prerequisites



- To use the PPM Planner application, you must have access to Microsoft Power Apps in your organisation.
- All the relevant frequencies must be set up in Administration > Codes > Activities.

Setting Up Custom Information in Benchmark

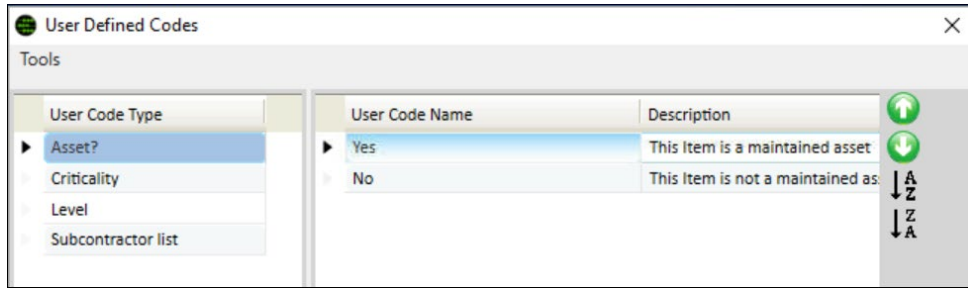
To create a PPM schedule, Project information is transferred from Benchmark to the PPM Planner application. The following Project Item information required by the PPM Planner must be set up as Custom Fields in Benchmark:

- *Asset*
- *Criticality*
- *Barcode*
- *Code 2*

Setting Up User Codes

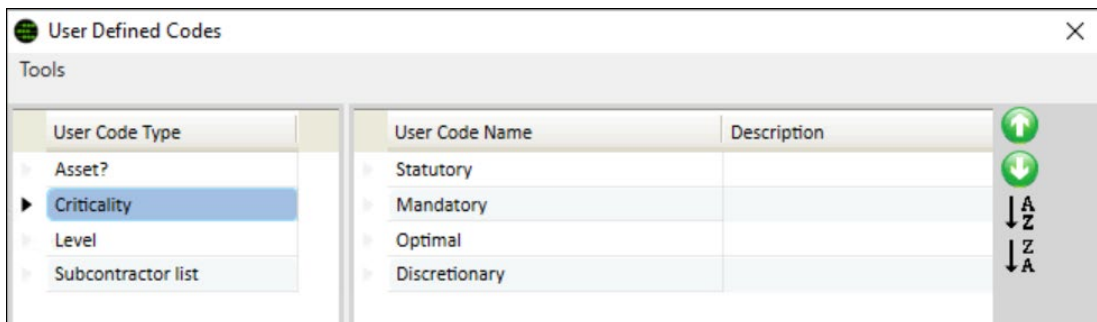
Benchmark Administrators must follow the steps below:

1. From the main menu, select **Administration > User Codes**.
2. Right click in the **User Code Type** column and select **Add Code Type**.
3. Enter *Asset?* and select **OK**.
4. Press **CTRL + A** and individually add the following *User Code Names*:
 - a. *Yes*
 - b. *No*



Only the Items where the Custom Field **Asset** is set to **Yes** in the **Project Items** window, are transferred from Benchmark to the PPM Planner application.

5. Right click in the **User Code Type** column and select **Add Code Type**.
6. Enter **Criticality** and select **OK**.
7. Press **CTRL + A** and individually add all the required levels of Criticality as User Code **Names**.
 - a. *Statutory*
 - b. *Mandatory*
 - c. *Optimal*
 - d. *Discretionary*



Setting Up Custom Fields

Benchmark Administrators must follow the steps below:

1. From the main menu, select **Administration > Admin**.
2. Select **Custom Field > Project Items / Item Library**.
3. Right click in the data grid and select **Add Field**.
4. Add the following Custom Fields:

Field Name	Type	Source
Asset	Selection	Asset?
Criticality	Selection	Criticality
Barcode	TextInput	
Code 2	TextInput	

Navigating the Application



Some UI elements / functions may not be available to you. See [Admin Access](#) for more information.

- When you [generate a visit schedule](#), the Assets in the Project and their relevant details display on the left panel.
- After you select a Contract **Start Date**, the visit schedule for these Assets displays on the right panel.

Start Date: 7/03/2022		Contract Name: Contract Example		Display Durations		Auto-scheduling No. 40 Hrs		1D 1W 2W 1M 2M 3M 4M 6M 1Y 1.5Y 2Y 3Y 4Y 5Y																																													
set Ref	WBS Order	Code	Description	Qty	Unit	Barcode	WBS L1	WBS L2	Subcontractor	Year	Month	Week	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
	1		Building 1																																																		
	2		Room 1																																																		
1	3	02-02	Air Pressure Relief Damper	1	Nr		Building 1	Room 1																																													
2	4	03-01	Air Handling Units - General	1	Nr		Building 1	Room 1	Sub 1																																												
3	5	03-02	Magnehelic Gauge Panel and Manometers	1	Nr		Building 1	Room 1																																													
4	6	04-01	Belt Drives	1	Nr		Building 1	Room 1																																													
5	7	05-03	Atmospheric Gas Burner - Free Standing Boiler	1	Nr		Building 1	Room 1																																													
6	8	05-04	Atmospheric Gas Burner - Condensing Boiler	1	Nr		Building 1	Room 1																																													
7	9	05-05	Coal Fired Boilers - Bunkers and Conveyors	1	Nr		Building 1	Room 1																																													
8	10	05-06	Coal Fired Boilers - Coal Storage Handling and Feed N	1	Nr		Building 1	Room 1																																													
9	11	05-08	Coal Feed Mechanisms - Chain Grate Stokers	1	Nr		Building 1	Room 1																																													
10	12	05-09	Ash Handling System	1	Nr		Building 1	Room 1																																													
11	13	05-10	Blown Gas Burner Condensing Boiler	1	Nr		Building 1	Room 1	Sub 3																																												
12	14	05-11	Blown Gas Burner Modular Boiler	1	Nr		Building 1	Room 1																																													
13	15	05-12	Forced Draught Gas Condensing Boiler	1	Nr		Building 1	Room 1																																													
14	16	05-13	Oil Condensing Boiler - Forced Draught (Pressure Jet)	1	Nr		Building 1	Room 1																																													
	17		Room 2																																																		
15	18	02-02	Air Pressure Relief Damper	1	Nr		Building 1	Room 2																																													
16	19	03-01	Air Handling Units - General	1	Nr		Building 1	Room 2																																													
17	20	03-02	Magnehelic Gauge Panel and Manometers	1	Nr		Building 1	Room 2																																													
18	21	04-01	Belt Drives	1	Nr		Building 1	Room 2																																													
19	22	05-03	Atmospheric Gas Burner - Free Standing Boiler	1	Nr		Building 1	Room 2																																													

Left Panel

Project hierarchy in the PPM Planner follows the Benchmark Project Work Breakdown Structure (WBS).

Start Date:		7/03/2022		Display				
Contract Name		Contract Example		Durations				
Asset Ref	Code	Description	Qty	Unit	Barcode	WBS L1	WBS L2	Subcontractor
		Building 1						
		Room 1						
1	02-02	Air Pressure Relief Damper	1	Nr		Building 1	Room 1	
2	03-01	Air Handling Units - General	1	Nr		Building 1	Room 1	Sub 1
3	03-02	Magnahelic Gauge Panel and Manometers	1	Nr		Building 1	Room 1	
4	04-01	Belt Drives	1	Nr		Building 1	Room 1	
5	05-03	Atmospheric Gas Burner - Free Standing Boiler	1	Nr		Building 1	Room 1	
6	05-04	Atmospheric Gas Burner - Condensing Boiler	1	Nr		Building 1	Room 1	
7	05-05	Coal Fired Boilers - Bunkers and Conveyors	1	Nr		Building 1	Room 1	
8	05-06	Coal Fired Boilers - Coal Storage Handling and Feed N	1	Nr		Building 1	Room 1	
9	05-08	Coal Feed Mechanisms - Chain Grate Stokers	1	Nr		Building 1	Room 1	
10	05-09	Ash Handling System	1	Nr		Building 1	Room 1	
11	05-10	Blown Gas Burner Condensing Boiler	1	Nr		Building 1	Room 1	Sub 3
12	05-11	Blown Gas Burner Modular Boiler	1	Nr		Building 1	Room 1	
13	05-12	Forced Draught Gas Condensing Boiler	1	Nr		Building 1	Room 1	
14	05-13	Oil Condensing Boiler - Forced Draught (Pressure Jet)	1	Nr		Building 1	Room 1	
		Room 2						
15	02-02	Air Pressure Relief Damper	1	Nr		Building 1	Room 2	
16	03-01	Air Handling Units - General	1	Nr		Building 1	Room 2	
17	03-02	Magnahelic Gauge Panel and Manometers	1	Nr		Building 1	Room 2	
18	04-01	Belt Drives	1	Nr		Building 1	Room 2	
19	05-03	Atmospheric Gas Burner - Free Standing Boiler	1	Nr		Building 1	Room 2	
20	05-04	Atmospheric Gas Burner - Condensing Boiler	1	Nr		Building 1	Room 2	
21	05-05	Coal Fired Boilers - Bunkers and Conveyors	1	Nr		Building 1	Room 2	

- Title of the Project from Benchmark
- Start Date to define the starting week of the schedule
- Customises the schedule display:
 - Duration: Shows the duration and colour for each of the frequencies in the schedule.
 - Blank: Shows the frequency colours only.
 - Labour Element: Shows the frequency colour and the suffix for the Labour Element.
- Incremental numbers to reference each Asset in the Project
- Item Code
- Value of the Item Custom Field, Code 2 if present in Project Items
- Item Description
- Item Quantity

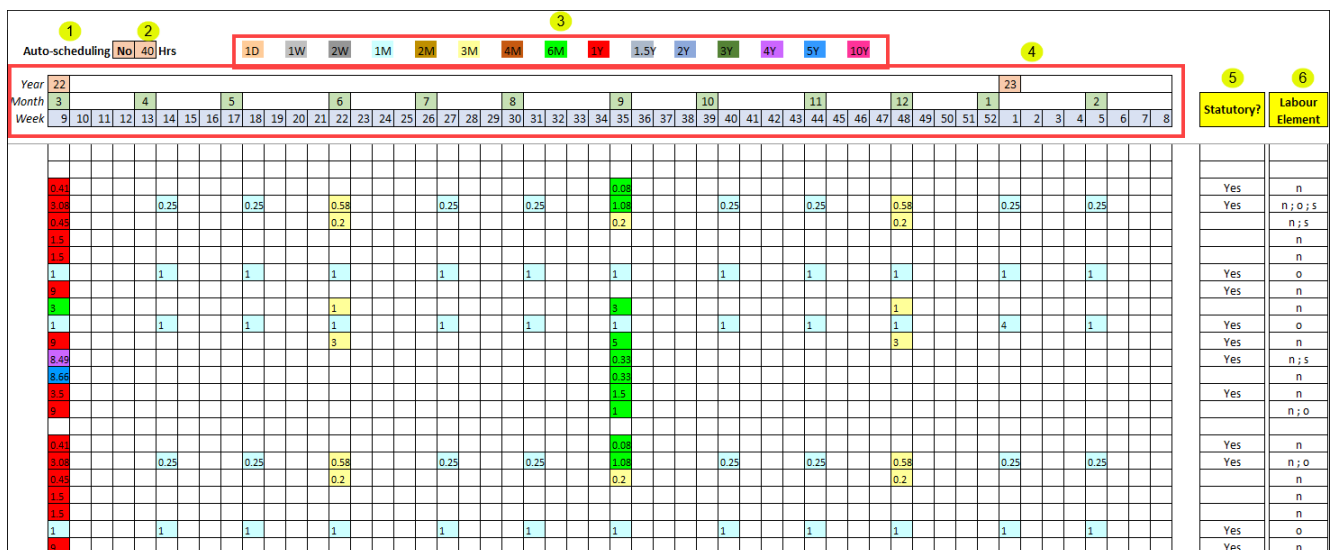
- Item **Unit** ⁸
- Value of the Item Custom Field, **Barcode** if present in **Project Items** ⁹
- Project Section **Description** ¹⁰
- Column **WBS L2** ¹¹ shows the **Description** of the first level of Composites and will only be displayed if the Project contains Composite levels.
There will be as many additional **WBS L...** columns as there are additional Composite levels in the Benchmark Project.
- The Subcontractor ¹² associated with any Resource in the Item. This is the value of the **Subcontractor** column if present, in **Project Resources**



If different Resources within an Item have different Subcontractors, then the first value in the **Subcontractor** column will be used.

- You can also generate various exports from the application. See [Exporting Information](#) for more details.

Right Panel

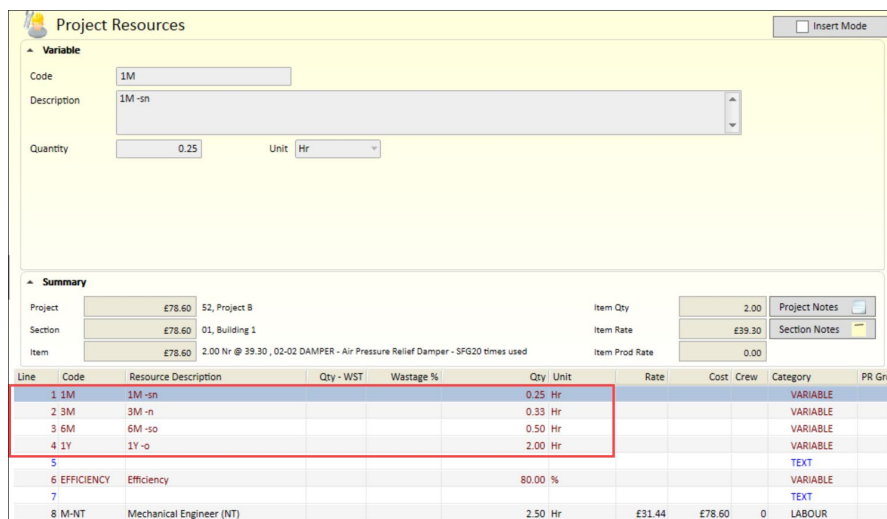


- Toggle to enable the Autoschedule function ¹
 - Define the maximum number of weekly working hours to adjust the visit schedules when you use Autoschedule ²
- Frequencies used in the Estimate, represented by their colours ³
- The application shows a weekly visit schedule for one year (52 weeks) ⁴

- Each row displays the visit duration and frequency for an Asset (Project Item).
- For an Asset, if multiple visit frequencies are scheduled in the same week, then the colour of the frequency with the longest duration displays.
- Statutory?** 5 shows *Yes* if the Custom Field *Criticality* is set to *Statutory* in **Project Items**
- Labour Element** 6 shows the labour element suffixes from the frequency (Resource *Description*). Each suffix is displayed once even if present in multiple descriptions.

Example

- A Project Item (Asset) has the following frequencies set up in Benchmark:




Only the frequencies that precede the first TEXT line in **Project Resources** are identified as durations and sent to the PPM Planner.

- Frequencies have the following colours:

1M 3M 6M 1Y

- Display** is set to *Duration*.
- Start Date** is set to 02-March-2022. So, the calendar starts at week 9 of the year.
- The Asset will show the visit schedule for the year as follows:

Week	Month	Visits Scheduled	Duration Displayed
9	March	<ul style="list-style-type: none"> Monthly (1M) Quarterly (3M) Half-yearly (6M) 	0.25 + 0.33 + 0.50 + 2.00 = 3.08

Week	Month	Visits Scheduled	Duration Displayed
		• Yearly (1Y)	
14	April	Monthly (1M)	0.25
18	May	Monthly (1M)	0.25
22	June	<ul style="list-style-type: none"> Monthly (1M) Quarterly (3M) 	$0.25 + 0.33 = 0.58$
27	July	Monthly (1M)	0.25
31	August	Monthly (1M)	0.25
35	September	<ul style="list-style-type: none"> Monthly (1M) Quarterly (3M) Half-yearly (6M) 	$0.25 + 0.33 + 0.50 = 1.08$
40	October	Monthly (1M)	0.25

Configuring the PPM Planner

Managing User Access

Application Administrators can perform the following functions:

- Set up / modify / delete user access
- Set up normal and special frequencies
- Manage the colour palettes for frequencies

Admin Access

The application Administrator can grant admin access to a user. See the table below for information on this access:

Function	Admin Access	Non-Admin Access
Create	✓	✓
Edit		
Own Planner	✓	✓
Other Users' Planners	✓	✗
Duplicate		
Own Planner	✓	✓
Other Users' Planners	✓	✓
Delete		
Own Planner	✓	✓
Other Users' Planners	✓	✗
Archive		
Own Planner	✓	✓
Other Users' Planners	✓	✗

Setting Up New Access

1. Log in to the PPM Planner app.
2. Select Admin.
3. Select the Create New Access button.
4. Search the relevant user by their username
5. Select a default *Display* for the user from the following options:
 - a. *Duration*: Shows the duration and colour for each of the frequencies in the schedule.
 - b. *Blank*: Shows the frequency colours only.
 - c. *Labour Element*: Shows the frequency colour and the suffix for the Labour Element.
This will be the default *Display* for the user when they create a new Planner. The user can change this, if required.
6. Enter a *Login Code* for the user.
7. Select a default *Autoschedule* option:
 - a. *Yes*: The user can define the number of weekly working hours to automatically adjust the schedule for all Assets.
 - b. *No*: The user cannot automatically adjust the schedule.
This will be the default selection for the user when they create a new Planner. The user can change this, if required.
8. Enter the default *Maximum Hours*.
This will be the default *Maximum Weekly Hours* displayed to the user for the Autoschedule function, when they create a new Planner. The user can change this, if required.
9. Provide *Admin Access* to this user, if required.
10. Check one or more *Columns to be displayed* in the schedule.
11. Select Save.

Modifying User Access

1. Log in to the PPM Planner app.
2. Select **Admin**.
3. Search the relevant user.
4. You can:
 - a. Check the *Admin* checkbox to grant admin access or uncheck to deny admin access.
 - b. Select *Edit Access* to modify user access.
5. Select **Save**.

Locking User Access

Administrators can prevent users from accessing schedules in the PPM Planner by locking their access.

1. Log in to the PPM Planner app.
2. Select **Admin**.
3. Search the relevant user.
4. Select **Lock**.

You can grant back access any time by selecting the same user and then selecting **Unlock**.



You must unlock the user to modify or delete their access.

Deleting User Access

1. Log in to the PPM Planner app.
2. Select **Admin**.
3. Search the relevant user.
4. Select **Delete**.

Setting Up Frequencies

1. Log in to the PPM Planner app.
2. Select **Admin**.
3. Select the **Colour Palette** button.
4. Select **Add Frequency**.

The PPM Planner contains a pre-defined set of frequencies. Slide the **Select** toggle to the left if you do not wish to use any frequency.

5. Select **Add Custom Frequency**.
6. Enter the name for the new frequency, then select **Save**.

The following confirmation message displays:

“Are you sure you want to add the below frequency?”



Once saved, you cannot delete the frequency. However, you can the **Hide Frequency** toggle to prevent the frequency from being displayed in the schedule.

7. Select **Yes**.
All the saved frequencies are displayed in the **Colour Palette** window.
8. Use the *Assign Colour* dropdown to select an RGB colour for the frequency.
9. Select **Save**.

The following confirmation message displays:

“Are you sure you want to save the colour?”



Once saved, you cannot edit the colour.

10. Select **Yes**.

Setting Up Special Frequencies

If a frequency does not have any colour defined in the **Colour Palette** or needs to be highlighted, you can set up a default / Special frequency colour.

1. In the **Colour Palette** window, slide the **Special Frequency** toggle.
 2. In the *Label* field, enter a name for the special frequency.
-



If you do not define a name, the special frequency will be represented by **S** in the schedule.

3. Select a colour.
4. Select **Save**.

The following confirmation message displays:

“Are you sure you want to add the special frequency?”

5. Select Yes.



To highlight a defined (normal) frequency, slide its Special Frequency toggle to the right.

Creating a Planner

1. Log in to the PPM Planner app.
2. Select Planner.
3. Select Create New Planner.
4. Enter any of the following details to filter Projects:
 - a. *Job No*
 - b. *Quote No*
 - c. *Project name*
 - d. *Region*
5. Select the relevant Project.
6. Select Generate.
7. Select a *Start Date* to define the starting week of the schedule.

This creates a visit schedule for all the Project Items where Asset is set to Yes in **Project Items > Custom Field**.

Line	Code	Description	Quantity	Unit	Rate	Cost	Complete	Calc
1	02-02	DAMPER - Air Pressure Relief Damper - SFG20 times used	2.00	Nr	£39.30	£78.60		
2	03-01	AIR HANDLING UNITS - large (higher than SFG time)	1.00	Nr	£0.00	£0.00		
3	05-37	Boiler - Super Heater	3.00	Nr	£0.00	£0.00		
4	05-21	Electric Boilers	2.00	Nr	£0.00	£0.00		
5	05-12	Forced Draught Gas Condensing Boiler	2.00	Nr	£0.00	£0.00		
6								
7								

The schedule is based on the frequency durations of the Assets in the **Project Resources** window.

Line	Code	Resource Description	Qty - WST	Wastage %	Qty Unit	Rate	Cost	Crew	Category	PR Gro
1	1M	1M -sn			0.25	Hr			VARIABLE	
2	3M	3M -sn			0.33	Hr			VARIABLE	
3	6M	6M -so			0.50	Hr			VARIABLE	
4	1Y	1Y -o			2.00	Hr			VARIABLE	
5									TEXT	
6	EFFICIENCY	Efficiency			80.00	%			VARIABLE	
7									TEXT	
8	M-NT	Mechanical Engineer (NT)			2.50	Hr	£31.44	£78.60	0	LABOUR

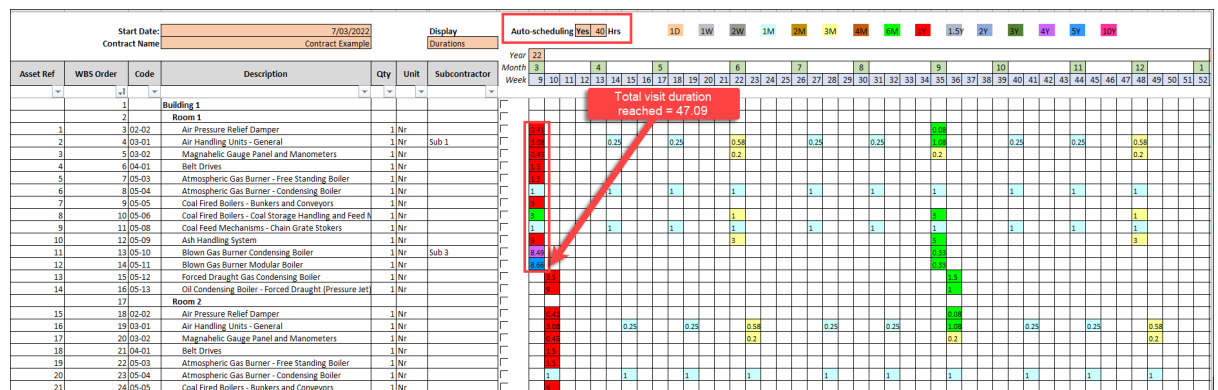
Adjusting the Schedule

Autoscheduling

1. On the application landing page, select **Planner**.
2. Search and select the relevant planner.
3. Select **Edit**.
4. Slide the **Auto scheduling** toggle to the right.
5. Enter the number of maximum weekly working hours.

For example, **40**.

When the total visit duration for any week (sum of durations for each row in a week) exceeds 40, then the visits scheduled for the remaining Assets (rows) is offset by a week until the limit of 40 is reached again.



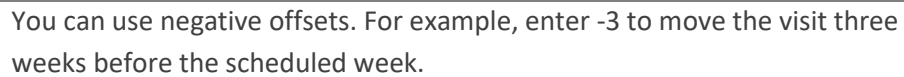
Entering a Last Checked Date to Offset Schedules

You can adjust the visit schedule for an Asset by entering the date it was last inspected.

For example:

1. The contract start date is **07-March-2022** 1

Start Date:		7/03/2022	Display		Durations	
Contract Name:		Contract Example				
Asset Ref	WBS Order	Code	Description	Qty	Unit	Subcontractor
	1		Building 1			
	2		Room 1			
1	3	02-02	Air Pressure Relief Damper	1	Nr	
2	4	03-01	Air Handling Units - General	1	Nr	Sub 1
3	5	03-02	Magnahelic Gauge Panel and Manometers	1	Nr	
4	6	04-01	Belt Drives	1	Nr	
5	7	05-03	Atmospheric Gas Burner - Free Standing Boiler	1	Nr	
6	8	05-04	Atmospheric Gas Burner - Condensing Boiler	1	Nr	
7	9	05-05	Coal Fired Boilers - Bunkers and Conveyors	1	Nr	
8	10	05-06	Coal Fired Boilers - Coal Storage Handling and Feed	1	Nr	
9	11	05-08	Coal Feed Mechanisms - Chain Grate Stokers	1	Nr	
10	12	05-09	Ash Handling System	1	Nr	
11	13	05-10	Blown Gas Burner Condensing Boiler	1	Nr	Sub 3
12	14	05-11	Blown Gas Burner Modular Boiler	1	Nr	
13	15	05-12	Forced Draught Gas Condensing Boiler	1	Nr	
14	16	05-13	Oil Condensing Boiler - Forced Draught (Press	1	Nr	

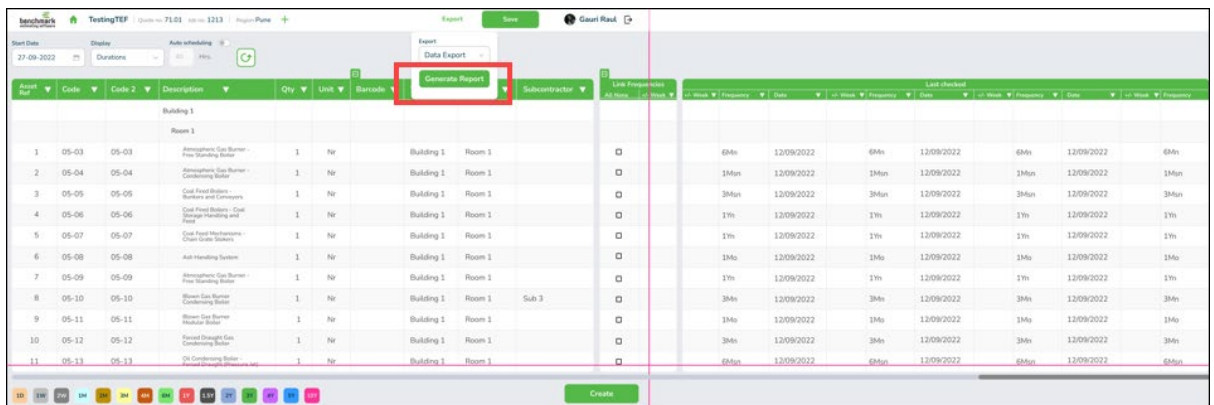
[illegible]

Exporting Information

Three options are available from the **Export** button in the PPM Planner:

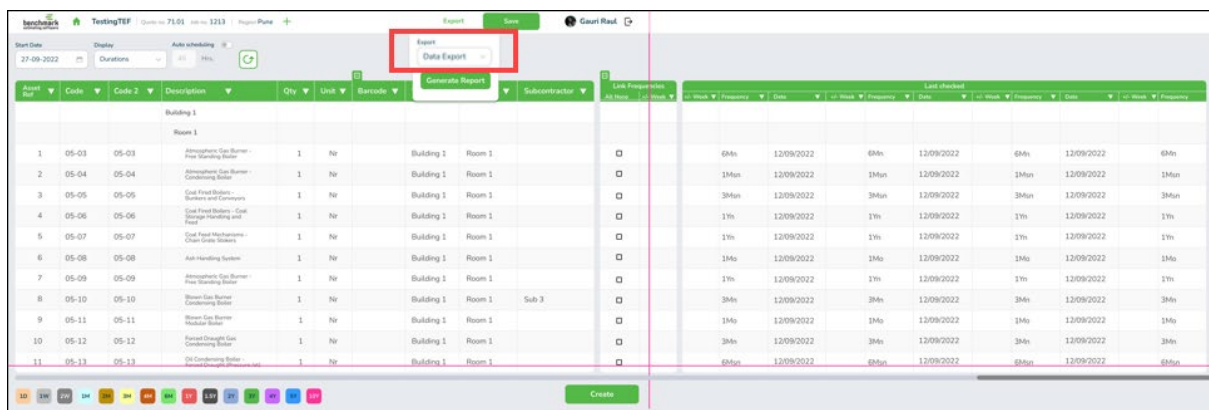
- Generate Report
- Data Export
- Maintenance Schedule

Generate Report

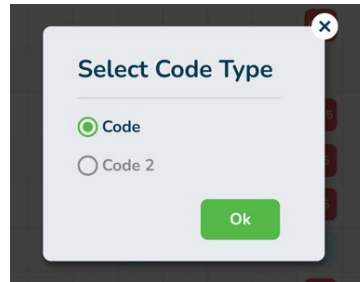


This report contains all the Asset and schedule information shown in the PPM Planner based on the selected *Display* option.

Data Export



1. In the relevant Planner, select **Export > Data Export**.
2. Select the **Code** type and then **OK**.



This lists all the frequencies for all the Assets.

Data Export												
Contract	WBS L1	WBS L2	Task	PPM Ref	Asset Ref	Asset Name	Asset Quantity	Asset Barcode	Asset Note	Delivery	Task Time	Out of Hours?
Contract Example	Building 1	Room 1	02-02-6M	1	1	Air Pressure Relief Damper	1			Self-Deliver	0.083333333	N
Contract Example	Building 1	Room 1	02-02-1Y	2	1	Air Pressure Relief Damper	1			Self-Deliver	0.333333333	N
Contract Example	Building 1	Room 1	03-01-1M	3	2	Air Handling Units - General	1			Sub 1	0.25	N
Contract Example	Building 1	Room 1	03-01-3M	4	2	Air Handling Units - General	1			Self-Deliver	0.33	N
Contract Example	Building 1	Room 1	03-01-6M	5	2	Air Handling Units - General	1			Sub 1	0.5	Y
Contract Example	Building 1	Room 1	03-01-1Y	6	2	Air Handling Units - General	1			Self-Deliver	2	Y
Contract Example	Building 1	Room 1	03-02-3M	7	3	Magnahelic Gauge Panel and Manometers	1			Subcon TBC	0.2	N
Contract Example	Building 1	Room 1	03-02-1Y	8	3	Magnahelic Gauge Panel and Manometers	1			Self-Deliver	0.25	N
Contract Example	Building 1	Room 1	04-01-1Y	9	4	Belt Drives	1			Self-Deliver	1.5	N
Contract Example	Building 1	Room 1	05-03-1Y	10	5	Atmospheric Gas Burner - Free Standing Boiler	1			Self-Deliver	1.5	N
Contract Example	Building 1	Room 1	05-04-1M	11	5	Atmospheric Gas Burner - Condensing Boiler	1			Self-Deliver	1	Y
Contract Example	Building 1	Room 1	05-05-1Y	12	6	Coal Fired Boilers - Bunkers and Conveyors	1			Self-Deliver	9	N

- *Title* of the Project from Benchmark
- Project Section *Description*
- Value of the *WBSL2* column from the Planner i.e., *Description* of the first level of Composites
- If the Project does not have Composites, then this column is blank.
- A concatenation of either the corresponding Asset *Code* or *Code 2* (depending on the selection when generating the export), and the frequency without the suffix
- An incremental number sequence for each row in the export
- A numbering sequence to denote frequencies in an Asset. The same number is repeated for all the frequencies in one Asset
- Asset *Description* from the Planner
- Asset *Quantity* from the Planner
- Value of the Asset *Barcode* from the Planner
- Value of the *Text* field for this Asset in *Project Items* in Benchmark
- *Delivery*:

- *Self-Deliver*: For all the frequencies ending with the suffix -n or -o. This means there is no Subcontractor associated with the Asset.
- *Subcon TBC*: For frequencies ending with the suffix -sn or -so but no Subcontractor value for the corresponding Asset.
- A Subcontractor name: Shows the *Subcontractor* column value from the Planner for all the frequencies ending with the suffix -sn or -so.
- *Duration* of the frequency 12
- *Out of Hours* 13:
 - *Y*: For all frequencies ending with the suffix -o or -so
 - *N*: For all the frequencies ending with the suffix -n or -sn
- Downloads the export to your system 14

Logging Out

To log out of this application:

1. From any page within the application, select the **Logout** icon.

The following confirmation prompt displays:

“Are you sure you want to Logout?”

2. Select **Yes**.

Our mission is to help organisations improve their estimating, and the integration of estimating with related business processes; for private enterprise this helps improve your profit and market share; public authorities can deliver more accurate budgets and streamline project delivery.

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