

Webhooks

Feature Guide | MOM Release SP1

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Overview

By using Webhooks it's possible to easily pass data to other third party web based applications. In addition to communicating with other external applications, Webhooks facilitate the extension of MOM data displayed in the workbench, workbench reporting screen and on customizable report pages.

Webhooks allows parameterized query strings to be passed to any web based application where there is a common form of data. Webhooks are designed to be flexible and an understanding of the use of parameters in MOM and the third party application is required to configure this feature.

Examples of the types of applications Webhooks can be used with:

- Third party reporting services such as SSRS, Microsoft BI, Crystal Reports
- SYSPRO
- Label Printing Software
- Local MOM web pages

Webhooks can pass parameterized queries in 3 different ways:

1. **Browser Default** - the URL is opened in a new browser window
2. **Overlay** - the URL is opened as an overlay on the current page
3. **As a service** - the URL is passed to the third party service in the background

Recognizing parameters in query strings

Not all webpages support parameters to be passed in the query string value. It is easy to identify when a parameter can be passed. In the example below, the question mark (?) character identifies the value **ferret** is passed as a parameter for **name**.

```
http://example.com/over/there?name=ferret
```

The ampersand (&) character is used to pass multiple parameters. In the example below **name** and **color** are passed as parameters.

```
http://example.com/path/to/page?name=ferret&color=purple
```

To configure Webhooks in MOM, the following examples can be used as a guide. In these step by step instructions, you will create a Webhook that will:

- Open the **Job Card** from the **Workbench** screen (**Example 1**)
- Open the **Job Card** the **Workbench Report** screen (**Example 2**)
- Open the **Job Card** from the **Employee Performance** screen (**Example 3**)

Webhooks are configured in these application areas:

- **Workbench** Main screen (Workbench OSE - **Control Settings**)
- **Workbench Reporting**: Screen (Workbench OSE - **Reporting Settings**)
- **Reports** and screens (**Customize**)

Configuring parameters for a webhook

Within **Advanced Settings** you first need to define the parameters that will be passed to the third party application and the URL of the third party application itself. It's possible to create multiple Webhooks to link MOM to different applications. In this simple example, you will learn how to pass the Job Code as a parameter to the Job Card.


1. From the MOM home page click **Settings**
2. Click **Advanced Settings**
3. Click **Definitions**
4. Click **Webhooks**
5. If this is the first time you are configuring Webhooks it's best to first delete all pre-shipped Webhook examples. Select each Webhook and click **Delete**
6. Once all pre-shipped Webhooks have been deleted, Click **New**
 - a. Enter a **Name** for the URL = (i.e. Job Card)
 - b. Enter a **Description** = (i.e. Job Card)
 - c. Select **Browser Default** as the Behavior
 - d. Enter the **URL** =(i.e

```
http://Servername/SiteName/MenuPages/Tracking/JobStatusDetails.aspx)
```

- e. Enter URL parameter = **id** in the name field
- f. Enter the Display Name = **Job Code**
- g. Click **Save**

General	
Name	Job Card
Description	Job Card
Behavior	Browser default
URL	http://localhost/MOM_R/MenuPages/Tracking/JobStatusDetails.aspx

URL parameters		
	Name	Display Name
Delete	id	Job Code
Delete		



Configuring which data is passed by the webhook

Now that you have defined the parameter for the webpage, you must choose where to show the Webhook and what data field from MOM will be passed into the parameter.

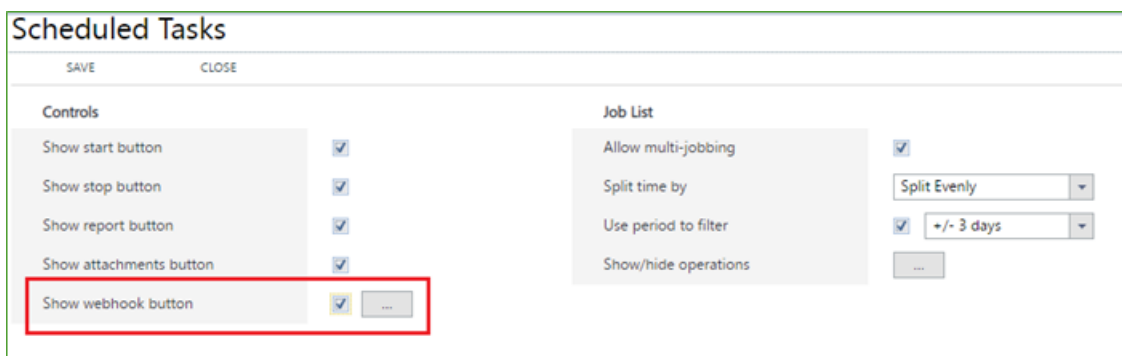
Within the settings of the Workbench **On-Screen Element** you can configure the Webhook in 3 different ways:

1. Control Settings: **Show Webhook Button**
 - When enabled the Webhook will appear on the main Workbench screen and the user must manually click on the Webhook Button to execute the page
2. Reporting Settings: **Show Webhook Button**
 - When enabled the Webhook will appear on the Workbench **Report** screen and the user must manually click on the Webhook Button to execute the page
3. Reporting Settings: **Form Submission Webhooks**
 - When enabled the Webhook will automatically execute when the user clicks **Report** from the **Workbench Report** screen

Displaying the webhook on the workbench

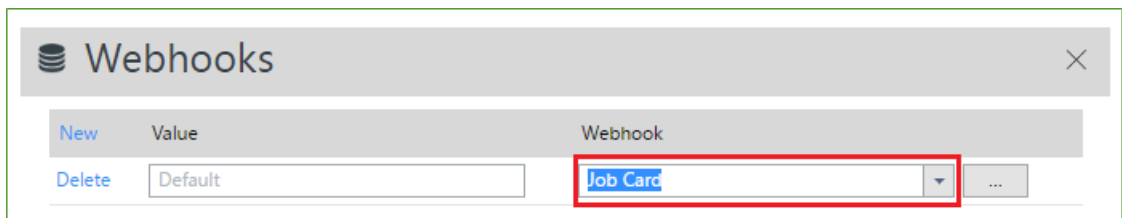
The following steps describe how to display the webhook on the workbench.

1. From the **MOM** home page select **Settings**.
2. Select **Workbench**.
3. Select **Elements**.
4. Double click on the **Workbench (Employee) On-Screen Element** to edit the properties.
5. Select **Settings** for **Scheduled Tasks**.
6. Tick **Show Webhook Button** and click on the **eclipse** button [...]



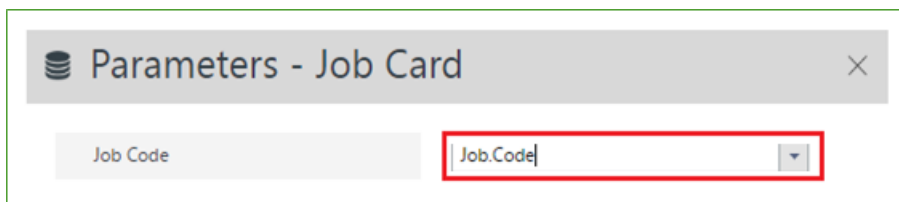
The screenshot shows the 'Scheduled Tasks' configuration window. It has 'SAVE' and 'CLOSE' buttons at the top. The window is divided into two main sections: 'Controls' and 'Job List'. In the 'Controls' section, there are five checkboxes: 'Show start button', 'Show stop button', 'Show report button', 'Show attachments button', and 'Show webhook button'. The 'Show webhook button' checkbox is checked and highlighted with a red rectangular box. To its right is a small 'eclipse' button (three dots) also highlighted with a red rectangular box. The 'Job List' section contains 'Allow multi-jobbing' (checked), 'Split time by' (set to 'Split Evenly'), 'Use period to filter' (checked, with a dropdown set to '+/- 3 days'), and 'Show/hide operations' (with a three-dot menu).

7. Select the **Job Card** from the **Webhook** dropdown.



The screenshot shows the 'Webhooks' dialog box. It has a title bar with a hamburger menu icon and the text 'Webhooks'. Below the title bar is a table with columns 'New', 'Value', and 'Webhook'. The 'Value' column contains 'Default'. The 'Webhook' column contains a dropdown menu with 'Job Card' selected and highlighted with a red rectangular box. There are 'Delete' and '...' buttons at the bottom left and right of the table respectively.

8. Click on the **eclipse** button [...]
9. Select **Job.Code** from the field dropdown list.




The screenshot shows the 'Parameters - Job Card' dialog box. It has a title bar with a hamburger menu icon and the text 'Parameters - Job Card'. Below the title bar is a table with columns 'Job Code' and 'Job.Code'. The 'Job.Code' column contains a dropdown menu with 'Job.Code' selected and highlighted with a red rectangular box.

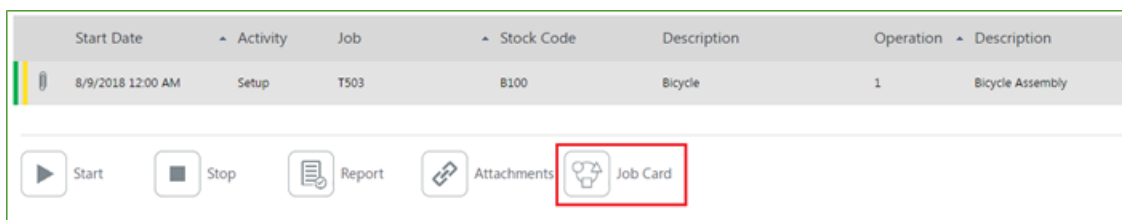
10. Select **OK** twice.
11. Select **Save**.

Testing the webhook from the workbench

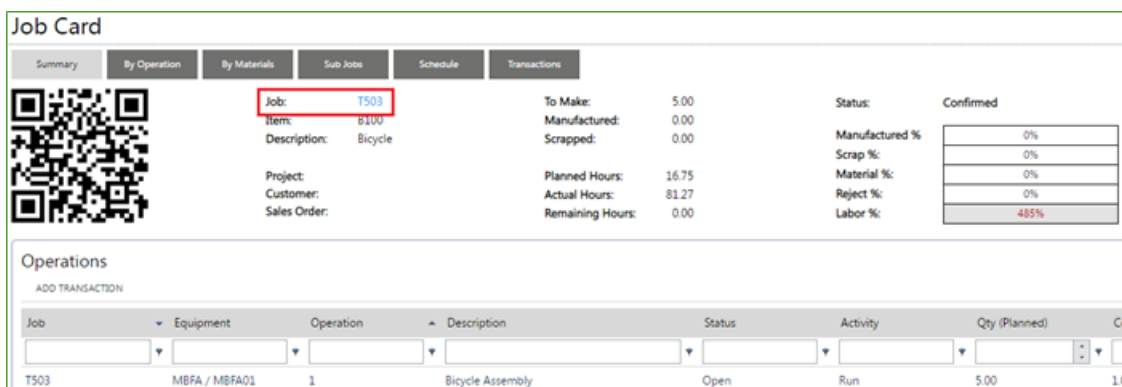
The following steps describe how to test if the webhook is working from the workbench.

1. Click into the **Workbench** as an employee.
2. Select a **Task**.
3. Click on the **Job Card** button.

 **Note:** The Popup Blocker may need to be disabled to load the page.



4. If configured correctly, the **Job Card** will open for the task selected in a new browser window.





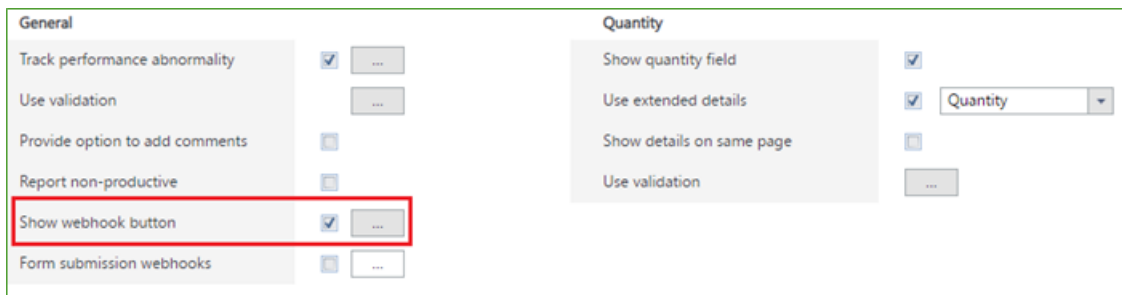
Multiple Webhooks

It's possible to display multiple Webhooks on the Workbench. The Webhook button behavior changes when multiple Webhooks are configured. When multiple Webhooks are configured you will see one button called **Webhooks** on the Workbench. After clicking on the **Webhooks** button you will be able to select the relevant **Webhook** by name. Default display names can be replaced with custom values by changing the Webhooks value field.

Displaying the webhook on the report screen

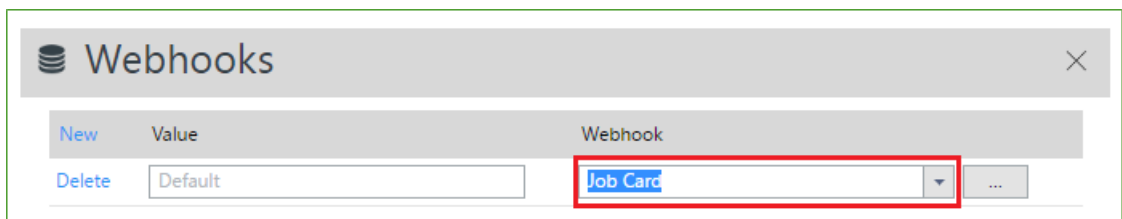
The following steps describe how to display the webhook on the report screen

1. From the MOM **home** page select **Settings**.
2. Select **Advanced Settings**.
3. Select **Workbench**.
4. Select **Elements**.
5. Double click on the **Workbench (Employee)** On-Screen Element to edit the properties.
6. Click on **Settings** for Scheduled Tasks.
7. Click on **Reporting Options** eclipse button [...].
8. Tick **Show Webhook Button** and click on the **eclipse** button [...].



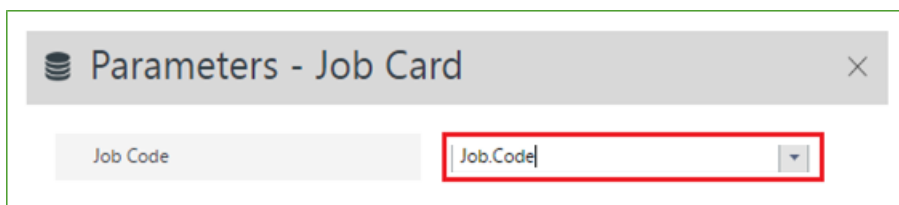
The screenshot shows two side-by-side settings panels. The left panel is titled 'General' and contains several options with checkboxes and dropdown menus. The 'Show webhook button' option is checked and its dropdown menu is highlighted with a red box. The right panel is titled 'Quantity' and contains options for 'Show quantity field', 'Use extended details', 'Show details on same page', and 'Use validation'. The 'Use extended details' option is checked and its dropdown menu is set to 'Quantity'.

9. Select the **Job Card** Webhook from the dropdown.



The screenshot shows a dialog box titled 'Webhooks'. It has a 'New' button and a 'Delete' button. The 'Value' field contains 'Default'. The 'Webhook' dropdown menu is highlighted with a red box and shows 'Job Card' selected. There is also an '...' button to the right of the dropdown.

10. Click on the **eclipse** button to the right of the **Webhook** field.
11. Select **Job Code** from the field dropdown list.




The screenshot shows a dialog box titled 'Parameters - Job Card'. It has a 'Job Code' field and a dropdown menu. The dropdown menu is highlighted with a red box and shows 'Job.Code' selected.

12. Select **OK** three times.
13. Select **Save**.





Testing webhooks from the report screen

The following steps describe how to test that the webhook is working correctly from the report screen.

1. Click into the **Workbench** as an employee.
2. Select a **Task**.
3. Click on the **Report** button.
4. Click on the **Job Card** button.

 **Note:** The Popup Blocker may need to be disabled to load the page.

Details:		Report:	
Start Date	8/9/2018 12:00 AM	Equipment	MBFA / MBFA01
Activity	Setup	Status	No change
Job	T503		
Stock Code	8100		
Description	Bicycle		
Operation	1		
Description	Bicycle Assembly		
Qty (Planned)	1.00		
Qty (Today)	0.00		
Scrap (Today)	0.00		
Remaining	1.00		
Hrs (Today)	3.85		
Equipment	MBFA / MBFA01		

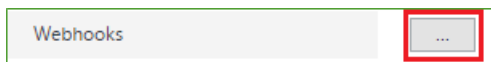
5. If configured correctly, the **Job Card** will open for the task selected in a new browser window.

Displaying a webhook on a report

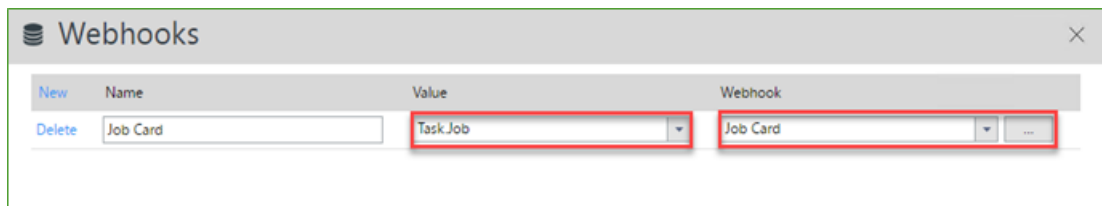
The following steps describe how to display the webhook on a report.

i Wherever you see an option to **customize** a grid view, you have the ability to configure a Webhook. In this example you will configure the Employee Performance Audit screen to show the Job Card Webhook.

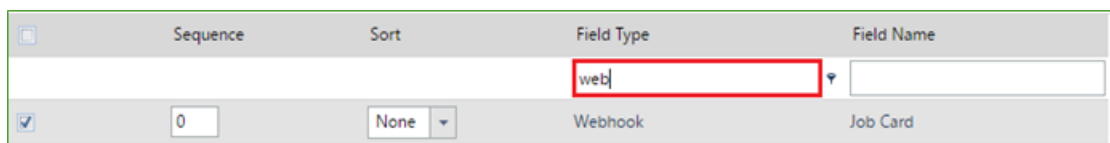
1. Select **Employee Performance** in Workforce Manager.
2. Click on **Audit** tab.
3. Select **Customize**.
4. Click **Webhooks eclipse** button [...]



- a) Enter **Job Card** in the **Name** column.
- b) Select **Task.Job** from the Value dropdown list.
- c) Select **Job Card** from the Webhook dropdown list.



- d) Click on the **eclipse** button to the right of the Webhook field [...].
- e) Select **Task.Job** from the field dropdown list.



- f) Select **OK** twice.
5. Search for the new field by typing **Web** in the **Field Type** column heading.
 6. Tick the **left checkbox** field and enter a **sequence number** to enable this field to be displayed on the grid.
 7. Select **Save**.

How to identify parameters on pages in MOM

A number of reports in MOM use parameters.

Reports where Parameters are used:

Report	Parameter(s)	Parameter Value
Equipment Loading	Fclt	Equipment ID
Production Job List	Dpt	WorkCentre Name
Equipment Job List	Dpt & fc	WorkCentre Name & Equipment ID
Employee Status Details	Emp	Employee ID
Equipment Details	Fclt	Equipment ID
Employee Performance	R	Employee ID
Equipment Performance	F	Equipment ID

Data field names used as parameters

When creating Webhooks for complex query strings, a good understanding of the structure of the data in MOM is required. In most cases, the fields listed in the table below will be commonly used as parameters to third party applications.

Common fields in MOM:

Product Area	Workbench Column Name	Data Field Name
Workbench	Start Date	Operation.Scheduled Start Date
Workbench	Job	Job.Code
Workbench	Stock Code	Job.Stock Code
Workbench	Description	Job.Description
Workbench	Operation	Operation.Operation
Workbench	Qty (Planned)	Operation.Quantity Ordered
Workbench	Qty (Today)	Local.Qty (Today)
Workbench	Scrap (Today)	Local.Scrap (Today)
Workbench	Remaining	Local.Remaining
Workbench	Hours (Today)	Local.Hrs (Today)
Workbench	Equipment	Equipment.Equipment