



Critical
manufacturing
an ASM PT company

Grafana Widget

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Grafana Widget

Estimated time to read: 6 minutes

This document will guide you through the required configurations and set up for the integration of a **Grafana** dashboard into a UI Page with the **Grafana** widget.

Overview

The **Grafana** widget is used within Critical Manufacturing MES but your original **Grafana** dashboard is initially created in a separate external page.

Warning

Given that Grafana is a server that can be deployed within the realm of the current customer environment (in a separate container sharing the same network and environment stack) or in an autonomous installation to be used by multiple environments, a configuration key is required to indicate the proper URL to be used for this specific environment. That key is `/Cmf/Guis/Configuration/Urls/Grafana/` and should hold the value for the current Grafana server location (example: `https://grafanaserver.companydomain.com:443/Grafana`). If the configuration entry is not filled in, the widget will display an error:



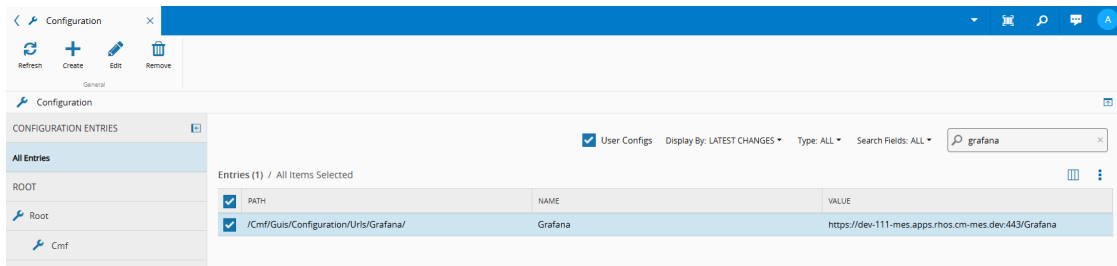
Setting Up Grafana

To have a functioning **Grafana** widget and be able to deploy a full Grafana dashboard within Critical Manufacturing MES, you have to follow the steps in the table below:

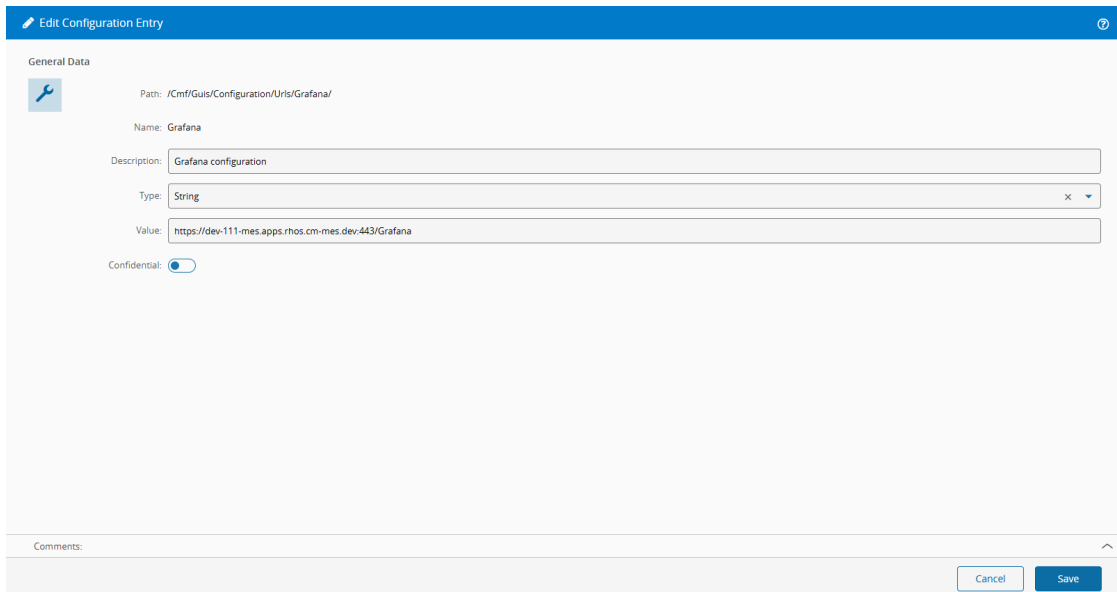
Step Number	Step	Description
1	Configure Grafana	Configure <code>/Cmf/Guis/Configuration/Urls/Grafana/</code> with the appropriate Value .
2	Create a UI Page	Create a UI Page where you will use the Grafana widget.

Step 1: Configure Grafana

1. Go to the **Administration** menu and select **Configuration**.
2. Search and select the Grafana path to be able to edit it:



3. Select **Edit** on the top ribbon and enter the **Value** for the current Grafana server:



The screenshot shows the 'Edit Configuration Entry' form. The 'General Data' tab is active. The form contains the following fields:

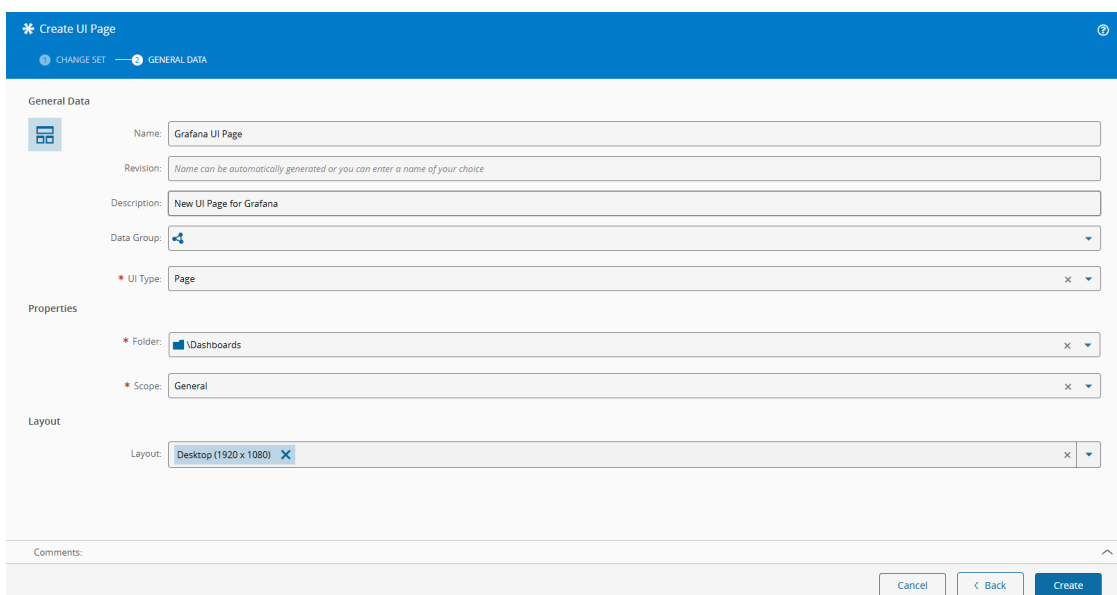
- Path:** /Cmff/Guis/Configuration/Uris/Grafana/
- Name:** Grafana
- Description:** Grafana configuration
- Type:** String
- Value:** https://dev-111-mes.apps.rhos.cm-mes.dev:443/Grafana
- Confidential:** (toggle switch, currently off)

At the bottom, there is a 'Comments' section and two buttons: 'Cancel' and 'Save'.

4. Select **Save**.

Step 2: Create a UI Page

1. Create your UI Page:

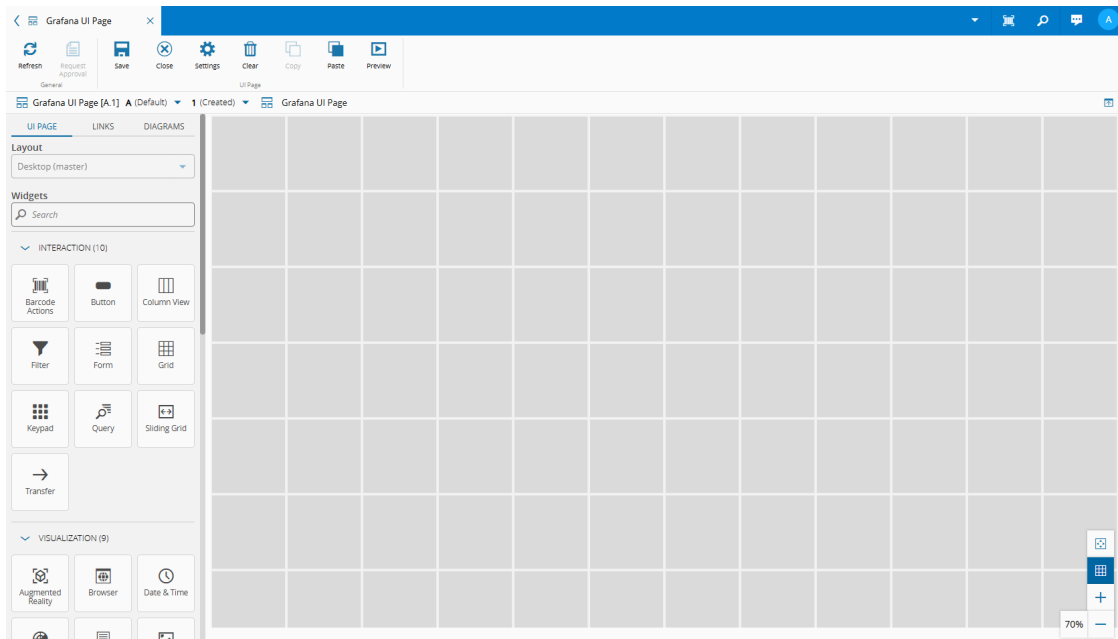


The screenshot shows the 'Create UI Page' form. The 'GENERAL DATA' tab is active. The form contains the following fields:

- Name:** Grafana UI Page
- Revision:** (placeholder text: Name can be automatically generated or you can enter a name of your choice)
- Description:** New UI Page for Grafana
- Data Group:** (dropdown menu)
- UI Type:** Page
- Properties:**
 - Folder:** Dashboards
 - Scope:** General
- Layout:** Desktop (1920 x 1080)

At the bottom, there is a 'Comments' section and three buttons: 'Cancel', '< Back', and 'Create'.

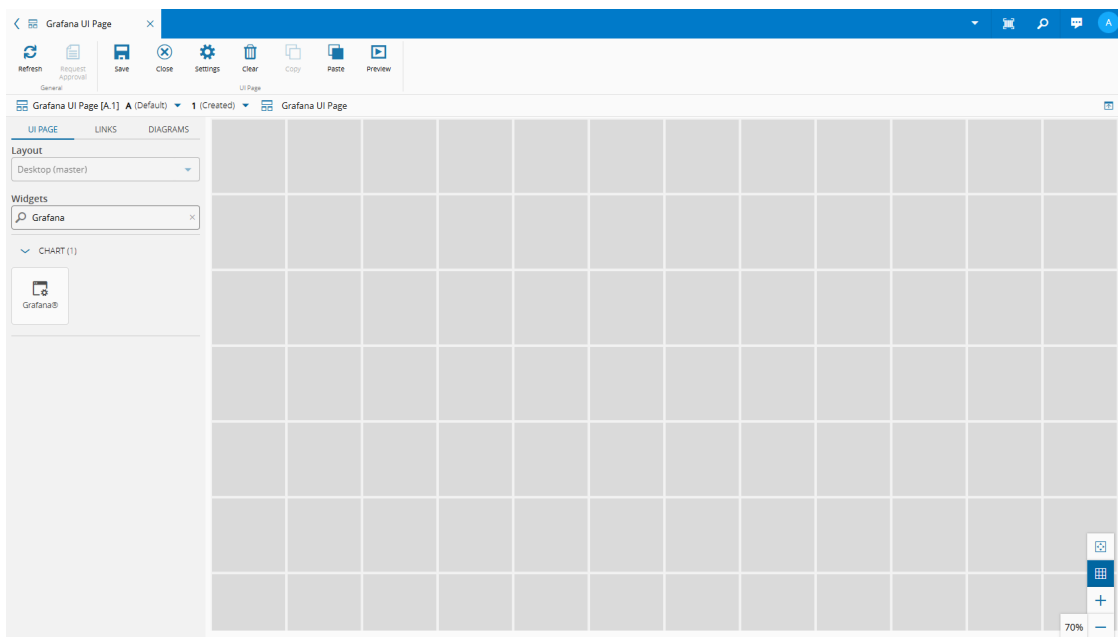
2. Select **Create** and your UI Page will be ready to use:



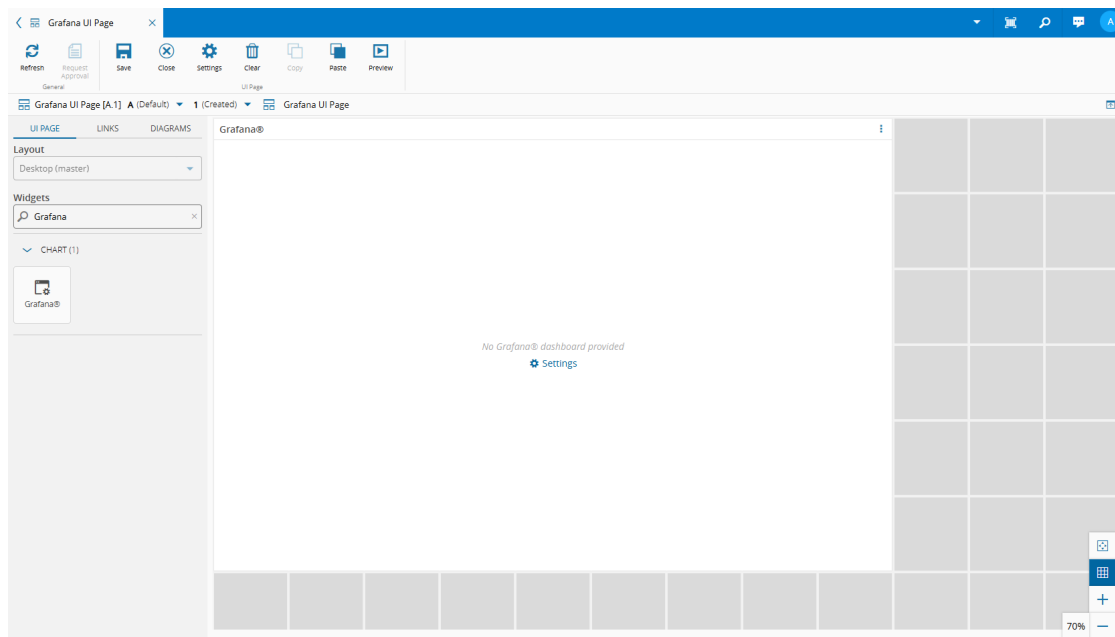
For more information, see [Create UI Page](#).

Configuring the Grafana Widget

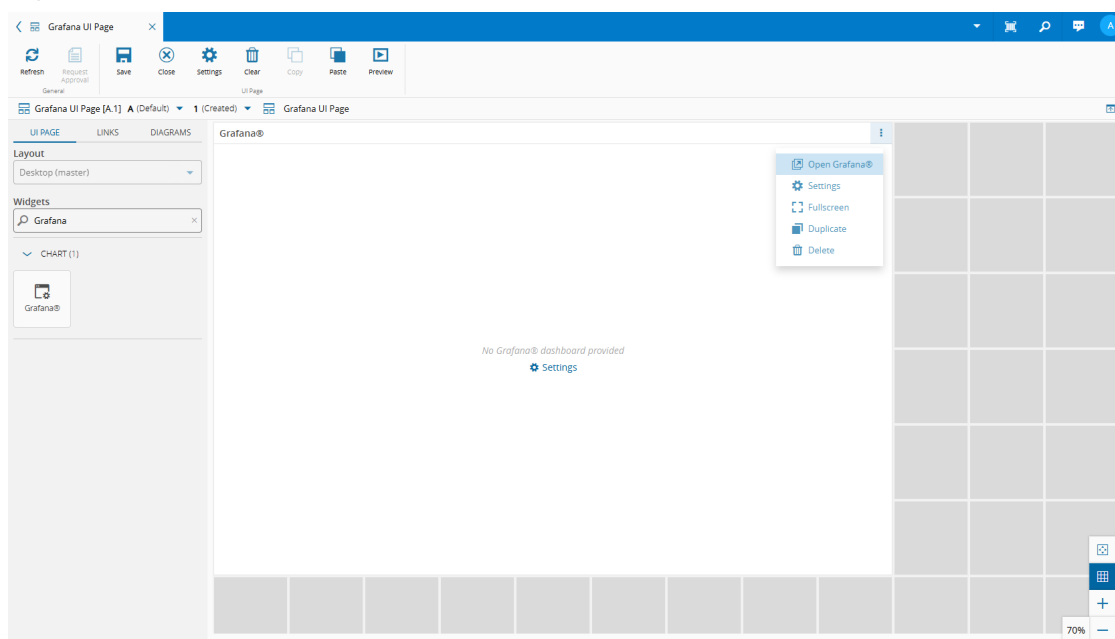
1. In the created UI Page, search for the **Grafana** widget:



2. Drag and drop the **Grafana** widget into the desired place and expand it as needed:



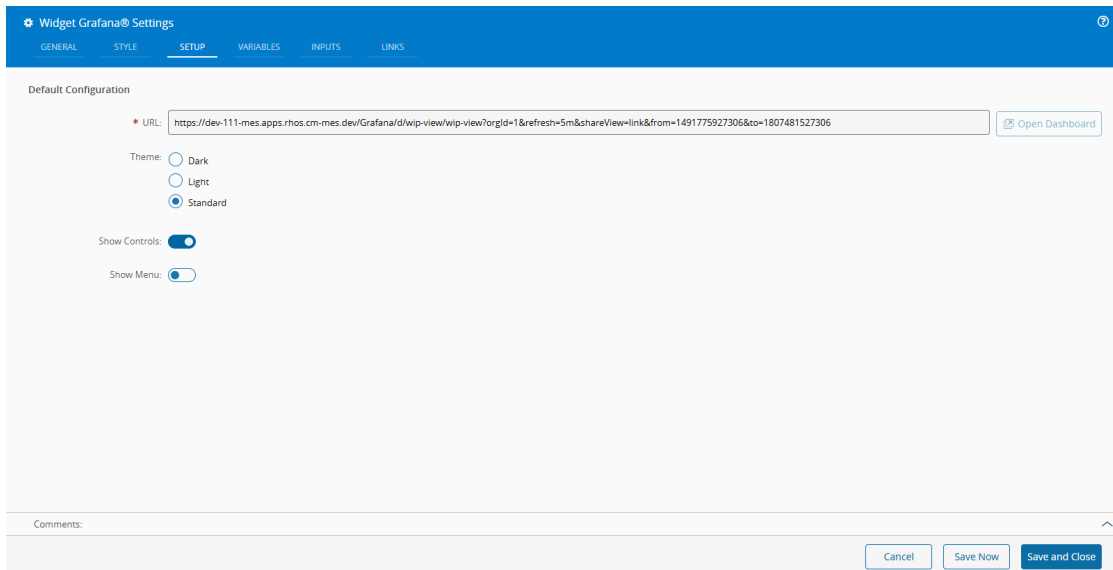
3. If you have not yet created your [Grafana](#) dashboard, select the **More** dropdown, and **Open Grafana** to access the **Grafana** platform, where you can create your dashboard that you will use later in this UI Page:



Note

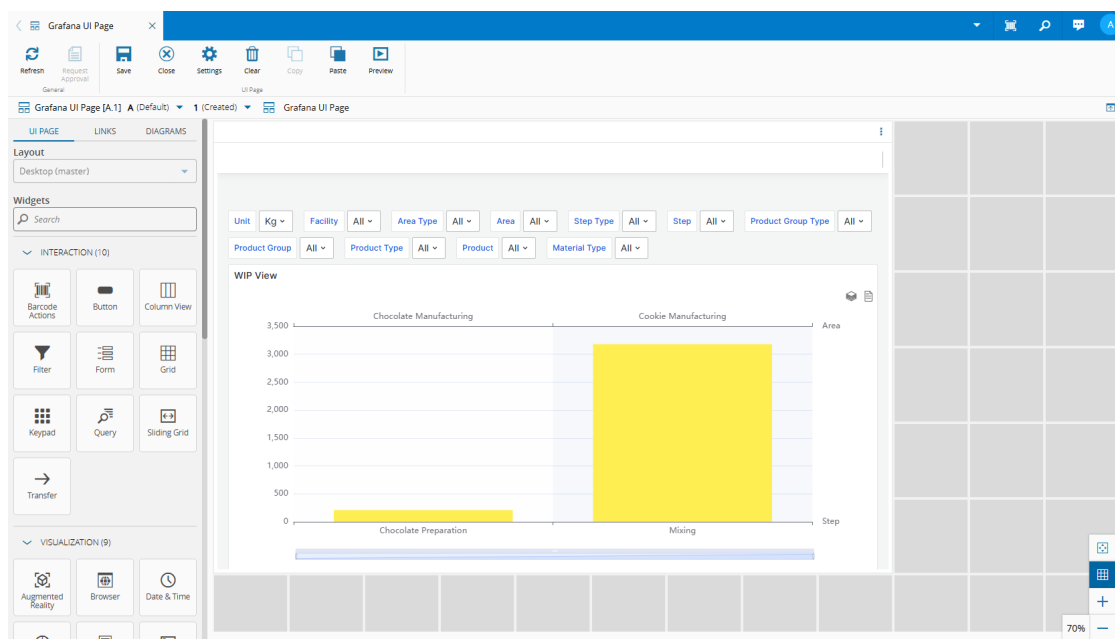
You can access Grafana [Documentation](#) and other useful links to help you start creating your Grafana dashboard.

4. When your **Grafana** dashboard is created, copy its address.
5. In your UI Page, select **Settings** in the **More** dropdown of the **Grafana** widget.
6. Select the **Setup** tab and paste the complete address of your created **Grafana** dashboard in the Dashboard URL field:

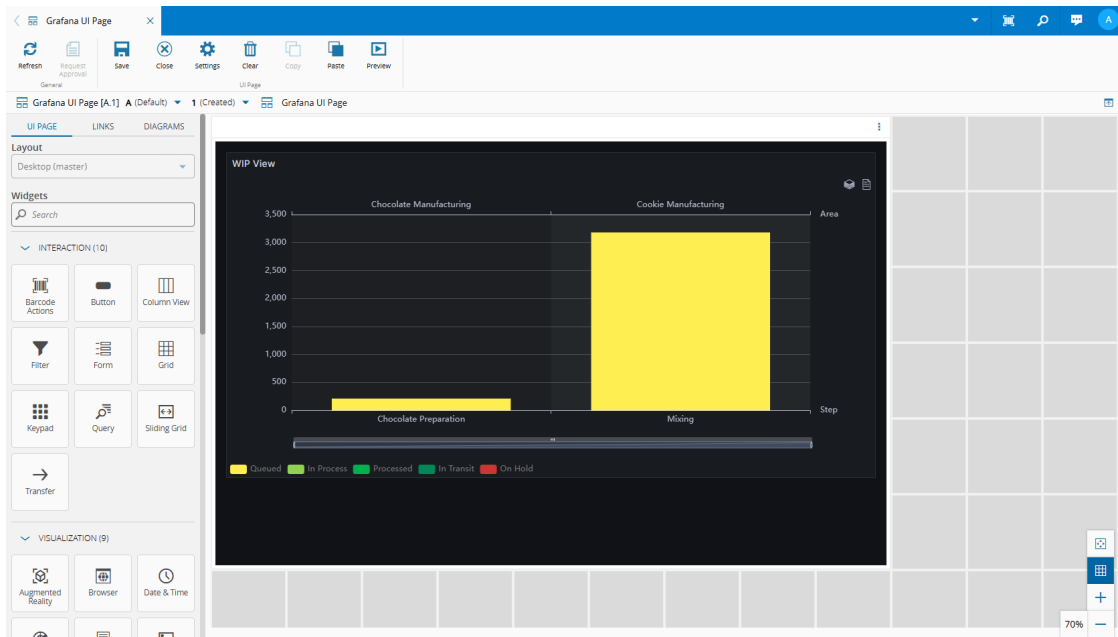


In the **Setup** tab you can also select the Theme (defaults to Standard), set whether to Show Controls (defaults to `true`), and Show Menu (defaults to `false`):

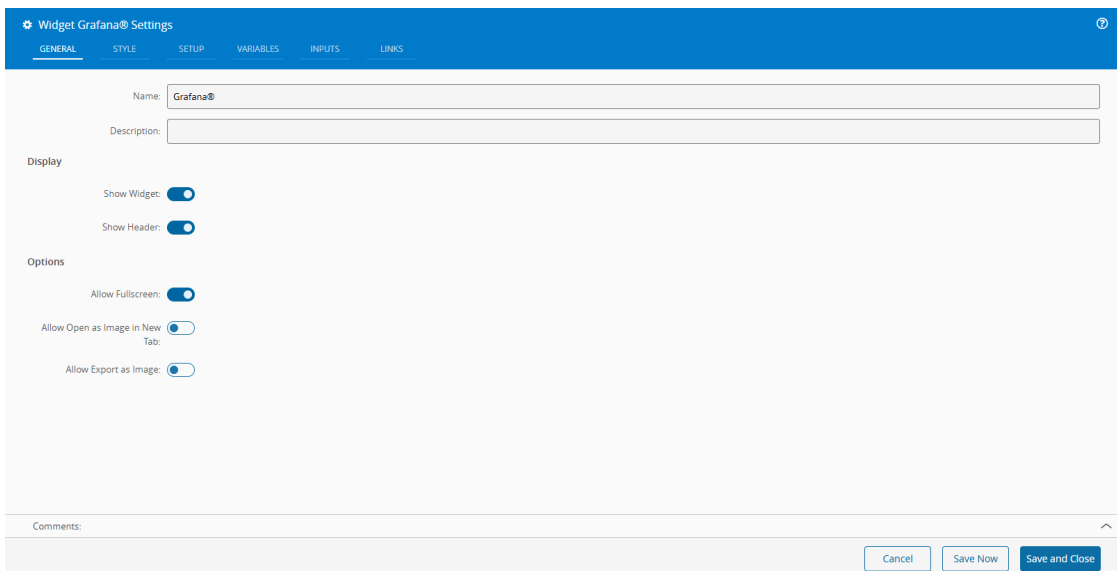
a) Grafana with a light theme and controls bar:



b) Grafana with a dark theme and no controls bar:



7. In the **General** tab, provide a name for the widget (Grafana by default), and configure the other available options as needed:



The screenshot shows the 'Widget Grafana® Settings' dialog box. The 'GENERAL' tab is selected. The 'Name' field is set to 'Grafana®'. The 'Description' field is empty. The 'Display' section has 'Show Widget' and 'Show Header' both checked. The 'Options' section has 'Allow Fullscreen' checked, 'Allow Open as Image in New Tab' checked, and 'Allow Export as Image' checked. The 'Comments' field is empty. At the bottom right, there are 'Cancel', 'Save Now', and 'Save and Close' buttons.

8. In the **Variables** tab you can + or override the variables created in Grafana along with their details:

Widget Grafana® Settings

GENERAL STYLE SETUP **VARIABLES** INPUTS LINKS

Variables

NAME	VALUE
TimeFrame	9
TimeUnit	Day
Plan	Cookie%20Plan

Variable Details

Name: Plan

Reference Type: None

Value: Cookie%20Plan

Query String: &var=Plan=Cookie%20Plan

Comments:

Cancel Save Now Save and Close

Note

The Variables you define in the settings are the default ones but you can introduce other settings, like Area or Resource, from the UI Page into Grafana. For this tutorial, we are using a TimeUnit variable.

9. In the **Inputs** tab you can + as needed, and the **Name** and **Type**, that relate to the input, are mandatory:

Widget Grafana® Settings

GENERAL STYLE SETUP VARIABLES **INPUTS** LINKS

Inputs

New Input

Input Details

Name:

Friendly Name:

Type:

Collection Type: None

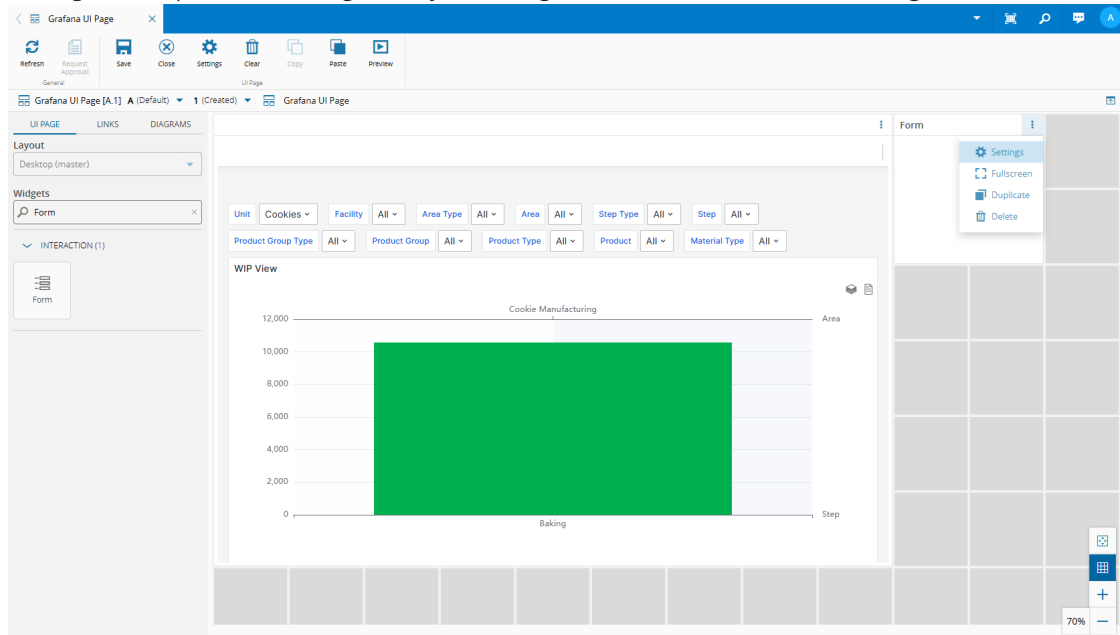
Default Value:

Comments:

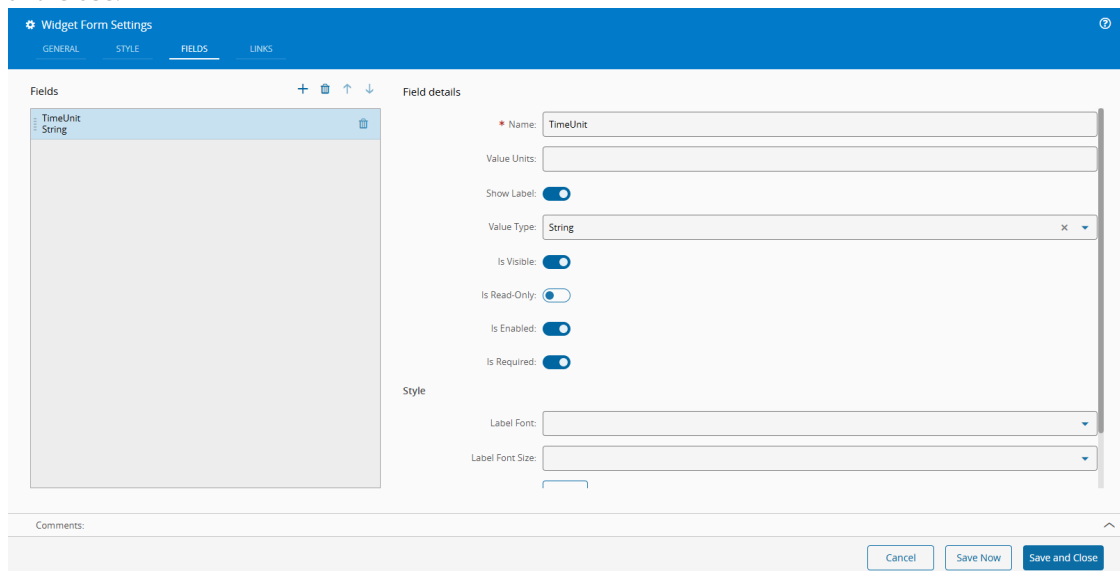
Cancel Save Now Save and Close

10. In the **Links** tab you can add links and make your UI Page more dynamic.
Example with **Form** widget:

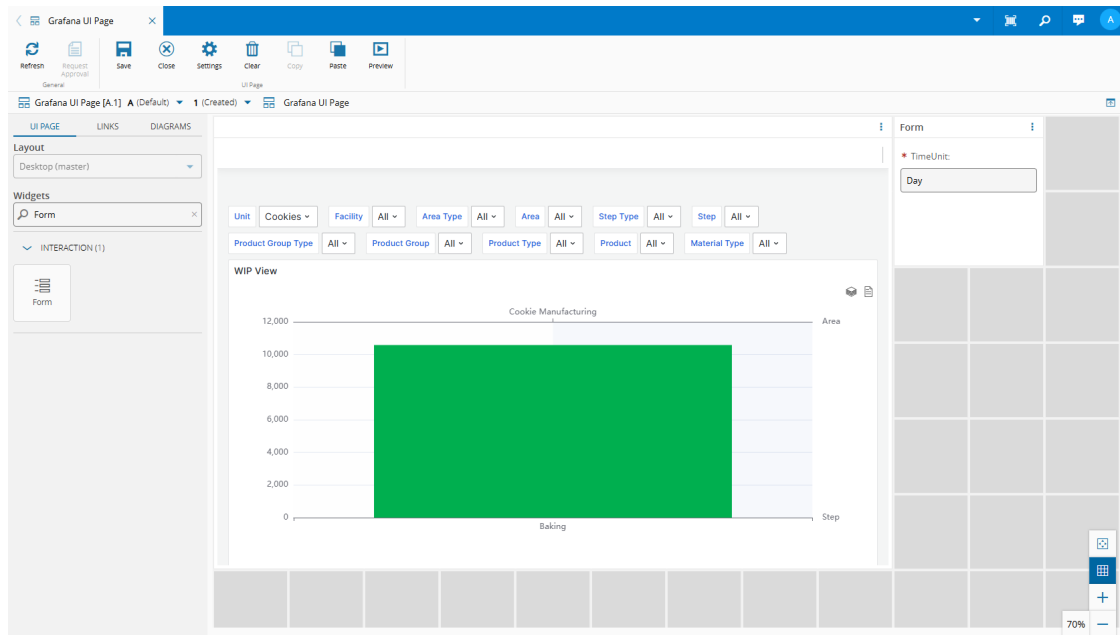
a) Drag and drop the **Form** widget into your UI Page dashboard and select its **Settings**:



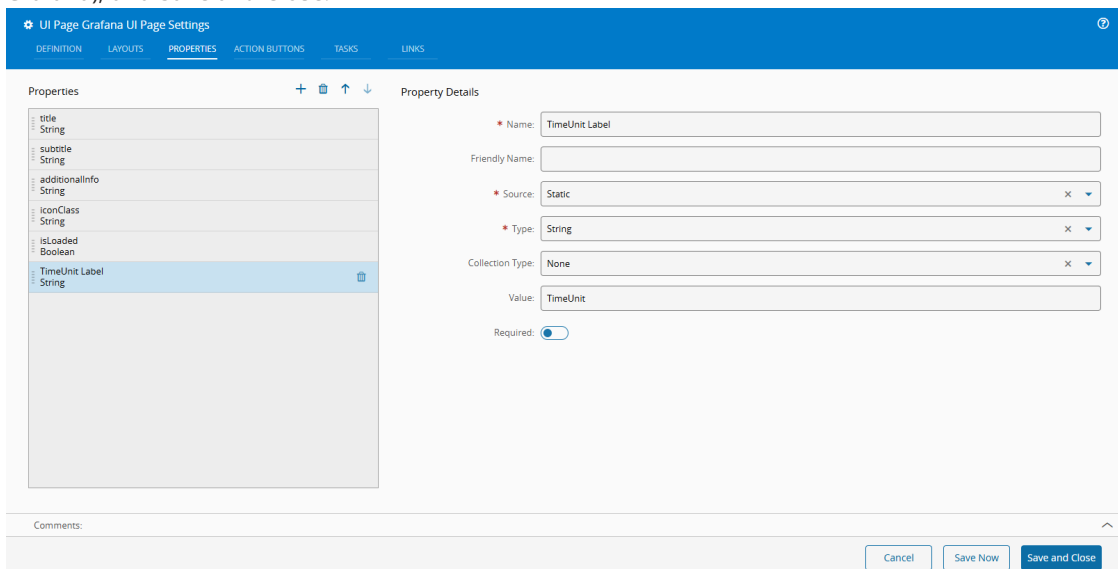
b) Go to the **Fields** tab, select **+** to change the TimeUnit variable, which is of the Type String, and **Save and Close**:



c) In your UI Page dashboard, define a value for the new TimeUnit:

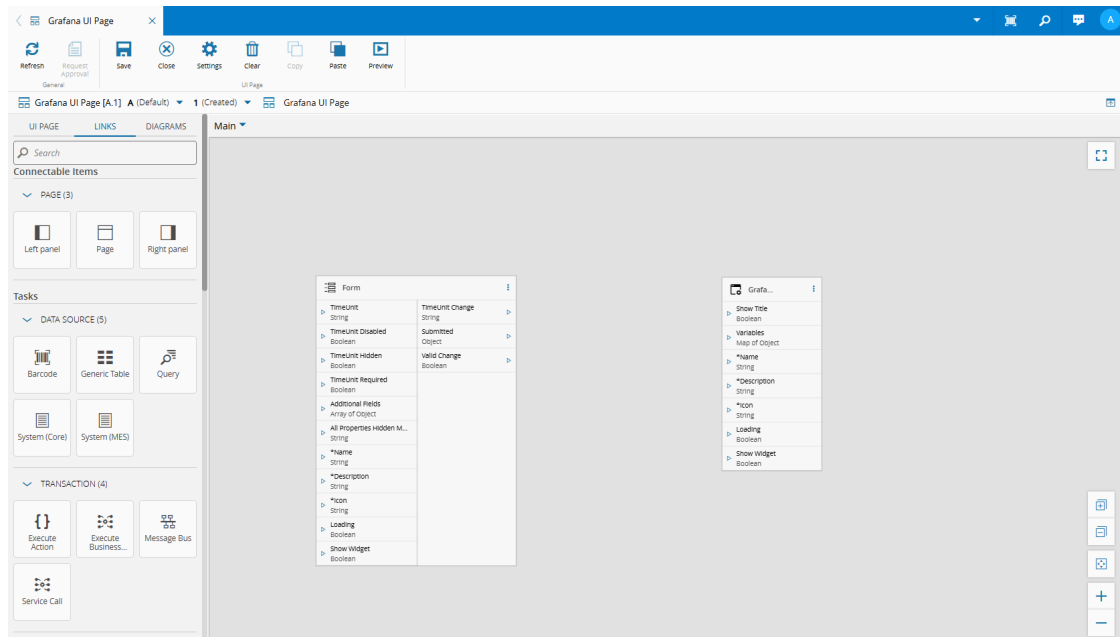


d) On the top ribbon of your UI Page, select **Settings**, then in the **Properties** tab + a new property that will be your TimeUnit label. Give it the appropriate Name, Source, Type, Value (name of the variable in Grafana), and **Save and Close**:

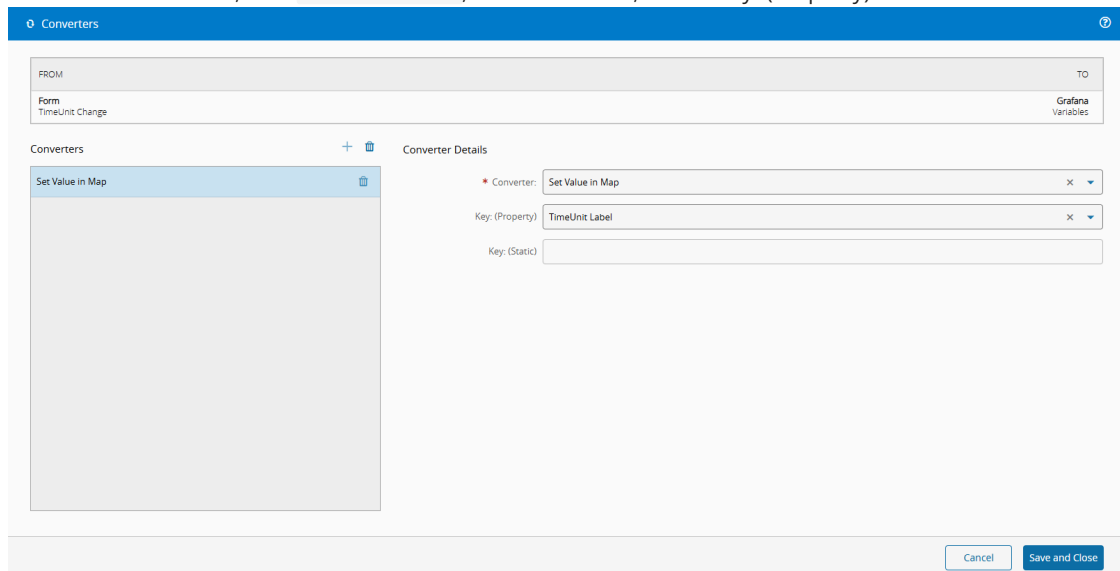


The screenshot shows the 'UI Page Grafana UI Page Settings' dialog box with the 'PROPERTIES' tab selected. The 'Properties' list on the left includes: title (String), subtitle (String), additionalInfo (String), iconClass (String), isLoading (Boolean), and TimeUnit Label (String). The 'TimeUnit Label' property is selected. The 'Property Details' section on the right shows the following configuration: Name: TimeUnit Label, Friendly Name: (empty), Source: Static, Type: String, Collection Type: None, Value: TimeUnit, and Required: (checked). At the bottom, there are 'Cancel', 'Save Now', and 'Save and Close' buttons.

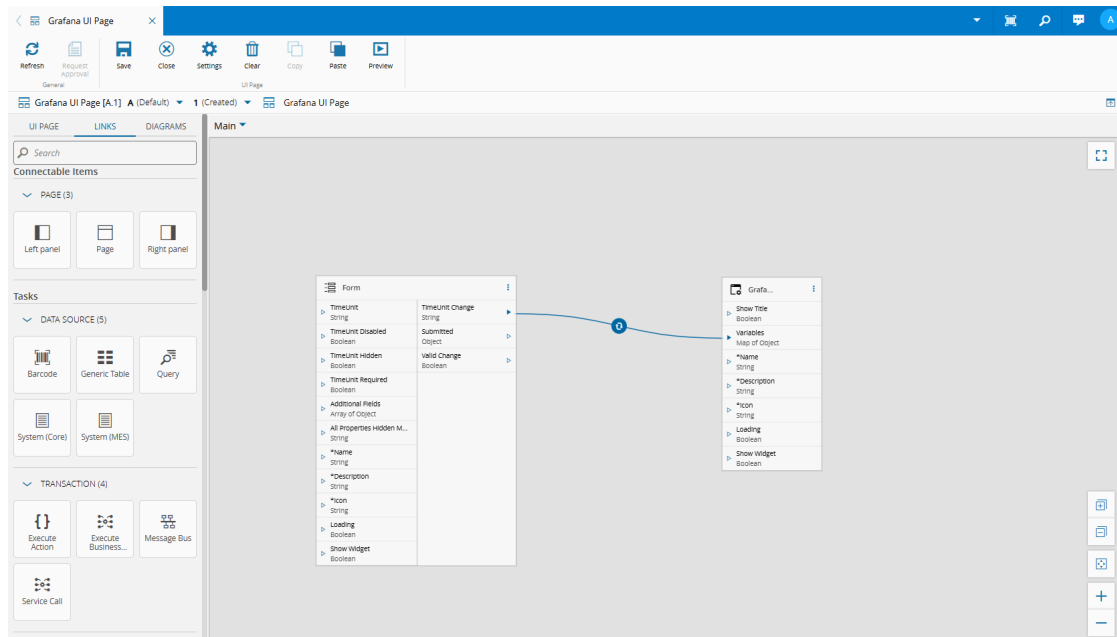
e) In the UI Page, select **Links** and drag and drop the **Forms** and **Grafana** widgets onto your page. It will look like this:



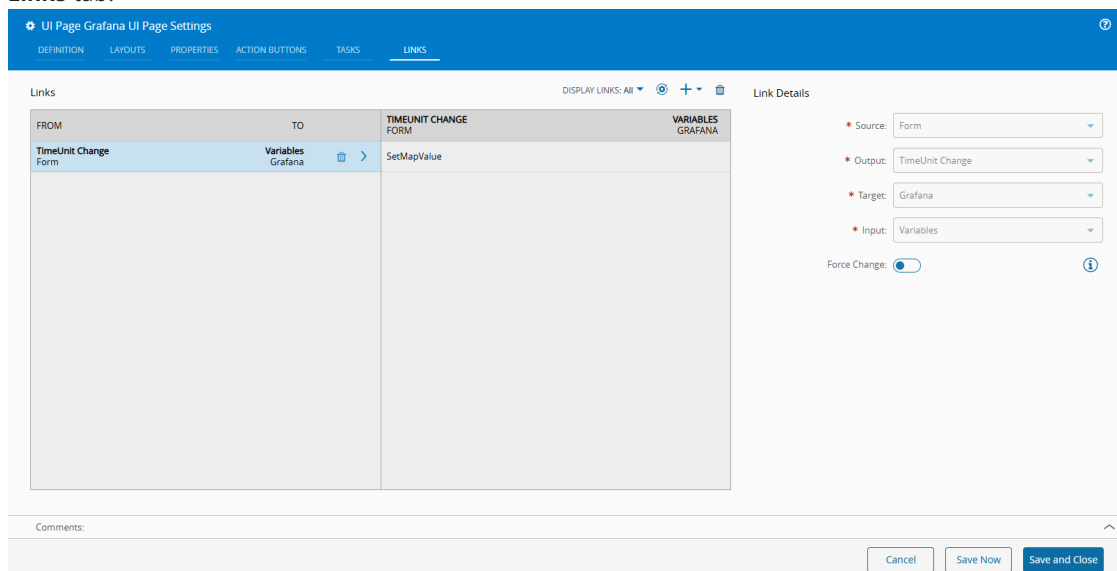
f) Send the result of the TimeUnit Change String to Variables, which is a map, select **Set Value in Map** in the Converter field, and **TimeUnit Label**, created earlier, in the Key: (Property) field:



g) Select **Save and Close**:



h) To check your link is correct, go back to the UI Page, select **Settings** on the top ribbon and access the **Links** tab:



11. **Save and Close** the settings, and the widget will be updated.

For more information, see the System Widgets [Grafana](#) page in the UI Pages menu.


Making it Available

You can create a shortcut for your UI Page by editing the **Scope** to **Entity Type** or **Menu Entry**, and setting the **Pin To Quick Access** option to `true`:

Create UI Page

CHANGE SET — GENERAL DATA

Description: MenuEntry-01

Data Group: 

Label:

* UI Type: Page

Properties

* Folder: Dashboards

* Scope: Menu Entry

* Menu Entry: Manufacturing

Layout

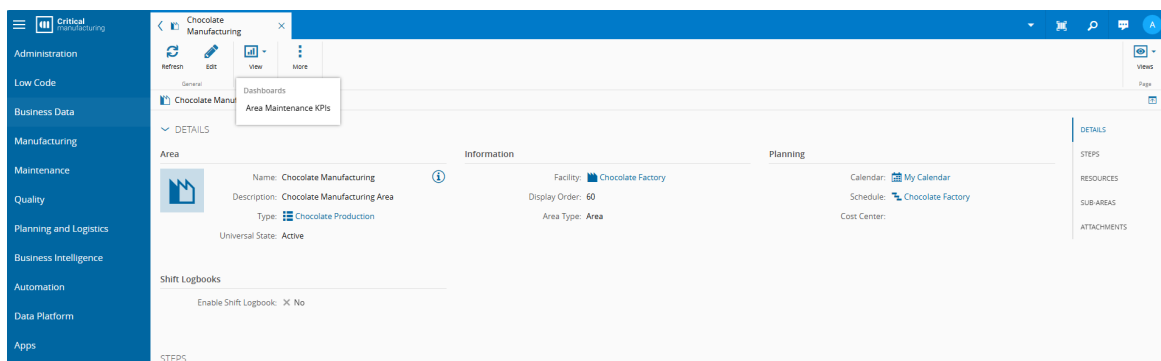
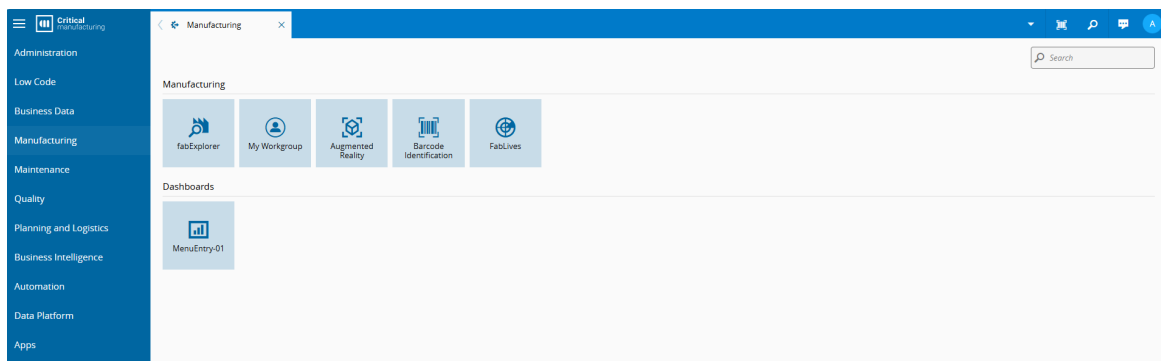
Layout: Desktop (1920 x 1080)

Quick Access

Pin To Quick Access: ☒

Comments:

This means that quick access will be visible in the **Dashboards** section of the menu entry for the **Menu Entry** scope, or under **View** for the **Entity Type** scope:



Note

You can only use the UI Page if it is Effective. Therefore, for the quick access to be visible in the Dashboards you must approve the Change Set and the Universal State must be Effective.

MenuEntry-01

New

Refresh

Edit

Lock

More

Views

Page

MenuEntry-01 [A.1] A (Default) 1 (Effective)

DETAILS

UI Page

Name: MenuEntry-01

Description: MenuEntry-01

Universal State: Effective

Label:

UI Type: Page

Information

Folder: Dashboards

Scope: Menu Entry

Menu Entry: Manufacturing

Quick Access

Pin To Quick Access: Yes

Pin To: All Users

DETAILS

PRESETS

ATTACHMENTS

Page 13 of 13



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