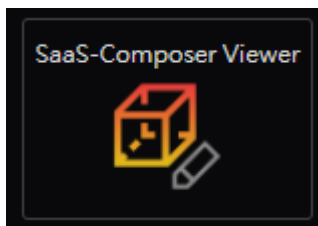


## Advantech SE Technical Share Document

Date	2021 / 04 / 20	Related Product	WebAccess, WISE-PaaS Dashboard, SaaS Composer	
Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP <input type="checkbox"/> Driver Tech Note			
Abstract	如何在 WISE-PaaS Dashboard 中快速切换 SaaS Composer Viewer Panel			
Keyword	WebAccess, WISE-PaaS Dashboard, SaaS Composer, Panel			
Related OS				
Revision History				
Date	Version	Author	Reviewer	Description
2021/04/19	V1.0	Eden.Sun	Nick.Liu	First edit.

### ■ Problem Description & Architecture:

在 WebAccess 版本中，使用 WISE-PaaS Dashboard 的 SaaS Composer Viewer Panel 來呈現 SaaS Composer 畫面，其中兩個比較特別的項目。



A. 利用 Dashboard 的資料庫數據，對應到 SaaS Composer 所呈現的數據。

OtherDatabase

Panel Title

Tag-1 Value	9
Tag-2 Value	8
Tag-3 Value	5

Visualization SaaS-Composer Viewer

Displays

new

+ Add

File Info

Name new

File Setting

SaaS Composer File displays/Eden/ODatabase.json

Data Source Dashboard

Lock file

Default

Refresh frame Delete

Data Binding

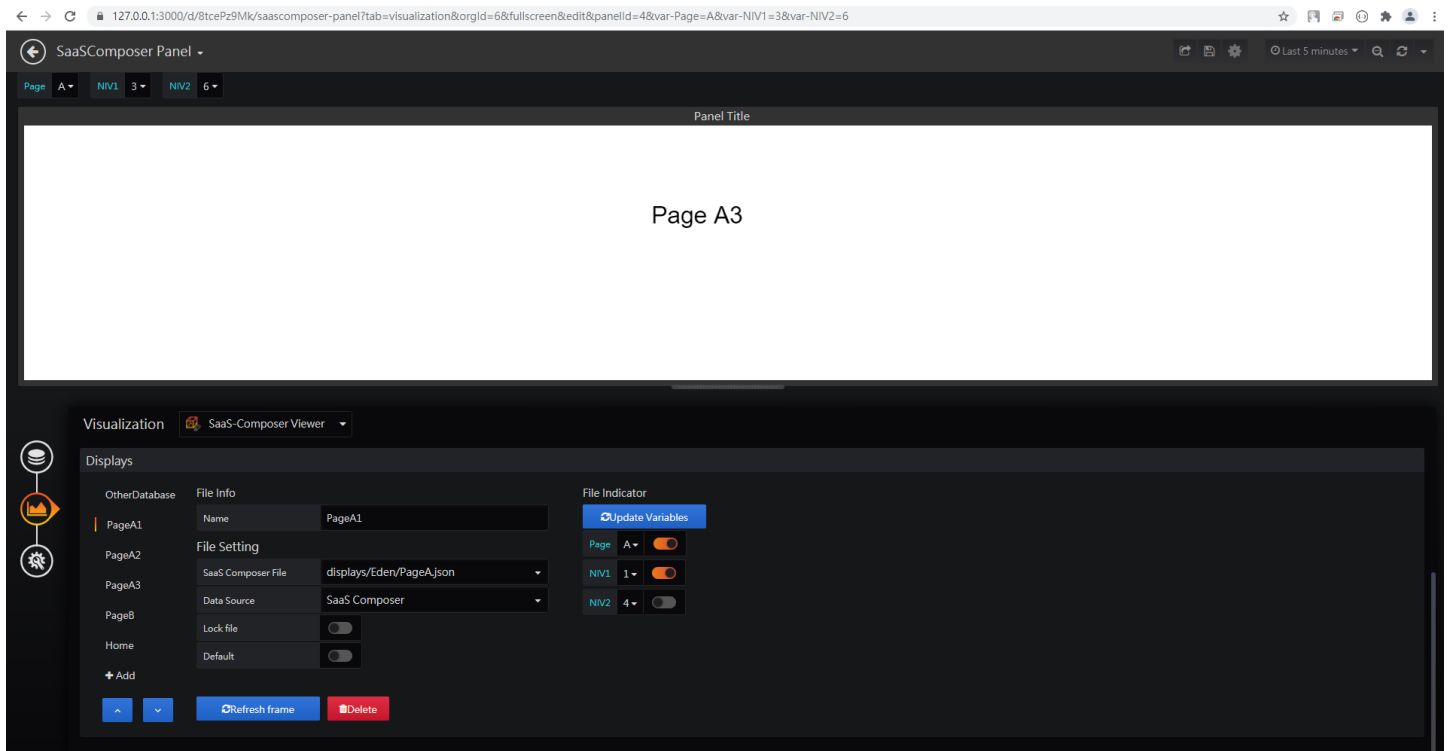
Update Objects

Object ID	Object Type	Binding Source
1619162772094_0	text	A-series
1619162788081_0	text	B-series
1619162795566_0	text	C-series

File Indicator

Update Variables

## B. 透過變數(Variables)來快速切換 Panel 呈現不同 SaaS Composer 頁面。

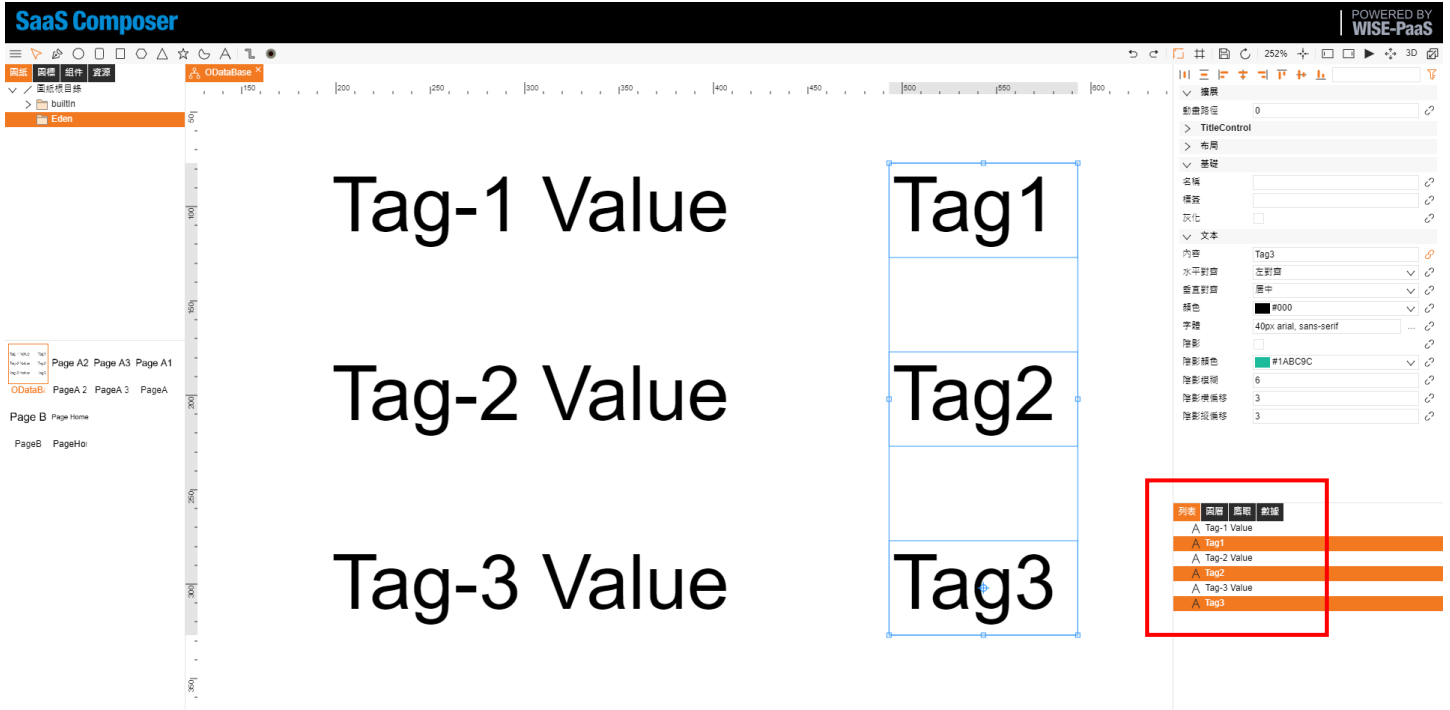


## ■ Brief Solution - Step by Step:

### A. 利用 Dashboard 的資料庫數據，對應到 SaaS Composer 所呈現的數據。

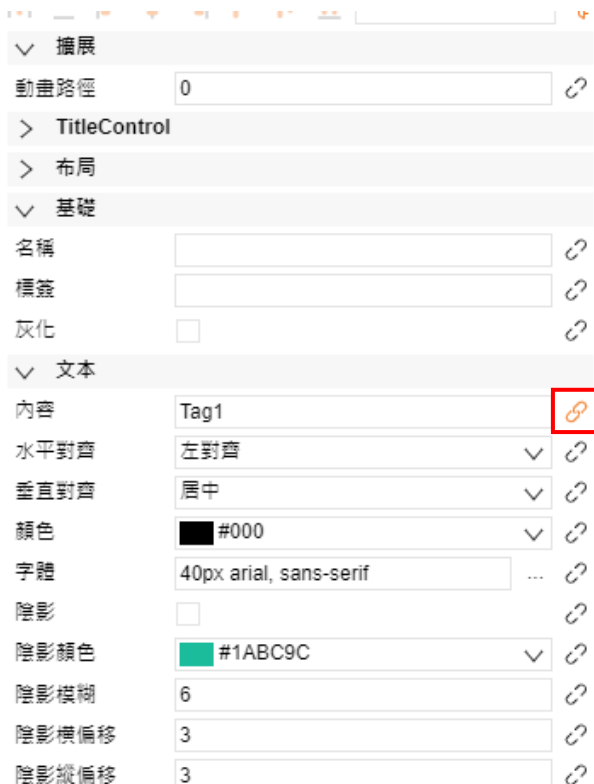
A-1. 到 SaaS Composer 介面，建立 SaaS Composer 頁面，並利用文本的方式設置變數。

※範例將設置三組變數



A-2. 針對變數的設置如下，並保存 SaaS Composer 畫面。

※將變數 (文本->內容) 後面的連結，點擊並確認即可



A-3. 到 WISE-PaaS Dashboard 介面，建立 WISE-PaaS Dashboard 的資料庫。

※範例將建立測試用資料庫(TestData DB)

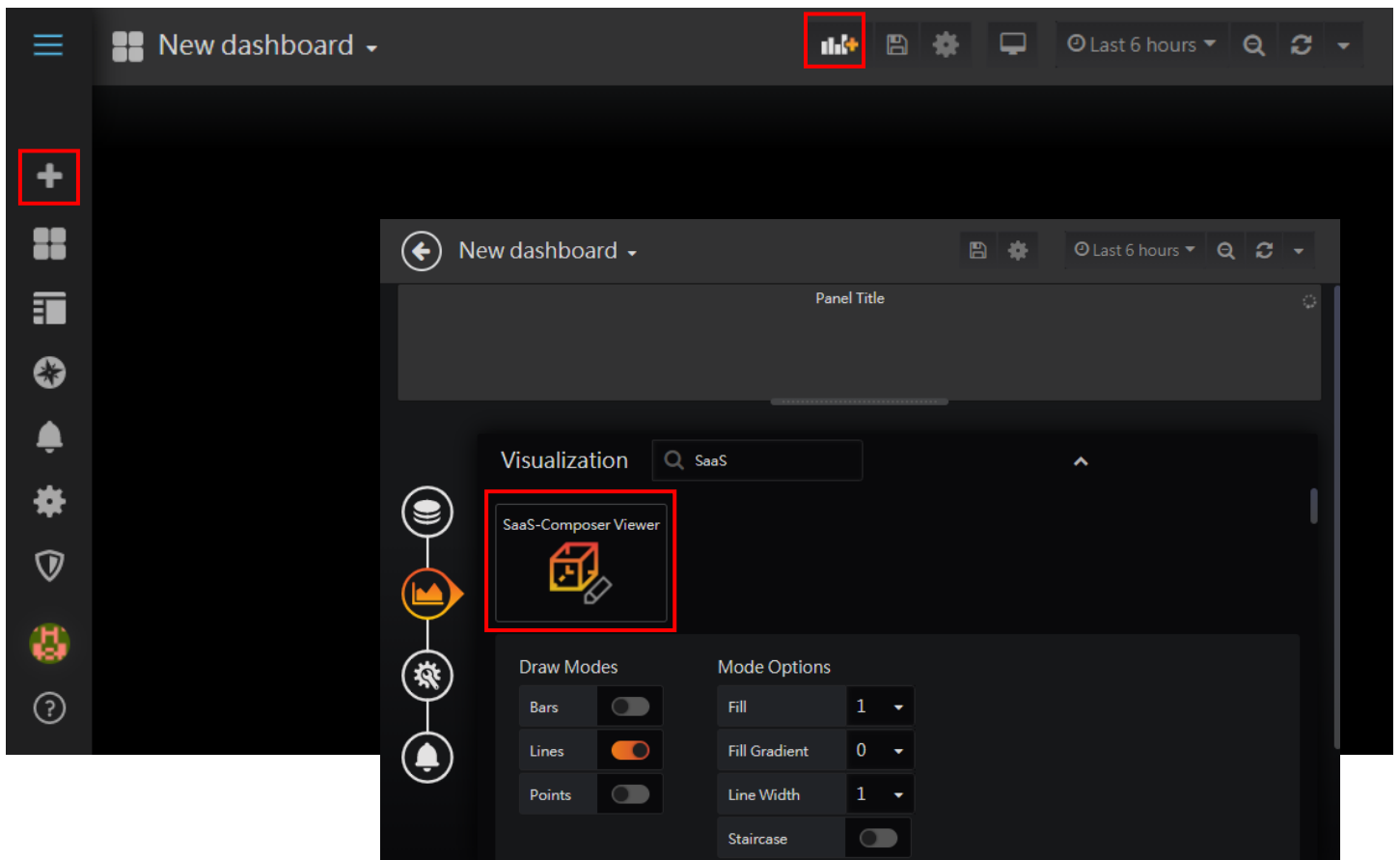
The image displays three sequential screenshots of the WISE-PaaS Dashboard interface, illustrating the process of creating a new data source.

**Top Screenshot: Configuration Page**  
The main heading is "Configuration" with "Organization: BI" below it. A "Data Sources" dropdown menu is visible. A search bar labeled "Filter by name or type" is present. A green button labeled "Add data source" is highlighted with a red rectangle. On the left sidebar, the "Configuration" menu item is highlighted with a red rectangle, and its sub-menu "Data Sources" is also highlighted with a red rectangle.

**Middle Screenshot: Add data source dialog**  
The dialog title is "Add data source" with the instruction "Choose a data source type". A search bar contains the text "TestData". A blue "Cancel" button is in the top right. A card for "TestData DB" with the description "Generates test data in different forms" is highlighted with a red rectangle.

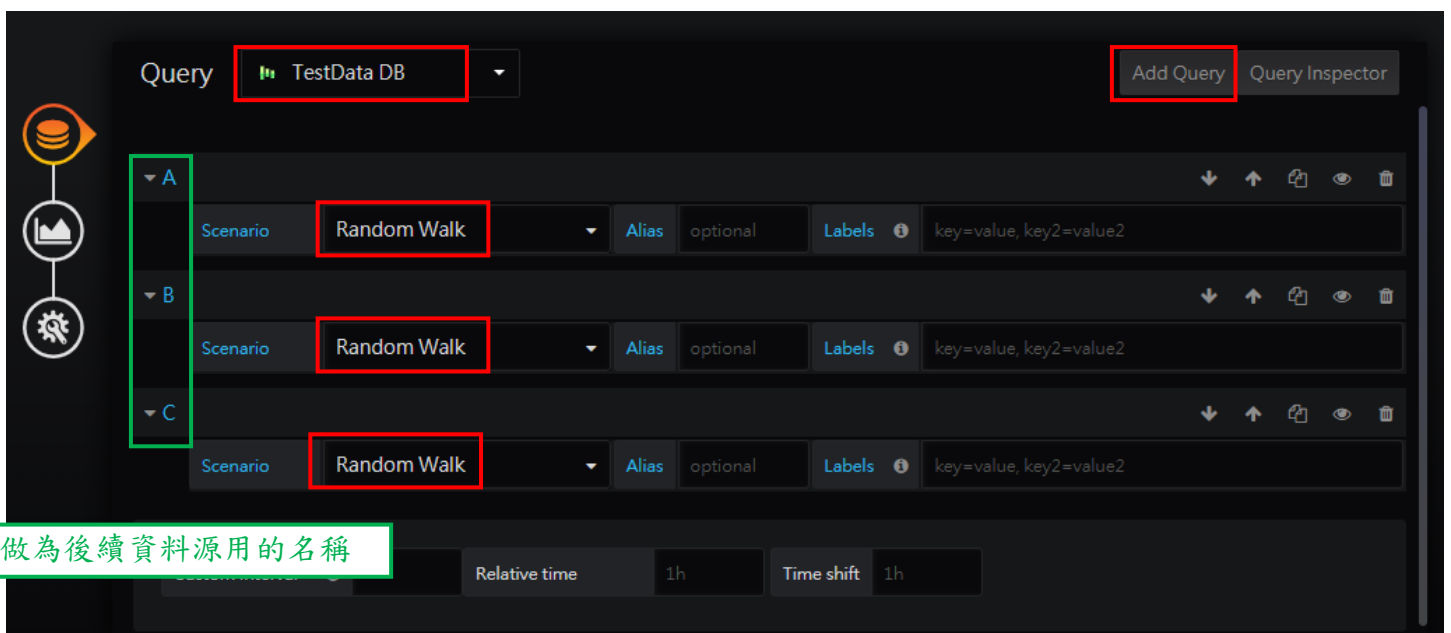
**Bottom Screenshot: Data Sources / TestData DB settings**  
The page title is "Data Sources / TestData DB" with "Type: TestData DB" below it. A "Settings" dropdown menu is shown. Below it, the "Name" field is set to "TestData DB" and the "Default" toggle is turned on. At the bottom, a green "Save & Test" button is highlighted with a red rectangle, along with "Delete" and "Back" buttons.

A-4. 建立 WISE-PaaS Dashboard 頁面，新建一個 Dashboard 並增加 SaaS Composer Viewer Panel。



A-5. 添加需要呈現的數據資料。

※範例將建立三組隨機數據(TestData DB -> Random Walk)



A-6. 設置 SaaS Composer Viewer Panel 並鎖定，包含 Domain URL 與 Org. Name。

※Domain URL 請輸入 Server 所在位置需包含 Port Number，Org. Name 為此 WebAccess 專案名稱

The image shows three screenshots of the SaaS Composer interface. The first screenshot shows the 'SaaS Composer Domain Setting' panel with 'Domain URL' set to 'https://127.0.0.1:4000' and a 'Connect' button. The second screenshot shows the 'Org. Setting' panel with 'Org. Name' set to 'TestCase' and 'Org. Id' set to '14'. The third screenshot shows the 'Visualization' panel with 'SaaS-Composer Viewer' selected, displaying the 'SaaS Composer Domain Setting' and 'Org. Setting' panels. The 'Connect Status' is 'Success' and the 'Lock Org.' toggle is turned on.

A-7. 成功連線後，於下方顯示選擇 SaaS Composer 頁面，資料來源選擇 Dashboard 並配置變數所對應的數據資料。

※Data Source 選擇 Dashboard，Object ID 為 SaaS Composer 頁面辨識測點用的名稱

※Binding Source 為 Dashboard 資料源用的名稱，使用時請在名稱後加入-series

The image shows the 'Visualization' panel with 'SaaS-Composer Viewer' selected. The 'Displays' section shows 'File Info' with 'Name' set to 'ODataBase'. The 'File Setting' section shows 'SaaS Composer File' set to 'displays/Eden/ODataBase.json' and 'Data Source' set to 'Dashboard'. The 'Data Binding' section shows a table with 'Object ID', 'Object Type', and 'Binding Source' columns. The 'Binding Source' column is highlighted with a green box, and the text '資料源-series' is shown in a red box.

Object ID	Object Type	Binding Source
1619162772094_0	text	A-series
1619162788081_0	text	B-series
1619162795566_0	text	C-series

A-8. 設置完成，SaaS Composer 就可顯示在 WISE-PaaS Dashboard 上，其中變數會以資料源數值呈現。

The screenshot shows the WISE-PaaS Dashboard interface. At the top, there's a navigation bar with 'OtherDatabase' and a 'Panel Title'. The main visualization area displays three variables: 'Tag-1 Value' with a value of 9, 'Tag-2 Value' with a value of 8, and 'Tag-3 Value' with a value of 5. Below the visualization, the 'SaaS-Composer Viewer' settings are visible. The 'Displays' section shows a 'new' display with 'File Info' (Name: new), 'File Setting' (SaaS Composer File: displays/Eden/ODatabase.json, Data Source: Dashboard, Lock file: off, Default: off), 'Data Binding' (Object ID, Object Type, Binding Source table), and 'File Indicator' (Update Variables button). The 'Data Binding' table lists three objects: 1619162772094\_0 (text, A-series), 1619162788081\_0 (text, B-series), and 1619162795566\_0 (text, C-series). The 'File Indicator' section has an 'Update Variables' button. At the bottom, there are 'Refresh frame' and 'Delete' buttons.

※使用其他數據源，注意事項：

1. 數據資料庫類型需選擇 **Time Series Data (時間序列資料)**
2. 資料庫格式內需包含 **timestamp (時間戳記)**、**metric target name(指標名稱)**與 **numeric value (數值)**

## B. 透過變數(Variables)來快速切換 Panel 呈現不同 SaaS Composer 頁面。

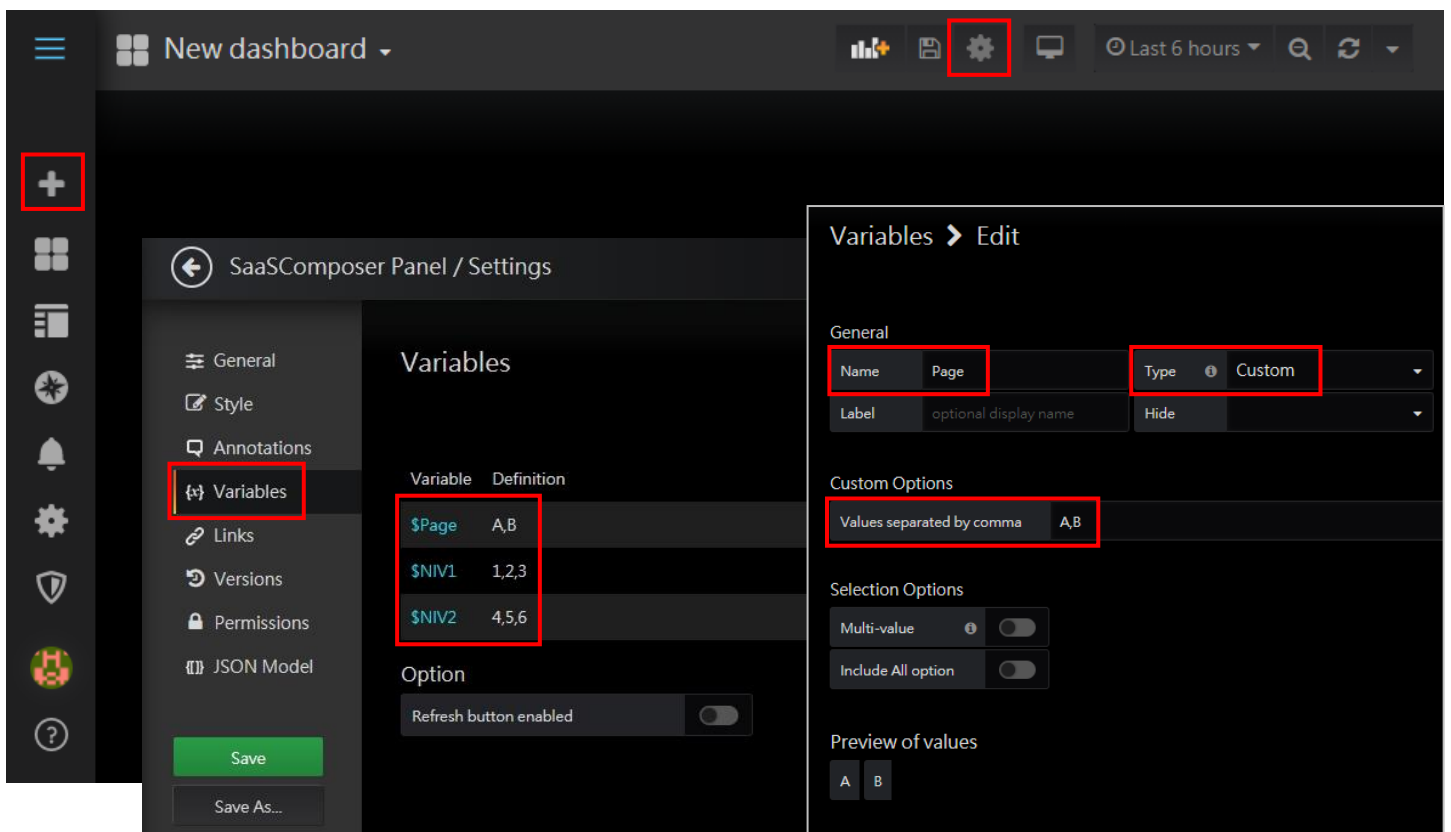
B-1. 到 SaaS Composer 介面，建立多個 SaaS-Composer 頁面。

※範例將建立六個 SaaS Composer 頁面



B-2. 到 WISE-PaaS Dashboard 介面，新建一個 Dashboard 並增加 WISE-PaaS Dashboard 的變數。

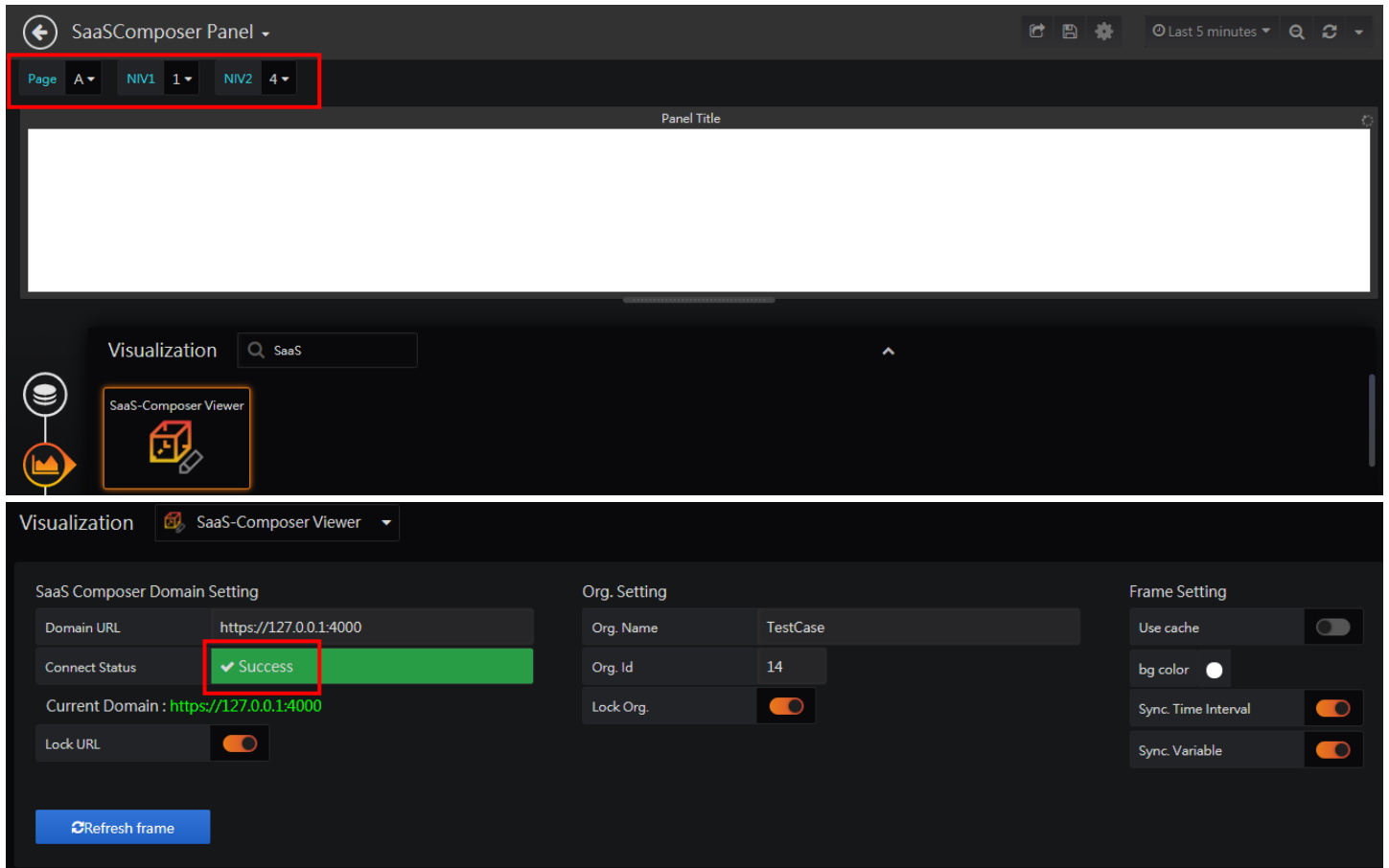
※範例建立三個變數欄位，變數都使用 Custom 的方式





## B-3. 增加 SaaS Composer Viewer Panel，連線配置同 A-6 步驟

※此時可以看到 Dashboard 上方有剛剛新增的變數欄位

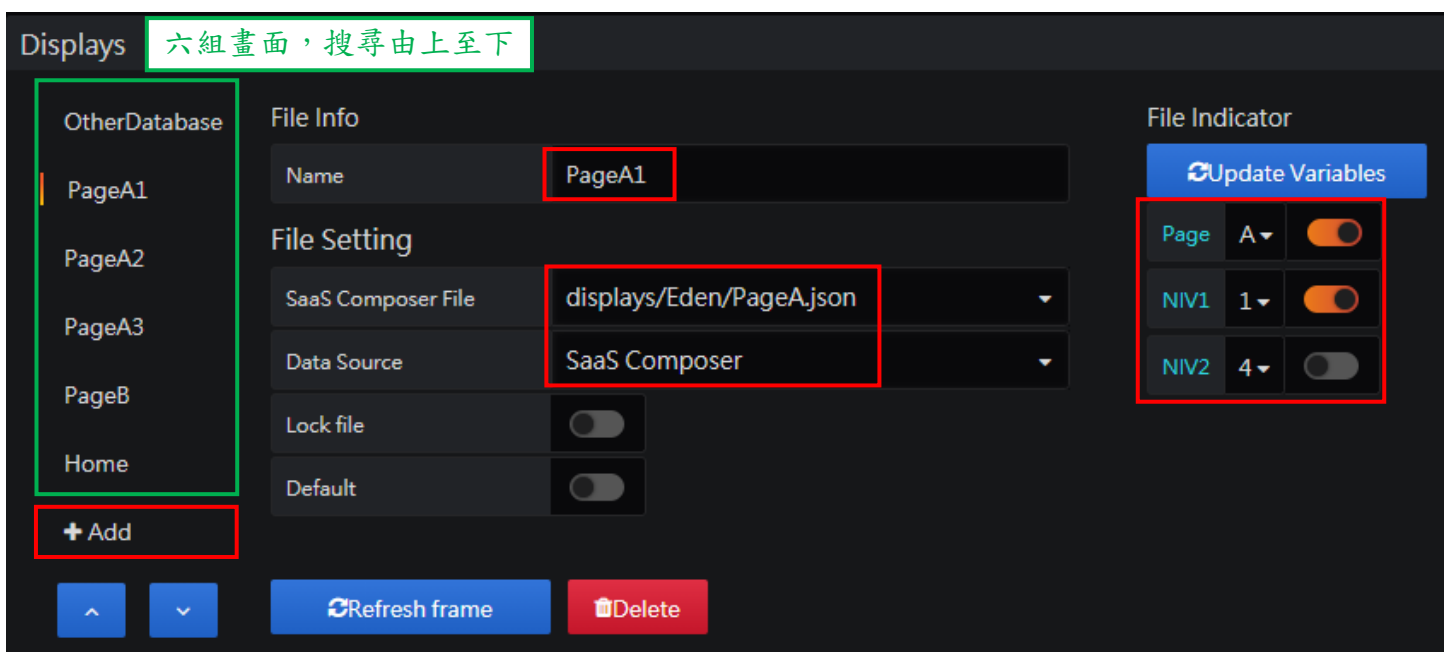


## B-4. 成功連線後，於下方新增多組 SaaS Composer 頁面，並配置對應的 WISE-PaaS Dashboard 變數。

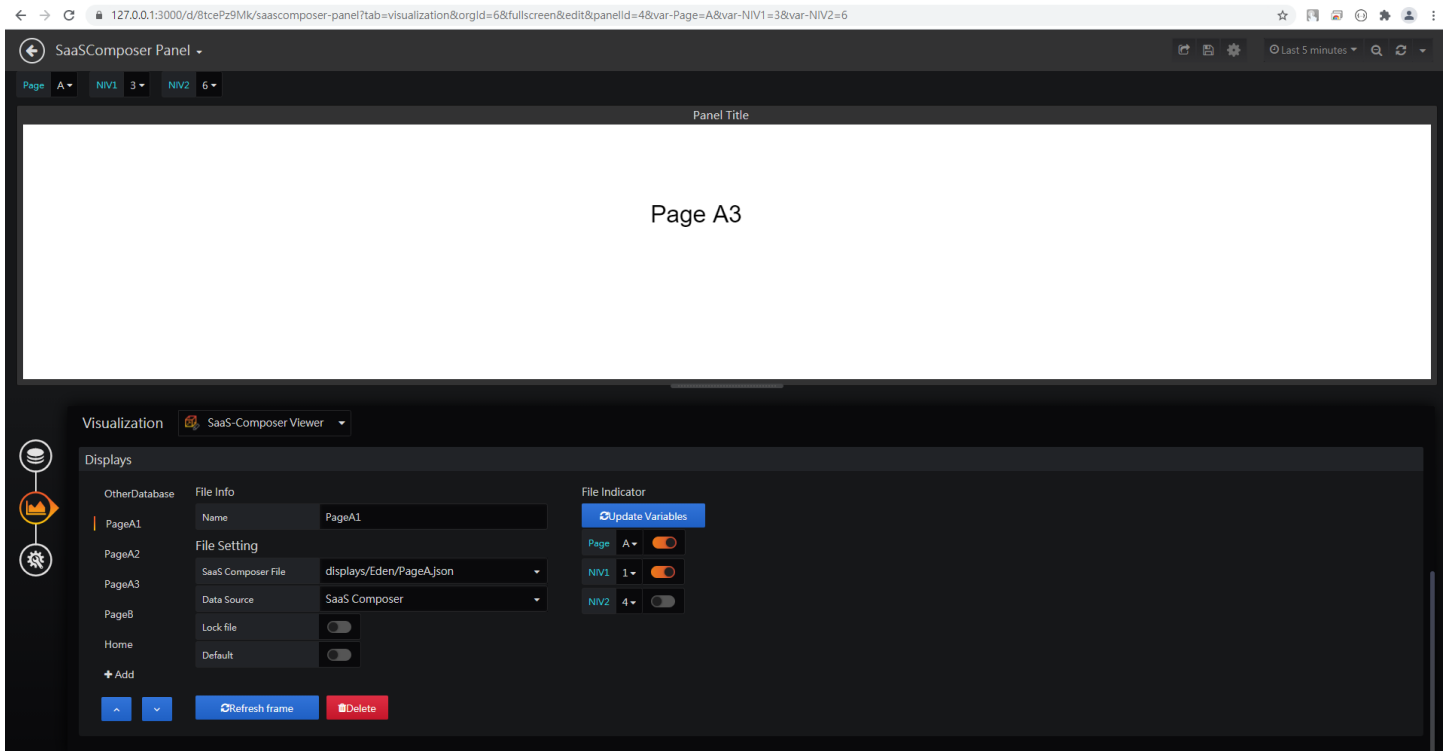
※範例增加六組顯示畫面並選擇對應的 SaaS Composer 頁面與 WISE-PaaS Dashboard 變數

※File Indicator 選擇對應的變數並開啟後方的啟用

※畫面切換時，會依照顯示畫面的排序，先符合條件的先顯示

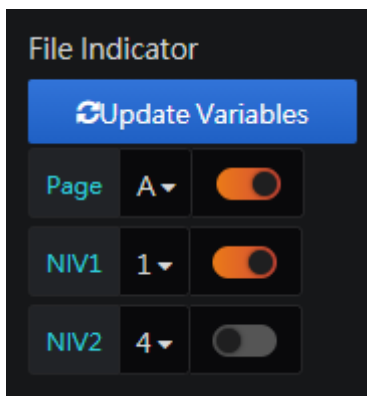


B-5. 設置完成，SaaS Composer 就可透過上方的變數，快速切換至不同的頁面。

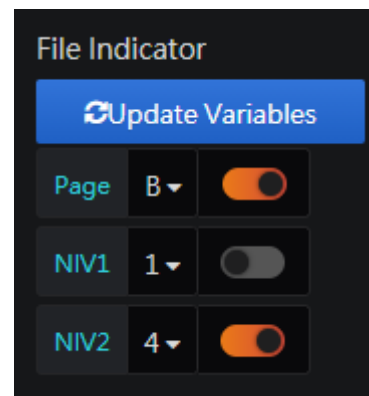


※使用切換邏輯，注意事項：

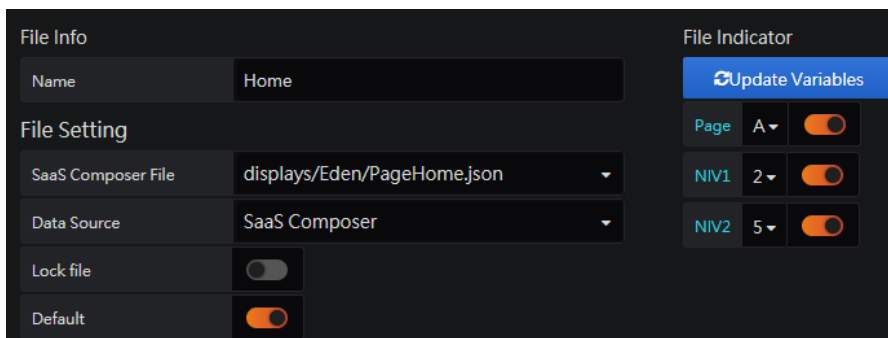
1. 可將某一畫面設為 Default，當所有搜尋條件都無法滿足時，就會顯示此頁面
2. 設定變數時，若此變數不影響搜尋配對結果，則不要開啟後方的啟用按鈕



將顯示此畫面  
(Page, NIV1, NIV2)  
A, 1, 4  
A, 1, 5  
A, 1, 6



將顯示此畫面  
(Page, NIV1, NIV2)  
B, 1, 4  
B, 2, 4  
B, 3, 4



將顯示此畫面  
(Page, NIV1, NIV2)  
A, 2, 5  
X, X, X 條件都不滿足

- Pin Definition (in case of serial connection):
- Reference: