

# SO Monitoring User Guide

## Introduction

The SO-Monitoring component allows a user to have a detailed monitoring view of the Camunda BPMN workflows that have run, or are running, in SO. It provides a frontend UI that allows users to easily go through a workflow's different calls and drill up/down through the call activities within the workflow. It also provides a search page for filtering specific results. It allows you to filter by start/end time/date, instance id, request id, service name or by the status of a workflow. The component is extremely useful for debugging and testing workflows of any kind, as it delivers an understandable and simple UI which is much easier to follow than large, cumbersome debug log files. Additionally the UI provides a statistics page, based on your current search parameters, that provides the percentages of complete, failed, in progress, pending and unlocked workflows.

## Using SO-Monitoring

In order to make use of SO-Monitoring currently, you will need to onboard the application in the ONAP portal. This can be done using the host name "so-monitoring" or the direct IP linked to the SO-Monitoring service, and the port number, which by default is "9091". First you need to make sure you can access the ONAP portal, this is done by adding:

<onaplp> [portal.api.simpledemo.onap.org](http://portal.api.simpledemo.onap.org)

Replacing <onaplp> with the IP To a blank link on your hosts file, usually found in "C:\Windows\System32\drivers\etc". Ensure you open the host file as an administrator, or you will be unable to edit it.

## Steps to add SO-Monitoring to the Portal:

\*\* In Pre-Casablanca releases you will need to expose the so-monitoring service using a Loadbalancer in order to access it, this is simple until there is a NodePort assigned to SO-Monitoring\*\*

\*\* Use this command to expose the service: "kubectl expose services so-monitoring --type=LoadBalancer --port 9091 --target-port=9091 --name=so-monitoring-external -n onap" \*\*

1. Log into your ONAP Portal as the super user

Login: demo

Password: demo123456!

1. Click "Application Onboarding", then "Add App" in the top right.
2. Fill out the required Application Details (Name, URL, REST API URL, Username, Password) as shown here:

- Application Name: SO-Monitoring
- URL: <http://so-monitoring:30224>
- Rest API URL: <http://so-monitoring:30224>
- Username: user
- Password: password
- Namespace: SO-Monitoring

## Application Details

☐ Hyperlink only application

Application Name  
 \* SO-Monitoring

URL  
 \* http://so-monitoring:9091

Rest API URL  
 \* http://so-monitoring:9091

Username  
 \* user

Password  
 \* \*\*\*\*\*

Name Space  
 SO-Monitoring

Upload Image  
 Choose File No file chosen

Preview Remove

Communication Inbox

Communication Key

Communication Secret

☐ Allow guest access

☒ Active

☐ Centralized

Save Cancel

3. Please note, the Application Name, Username and Password can be given any values currently.
4. Now simply go to the "Application Catalog" tab on the left of the page, then tick your Monitoring app to enable it. (Whatever you set Application Name as should show up here.)
5. Click the "Home" tab and you should be able to access the Monitoring app now.

## Searching/Viewing BPMN Workflows

### SO-Monitoring Search UI

SO Monitoring

Home

Select Filter  
 EQUAL Service Instance Id

Select Filter  
 EQUAL Request Id

Select Filter  
 EQUAL Service Name

Status  
 ALL

Choose a start date  
 9/10/2018

Select Hour  
 15

Select Minute  
 30

Choose an end date  
 9/28/2018

Select Hour  
 16

Select Minute  
 30

Q

Service Instances Service Statistics

Request Id	Instance Id	Instance Name	Network Id	Request Status	Service Type	Start Time	End Time
02e158d2-7ef6-4d5c-bb9c-ee4c334618ad	5578ab31-1cb3-4922-9852-65e2c60bd222			FAILED		2018-09-19 09:26:38.0	2018-09-19 09:32:39.0
03edd58f-6ae8-4d44-87ba-00b99055a789	897e9e4d-6269-4995-94ff-56a0cb652364			FAILED		2018-09-14 16:57:20.0	2018-09-14 17:03:39.0
082c724f-acdf-4b3e-bf20-ab053b9ebfa0	b678c7e3-e979-41c1-856b-d1b518e37a73	AAAAslicingdemo11114		COMPLETE		2018-09-11 13:22:12.0	2018-09-11 13:28:37.0

In order to find the workflow that you are attempting to monitor you will need at least one of the following values of the service instance: Service Instance ID, Request ID, Service Name or the time/date range in which the workflow started/ended. You can use the filter drop-down boxes to the left of the parameter boxes, i.e. "EQUAL", "NOT EQUAL" and "LIKE" to search for items equal to, not equal to or similar to your parameter. Also, you can filter by the status of a workflow, with the status drop-down box, to further filter your results. Simply enter any of these pieces of information into the search page, ensure the start and end date range includes when the workflow would have run and press the search button. Once your results list has been returned you can click on the results to see the workflow in the graphical BPMN viewer.



Service Instances	Service Statistics
Total: 25	
Complete: 19	76%
Failed: 6	24%
In Progress: 0	0%
Pending: 0	0%
Unlocked: 0	0%

## Troubleshooting SO-Monitoring

### Log files

The log files for SO-Monitoring can be found within the SO-Monitoring pod. They will be located in the "/app/logs/so-monitoring" directory. You will find a debug, error, metric and audit log file here. They each contain differing information, except the debug log file which will contain all of the logging information. Alternatively you can get the logs from the SO-Monitoring pod itself when using Kubernetes. Using the command:

```
"kubectl -n <namespace> logs <soMonitoringPodName>"
```

Replacing <namespace> with your environments namespace and <soMonitoringPodName> with the full name of your SO-Monitoring pod. This command will give you some detailed information from the execution of the pod.

### CORS error

Pre-Dublin SO Monitoring Deployments may experience CORS issues.

To check for this error open up the console of the browser you are using. In Mozilla Firefox do this by pressing CTRL + SHIFT + C and then selecting the console. In Google Chrome this is done by CTRL + SHIFT + I and then selecting the console. If an exception relating to CORS is displayed, then this issue must be addressed.

This can be dealt with in two ways. Either using an extension or by disabling CORS in the browser.

If using Firefox then the [CORS Everywhere](#) extension should be used. While if using Chrome the [Allow-Control-Allow-Origin](#) should be used.

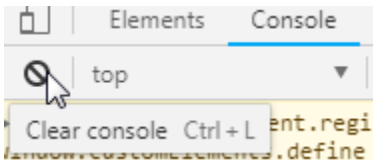
To disable the CORS in Chrome, follow this thread (<https://stackoverflow.com/questions/3102819/disable-same-origin-policy-in-chrome>).

**Internal Service Error occurred for operation : GET please check backend service log. status code: 500**

Error	DoCreateVfModuleSubprocess	Do Create Vf Module	callActivity
	Error handler	Error handler	sub-process
Internal Service Error occured for operation: GET please check backend service log. status code: 500			
Error	StartEvent_2	Catch All Errors	errorStartEvent
	SendErrorResponse	Send Error Response	scriptTask
Unable to get Variable instances for id: c1bc7bb5-eda2-11e8-94fe-02e9badb889c Error code:500			

This can be checked by following the below guidelines:-

1. Press F12 on the browser to load the developers mode
2. Click on Console(clear it if required)



3. Observe errors(red text) and if the description is similar to "Error : No serializer found for class [org.onap.so.bpmn.core.RollbackData](http://org.onap.so.bpmn.core.RollbackData) and no properties discovered to create BeanSerializer"

This issue 'could' be associated with any one of the objects being used in the BPMN flows,when it's declared as a java object but attempted to be serialized without marking/declaring it as serializable.

### SO Monitoring app creates a blank tab

If when selecting SO Monitoring from the portal a blank tab labeled "SO Monitoring" is returned, then the issue may relate the URL you are using in portal by default.

A fix for this issue is to change "https" to "http" and change the port from "30225" to "30215", within the browser url.

IE using this url "<http://portal.api.simpLEDemo.onap.org:30215/ONAPPORtal/applicationsHome>" instead of the default "<https://portal.api.simpLEDemo.onap.org:30225/ONAPPORtal/applicationsHome>".