

# HP Operations Analytics

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## HP Operations Analytics - BSM Integration Guide

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# Contents

Chapter 1: Introduction/Overview .....	4
Chapter 2: Prerequisites .....	5
Chapter 3: Cross Launch Integration .....	6
How to Set Up a Cross Launch Integration for OMi Events .....	6
How to Use a Cross Launch Integration from OMi .....	7
How to Set Up a Cross Launch Integration for Anomalies in SHA .....	7
How to Use the Cross-Launch Integration from SHA .....	7
Chapter 4: MyBSM Integration .....	8
Chapter 5: URL Syntax .....	11
Send Documentation Feedback .....	13

# Chapter 1: Introduction/Overview

This guide describes the details of the types of integrations between HP Business Service Management (BSM) and HP Operations Analytics (OpsA).

This integration can enable the following features:

- **Cross-Launch Integration:** Drill down from BSM to OpsA in the context of a specific CI, event, or SHA anomaly.
- **MyBSM Integration:** Display the OpsA user interface inside MyBSM.

Both of these integrations allow you to use OpsA's forensic root cause analysis in conjunction with BSM's monitoring tools.

## Chapter 2: Prerequisites

The integration between BSM and OpsA can only be performed on the following versions:

- BSM 9.23 or later
- OpsA 2.1 or later

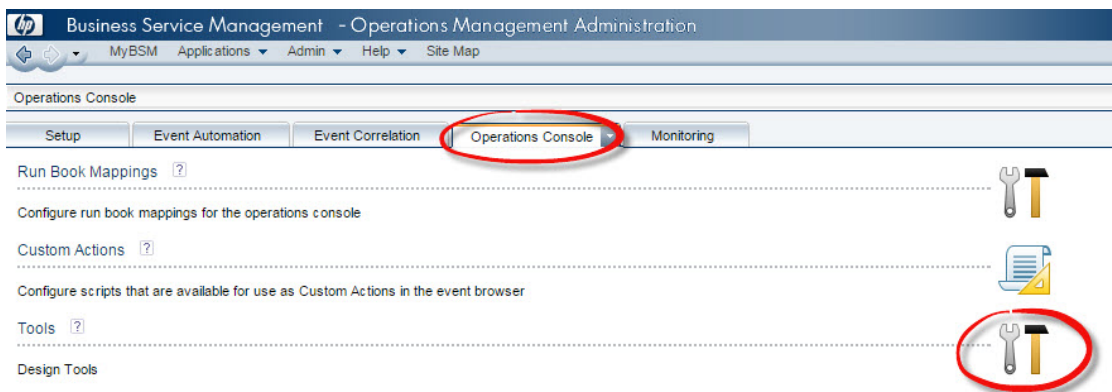
## Chapter 3: Cross Launch Integration

You can configure an integration that allows you to open OpsA directly from BSM in the context of a specific event or host. This allows you to open OpsA's analysis tools such as log analytics and predictive analytics quickly and easily in the appropriate context.

### How to Set Up a Cross Launch Integration for OMi Events

You can configure a cross launch for individual CI types from the Operations Management Administration console. This is done using OMi's **User Tools** feature.

1. From the BSM user interface, go to **Admin > Operations Management** .
2. Go to the **Operations Console** Tab and select **Tools**.



3. Select the CI type for which you want to enable the cross launch.
4. Select **New Item**.



5. Complete the **General** Page. Specify the default category.
6. On the **Type** page, select **URL**.
7. Specify a URL as seen in the following example:

```
http://<my opsa_server_
```

```
URL>:8080/opsa/#!/dashboard&search=host%20withkey%20%22${event.node.dnsName}%22&start=${event.timeReceived.seconds}&end=~0h&selectedTimeRange=CUSTOM_TIME
```

## How to Use a Cross Launch Integration from OMi

1. Go to **Applications > Operations Management > Events Perspective** and right click the desired event.

**Note:** The cross launch functionality is defined as a tool and must be defined for each CI type.

2. Select **Launch > Tools**
3. Select the name of the URL you would like to launch.

## How to Set Up a Cross Launch Integration for Anomalies in SHA

1. In **Platform Administration > Setup and Maintenance > Infrastructure Settings**, select **Service Health Analyzer** in the **Applications** context.
2. In the **Service Health Analyzer - User Interface** table, locate the **Operations Analytics URL** setting.
3. Specify the OpsA server in the URL as follows:  
**http://<your opsa server>:8080/opsa**
4. Click **Save** to enable the integration.

## How to Use the Cross-Launch Integration from SHA

1. Go to **Applications > Service Health Analyzer > CI Application Data** tab.
2. Go to the **topology view** and right click any node that is a host.
3. Select **drilldown** and **Operations Analytics**.

An OpsA dashboard focusing on the host opens in a new window.

## Chapter 4: MyBSM Integration

You can configure MyBSM to display the OpsA user interface within MyBSM for a specified context.

### To Configure a MyBSM Integration

This procedure explains how to configure a MyBSM page that displays the event browser and the Operations Analytics user interface.

1. Prerequisite: You must configure LWSSO on the Operations Analytics environment. This procedure can be found in the HP Operations Analytics Configuration Guide.
2. Set up an OpsA user that has the same user name and password as an administrative user in BSM.
3. In Operations Analytics, locate **/opt/HP/opsa/jboss/standalone/deployments/opsa-ui-web.war/WEB-INF/web.xml**.

Modify the following section from:

```
<init-param>
<param-name>X-Frame-Options</param-name>
<param-value>SAMEORIGIN</param-value>
</init-param>
```

to:

```
<init-param>
<param-name>X-Frame-Options</param-name>
<param-value>Allow-From http://<BSM URL>/topaz</param-value>
```

4. Restart OpsA by running the command **opsa-server restart**.
5. We recommend adding a mapping of the OpsA IP and the OpsA FQDN in the windows host file in every client machine that will be used to access OpsA.
6. Delete the cookies of all browsers used to access BSM.
7. Log in to BSM with a user that exists in both BSM and OpsA.



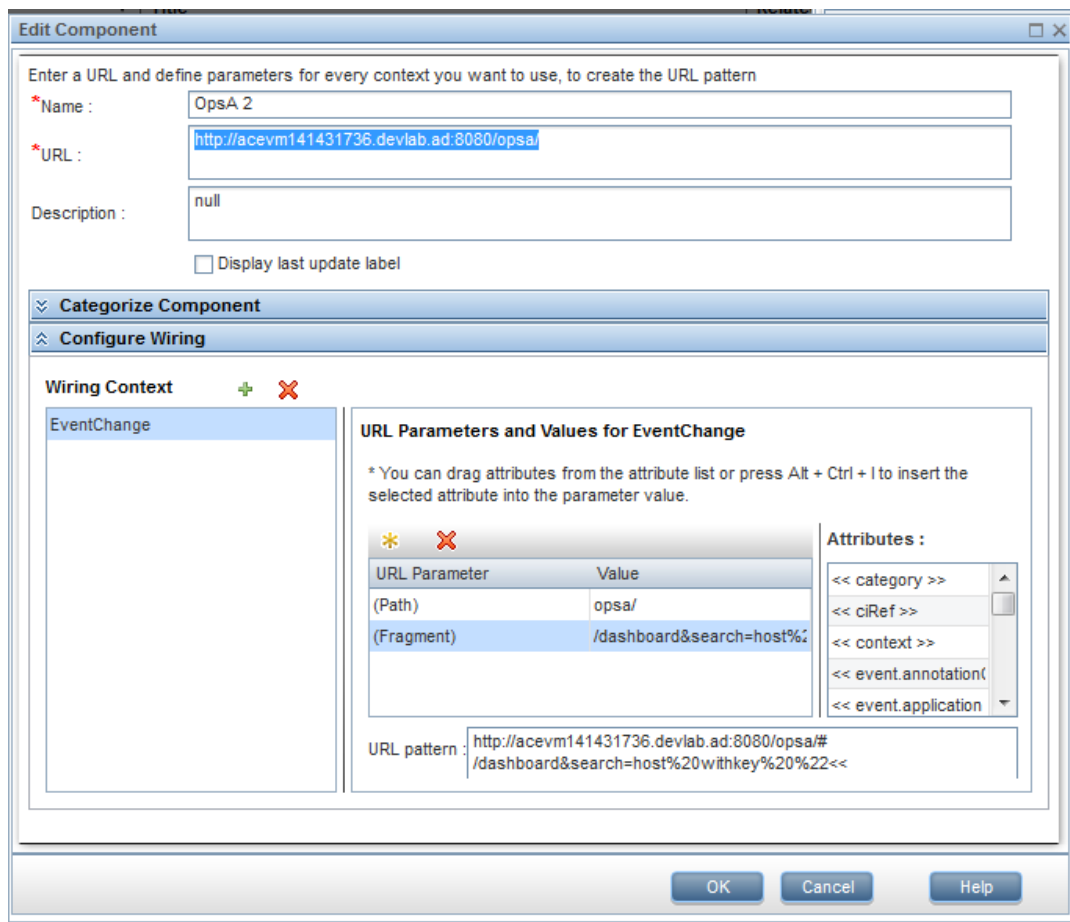
8. Add OpsA to the list of trusted hosts:
  - a. In the BSM JMX console, locate the **Topaz** section and select **service=LW-SSO Configuration**.
  - b. Locate the **addDNSDomainToTrustedHosts** element.
  - c. Add the OpsA domain and select **Invoke** .
  - d. Verify that the domain has been added by going to **Administration > Platform > Users and Permissions > Authentication Management**. In the **Single Sign-On Configuration** table, verify that the domain you just added is visible under **Trusted Hosts/Domains**.
9. In BSM, go to **Applications > MyBSM**.
  - a. Create a new page.
  - b. Add a new component, specify a name and the OpsA URL.

**Example:** http://<OpsAURL>:8080/opsa/

- c. In the **Configure Wiring** section, specify the **EventChange** context and add a Path and Fragment parameter as seen below. Specify the value as desired.

**For Example:** /dashboard&search=host%20withkey%20%22<< event.node.dnsName >>

For additional example URLs, see "URL Syntax " on page 11



10. After you have saved your component you can add it to any page that contains an event browser.

## Chapter 5: URL Syntax

The following section contains syntax examples that can be used when creating URLs to OpsA servers.

**Note:** These examples are for illustration purposes to help you construct your own URLs. They have not been tested with every possible integration.

Time	Symbol	Examples
Hours	h	1h, 2h, 3h
Days	d	1d, 2d, 3d
Weeks	w	1w, 2w, 3w
Months	m	1m, 2m, 3m

Using start and end to specify the time window



URL examples:

URL	Use Case
Display main dashboard focused on the relevant event focused on the last 1 hour.	<code>http://&lt;opsa_server&gt;:8080/opsa/##dashboard&amp;search=withkey "\${event.node.dnsName}"&amp;start=1h</code>

URL	Use Case
Display main dashboard focused on the relevant event focused on 8 hours before and after the current time.	<code>http://&lt;opsa_server&gt;:8080/opsa/#/dashboard&amp;search=withkey "\${event.node.dnsName}"&amp;start= \${event.timeCreated.seconds}&amp;end=~8h~</code>
Display main dashboard focused on the relevant event focused on the last two days.	<code>http://&lt;opsa_server&gt;:8080/opsa/#/dashboard&amp;search=withkey "\${event.node.dnsName}"&amp;start= \${event.timeCreated.seconds}&amp;end=~2d</code>
Display the OAEEnvironment dashboard, which displays a performance overview, focusing on the last hour.	<code>http://&lt;opsa_server&gt;:8080/opsa/#/dashboard&amp;search=OAEEnvironmentOverview&amp;start=1h RTSM</code>
Display the RTSM overview dashboard focusing on the last week.	<code>http://&lt;opsa_server&gt;:8080/opsa/#/dashboard&amp;search=RTSMOverview&amp;start=1w</code>

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