



Business Value Dashboard

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Getting Started

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Getting Started

Data does not have to be big to be confusing. It often comes in different formats or languages, and is spread over different locations and devices. This makes it all the harder to bring data together into one view, displaying only the latest and most important information.

HPE Business Value Dashboard (BVD) brings your data to life. Use BVD to create custom, flexible dashboards that visualize information in an appealing way and that can be accessed anywhere, anytime, from any device. Incorporate your own graphics, add color to identify status, and receive real-time updates—so you always understand the value driven by your IT environment.

BVD, color your data.



Anytime, Anywhere. BVD dashboards are real-time dashboards. You choose how often you send data to BVD; BVD displays the data with no delay. You decide where you want to view your dashboards: PC, tablet, or phone. BVD supports the major browsers. Choose your favorite!



Simple, Colorful, Flexible. Design your dashboards using Microsoft Visio. BVD provides a Visio stencil with shapes that then later become the widgets in your dashboards. The shapes include widgets for drawing charts, coloring text or values, displaying information feeds, web pages (for example, video streams), and many more. You can of course also style your dashboards according to your company's style guidelines. BVD provides sample dashboards to help you get started.



Connect. Once uploaded to BVD, you connect your widgets to the data. The BVD Dashboards page makes this task simple and efficient. You can set additional widget options such as rules that determine the visibility and status colors of the widgets; or you can link widgets to other dashboards to enable drill down.



Integrate. BVD can process any kind of data as long as it is sent in JavaScript Object Notation (JSON), a language-independent, open data format. The out-of-the-box integration with OMi facilitates the integration of event and KPI status as well as metrics data.

Operations Connector provides policies that automatically forward data collected from various sources to BVD. Alternatively, create your own integrations for any data source by writing an adapter for BVD. The adapter must convert the source data to JSON and send the JSON-enabled data to the BVD data receiver.

Log into BVD

You can access BVD using a supported web browser from any computer with a network connection. The level of access granted to a user depends on the user's permissions.

For a list of supported browsers, see the support matrix:

[Support Matrices for Operations Center products](#)

Download and extract the support matrix files, open the document SUMA.htm and select **Operations Manager i Business Value Dashboard** from the product list.

Tasks

This section includes:

- ["How to Log Into BVD" below](#)
- ["How to Log Out of BVD" on the next page](#)

How to Log Into BVD

1. In a browser, enter the following URL:

```
https://<external_access_host>/bvd
```

where

<external_access_host> is the fully qualified domain name of the host which you specified as EXTERNAL_ACCESS_HOST in the `install.properties` file during the Container Deployment Foundation installation. Usually, this is the master node's FQDN.

2. Enter your login name and password. Initial access can be gained using the administrator user name and password as specified during the BVD configuration.

Caution: We recommend that the system superuser change this password upon first login to prevent unauthorized entry. For details on changing the user password, see ["Change your name" on page 7](#). The login name cannot be changed.

After you log in, your login name appears on the  **Personal User Settings** menu.

How to Log Out of BVD

When you complete your session, it is recommended that you log out to prevent unauthorized entry.

Click **Log Out** on the  **Personal User Settings** menu.

Change your name

The My Account dialog box enables individual users to change their name. In addition, users can provide their email address.

The changes made here are also applied to the user's configuration in Users and Roles. For details, see [User Management](#).

To access

Click **My Account** on the  **Personal User Settings** menu.

Tasks

How to Update My Account Information

1. In the **Email** field, enter your email address.
2. In the **Name** field, type a new display name.
3. Click **Change** to save your changes.

Create your first dashboard

Step 1: Before You Begin

1. Make sure Visio is installed on the system where you plan to create dashboards for BVD.
2. Log into BVD:
 - a. Access BVD at the following URL:
`https://<external_access_host>/bvd`
Enter your login name and password.
 - b. *Recommended.* Open the  **Personal User Settings > My Account** menu and specify a new password.

3. In BVD, open  **Administration > Settings**, and copy the **API Key**.

This key identifies your BVD instance and must be included in the data submitted by the data senders.

Note: The Settings page is only available to users with administrator privileges.

4. Download the following tools and samples in  **Administration > Resources**, and install them:
 - o Visio Stencil (Contains the BVD widgets for Visio.)
 - o Data Generator Sample (Contains a VBScript and a batch file to send data to the OMi sample dashboard.)

Step 2: Try the OMi Sample Dashboard

BVD provides the sample dashboard **OMi Event and KPI Status Samples** (`omi_sample`) as well as a batch and a VBScript file for sending data to the example. By following the steps below, you will become more familiar with the BVD dashboards, sending data to BVD, and connecting the data to dashboard widgets.

You could also look through the BVD Getting Started dashboards, which are based on the OMi sample dashboard and guide you through the process of modifying a Visio file, uploading the exported SVG file to BVD, and then sending data to the dashboard.

1. Run the data generator `samplegen.bat` after extracting it from `samplegen.zip`. When prompted, enter the URL of your data receiver, your API key, and the HTTP proxy and port, if required.

Example

```
Please enter the data receiver URI, e.g.
https://receiver.coloryourdata.io/: https://bvd.example.com/bvd-receiver
Please enter your BVD API Key: 47a648e9065d465012e541288b5a345e
Host name of your HTTP proxy server (leave empty if not required):
httpproxy.example.com
Port name of your HTTP proxy server: 8080
Sending sample data to ...
```

Note: If you send data to BVD from an application that is **not** part of the suite container deployment (for example a classically installed OMi), define the receiver URL as follows:

```
https://<external_access_host>/bvd-receiver/api/submit/<API_key>
```

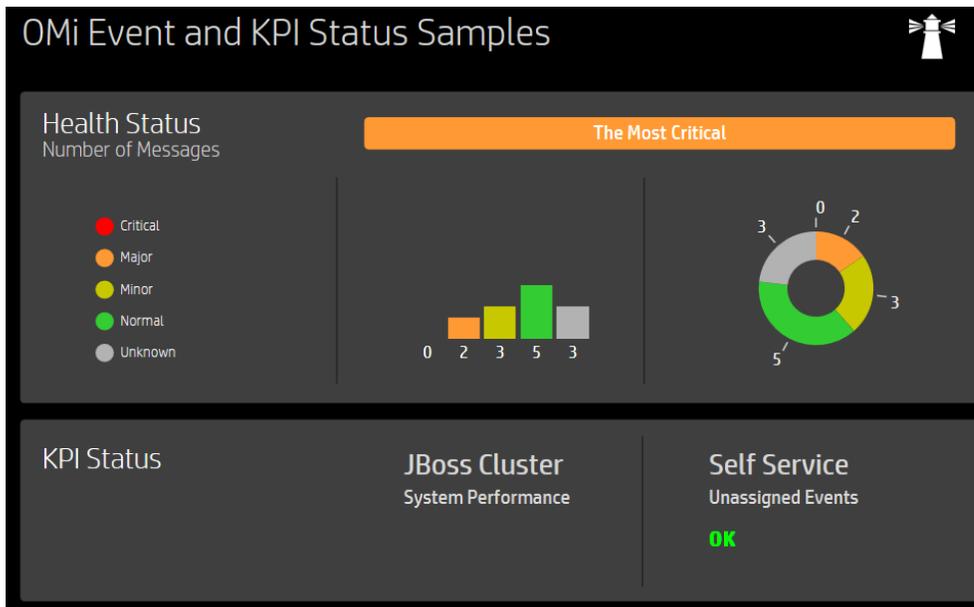
If you send data to BVD from an application that is also installed as a suite container, define the receiver URL as follows:

```
http://bvd-receiver.<namespace>.svc.cluster.local:4000/bvd-
receiver/api/submit/<API_key>
```

`<namespace>` is the namespace assigned to your suite deployment. You can check the namespace by accessing **SUITE > Management** in the Management Portal.

The batch file generates random values and sends them every two seconds to the sample dashboard.

2. View the OMi sample dashboard in  **Dashboards > omi_sample**. Take a moment to explore the information displayed and watch it updating as new data arrives.



3. Configure the `omi_sample` dashboard in **Administration > Dashboards > omi_sample**. Take a moment to look at the properties of the dashboard widgets, the data channels, fields, and rules.

The following steps demonstrate to you how BVD maps data to widgets:

- a. Edit the text value widget below **JBoss Cluster System Performance**, and delete the existing data channel (`omi:kpi:OprSample:IT JBoss Cluster:System Performance`).
- b. Place the cursor in the **Data Channel** field and type `omi`. The editor displays a list of all data channels that match the search string `omi`. Select `omi:kpi:OprSample:IT JBoss Cluster:System Performance` again.
- c. In the **Status Field**, click the down arrow and select `status` from the drop-down list. This step configures the text value widget to retrieve the data from the `status` field in the connected data channel.
- d. Click **Cancel** to return to the **Dashboards** page.

For more information on sending data to BVD, see [Example: Sending JSON Data to BVD](#).

Step 3: Send Your Own Data to the Dashboard

Before creating your first BVD dashboard, think about the data you want to send and show. You may have numbers indicating the currently logged-in users of your online banking system, metrics indicating the response time of your web servers, or measurements of the temperature in your data centers.

BVD expects to receive your data as HTTP post requests in JavaScript Object Notation (JSON) format.

The URL should look something like this:

`https://<external_access_host>/bvd-receiver/api/submit/<API_key>/dims/<dims>` (if the application sending the data is installed classically)

`http://bvd-receiver.<namespace>.svc.cluster.local:4000/bvd-receiver/api/submit/<API_key>` (if the application sending the data is also installed as a suite container)

`<external_access_host>`

The fully qualified domain name of the host which you specified as `EXTERNAL_ACCESS_HOST` in the `install.properties` file during the Container Deployment Foundation installation. Usually, this is the master node's FQDN.

`<namespace>`

The namespace assigned to your suite deployment. You can check the namespace by accessing **SUITE > Management** in the Management Portal.

`<API_key>`

Identifies your BVD instance. You can find the API key in  **Administration > Settings**.

`<dims>`

The names in your JSON name-value pairs. Select and combine dims that uniquely identify your data.

For more information on the URL of the BVD data receiver, see [Sending dims and tags in the receiver URL](#).

Example URL:

http://bvd.example.com/bvd-receiver/api/submit/47a648e9065d465012e541288b5a345e/dims/viewName,ciName,kpiName/tags/omi,kpi

Example data channel in BVD:

Data Channel:



Tags: omi, kpi

Dims: OprSample (=viewName), Employee Self Service (=CiName), Unassigned Events (=kpiName)

Step 4: Design Your Own Dashboard in Visio

1. In Visio, create a new drawing. Drag and drop the BVD shapes to your drawing and then arrange and modify them as required.

HPE recommends that you do not change the shape data of the BVD shapes in Visio itself. BVD enables you to adapt the widgets in the uploaded dashboard, which is faster and more convenient

( **Administration > Dashboards**).

For an overview of the available widgets and the associated properties, see [Widgets](#).

2. Save your drawing as an SVG file, making sure that the following Visio settings are selected:
 - Save as type: **Scalable Vector Graphics (*.svg)**
 - Select: **Include Visio data in the files**
 - Tip: Press **Ctrl+A** to select everything in the drawing. This ensures that your entire drawing is exported and not the currently selected element only.

Alternatively, click the **Export Dashboard** button in the **Dashboard** ribbon, if you have installed the BVD **Visio Add-in**.

Step 5: Upload your Dashboard to BVD

1. In BVD, open  **Administration > Dashboards** and click  **Add**, select your SVG file, and then click **Upload Dashboard** to import it. The BVD dashboard editor opens and displays your uploaded dashboard.
2. You can change the properties of the dashboard itself (for example, the SVG file associated with the dashboard, the title, or the background color).

To edit the properties of a widget, click the widget. When you click the **Data Channel** field, a drop-down list opens showing all data streams that have been received by BVD. The data you sent in Step 3 should be included in the list. Select it, adjust any of the other properties as required, and click **Save**. For more information about the widget properties, see [Widget Properties](#).

3. By default, newly imported dashboards are visible in the **Dashboards** menu. To show or hide a dashboard, click the  **Show in Menu/Hide from Menu** button.
4. View your dashboard by selecting it in the  **Dashboards** menu. Then watch your dashboard updating as you send data over your data channels.

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