

SAP Lumira, server for BI Platform
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SAP Lumira, server for BI Platform Administration Guide

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1 About this Document

1.1 Who should read this guide

This guide is intended for administrators, who want to install, configure, and manage SAP Lumira, server for BI Platform.

1.2 What this guide contains

- An overview of SAP Lumira, server for BI Platform.
- Information on how to install SAP Lumira, server for BI Platform.
- Information on how to configure and manage Lumira Server for SAP BusinessObjects BI Platform.

2 SAP Lumira, server for BI Platform Overview

SAP Lumira, server for BI Platform brings your SAP Lumira content into your SAP BusinessObjects BI platform deployment, thus allowing you to utilize the security, scalability, and ease of use the BI platform provides.

The SAP Lumira viewer is integrated into the SAP BusinessObjects BI platform as a web application, enabling users to have the same experience viewing and exploring stories in the BI Launchpad as they do in SAP Lumira. The SAP BusinessObjects BI platform enforces security on Lumira documents, and allows access and categorization in the same manner as other BI platform content, allowing you to seamlessly adopt SAP Lumira within your organization.

2.1 SAP Lumira, server for BI Platform Solution Overview

This solution contains four essential components.

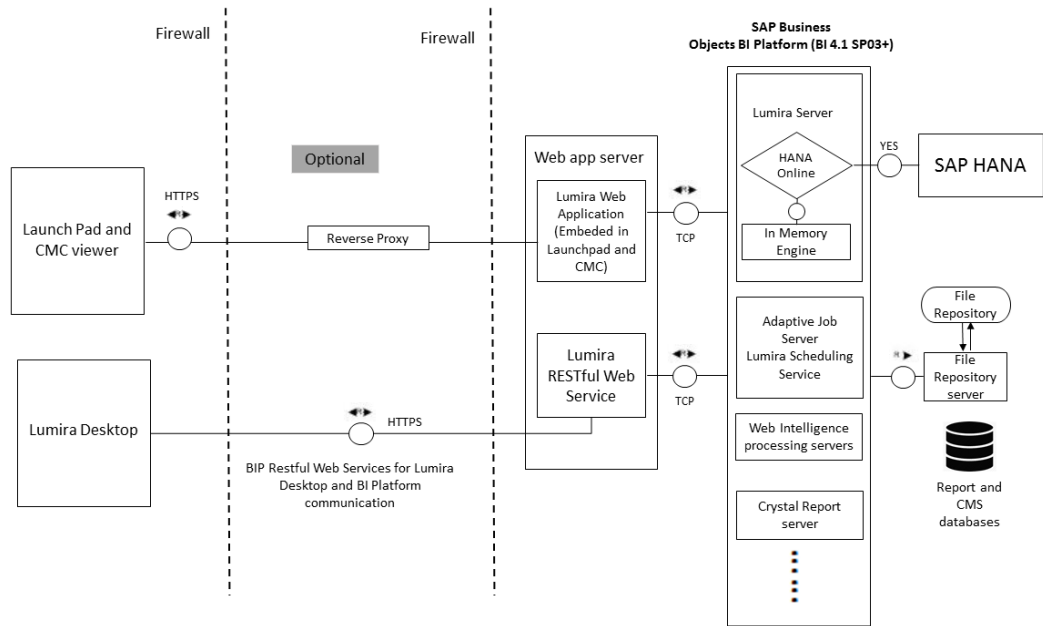
- SAP Lumira server: This is a processing server for Lumira content on SAP BI Platform; it hosts the In-memory engine which is utilized while working on acquired data.

i Note

In case of Lumira documents that are based on SAP HANA Online, the HANA In-memory calculation engine is utilized instead of the In-memory engine which is shipped with Lumira Server.

- SAP Lumira client has the following components:
 - Lumira Desktop: SAP Lumira is an application you can use to visualize and create stories about data. From manipulating, editing, formatting, and refining data to creating visualizations that represent data graphically, to finally sharing the visualizations—building stories in SAP Lumira starts and ends with data.
 - Launch pad viewer: This is a web application that acts a window for users to view information in the form of data, visualizations and reports. It also allows users to export the content to other business applications (like Microsoft Excel) and also to save it to a specified location. Users can also use various analytical tools to explore the information.
- SAP Lumira Web Applications : This is embedded within the BI Launchpad and CMC applications to allow access to Lumira content within BI Launchpad and CMC (Viewer and Application).
- SAP BusinessObjects Business Intelligence (BI) platform server: This is where the SAP Lumira Server for the BI Platform integrates.

The overall solution overview for SAP Lumira, server for BI Platform is depicted in the following figure:



3 Installing SAP Lumira, server for BI Platform

3.1 Preparing to Install SAP Lumira, server for BI Platform

3.1.1 Platform Requirements

For information on platform requirements, see Product availability Matrix available at <https://support.sap.com/pam>.

3.1.2 Choosing your Deployment Scenario

The deployment architecture you choose for SAP Lumira, server for BI Platform depends on the following factors:

- The size of your deployment.
- The types of actions your users most frequently perform when they use the software.
- The performance and reliability requirements of your business intelligence infrastructure.
- The existing SAP BI platform deployment.

You must deploy SAP Lumira, server for BI Platform on a machine that has SAP BusinessObjects BI platform installed on it. The SAP BusinessObjects BI platform must have a few mandatory features that are required for the installation of SAP Lumira, server for BI Platform components.

You can install SAP Lumira, server for BI Platform in one of the following ways:

- **Single host deployment:** In the single host BI platform deployment, all of the required BI platform features exist on the same machine. you can install SAP Lumira, server for BI Platform components on the same machine.
- **Distributed deployment:** In the distributed BI platform deployment, all the servers exist on different machine. When you deploy SAP Lumira, server for BI Platform on a machine that does not have a CMS Installation, it should connect to another Central Management Server (CMS) on a separate machine on your network. CMS can also be on a Linux/Unix machine in a distributed deployment scenario.

3.1.2.1 Single Host Deployment

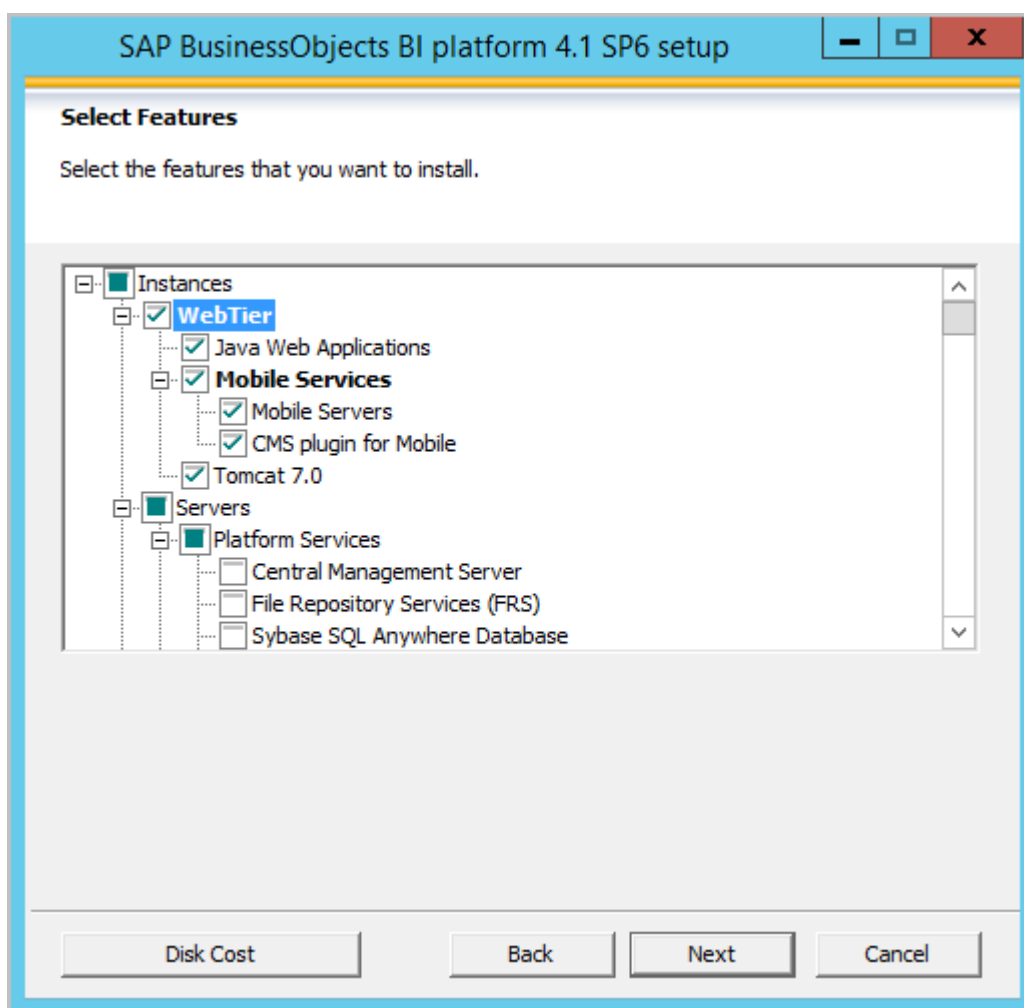
Installing all of the SAP Lumira, server for BI Platform components on a single host is recommended for testing purposes or for smaller production deployments. If you already have a SAP BusinessObjects BI platform installed, you can choose to install your SAP Lumira, server for BI Platform machine on the same host.

3.1.2.2 Distributed Deployment Scenarios

Implementing a distributed deployment scenario is recommended in the case of larger and critical production deployments. In distributed deployment, the SAP BusinessObjects BI platform server tier, web tier, and web services features may exist on different machines. The SAP Lumira, server for BI Platform add-on installer decides which components to install on the SAP BusinessObjects BI platform machine depending on which SAP BusinessObjects BI platform components exist.

You can deploy the SAP Lumira, server for BI Platform components on different machines as mentioned below:

- **Lumira server:** To deploy Lumira server components ensure that you have installed Adaptive Processing Server (APS), which is a part of Platform Processing Services(i.e.listed in BI platform installer screen).
- **Web Applications:** To deploy Web Applications on SAP BI platform web tier ensure that you have installed BI platform web tier with Tomcat or Web Application Container Server(WACS).
- **Restful Web Services:** To deploy Restful Web Services, ensure that you have installed WACS or Restful Web Services in SAP BI platform.
- **Mobile Web Applications:** To deploy Mobile web applications, ensure that you have installed Web Tier in SAP BI platform.



- **Scheduler Service:** To deploy scheduler service, ensure that you have installed Adaptive Job Server (AJS) in SAP BI platform.

i Note

- Adaptive Job Server (AJS) is a part of various scheduling components in SAP BI platform. They are as follows:
 - Platform Scheduling Services
 - Crystal Report Scheduling Services
 - Web Intelligence Scheduling Services

3.1.3 Checking installation prerequisites

This section explains how administrators can install, remove, and modify SAP Lumira, server for BI Platform.

Before starting the installation, SAP Lumira, server for BI Platform installation wizard runs a prerequisite check for the following system requirements:

- You have 64-bit operating system.
- You have administrator rights.
- You have the required open ports.

i Note

System checks for the required ports because, SAP Lumira, server for BI Platform uses the same ports for CMS, RWS and App server as SAP BusinessObjects BI platform.

- You have minimum 8 GB drive space.
- You have minimum 16 GB RAM.

➔ Recommendation

At least 32 GB RAM should be available for SAP Lumira, server for BI Platform.

- You have installed SAP Business Objects BI platform 4.1 SP5 or above.
- You have uninstalled SAP BusinessObjects BI Add-on for SAP Lumira Server for HANA before proceeding with SAP Lumira, server for BI Platform installation. For more information, see [2193940](#).
- You have uninstalled Information Platform Service(IPS) and Crystal Server set up before proceeding with SAP Lumira, server for BI Platform installation.

i Note

English is the only language supported for SAP Lumira, server for BI Platform.

1. Ensure that SAP BusinessObjects Business Intelligence Platform is installed and configured correctly as described in the Business Intelligence Platform Installation Guide at: <http://service.sap.com/instguides>. You must have administrator access to the designated machine for installation. Correct configuration means the machine on which SAP Business Objects BI platform 4.1 SP4 or above is installed, is operating and accessible on the network.

2. Make a note of the CMS logon credentials for the SAP BusinessObjects BI platform installations. You need these when installing SAP Lumira, server for BI Platform. The CMS logon credentials are as follows:
 - CMS Name
 - Port Number
 - User Name
 - Password

3.2 Installing SAP Lumira, server for BI Platform

This section explains how administrators can install, repair, and modify SAP Lumira, server for BI Platform.

3.2.1 Installing SAP Lumira, server for BI Platform on Windows

Procedure

1. Download SAP Lumira, server for BI Platform from SAP Service Marketplace.

i Note

For the complete list of supported operating systems, databases, web browsers, SAP Lumira versions, and hardware-related information, see the Product Availability Matrix (PAM), available on the SAP Service Marketplace site at <https://support.sap.com/pam>.

2. Right-click on *setup.exe* file and choose *Run as administrator*.

i Note

You require administrator rights to perform the installation. If the installer detects that certain installation pre-requisites are missing, a dialog box appears with a list of missing components. Choose each item in the list for a description of the action required in order to meet the requirement. You have to resolve the pre-requisite issues before continuing with the installation.

3. Review your license agreement, and select the *I accept the License Agreement* check box.
4. Choose *Next*.
5. Select the components that you want to install.
6. Choose *Next*.
7. Enter your CMS logon credentials:
 - a. CMS Name
 - b. Port number

If CMS is not installed in your system, the field remains empty. You need to enter the details.

c. Password

Enter the SAP BusinessObjects BI platform administrator password.

8. Choose *Next* to start the installation.
9. Choose *Finish* to complete the installation.

i Note

- You can install, upgrade and uninstall SAP Lumira, server for BI Platform through a virtualized environment. For more information on supported virtualized environment, see the Product Availability Matrix (PAM), available on the SAP Service Marketplace site at <https://support.sap.com/pam>.
- In a distributed or clustered environment, the Lumira server might run with errors sometimes. The status is displayed as "Running with errors" in the *Servers* Page of CMC under the *State* column. A possible reason for this could be missing jar (com.businessobjects.i18n.jar) from the following path <INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\java\lib\bundles.
To resolve this issue, you need to perform the following:
 1. Copy the jar file (com.businessobjects.i18n.jar) from <INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\SL SDK\eclipse\plugins to INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\java\lib\bundles
 2. Restart Lumira Server.

3.2.2 Installing SAP Lumira, server for BI Platform on Linux

This section explains how to install SAP Lumira, server for BI Platform onto a Linux machine. You do not have to choose which components to install, because the installer chooses the components based on which BI platform features exist.

Prerequisites

- You have SLES 12.0, SLES 11.3 or RHEL 6.7.
- For installing SAP Lumira Server for BI Platform on Redhat Enterprise Linux (RHEL) 6.7, see SAP note [2314588](#).
- For installing SAP Lumira Server for BI Platform on a Linux (SLES 12) machine, see SAP note [2316252](#).
- For installing SAP Lumira Server for BI Platform on a Linux (SLES 11.3) machine, see SAP note [2316219](#).

Context

To install SAP Lumira server for BI Platform to Linux:

Procedure

1. Download SAP Lumira, server for BI Platform from SAP Service Marketplace.

i Note

For the complete list of supported operating systems, databases, web browsers, SAP Lumira versions, and hardware-related information, see the Product Availability Matrix (PAM), available on the SAP Service Marketplace site at <https://support.sap.com/pam>.

2. Run the installation program `setup.sh`.
3. On the *Configure Destination Folder* screen, enter the directory where SAP BusinessObjects BI Platform is installed. Press Enter.

i Note

This product must be installed to the BI platform installation directory (the directory containing `modifyOrRemovePrograms.sh`).

4. On the *Check Prerequisites* screen, review the results and decide if you want to continue the installation.
You require administrator rights to perform the installation. If the installer detects that certain installation pre-requisites are missing, a dialog box appears with a list of missing components. Choose each item in the list for a description of the action required in order to meet the requirement. You have to resolve the pre-requisite issues before continuing with the installation.
5. On the *License Agreement* screen, review the agreement, select *I accept the License Agreement*, and press Enter.
6. Enter your CMS logon credentials:
 - a. *CMS Name*
 - b. *Port number*
 - c. *User Name*.
 - d. *Password*
7. On the *Start Installation* screen, select Enter to start the installation.

The SAP Lumira, server for BI Platform is installed.

i Note

- In a distributed or clustered environment, the Lumira server might run with errors sometimes. The status is displayed as "Running with errors" in the *Servers* Page of CMC under the *State* column. A possible reason for this could be missing jar (`com.businessobjects.i18n.jar`) from the following path `<INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\java\lib\bundles`.
To resolve this issue, you need to perform the following:

1. Copy the jar file (com.businessobjects.i18n.jar) from <INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\SL SDK\eclipse\plugins to INSTALLDIR\SAP BusinessObjects Enterprise XI 4.0\java\lib\bundles
2. Restart Lumira Server.

3.2.3 Deploying to a web application server other than Tomcat

If your BI platform deployment uses the default Tomcat web application server, the SAP Lumira, server for BI Platform automatically redeploys the web applications, and you do not need to take any further action. If your deployment uses a different web application server, you have to redeploy the BOE web applications manually using WDeploy. SAP Lumira is supported on the web application servers such as Web Sphere, Web Logic and SAP NetWeaver. For more information on the version details, see the Product Availability Matrix (PAM), available on the SAP Service Marketplace site at <https://support.sap.com/pam>

For more information, see the Web Application Deployment Guide for Linux or Web Application Deployment Guide for Windows at <http://help.sap.com/bobip41#section>

3.2.4 Deploying SAP Lumira Server for BI Platform on Non Windows Platform

You have to use SAP Lumira, server for BI platform on Unix(Solaris and AIX) platform, by performing heterogeneous deployment.

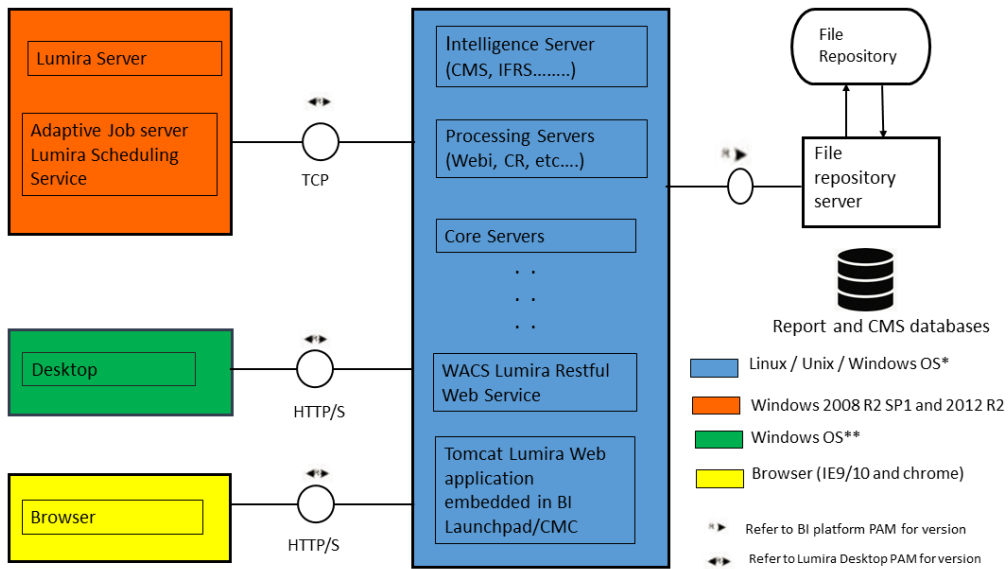
Context

Installation of SAP Lumira, Server for BI Platform consists of the following components:

- **Lumira Server:** Supported on Unix with Suse12 environment and Windows.
- **Lumira Scheduling Service:** Supported on Unix with Suse12 environment and Windows.
- **Lumira Web Application:** Supported on either one of the application servers such as Tomcat,WACS,Websphere,Weblogic, and NetWeaver on any OS supported by the BI Platform.
- **Lumira Restful Web Service:** Supported on WACS deployed on Windows.

For more information on the supported components, see [Distributed Deployment Scenarios \[page 8\]](#).

SAP Business Objects BI Platform (BI 4.1 SP03+)



To run the Lumira applications on Unix(Solaris and AIX) Platform, perform the following activities:

Procedure

1. Perform the custom installation of SAP BusinessObjects BI platform on windows, with the following components:
 - APS
 - AJS
 - WACS
 - Web Tier

i Note

On the Existing CMS Deployment Information page, enter the connection information for CMS Details running on Unix, including the Administrator password.

For more information on custom installation, see *Business Intelligence Platform Installation Guide for Window or Linux* in the SAP Help Portal.

2. Install SAP Lumira, server for BI Platform.

i Note

Once you have installed SAP Lumira, server for BI Platform, you need to stop all the BI platform servers except the Lumira server.

For more information on installing SAP Lumira, server for BI Platform, see [Installing SAP Lumira, server for BI Platform on Windows \[page 10\]](#).

-
3. Copy the BOE folder from [Instal_Dir]\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\warfiles\webapps\BOE on Windows machine to [Instal_Dir]/sap_bobj/enterprise_xi40/warfiles/webapps/BOE on Unix machine.
 4. Copy the following restful web service files from [Instal_Dir]\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\java\pjs\services\RestWebService\lib on Windows machine to [Instal_Dir]/sap_bobj/enterprise_xi40/java/pjs/services/RestWebService/lib on Unix machine.
 - com.sap.biprws.plugin.teamserver_en.jar
 - com.sap.biprws.plugin.teamserver.jar
 - com.businessobjects.plugins.lumsplugins.jar
 - TeamServerProxyClient.jar
 5. Run WDeploy to deploy the WARFILES.

The default location for the war is <BOE Install Folder>\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\wdeploy\workdir\tomcat7\application.
 6. Restart Tomcat and WACS on Unix machine.

You can now work with SAP Lumira, server for BI Platform on Unix platform.

3.2.5 Modifying SAP Lumira, server for BI Platform

The SAP Lumira, server for BI Platform uninstallation program provides the capability to add or remove components. To change the installed components, you have to modify and re-install the SAP Lumira, server for BI Platform.

Procedure

1. Choose **Start** > **Control Panel** > **Programs and Features**.
2. Locate *SAP Lumira, server for BI Platform 1.31*.
3. Right-click *SAP Lumira, server for BI Platform 1.31*, and choose *Uninstall*.
4. In the *Application Maintenance* page, select *Modify*.
5. Choose *Next*.
6. Enter your CMS logon credentials:
 - a. *CMS Name*
 - b. *Port Number*
 - c. *User Name*
 - d. *Password*
7. Choose *Next* to uninstall SAP Lumira, server for BI Platform 1.31.
8. After the modification process is complete, choose *Finish*.

3.2.6 Repairing SAP Lumira, server for BI Platform

Context

This procedure describes how to Repair SAP Lumira, server for BI Platform from your machine.

Procedure

1. Choose ► *Start* ► *Control Panel* ► *Programs and Features* ►.
2. Locate *SAP Lumira, server for BI Platform 1.31*.
3. Right-click *SAP Lumira, server for BI Platform 1.31*, and choose *Uninstall*.
4. In the *Application Maintenance* page, select *Repair*.
5. Choose *Next*.
6. Enter your CMS logon credentials:
 - a. *CMS Name*
 - b. *Port Number*
 - c. *User Name*
 - d. *Password*
7. Choose *Next* to uninstall SAP Lumira, server for BI Platform 1.31.
8. After the repair process is complete, choose *Finish*.

3.2.7 Updating to higher version of SAP Lumira, server for BI Platform

When you update your version of SAP Lumira, server for BI Platform, you must make sure that the SAP BusinessObjects BI platform version is compatible with your current version of SAP Lumira, server for BI platform.

Context

SAP Lumira, server for BI Platform supports the following installation set-ups:

- Full installation: If you are installing the product for the first time.
- Update installation: If you are updating to a higher version.

i Note

SAP Lumira, server for BI platform 1.31 and above versions are only compatible with SAP BusinessObjects BI Platform 4.1 SP4 and above and SAP BusinessObjects BI Platform 4.2.

The following procedure describes how to update to higher versions of SAP Lumira, server for BI Platform:

Procedure

1. Right-click on the setup.exe file and choose *Run as administrator*.
The License Agreement page appears.
2. Review the license agreement, and select *I accept the License Agreement*.
3. Choose *Next*.
4. Enter the administrator password for the existing deployment.
5. Choose *Next*.
6. Choose *Finish* to complete the installation.

Note

To achieve compression for mimetype "application/javascript", you need to add the following parameter in server.xml file of tomcat server:

Sample Code

```
<Connector port="8080" protocol="HTTP/1.1" connectionTimeout="20000"
redirectPort="8443" compression="on" URIEncoding="UTF-8"
compressionMinSize="2048"
noCompressionUserAgents="gozilla, traviata" compressableMimeType="text/
html,text/xml,text/plain,text/css,
text/javascript,application/javascript,text/json,application/json" />
```

In full build, the parameter is updated automatically. However, in patch build, you need to enter the parameter manually.

3.2.7.1 Managing Mobile Support for SAP Lumira, server for BI Platform

Context

While installing SAP Lumira, server for BI Platform, you must check the Mobile Web Application option in the feature tree to install SAP Lumira, on Mobile.

Note

SAP Lumira, server for BI Platform 1.31 is supported from SAP BusinessObjects BI Platform 4.1 SP04 onwards and SAP BusinessObjects BI Platform 4.2 .

If you are updating from version 1.25 or above to 1.31 of SAP Lumira, server for BI Platform, you should execute the following procedure:

Procedure

1. Choose ► *Start* ► *Control Panel* ► *Programs and Features* ►.
2. Right-click on the base version of *SAP Lumira, server for BI Platform* and choose *Uninstall/Change*.
3. In the *Application Maintenance* window, select *Modify*.
4. Choose *Next*.
5. In *Select Features* window, select *Mobile Web Applications* to install.
6. choose *Next*.

For more information, see SAP BusinessObjects Mobile Guide at <http://help.sap.com/bomobileios?current=bomobilebi>.

4 Administering SAP Lumira, server for BI Platform

4.1 User Management

4.1.1 Managing Users and Groups

User accounts are managed and stored in the Central Management Server (CMS). The administration console you use to manage the user profiles is the Central Management Console (CMC). For information on creating users and groups, and assigning rights see the Business Intelligence Platform Administrator Guide 4.1 available at: <http://help.sap.com/>.

4.1.2 Setting User Rights

Rights are the base units for controlling user access to the objects, users, applications, servers, and other features in Business Objects Enterprise. They play an important role in securing the system by specifying the individual actions that users can perform on objects.

- Like any other document objects on the SAP BusinessObjectsBI Platform, you can set the rights for users/ user groups at a folder level or for document object in SAP Lumira, server for BI Platform.

Following are the general rights for Lumira document object:

- View Document
- View Instance
- Edit
- Schedule

Following are the specific rights for Lumira document object:

- Refresh

For information on setting user rights, refer to the Business Intelligence Platform Administrator Guide 4.1 available on the SAP Business Objects tab at: <http://help.sap.com>.

4.2 Configuring Drivers

Context

If you have configured certain drivers in your system, only then you can refresh the Lumira documents. So, make sure you have configured the drivers before you can refresh any Lumira documents.

Procedure

1. Navigate to **Driver > Program Files (x86) > SAP BusinessObjects > SAP BusinessObjects Enterprise XI 4.0 > dataAccess > connectionServer > jdbc > drivers**.
2. If it is an oracle 11 data source, then perform the following:
 - a. Create an oracle11 folder under the drivers folder.
 - b. Place the ojdbc6.jar file in the oracle11 folder.
3. If it is JDBC data source, then perform the following:
 - a. Create a JDBC folder under the drivers folder.
 - b. Place the ojdbc6.jar file in the folder.
4. If it is sqlsrv data source, then perform the following:
 - a. Create a sqlsrv folder under the drivers folder.
 - b. Place the sqljdbc41.jar file in the sqlsrv directory.

i Note

You can also create MSSQL version specific folders like, sqlsrv2008 or sqlsrv2012 and place the sqljdbc4.jar file in it.

5. If it is a SQLAnywhere 16 data source, then perform the following:
 - a. Create a SQLAnywhere 16 folder under the drivers folder.
 - b. Place the jconn4.jar file in the SQLAnywhere 16 folder.
6. Navigate to Server list area of CMC.
7. Restart SIA from Central Configuration Manager.

You can now refresh the document.

4.3 Configuring Auditing Events

Prerequisites

You know how to configure auditing database, select actions to audit, and to create custom audit report for SAP BusinessObjects BI platform.

Auditing allows you to keep a record of significant events triggered on SAP Lumira, server for BI platform. The CMC Auditing page can be used to activate auditing and select which events will be audited across your entire system. If you are not interested in certain events or event details, you can leave them unselected to gain additional system performance.

SAP Lumira, server for BI Platform is an add-on for SAP BusinessObjects BI platform; therefore the same auditing process is applicable. So, for more information on auditing, see *SAP Business Intelligence Business platform Administrator Guide*.

Table 1:

Application	CUID
SAP Lumira Desktop	Afplfc.1z8Vlrxj3xgxr9AO
SAP BI Launch pad	Af9fX5We.TVJu_6eVqnxufQ
SAP BI Central Management Console	Af6SXD8cxq5Pu77TaMS_eiw
SAP Mobile BI	ASF9FYol7kRAuW.u1ikmU20
Open Document	AZXgyG8_ue9OtYITUhGG.wg

Events that you can audit:

Table 2:

Events	Event ID	Description
Document created	1005	User creates a document.
Document deleted	1006	User deletes a document.
Document scheduled	1011	A job has been successfully scheduled.
Document edited	1010	User enters Edit document mode for an existing Lumira document.
Document refreshed	1003	User manually refreshes a Lumira document, or opens a Lumira document that is set to "refresh on open", or schedules a Lumira document.
Document saved(save As)	1008	User saves an existing Lumira document.
Document modified	1007	User modifies a property of an object.
User login	1014	User logs into the system.
User Log out	1015	Users logs out of the system.
Document viewed	1002	User views a document.

Events	Event ID	Description
Document Sent to	1012	User sends a document to required destination.

While reporting, if you want to pull specific events when the client application is audited, then provide the CUID number of the respective application.

Procedure

1. Launch CMC.
2. In the *Central Management Console*, select the *Auditing* tab.
The Auditing page appears.
3. Set the *Set Events* slider to the desired level.
4. Click *Save*.

4.4 Configuring Active Directory (AD)

Context

You need to configure AD for WACS because, publishing the document from Lumira desktop to Lumira, server for BI Platform is done using REST web services deployed on WACS. So, for Lumira Desktop to authenticate the AD users, it needs krb5.ini and bscLogin.conf configuration paths.

When you have deployed SAP BusinessObjects BI platform on tomcat, and installed SAP Lumira, server for BI Platform, then you need to configure the following paths:

- krb5.ini file
- bscLogin.conf file

To configure the above paths, perform the following steps :

Procedure

1. Log on to *CMC*.
2. Navigate to the *Servers* tab.
3. In Servers List, right click on *WACS* and choose *Properties*.
4. In the *Active Directory Configuration Settings* pane, specify the krb5.ini and bscLogin.conf file.
5. Choose *Save* to reflect your changes.
6. Restart WACS.

i Note

If you have deployed the SAP BusinessObjects BI Platform on WACS, then you need not perform the above steps.

4.5 Configuring Desktop Governance

Desktop governance allows BI platform administrators to enforce security and set default values for SAP Lumira.

The following items can be administered:

- The type of data source that a user can import from.
- The type of destination that a user can share to.
- Whether URLs are configurable.
- How updates are handled.

Desktop governance is enabled by creating a configuration file on each user's machine, then defining each user's settings in the BI platform Central Management Console (CMC). SAP Lumira enforces desktop governance by contacting the BI platform at start up and querying for the user's rights and settings.

4.5.1 Creating the Desktop Governance Configuration File

Desktop governance is enabled using a configuration file. If the configuration file does not exist, or if the BI platform cannot be reached, SAP Lumira will default to the user's previous rights and settings. If desktop governance has never been enabled, then user has access to all SAP Lumira features.

To define desktop governance, create a configuration file called LumiraGovernance.properties with the following parameters:

Table 3:

Parameter	Allowed values	Description
<code><enable></code>	<ul style="list-style-type: none">• <code>true</code>• <code>false</code>	<ul style="list-style-type: none">• <code>true</code> means desktop governance is enforced.• <code>false</code> means desktop governance is not enforced.
<code><adapter.type></code>	<code>boe</code>	Specifies the system that will be contacted to enforce desktop governance.
<code><authentication.type></code>	<ul style="list-style-type: none">• <code>secEnterprise</code>• <code>secLDAP</code>• <code>secWinAD</code>• <code>secSAPR3</code>	Allowed values for BI platform authentication types.

Parameter	Allowed values	Description
<rest.url>	The BI platform rest access URL.	see Configuring the Default REST Access URL [page 26] .
<useSSO>	<ul style="list-style-type: none"> • true • false 	<p>If true, SAP Lumira will use Single Sign On to contact the BI platform. If false, the user will be prompted for their BI platform credentials.</p> <p>In order to use SSO, it must be configured on the user machine's domain and the BI platform deployment.</p>

Example

This configuration file defines desktop governance as enabled, authentication as secEnterprise, and SSO as being true. It also defines the rest access URL for the BI platform. (The authentication type is only applicable if SSO is set to **false**, but is shown here as an example).

Sample Code

```
enable=true
adapter.type=boe
authentication.type=secEnterprise
rest.url=http://vmboesrvr:6405/biprws
useSSO=true
```

Deploy the configuration file

Store the LumiraGovernance.properties configuration file in the following location on the user's machine:

Sample Code

```
C:\Users\\.sapvi
```

For example,

Sample Code

```
C:\Users\JDon\.sapvi\LumiraGovernance.properties
```

SAP Lumira will read this file when it starts up, and if enable is true, will contact the BI platform to read the user's settings.

Note

The administrator may wish to make the configuration file read-only in order to enforce configuration settings.

4.5.2 Defining SAP Lumira Properties

You can set default values for SAP Lumira in order to improve user experience, or to enforce system security.

Using the Central Management Console (CMC), select ► [Applications](#) ► [SAP Lumira](#) ► [properties](#) ►.

The following values can be set:

Table 4:

Value	Description
<Allow user editing of URL>	Users can share content to destinations including SAP Lumira Cloud, SAP Lumira Server and SAP BI Server. SAP Lumira uses a URL to contact these destinations. By allowing the user to edit the URL, you are allowing them to redefine a destination.
<URL>	The default URL for each destination. Defining a default URL makes it easier for users to access.
<SAP Lumira updates>	You can turn automatic updates on or off .
<Update server URL>	The default location of the update server.

4.5.3 Defining Access to SAP Lumira Features

Context

SAP Lumira users can acquire data from different data sources such as xlsx files or SAP BW. Users can also share content to different destinations, such as SAP Lumira Server or the BI Platform. You can use BI platform rights to control which data sources and destinations each user or group can access.

Procedure

1. Using the Central Management Console (CMC), select ► [Applications](#) ► [SAP Lumira](#) ► [security](#) ►.
2. Select the user or group you want to set rights for.
If the user or group is not listed, use <Add Principals> to add it.
3. Select [Assign security](#).
4. Select [Advanced](#).
5. Select [Add/Remove rights](#).
6. Define the rights that the user has for SAP Lumira.

4.5.4 Configuring the Default REST Access URL

Context

When you publish datasets from SAP Lumira to the BI platform you need to enter the REST access URL, which is the BI platform's URL for web service requests. The publishing wizard in SAP Lumira provides a default value for you. You can configure this value in the SAP Lumira Preferences area.

You can override the default value during publishing.

Procedure

1. In SAP Lumira, select **File > Preferences**.

The *SAP Lumira Preferences* window opens.

2. Select *Network* and scroll down to *SAP BI Server*.
3. Enter the base URL for web service requests on your BI platform deployment.

To find the value for the URL, perform the following:

1. Navigate to the Central Management Console on the BI platform.
 2. select *Applications*.
 3. Right-click on *RESTful Web Service*.
 4. Choose *Properties*.
4. Select *Done*.

4.6 Configuring SAP Authentication

SAP Lumira, server for BI Platform supports SAP Authentication as SAP BusinessObjects BI Platform.

For information about configuring SAP Authentication, refer to the Business Intelligence Platform Administrator Guide 4.1 available on the SAP Business Objects tab at: <http://help.sap.com>.

4.7 Configuring Extensions

4.7.1 Installing Visualization Extension

Procedure

1. Log on to CMC.
2. Choose *Applications*.
3. Locate SAP Lumira server, right click and choose *Extensions*.
4. Choose the *Choose Files* option, browse to the folder containing your extension.

You can select multiple extensions to upload.

5. Choose *Open*.
6. Choose *Upload*.

After you upload the document, your extensions are added to SAP Lumira, server for BI Platform and is ready to use.

4.7.2 Uninstalling Visualization Extension

Procedure

1. Log on to CMC.
2. Choose *Applications*.
3. Locate SAP Lumira server, right click and choose *Extensions*.
4. Choose the visualization extension that you want to uninstall.

You can select multiple extensions to uninstall.

5. Choose *Remove*.
6. Choose *Ok*.

4.7.3 Installing Data Access Extensions

Procedure

1. Log on to CMC.
2. Choose *Applications*.
3. Locate *SAP Lumira*, right click and choose *Extensions*.
4. 4. Choose the *Choose Files* option, browse to the folder containing your extension.
you can select multiple extensions to upload.
5. Choose *Upload*.

In some cases, after you upload the document system prompts you to restart LumiraServer.

6. Navigate to home page of CMC, Choose ► *Servers* ► *Servers list* ▾.
7. Locate *LumiraServer*, right click and choose *Restart Server*.

Your extension is added to SAP Lumira, server for BI Platform and is ready to use.

4.7.4 Uninstalling Data Access Extensions

Procedure

1. Log on to CMC.
2. Choose *Applications*.
3. Locate SAP Lumira server, right click and choose *Extensions*.
4. Choose the data access extension that you want to uninstall.
You can select multiple extensions to uninstall.
5. Choose *Remove*.
6. Choose *Ok*.

4.8 Performance

4.8.1 Clustering and Load Balancing

SAP Lumira Web Applications supports clustering of multiple web applications. It manages the failover and load balancing when the web applications are clustered in a deployment.

SAP Lumira server supports clustering of multiple Lumira servers. It manages the failover and load balancing of Lumira workflows when the Lumira server are clustered in a deployment.

i Note

Unlike the other SAP BusinessObjects BI platform servers, Lumira servers manages the load based on document sessions.

For more information on clustering, refer to the Business Intelligence Platform Administrator Guide 4.1 available on the SAP Business Objects tab at: <http://help.sap.com>.

4.8.2 Split Web Tier Deployment

SAP Lumira web applications supports split web tier deployment as SAP BusinessObjects BI Platform.

Note: You need to split the static and dynamic content.

For more information on split web tier deployment, refer to the Business Intelligence Platform Administrator Guide 4.1 available on the SAP Business Objects tab at: <http://help.sap.com/>

4.9 Support for Lumira documents in Promotion Management

You can promote Lumira documents and its dependencies using the promotion management tool.

For information about Promotion Management, refer to the Business Intelligence Platform Administrator Guide 4.1 available on the SAP Business Objects tab at <http://help.sap.com>.

4.10 Licensing Information for SAP Lumira, server for BI Platform

SAP Lumira, server for BI Platform is an add-on for SAP BusinessObjects BI platform. Similarly, the products that support SAP Lumira, server for BI platform as add-on are as follows:

- SAP BusinessObjects Edge
- BI Professional (also called as BI Pro)

- SAP BusinessObjects BI platform

The license key requirement for products to install SAP Lumira server for BI Platform is as follows:

- If you are SAP BusinessObjects Edge or BI Pro user, then you must enter a separate license key(s).
- If you are SAP BusinessObjects BI Platform user, then you need not enter a separate license for SAP Lumira server for BI Platform

User Type

Table 5:

User	Description
Named user license	<p>Named user licenses are associated with specific users. This kind of license allows users to access the system based on their user name and password. This provides Named users with access to the system, regardless of how many other users are connected. A Named user license must be available for each user account created using this option. A Named user is generally created when high priority user like an analyst want to create visualizations from data.</p> <p>i Note</p> <ul style="list-style-type: none"> • SAP BusinessObjects Edge supports maximum of 100 named user license • BI Professional supports maximum of 100 named user license • SAP BusinessObjects BI Platform supports as many numbers in SAP BusinessObjects BI Platform licenses
Concurrent user license	<p>New user accounts are configured to use Concurrent user licenses. Concurrent licenses specify the number of users who can connect to SAP Lumira, server for BI platform services at the same time. This type of licensing is very flexible because a small concurrent license can support a large user base.</p> <p>i Note</p> <ul style="list-style-type: none"> • SAP BusinessObjects Edge supports 50 concurrent user license • BI Professional supports 50 concurrent user license • SAP BusinessObjects BI Platform supports users in accordance with SAP BusinessObjects BI Platform licenses

License Version

SAP Lumira, server for BI Platform is currently available in the following versions – Trial and Licensed.

i Note

- Trial key-code is valid for a period of 30 days in SAP BusinessObjects Edge and BI Professional (also called as BI Pro) .
- Number of users supported is equal to the number of user licenses (i.e. named and concurrent) in SAP BusinessObjects BI Platform .
- When you run the installation set up for SAP Lumira, server for BI platform the installer should detect base SAP BusinessObjects BI platform product and embed the required trial key.

License key verification

- If you want to perform any Lumira workflows on SAP BusinessObjects BI platform, then you need to check for the following:
 - Valid license
 - Number of named licenses for SAP Lumira, server for BI platform is greater than/equal to number of named licenses SAP BusinessObjects BI Platform
 - Number of concurrent licenses for SAP Lumira, server for BI platform is greater than/equal to number of concurrent licenses of SAP BusinessObjects BI Platform

i Note

If you have installed SAP Lumira, server for BI Platform 1.29 on SAP BusinessObjects BI Platform 4.1SP04/ SP05/SP06 and you upgrade from BusinessObjects BI Platform 4.1SP04/ SP05/SP06 to 4.2, then system checks for a valid SAP Lumira, server for BI Platform license key. In such a case you need to manually enter the license key to be able to work with SAP Lumira documents.

5 Uninstalling SAP Lumira, server for BI Platform

This procedure describes how to uninstall SAP Lumira, server for BI Platform from your device.

Context

The Add/Remove program displays the entries for the current version and the previously installed version. If there is only one entry however, (meaning that the current version of the product was a fresh installation, rather than an upgrade), choosing to uninstall this uninstalls the product completely.

If you want to uninstall the product completely, and there are multiple program entries in the list, you need to uninstall the highest version first and then uninstall previously installed versions. Uninstalling the current version in this case downgrades you to a lower version.

i Note

We recommend that not uninstalling any intermediate versions before uninstalling the higher versions first.

Procedure

1. Choose **Start > Control Panel > Programs and Features**.
2. Locate *SAP Lumira, server for BI Platform 1.31*.
3. Right-click *SAP Lumira, server for BI Platform 1.31*, and choose *Uninstall*.
4. On the *Application Maintenance* page, select *Remove*.
5. Choose *Next*.
6. Enter your CMS logon credentials:
 - a. *CMS Name*
 - b. *Port Number*
 - c. *User Name*
 - d. *Password*
7. Choose *Next* to uninstall SAP Lumira, server for BI Platform 1.31.
8. Once uninstallation is complete, choose *Finish*.

SAP Lumira, server for BI Platform 1.31 is now removed from your machine.

i Note

If you have upgraded from a former version of the product to higher version, uninstalling the latter downgrades you to the lower version. If you have upgraded the product from 1.30 to 1.31 for example, uninstalling 1.31 downgrades you to version 1.30.

You can only perform complete uninstallation if just one version of the product is listed on the ADD/Remove products page.

6 Troubleshooting Installation Issues

Procedure

1. If the *Suppressed reboot* issue occurs, you have to reboot the system and try the installation process again. If the issue persists after rebooting, follow the steps below in order to clear the windows registry and resolve the issue.
 - a. Go to **Start > Run**.
 - The *Run Dialog* box appears.
 - b. Enter **regedit** and choose *OK*.
 - c. Navigate to **HKEY_LOCAL_MACHINE > System > CurrentControlSet > Control > Session Manager**.
 - d. Double-click on the *PendingFileRenameOperations* and delete the content of *Value Data*.
 - e. Choose *OK*.
 - f. Launch the installer again.
2. See the installation logs for any installation failures: `<INSTALLDIR>\InstallData\logs\`.

i Note

You can go to the following location to see the SAP BI Platform logs: `<INSTALLDIR>\SAP BusinessObjects Enterprise XI 4.0\logging\`.

3. The installation process is paused if the windows installer service is disabled or is not available. You must install it and enable the service before proceeding. To enable windows installer service, you need to consult your IT department.

i Note

- After you install SAP Lumira, server for BI Platform on SAP BusinessObjects BI platform. It doesn't support uninstallation or downgrade of SAP BusinessObjects BI platform Support Packs (SPs) or patches.
- SAP Lumira, server for BI Platform doesn't add sample Lumira documents for distributed deployment.
- After you install SAP Lumira, server for BI Platform 1.29 patch or full build on any of the supported SAP BusinessObjects BI Platform 4.1 Support Packs and Patch releases, if some of BI platform servers are in disabled state, then you need to manually restart the servers for enabling those servers.

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