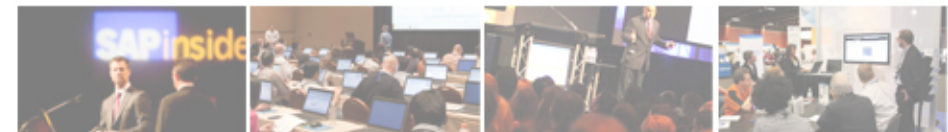


# SAP Lumira integration with the SAP BusinessObjects BI platform: What BI administrators need to know

Dallas Marks  
EV Technologies

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## In This Session

**This session offers an abundance of information on how to plan, size, and configure your existing landscape for the addition of the SAP Lumira for BI4 add-on and its in-memory database engine. During this session, you will:**

- ♦ **Understand how SAP Lumira compliments your existing SAP BI tools**
- ♦ **Discover features of the new SAP Lumira in-memory database engine that enable integration with the SAP BI Suite**
- ♦ **Learn how to size the SAP Lumira in-memory database engine for your environment**
- ♦ **Understand hardware requirements, technical prerequisites, and CPU and memory resources necessary**
- ♦ **Explore a step-by-step process for installing and configuring the SAP Lumira add-on for optimal performance and trusted data discovery**

## What We'll Cover

- **Why do we need another BI tool?**
- **Planning an SAP Lumira deployment**
- **Sizing the SAP Lumira in-memory database engine for your environment**
- **Installing SAP Lumira – platform requirements, scenarios, and server properties**
- **Setting the governance and security properties**
- **Monitoring SAP Lumira**
- **What's coming in SAP Lumira 2.0?**
- **Wrap-up**

## What We'll Cover

- **Why do we need another BI tool?**
- **Planning an SAP Lumira deployment**
- **Sizing the SAP Lumira in-memory database engine for your environment**
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- **Wrap-up**



# SAP Analytics Strategy

Provide new  
SaaS  
Analytics  
capabilities



Continued  
investment in  
existing solutions



## Context: Lumira as part of a comprehensive self-service solution

### For Business Analysts

Analyze and visualize data from multiple sources

**Lumira/Web Intelligence**

### For Financial Analysts

Analyze BW and HANA data in Excel

**Analysis for Office**

### For Casual Users

Self-service exploration of corporate and other data

**Design Studio** (hierarchical data)  
**Explorer/Lumira** (non-hierarchical data)

### For Casual Users

Compose personalized dashboards from prebuilt parts

**Design Studio**  
With user-composable dashboards

# Simplification of BI Portfolio

SAP BusinessObjects Lumira  
SAP BusinessObjects Explorer  
SAP BusinessObjects Analysis for OLAP  
SAP BusinessObjects Design Studio  
SAP BEx Web Application Designer  
SAP BusinessObjects Dashboards

## Lumira 2.x



**Data Discovery  
& Applications**

SAP BusinessObjects Analysis Office  
Live Office  
EPM Add-In  
SAP BEx Analyzer

## Analysis Office



**Office Integration**

SAP Crystal Reports  
SAP BusinessObjects Web Intelligence  
SAP BusinessObjects Set Analysis  
Desktop Intelligence

## Crystal Reports Web Intelligence



**Reporting**

Interoperability

Run Simple: Convergence of the SAP BusinessObjects BI Product Portfolio

Jayne Landry, Global VP and GM Business Intelligence, SAP (June 25, 2014).

Source: SAP

# Simplification of BI Portfolio

SAP BusinessObjects Lumira  
SAP BusinessObjects Explorer  
SAP BusinessObjects Analysis for OLAP  
SAP BusinessObjects Design Studio  
SAP BEx Web Application Designer  
SAP BusinessObjects Dashboards

Lumira 2.x



**Data Discovery  
& Applications**

SAP BusinessObjects Analysis for Office  
**Live Office**  
EPM Add-In  
SAP BEx Analyzer

**Analysis Office**



**Office Integration**

SAP Crystal Reports  
**SAP BusinessObjects Web Intelligence**  
SAP BusinessObjects Set Analysis  
**Desktop Intelligence**

**Crystal Reports  
Web Intelligence**



**Reporting**

Interoperability

Run Simple: Convergence of the SAP BusinessObjects BI Product Portfolio  
Jayne Landry, Global VP and GM Business Intelligence, SAP (June 25, 2014).

## SAP Lumira — Investment Themes

### Agility

Essential features enabling business-user led analytics in the line of business.



### Trust

Bridging de-centralized analytics deployments with those centralized to better serve the enterprise

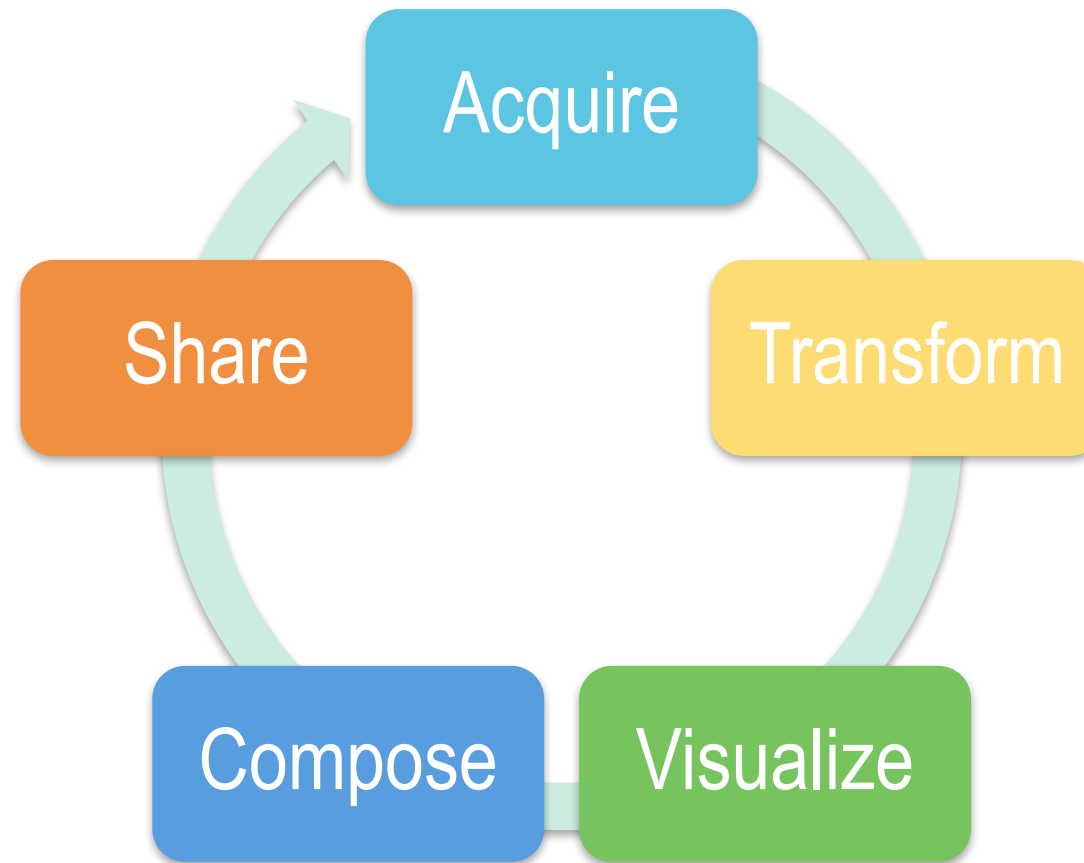


### Scale

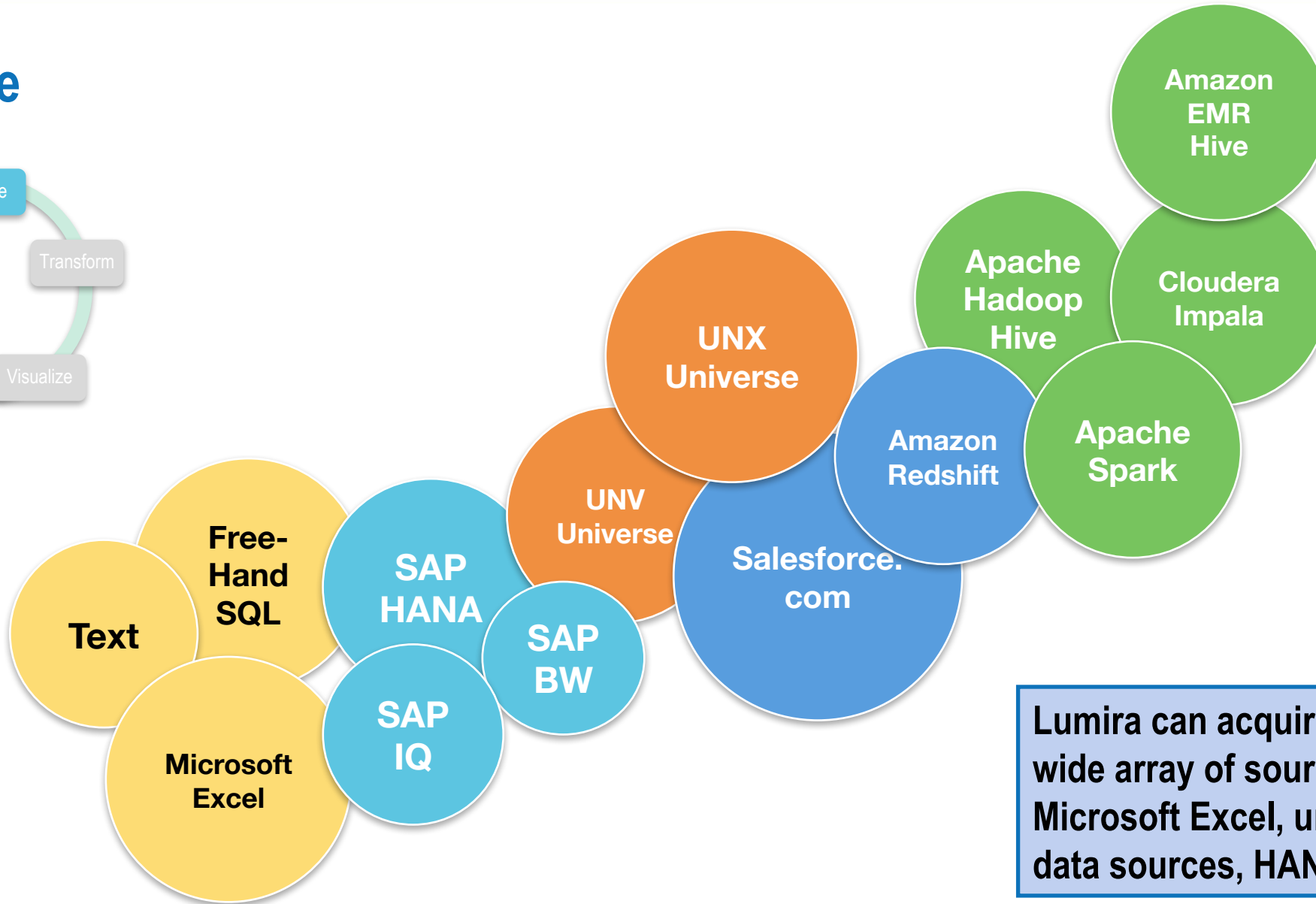
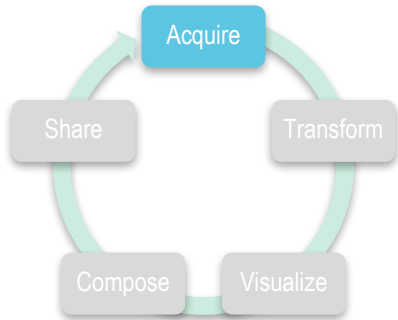
Cost effective Data discovery on ALL data



## SAP Lumira Key Functionality



# Acquire



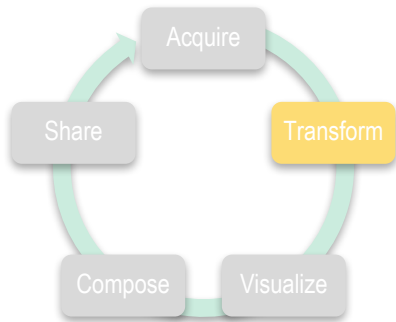
Lumira can acquire data from a wide array of sources including Microsoft Excel, universes, cloud data sources, HANA, and Hadoop



Note

For a full list of supported data sources, consult the SAP Lumira Product Availability Matrix (PAM)

# Transform



**Transform data within Lumira  
without the need for ETL**

- Merge multiple data providers
- Filter data sets
- Group data
- Create custom measures
- Create custom dimensions
- Transform data as needed
- Use Data Blending to combine and cleanse multiple data sources
- Data Wrangling allows manipulation of large data sets from Hadoop



# Visualize

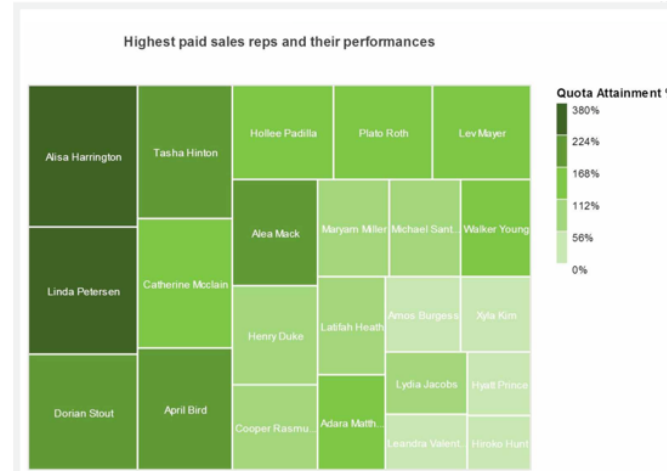
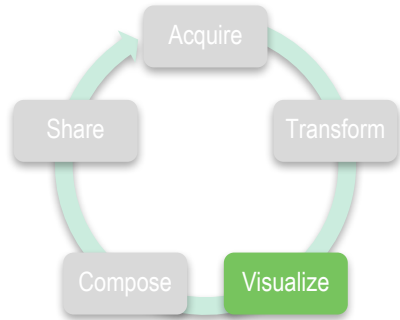


Figure 11: In a Tree Map, larger values are represented with larger tiles and darker shades.

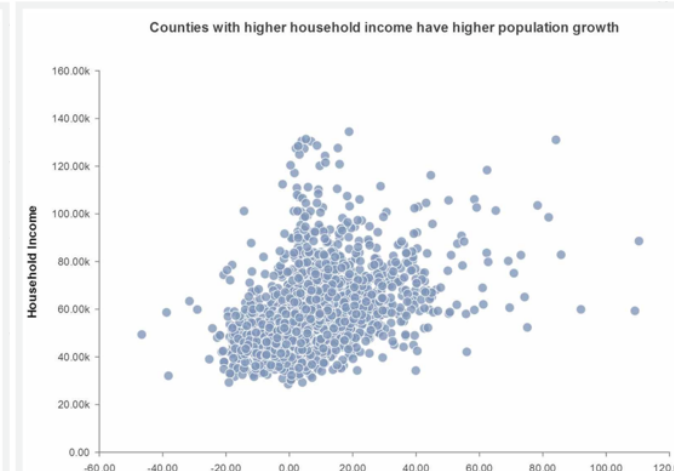


Figure 12: Scatter Plots highlight correlation in the data.

Lumira can visualize data into a large variety of chart types including heat maps and geographic maps

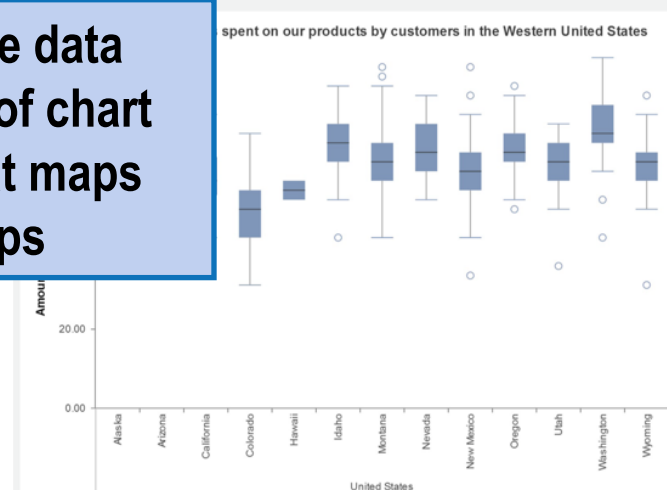


Figure 10: Each box shows the median, top and bottom 25%, and outliers within each categorical value.

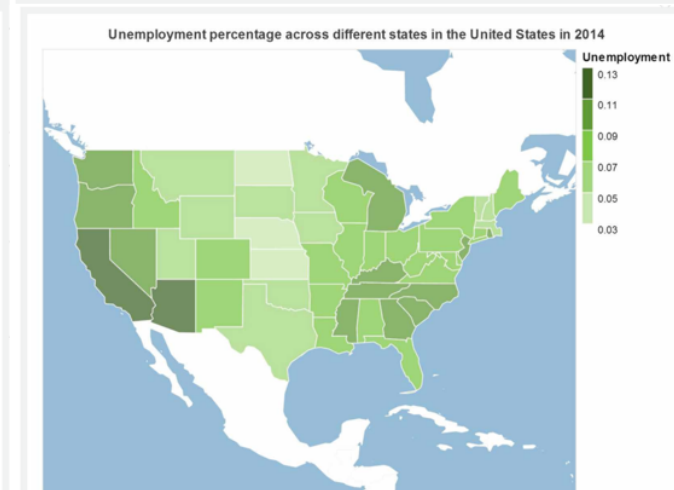
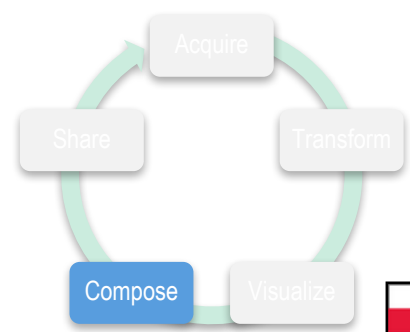


Figure 14: A Choropleth Map showing darker colors for larger data values.

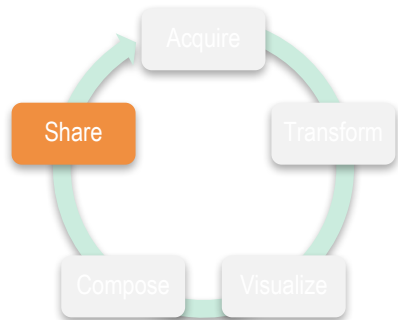
# Compose



Visualizations can be composed into infographics



# Share



Share to desktop, laptop, and tablet devices by publishing to the SAP BusinessObjects BI or Edge Platform



Note

Sharing requires SAP Lumira Integration for BI 4.x platform/Edge BI add-on

# Workflow



## SAP Lumira and Web Intelligence



**“Lumira has data preparation, composition and layout capabilities that go beyond what are available in Web Intelligence, allowing you to accomplish some of the tasks you would normally perform in Web Intelligence more quickly, more easily, and with more flexibility.”**

Source: Tom Woodhead, “Web Intelligence, Lumira and the SAP BI Convergence Strategy” (SCN, October 2015).  
<http://scn.sap.com/community/businessobjects-web-intelligence/blog/2015/10/26/web-intelligence-lumira-and-the-sap-bi-convergence-strategy>

## SAP Lumira and Web Intelligence (cont.)



**“In the future we see the two products coexisting, rather than one replacing the other. We see greater interoperability between Web Intelligence and Lumira to come.”**

Source: Tom Woodhead, “The Future of Web Intelligence and Lumira Interoperability” (SCN, October 2015).  
<http://scn.sap.com/community/lumira/blog/2015/10/29/the-future-of-web-intelligence-and-lumira-interoperability>

## What We'll Cover

- Why do we need another BI tool?
- Planning an SAP Lumira deployment
- Sizing the SAP Lumira in-memory database engine for your environment
- Installing SAP Lumira – platform requirements, scenarios, and server properties
- Setting the governance and security properties
- Monitoring SAP Lumira
- Benchmarking SAP Lumira
- What's coming in SAP Lumira 2.0?
- Wrap-up



# Lumira Prerequisites



## SAP BI Suite License

- Requires simplified BI Suite Licensing
- Issued with Named User License (NUL) and Concurrent Access License
- CPU licensing not available
- No hardware restrictions



## Windows 64-bit Desktop

- 64-bit Windows OS
  - Windows 7 SP1/8/8.1/10
- Minimum 3GB RAM but 4GB or higher recommended
- By default Lumira Desktop allocates 85% of the available memory of your machine at start up to the in-memory data engine

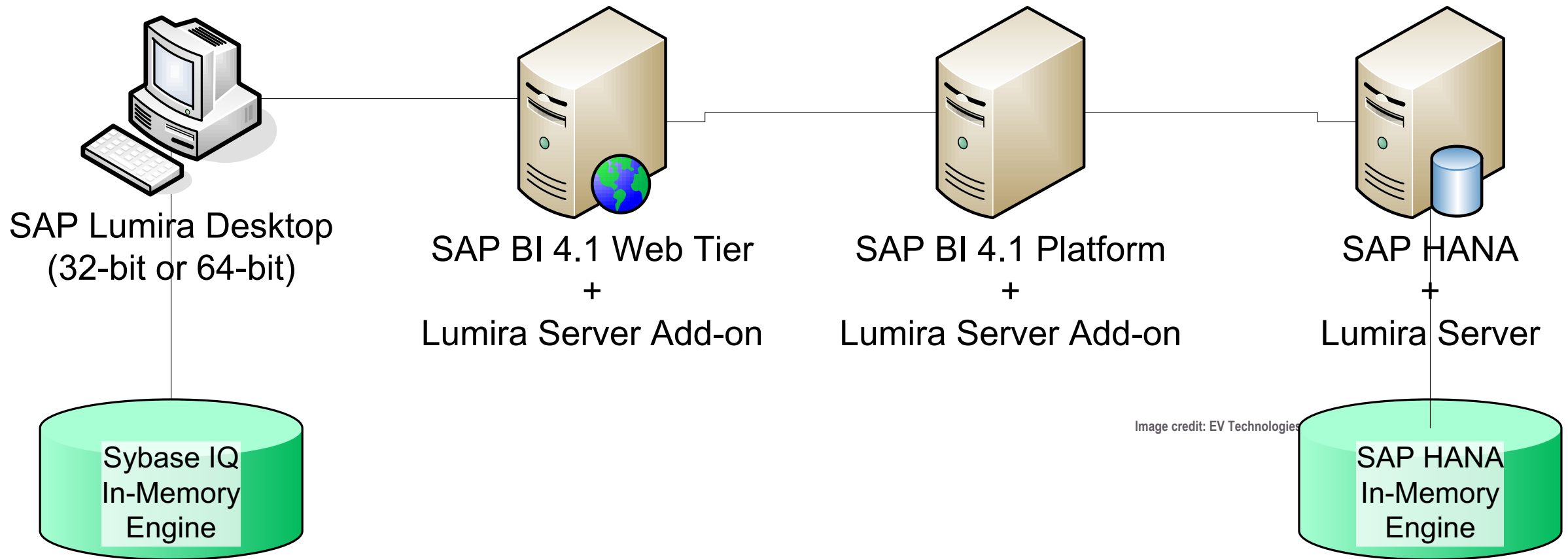


## Additional Server Hardware

- SAP Lumira uses its own in-memory database engine (formerly the Velocity engine)
- By default Lumira Server allocates 85% of the available memory of your machine at startup to the in-memory data engine
- Sizing is critical!



## SAP Lumira BI Platform Integration Circa 2014



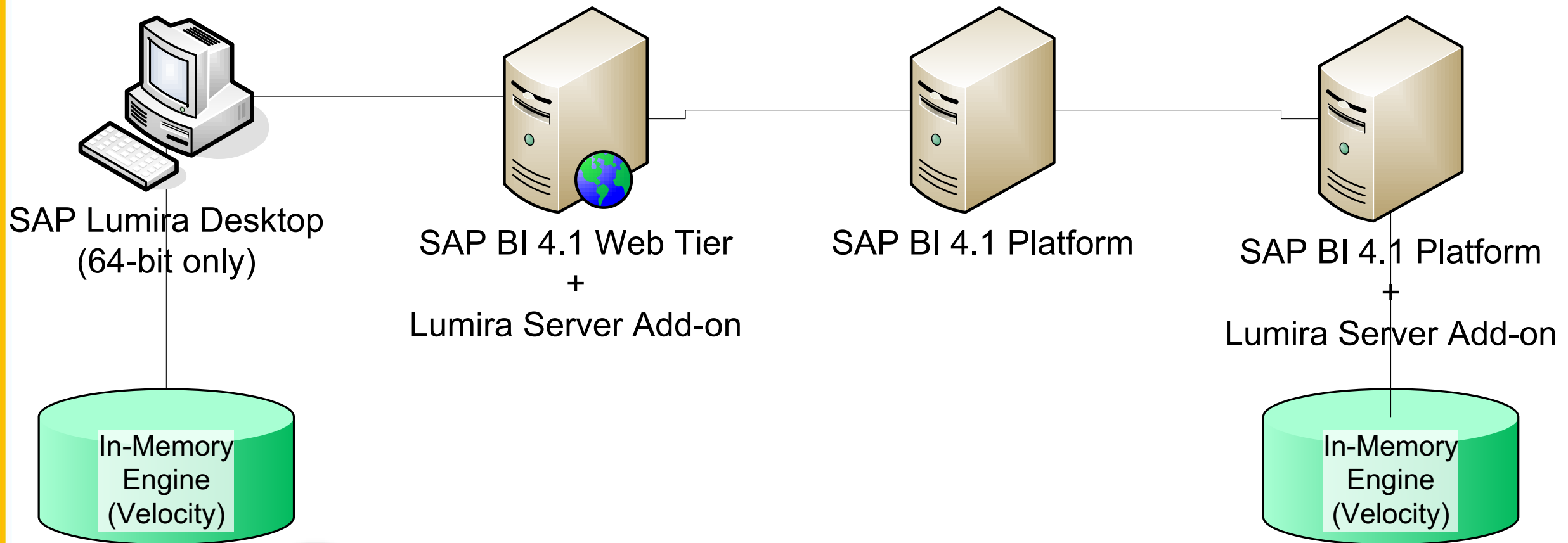
The original BI platform integration solution required Lumira Server, an SAP HANA application

# SAP Lumira BI Platform Integration



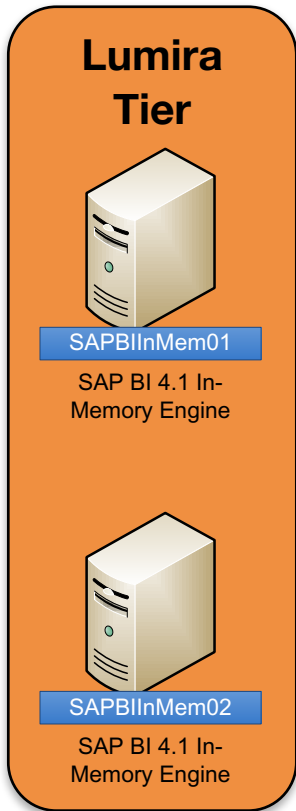
The original BI platform integration required Lumira Server, an SAP HANA application

# SAP Lumira BI Platform Integration Circa 2015

**NEW!**

The revised solution no longer requires SAP HANA!  
SAP HANA can be used as a on-line or off-line data source, if desired

## BI Platform Dependencies for SAP Lumira 1.31



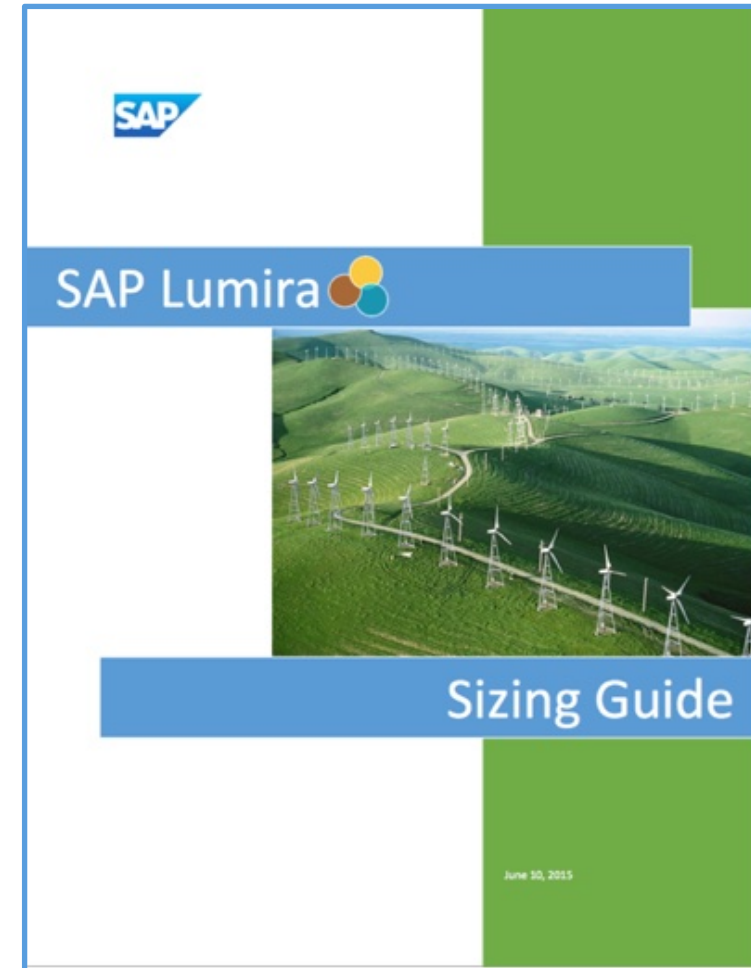
- Windows 2008/2012, SUSE Linux 11/12 and RedHat 6/7 support
- Robust web application server support
- Latest 1.31 release compatible with SAP BusinessObjects BI 4.1 SP06 or BI 4.2 SP02 and higher
- Some features require updates to the BI platform
  - ♦ Lumira desktop governance requires SAP BusinessObjects BI 4.1 SP05 or higher
  - ♦ Visualization and Data Access extensions in BI Platform are supported in BI 4.1 SP05 Patch 5 or higher
  - ♦ Lifecycle management requires SAP BusinessObjects BI 4.1 SP06 or higher
  - ♦ Auditing requires SAP BusinessObjects BI 4.1 SP07 or higher

## What We'll Cover

- Why do we need another BI tool?
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- Sizing the SAP Lumira in-memory database engine for your environment
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## SAP Lumira Sizing Guide

- SAP Lumira Sizing Guide available on SAP Community Network at <http://scn.sap.com/docs/DOC-53374>
- Latest edition dated June 10, 2015



## Sizing: Data Set Size

Maximum Cell Size (no. of rows * no. of columns)	Recommended Maximum Active Concurrent Users		
60,000,000	10	12	15
700,000	15	25	35
Recommended Configuration Scenario			
Minimum memory required (RAM in GB)	32	48	64
Minimum CPU Cores		24	24

First, estimate maximum cell size of data sets

Source: Lumira Sizing Guide, <http://scn.sap.com/docs/DOC-53374>

## Sizing: Active Concurrent Users

Maximum Cell Size (no. of rows * no. of columns)	Recommended Maximum Active Concurrent Users		
60,000,000	10	12	15
700,000	15	25	35
Recommended Configuration Scenario			
Minimum memory required (RAM in GB)	32	48	64
Minimum CPU Cores	8	24	24

**Second, estimate active concurrent users**

Source: Lumira Sizing Guide, <http://scn.sap.com/docs/DOC-53374>

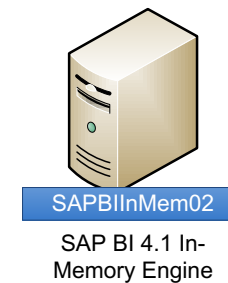
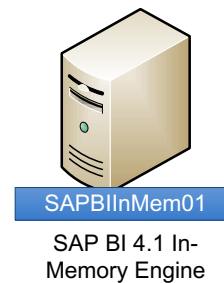


## Lumira Sizing Scenario #1

- Support 20 active concurrent users accessing 500,000 cell maximum data sets

Maximum Cell Size (no. of rows * no. of columns)	Recommended Maximum Active Concurrent Users		
60,000,000	10	12	15
700,000	15	25	35
Recommended Configuration Scenario			
Minimum memory required (RAM in GB)	32	48	64
Minimum CPU Cores	8	24	24

- 2 Nodes at 12 CPU/24 GB Each
- 24 CPU/48 GB Total



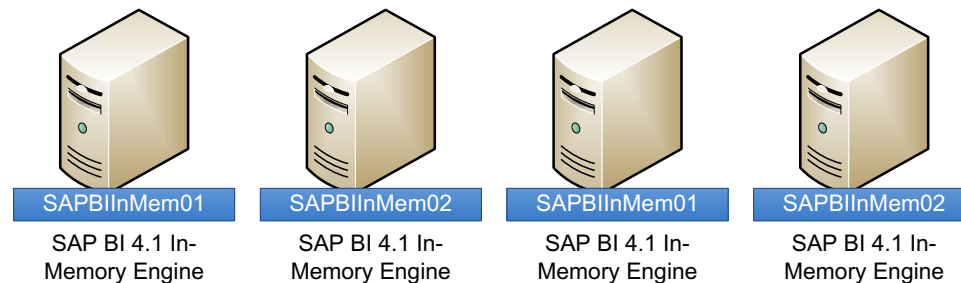
Source: Lumira Sizing Guide, <http://scn.sap.com/docs/DOC-53374>

## Lumira Sizing Scenario #2

- Support 100 active concurrent users accessing 1,000,000 cell maximum data sets

Maximum Cell Size (no. of rows * no. of columns)	Recommended Maximum Active Concurrent Users		
60,000,000	10	12	15
700,000	15	25	35
	Recommended Configuration Scenario		
Minimum memory required (RAM in GB)	32	48	64
Minimum CPU Cores	8	24	24

- 1 Node at 24 CPU/64 GB supports between 15 to 35 concurrent users
- Assume 25 concurrent users per node
- 4 nodes at 24 CPU/64 GB Each
- 96 CPU/256 GB Total



Source: Lumira Sizing Guide, <http://scn.sap.com/docs/DOC-53374>

## What We'll Cover

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- Wrap-up

# BI Platform Requirements

The Lumira in-memory engine WILL require additional hardware in your landscape

## Web Tier



SAPBIWeb01

SAP BusinessObjects  
BI web tier



SAPBIWeb02

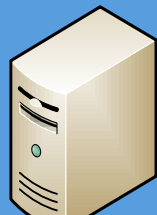
SAP BusinessObjects  
BI web tier

## Intelligence Tier



SAPBICMS01

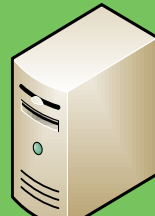
SAP BI 4.1 CMS



SAPBICMS02

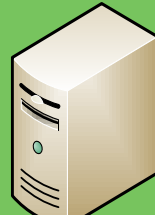
SAP BI 4.1 CMS

## Processing Tier



SAPBIProc01

SAP BI 4.1  
Processing



SAPBIProc02

SAP BI 4.1  
Processing

## Explorer Tier



SAPBIExplorer01

SAP BI 4.1 Explorer



SAPBIExplorer02

SAP BI 4.1 Explorer

## Lumira Tier



SAPBIInMem01

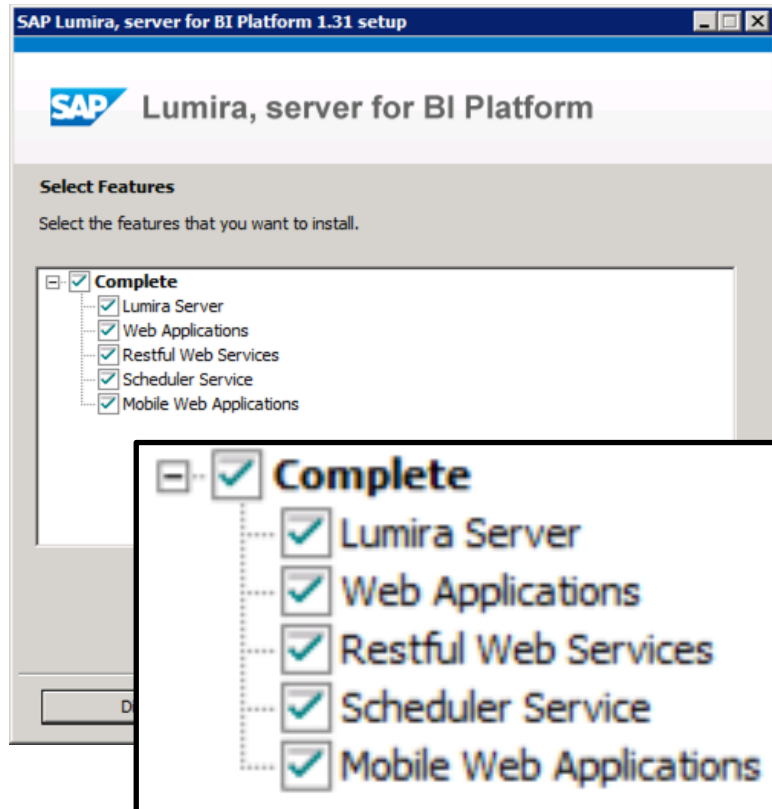
SAP BI 4.1 In-  
Memory Engine



SAPBIInMem02

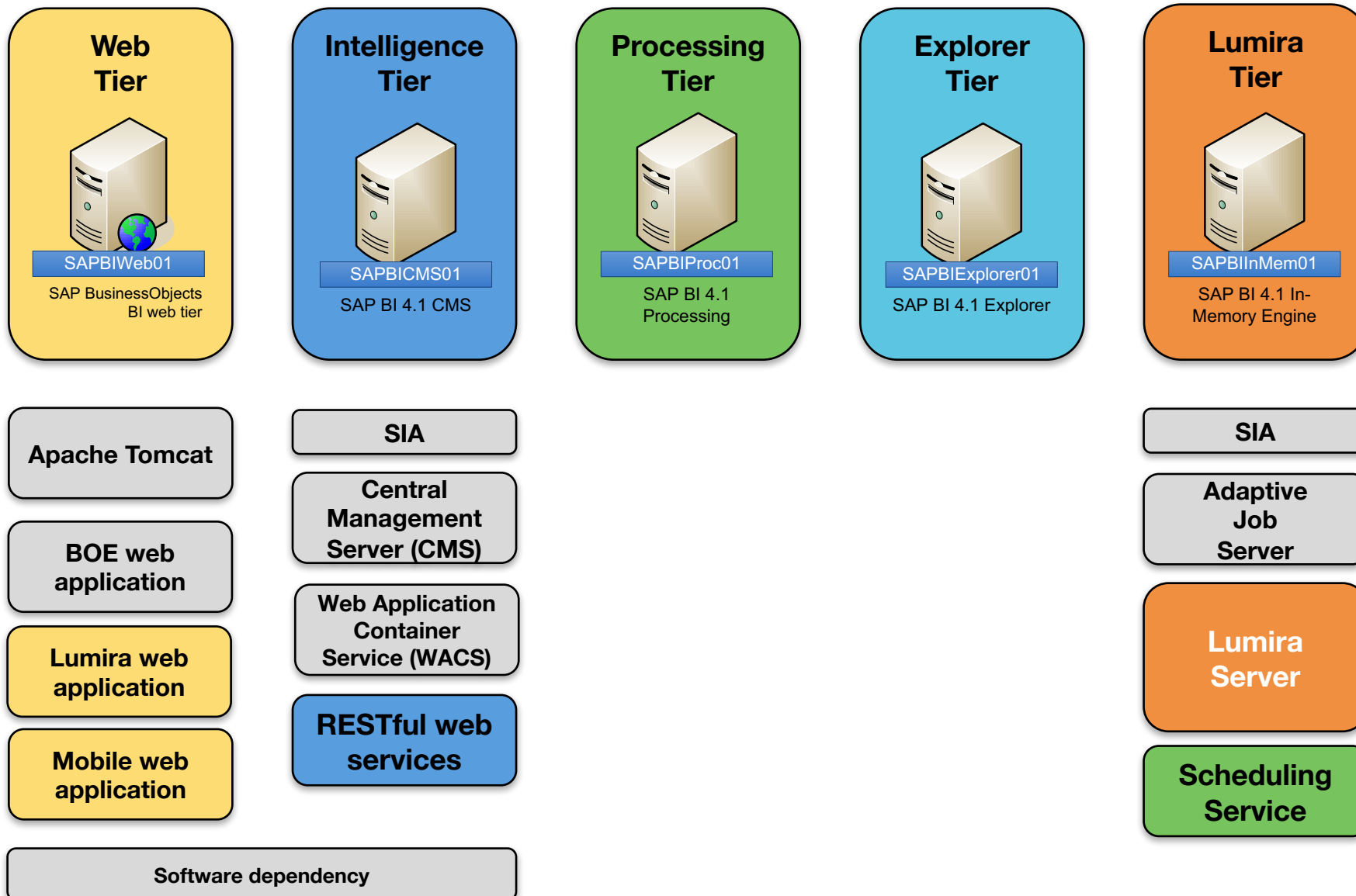
SAP BI 4.1 In-  
Memory Engine

# Lumira BI Server Add-on Installation

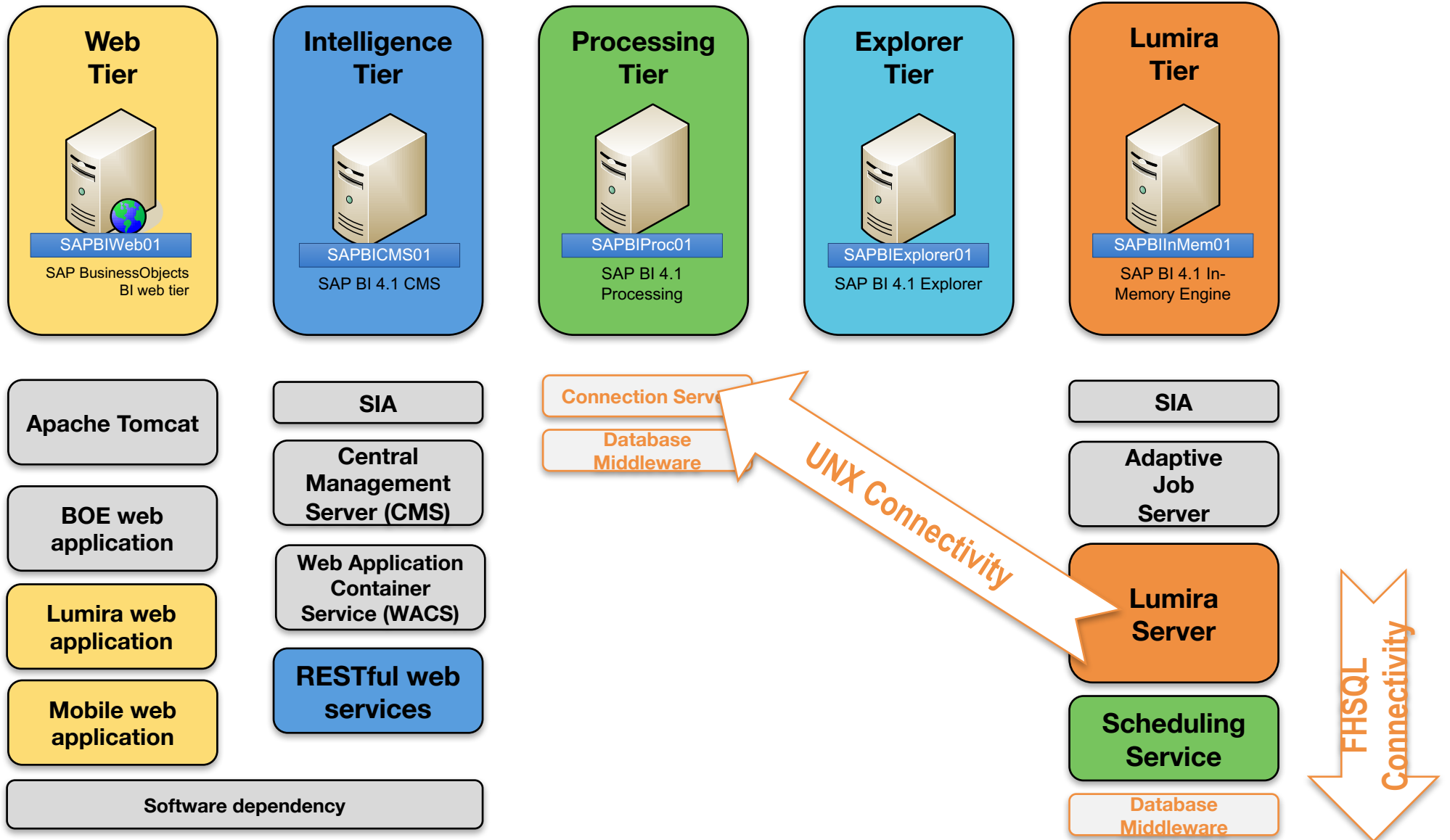


- **Lumira Server**
  - The Lumira in-memory engine, which is a specialized Adaptive Processing Server, to handle Lumira service requests
- **Web Applications**
  - User interface to view and refresh Lumira content from BI Launch Pad
- **Restful Web Services**
  - Services that permit Lumira Desktop to communicate with the BI platform
- **Scheduler Service**
  - Allows Lumira content to be scheduled for refresh on the BI platform
- **Mobile Web Applications**
  - Web applications that enable Mobile BI support (requires Mobile BI 6.4 and higher)

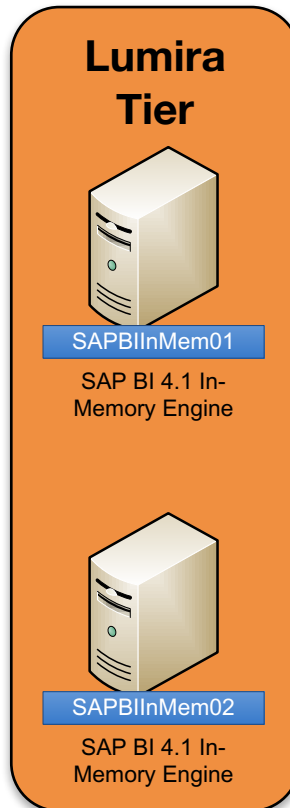
# Lumira Installation



# Database Connectivity



# Lumira Server Properties



Caution

**Properties: EVTBOBJ416.LumiraServer**

Hide Navigation

- Properties
- User Security
- Metrics
- Placeholders
- Existing Server Group

Server Name: EVTBOBJ416.LumiraServer

ID, CUID: 6219 , AQVPfwz8qQVAsYP5XnOniY

Node: EVTBOBJ416 (evtbobj416, EVTBOBJ416\$)

Description: Lumira Server

Command Line Parameters

```
-Dcom.wily.introscope.agent.agentName=LS_EVTBOBJ416.LumiraServer "-  
Dcom.wily.introscope.agentProfile=C:/BusinessObjects/SAP BusinessObjects Enterprise XI  
4.0/java/wily/EVTBOBJ416.LumiraServer.profile" "-javaagent:C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/java/wily/Agent.jar"  
Enterprise XI 4.0/logging/LS_EVTBOBJ416.LumiraServer_dump_@PID.log" -Xms512m  
-Xmx10g -XX:MaxPermSize=1024m -XX:+UseParallelOldGC -  
XX:+HeapDumpOnOutOfMemoryError "-XX:HeapDumpPath=C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/logging/" -XX:+ExitVMOnOutOfMemoryError -Xrs -  
Djava.net.preferIPv4Stack=false -Dload.modules=false -  
-name EVTBOBJ416.LumiraServer -pidfile "C:/BusinessObjects/SAP BusinessObjects  
Enterprise XI 4.0/serverpids/EVTBOBJ416_EVTBOBJ416.LumiraServer.pid" -ns  
evtbobj416:6400
```

Common Settings

Request Port:  ☒ Auto assign

Host Identifiers:

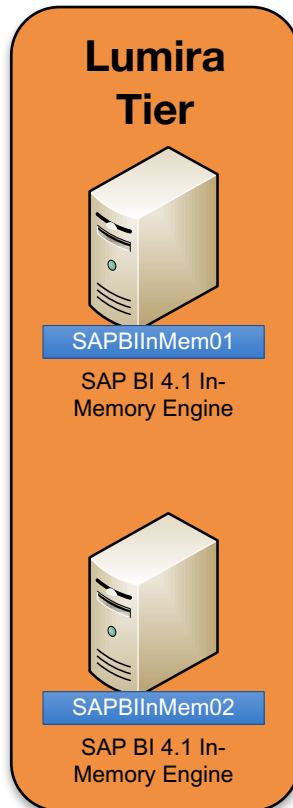
Save Save & Close Cancel

Review Java  
heap size  
(Xms and Xmx)

By default Lumira Server allocates 85% of the available memory of your machine at startup to the in-memory data engine



## Lumira Server Properties (cont.)



*TeamServer PJS Service (Transport/OCA2)*

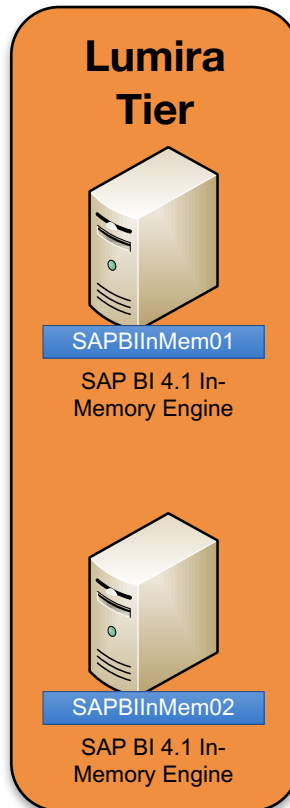
This service has no configuration property.

No other Lumira-specific properties to set!

### Adaptive Processing Server Metrics

Available Processors	8
Maximum Memory (MB)	9,102.25
Free Memory (MB)	282.911
Total Memory (MB)	511.062
Services	Auditing Service, TeamServer PJS Service (Transport/OCA2), TraceLog Service
Threads in Transport Layer	4
Transport Layer Thread Pool Size	4

## Lumira Server Properties (cont.)



**Properties: EVTBOBJ416.LumiraServer**

Hide Navigation

- Properties
- User Security
- Metrics
- Placeholders
- Existing Server Group

Server Name: EVTBOBJ416.LumiraServer

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Description: Lumira Server

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Dcom.wily.introscope.agentProfile=C:/BusinessObjects/SAP BusinessObjects Enterprise XI  
4.0/java/wily/EVTBOBJ416.LumiraServer.profile" "-javaagent:C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/java/wily/Agent.jar"  
Enterprise XI 4.0/logging/LS_EVTBOBJ416.LumiraServer_dump_@PID.log" -Xms512m  
-Xmx10g -XX:MaxPermSize=1024m -XX:+UseParallelGC -  
XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/logging/ -XX:+UseMantleOnTerminationError -Xrs -  
Djava.net.preferIPv4Stack=false -Dload.modules=false -  
-name EVTBOBJ416.LumiraServer -pidfile "C:/BusinessObjects/SAP BusinessObjects  
Enterprise XI 4.0/serverpids/EVTBOBJ416_EVTBOBJ416.LumiraServer.pid" -ns  
evtbobj416:6400
```

Common Settings

Request Port:  ☒ Auto assign

Host Identifiers:

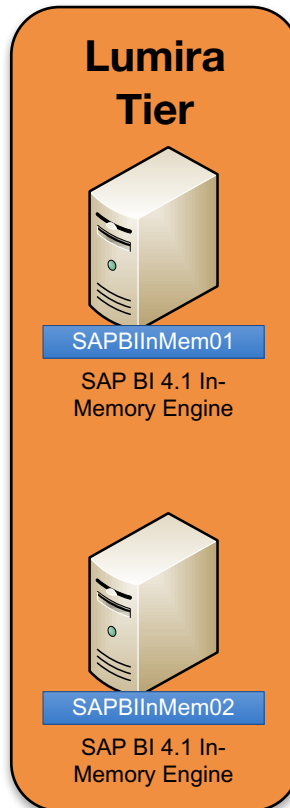
Save Save & Close Cancel



Note

Maximum number of cells that can be exported as data from visualization:  
default 10,000,000 or **-Dhilo.recordsview.maxcells=<value>** on command line

## Lumira Server Properties (cont.)



**Properties: EVTBOBJ416.LumiraServer**

Hide Navigation

- Properties
- User Security
- Metrics
- Placeholders
- Existing Server Group

Server Name: EVTBOBJ416.LumiraServer

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Dcom.wily.introscope.agentProfile=C:/BusinessObjects/SAP BusinessObjects Enterprise XI  
4.0/java/wily/EVTBOBJ416.LumiraServer.profile" "-javaagent:C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/java/wily/Agent.jar"  
Enterprise XI 4.0/logging/LS_EVTBOBJ416.LumiraServer_dump_@PID.log" -Xms512m  
-Xmx10g -XX:MaxPermSize=1024m -XX:+UseParallelGC -  
XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=C:/BusinessObjects/SAP  
BusinessObjects Enterprise XI 4.0/logging -XX:+UseMantleOnTerminationError -Xrs -  
Djava.net.preferIPv4Stack=false -Dload.modules=false -  
-name EVTBOBJ416.LumiraServer -pidfile "C:/BusinessObjects/SAP BusinessObjects  
Enterprise XI 4.0/serverpids/EVTBOBJ416_EVTBOBJ416.LumiraServer.pid" -ns  
evtbobj416:6400
```

Common Settings

Request Port:  ☒ Auto assign

Host Identifiers:

Save Save & Close Cancel



Note

Maximum number of data points supported in Lumira visualization:  
default 10,000 data points or **-Dhilo.maxvizdatasize=<value>** on command line

## What We'll Cover

- Why do we need another BI tool?
- Planning an SAP Lumira deployment
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# Lumira Governance - obsolete features

**Lumira Properties**

Hide Navigation

Properties  
Extensions  
User Security

**Lumira Properties**

SAP Lumira Cloud

☒ Allow user editing of URL

URL:

SAP Lumira Server

☒ Allow user editing of URL

URL:

SAP BI Server

☐ Allow user editing of URL

URL:

SAP Lumira Updates

☐ Off  
☒ On

Update Server URL:

Save Save & Close Cancel



Caution

**SAP Lumira Cloud and SAP Lumira Server (HANA) have been depreciated. Expect these options to disappear in future BI4 support pack.**

## Lumira Governance (cont.) – governed BI connectivity

**Lumira Properties**

Hide Navigation

- Properties
- Extensions
- User Security

**Lumira Properties**

SAP Lumira Cloud

☒ Allow user editing of URL

URL:

SAP Lumira Server

☒ Allow user editing of URL

URL:

**SAP BI Server**

☐ Allow user editing of URL

URL:

SAP Lumira Updates

☐ Off

☒ On

Update Server URL:

Save Save & Close Cancel



Heads-Up

**SAP Lumira connects to the BI platform via the WACS server (biprws)**

## Lumira Governance (cont.) – SAP Lumira Updates

**Lumira Properties**

Hide Navigation

- Properties
- Extensions
- User Security

**Lumira Properties**

SAP Lumira Cloud

☒ Allow user editing of URL

URL:

SAP Lumira Server

☒ Allow user editing of URL

URL:

SAP BI Server

☐ Allow user editing of URL

URL:

SAP Lumira Updates

☐ Off

☒ On

Update Server URL:

Save Save & Close Cancel



Heads-Up

**Managed updates feature requires  
SAP BI 4.1 Support Pack 5 or higher**

# Lumira Governance — SAP Lumira Updates

## biupdates.xml

```
<?xml version='1.0' encoding='utf-8'?>
<!-- biupdates.xml for SAP Lumira Desktop updates -->
<!-- See SAP KB 2243825 - How to Set Up Lumira Desktop Auto Update Server -->
<stretch-updates schema="1">
  <!--SAP Lumira-->
  <product id="67837800100900006823">
    <latest>
      <version revision="1.29.2.97" />
      <location url="http://yourwebserver:8080/LumiraUpdates/SAPLUMIRA6429_0-20009491.EXE"/>
      <description>SAP Lumira version 1.29.2.97</description>
      <release-note url="http://yourwebserver:8080/LumiraReleaseNote/" />
    </latest>
  </product>
</stretch-updates>
```



Heads-Up

**This file (and the Lumira update) is not required to be maintained on the BI platform and could be on a corporate intranet, if desired**



## LumiraGovernance.properties – governing the desktop

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



Heads-Up

This file must be placed on each user's desktop

# Lumira Access Rights

**Included Rights: Lumira**

**Rights Collections**

- General
- Content
  - Adobe Acrobat
  - Agnostic
  - Analysis Application
  - Analysis Presentation
  - Analysis View
  - Analysis Workbook
  - Analysis Workspace
  - BI workspace
  - Crystal Reports
  - Dashboards
  - Desktop Intelligence
  - Desktop Intelligence Report
  - Flash
  - Folder
  - FullClientAddin
  - FullClientTemplate
  - Hyperlink
  - Lumira Document**
  - Microsoft Excel
  - Microsoft PowerPoint

**Specific Rights for Lumira Document**

Right	Refresh right	Refresh right (owner right)
Refresh right	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Refresh right (owner right)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**General Rights for Lumira Document**

**Included Rights: Lumira**

**Rights Collections**

- General
- Content
  - Adobe Acrobat
  - Agnostic
  - Analysis Application
  - Analysis Presentation
  - Analysis View
  - Analysis Workbook
  - Analysis Workspace
  - BI workspace
  - Crystal Reports
  - Dashboards
  - Desktop Intelligence
  - Desktop Intelligence Report
  - Flash
  - Folder
  - FullClientAddin
  - FullClientTemplate
  - Hyperlink
  - Lumira Document**
  - Microsoft Excel
  - Microsoft PowerPoint

**Specific Rights for SAP Lumira**

Right	Dataset source rights - Connect to SAP BW	Dataset source rights - Connect to SAP HANA	Dataset source rights - Copy from Clipboard	Dataset source rights - Download from SAP HANA	Dataset source rights - External Data Sources
Dataset source rights - Connect to SAP BW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dataset source rights - Connect to SAP HANA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dataset source rights - Copy from Clipboard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dataset source rights - Download from SAP HANA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dataset source rights - External Data Sources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**General Rights for SAP Lumira**

**Share rights - Print Visualization**

**Share rights - Publish to Explorer**

**Share rights - Publish to Lumira Cloud**

**Share rights - Publish to Lumira Server**

**Share rights - Publish to SAP BI**

**Share rights - Publish to SAP HANA**

**Share rights - Publish to SAP Streamwork**

**General Rights for SAP Lumira**

**There are content rights *and* application rights for Lumira**

OK Cancel



Tip

Plan on creating at least one custom access level for Lumira users




# Lumira Security

**User Security: SAP Lumira**

Hide Navigation

Properties  
User Security

Add Principals Remove View Security Assign Security

	Name	Full Name	Type	Access
	Administrators		User Group	Full Control
	Everyone		User Group	View
	SMAAdmin		User	No Access

Reset Security Settings



Tip

By default, everyone can see the Lumira application. This can be replaced with a custom access level.

## What We'll Cover

- Why do we need another BI tool?
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- Setting the governance and security properties
- Monitoring SAP Lumira
- What's coming in SAP Lumira 2.0?
- Wrap-up

## Monitoring SAP Lumira



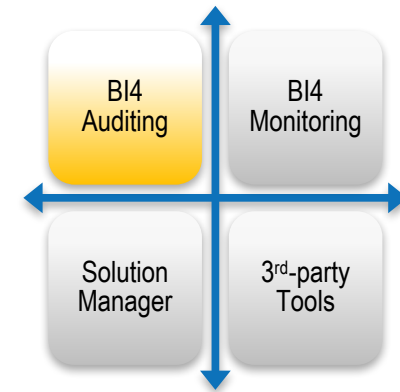
Best Practice

Monitoring is accomplished using a sturdy “four-legged stool” of built-in platform features, add-ons from SAP and add-ons from third-party vendors



## Monitoring SAP Lumira using BI4 Auditing

- The SAP BI auditing database records discrete events. When these events are aggregated, they provide rich information about how BI environment is used.
- SAP Lumira auditing introduced with SAP Lumira 1.29 and BI 4.1 SP7

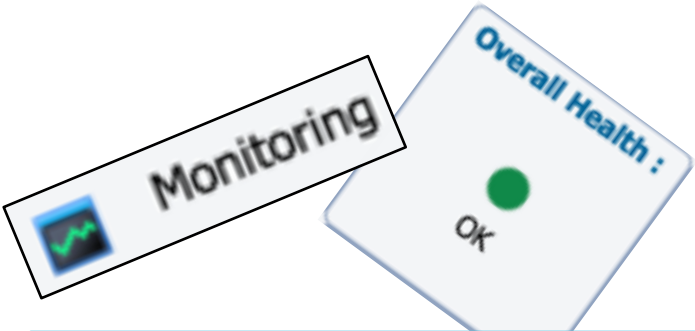


Where to  
Find it

See “Unlock the Auditing database with a new Universe and Web Intelligence Documents for BI4.1” by Matthew Shaw

<http://scn.sap.com/community/bi-platform/blog/2015/07/15/unlock-the-auditing-database-with-a-new-universe-and-web-intelligence-documents-for-bi41>

# Monitoring SAP Lumira using BI4 Monitoring



EVTBOBJ416.LumiraServer
Available Processors
Current Number of Auditing Events in the Queue
Free Memory _MB_
Health State
Maximum Memory _MB_
Server Enabled State
Server Running State
Threads in Transport Layer
Total Memory _MB_
Transport Layer Thread Pool Size

Service Metrics

The SAP BI monitoring engine continuously monitors system health and can notify administrators when situations requiring attention occur.

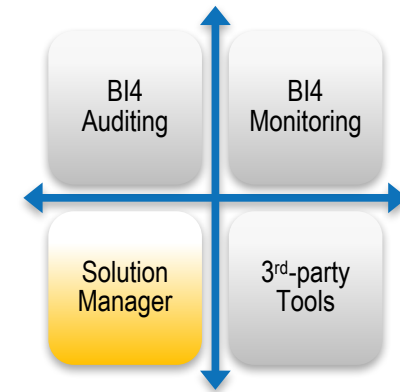


Status ▾	Watches	Attributes
●	EVTBOBJ416.LumiraServer Watch	
●	LumiraServer Services Watch	

Default Watches for Lumira service category and Lumira servers

# Monitoring SAP Lumira using Solution Manager

- SAP Extended Diagnostics is powered by Computer Associates' Application Performance Monitoring (APM), formerly known as Wily Introscope.
- The APM engine is integrated into Solution Manager. It can also be deployed independently for organizations who do not use Solution Manager.
- CA APM provides fine-grained information about resource utilization and is invaluable for validating sizing assumptions and troubleshooting.



For organizations that do not utilize SAP Solution Manager, SAP has provided a free, limited license to CA APM Introscope, which is embedded inside Solution Manager.

See “A complete guide to setup CA APM Introscope 9 for monitoring SAP BI Platform 4.1 on Windows [Part 1/2]” by Toby Johnston

<http://scn.sap.com/community/bi-platform/blog/2014/01/31/a-complete-guide-to-setup-ca-apm-introscope-9-for-monitoring-sap-bi-platform-41-on-windows>




Where to  
Find it



# Monitoring SAP Lumira using SAP Partner Solutions

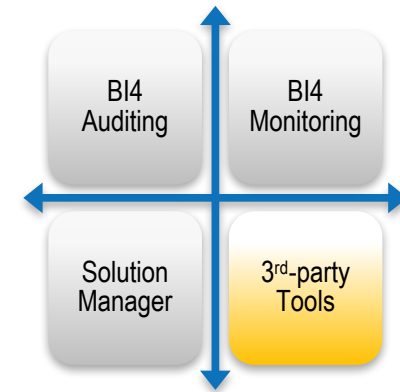
**SAP** Analytics Extensions Directory

Login 

The world of SAP Analytics partner extensions at your fingertips

Learn about our full range of delightful software extensions specifically created by SAP partners for SAP Analytics products.

Note: SAP cannot accept responsibility nor does SAP provide maintenance (or hotline) services for partner, community extensions. We at SAP do not routinely review and certify partner extensions. Certification is done based on partner request. Please see our Terms of Use and FAQ.



Where to  
Find it

A number of partner solutions to monitor the SAP BI platform are available in the SAP Analytics Extensions Directory.

<https://analytics-extensions.enter.sap>

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# Convergence of Lumira and Design Studio

SAP BusinessObjects Lumira  
SAP BusinessObjects Explorer

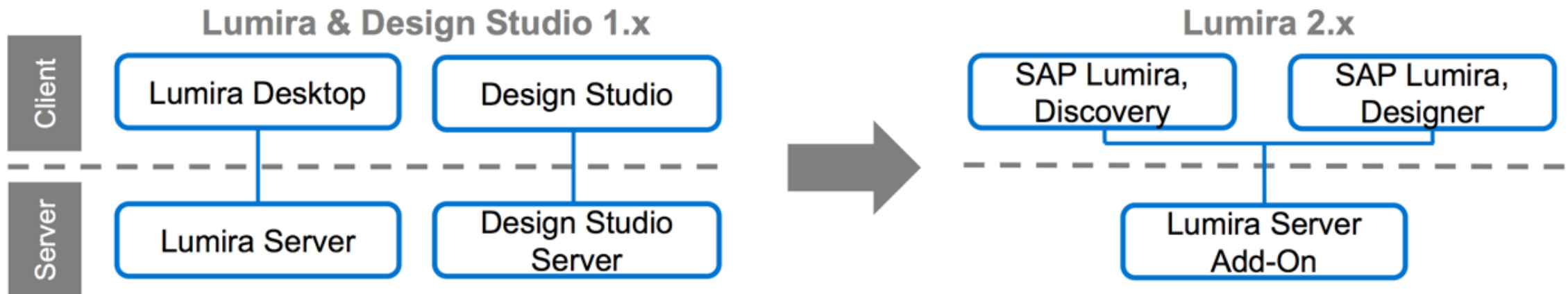
SAP BusinessObjects Design Studio  
SAP BEX Web Application Designer  
SAP BusinessObjects Analysis for OLAP  
SAP BusinessObjects Dashboards

## Lumira 2.x

Lumira, discovery (formerly Lumira Desktop)  
Lumira, designer (formerly Design Studio)  
Single server-side add-on



## Data Discovery & Applications



This is the current state of planning and may be changed by SAP at any time.

Slide courtesy of SAP

## What's Coming in Lumira 2.0?

**Significant UX redesign for an optimized user experience**

- Consolidated visualize and compose room
- Single canvas experience like BusinessObjects Cloud
- Fiori-style look and feel
- Improved input control and filtering experience
- Fine grained control over chart elements(fonts , colors, etc.)
- Enhanced Productivity with reduced learning curve
- Aligned with S4/UI standards



Where to  
Find it

**Check the SAP Insider BI2017 agenda for additional sessions about Lumira 2.0**

## What's *NOT* Coming in Lumira 2.0?

**Almost all Lumira 1.x content is compatible with Lumira 2.0. Exceptions are:**

- ♦ Bookmark functionality will need to be re-authored to leverage the Lumira 2.0 bookmark concept
- ♦ HANA connections will need to be re-authored to use the new INA-based HTTP connector

**Lumira 1.x features that will not be in 2.0 are:**

- ♦ Faceted analysis on the visualize tab
- ♦ Forecasting and linear regression
- ♦ Governing the desktop from the CMC
- ♦ Related visualization & influence analysis

**All Design Studio 1.x content is compatible with Lumira 2.0**

**All Design Studio 1.x features are supported in Lumira 2.0**

**Lumira 2.0 will support BI Platform 4.1 SP07 and BI Platform 4.2 SP02 or later**

**Deploying the Lumira 2.0 server to HANA or NetWeaver is not supported**



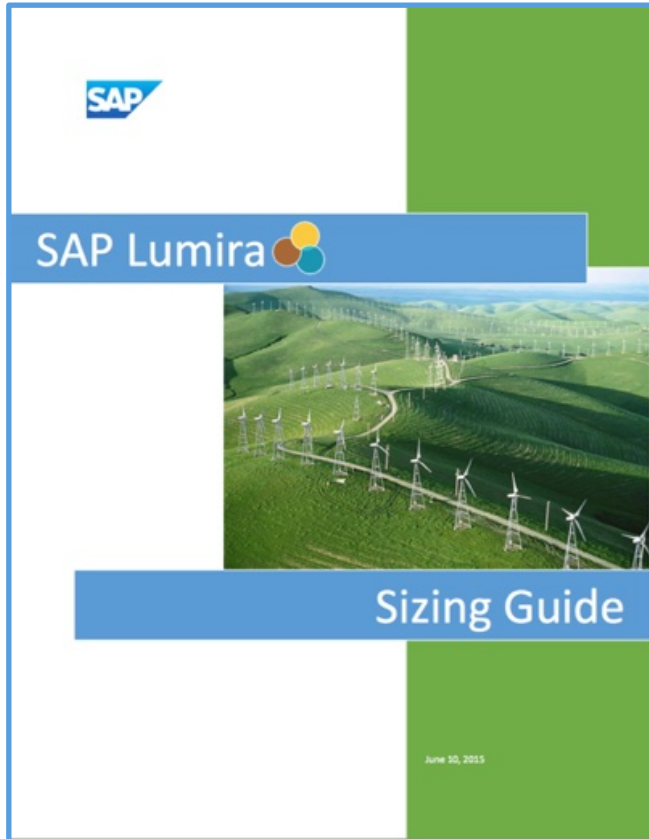
Heads-Up

**These features are not being retired but simply could not be achieved for the SAP Lumira 2.0 release. They are planned for SAP Lumira 2.1.**

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## Where to Find More Information



### SAP Lumira Enablement on SAP Community

<http://scn.sap.com/docs/DOC-55921>

### SAP Lumira Product Tutorials on SAP Community

<http://scn.sap.com/docs/DOC-26507>

### Using SAP Lumira on Universes? Guide for BI administrators

<https://blogs.sap.com/2015/10/14/using-sap-lumira-on-universes/>

### SAP BI Platform Tutorials on SAP Community (contains process flows for Lumira documents)

<http://scn.sap.com/docs/DOC-8292>

### SAP Lumira Sizing Guide on SCN

<http://scn.sap.com/docs/DOC-53374>

### SAP Lumira and Design Studio Convergence

<https://blogs.sap.com/2016/05/20/sap-lumira-and-design-studio-convergence/>

## 7 Key Points to Take Home

- SAP Lumira is only available to BI platform customers through BI suite licensing, not older component-based licensing. Edge BI customers prior to mid-2014 can license the BI platform add-on. It is included for customers who licensed Edge BI after mid-2014.
- SAP Lumira requires additional hardware for your existing BI platform and 64-bit Windows for your desktop users.
- SAP Lumira no longer requires HANA as pre-requisite but can access or acquire data from HANA.
- Beginning with SAP Lumira 1.29, ESRI geomapping functionality is included and no longer requires additional licensing for location analytics.
- SAP Lumira does not use shared BI components such as DSL Server. Consult process flows on SAP Community to assist in troubleshooting.
- Because Lumira software is relatively new, customers must size carefully and monitor the add-on after go-live using auditor, the monitoring engine, Solution Manager/CA ADM, and third-party tools.
- SAP Lumira 2.0 will converge SAP Lumira and SAP Design Studio into a single product with two personalities, one for business analysts and the other for developers.



## Your Turn!



**Questions?**

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**Twitter: [@DallasMarks](https://twitter.com/DallasMarks)**



**Please remember to complete your session evaluation**