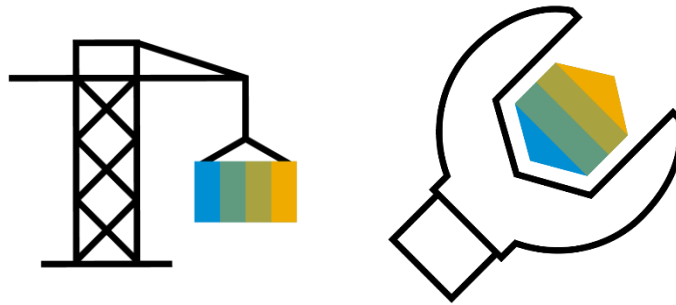


SAP BI Pattern Book Series

SAP Lumira 2.0 Pattern Book



Abstract:

This pattern book covers the two important workflows in deploying SAP Lumira 2.0 release – **Updating** the Lumira & Design Studio 1.x add-ons to SAP Lumira 2.0 add-on AND **Converting** Lumira & Design Studio 1.x documents to SAP Lumira 2.0 version.

Disclaimer:

- This pattern book is for informational purpose only and should not be copied / reproduced without the written permission of SAP.
- The information provided in this book is based on the SAP BI Pattern Books project for a specific set of patterns / use cases executed/applied on a copy of one of our customer's actual BusinessObjects landscape within SAP labs environment. Hence, make sure to review and apply the steps that are applicable to your use cases or patterns, based on your SAP BusinessObjects BI landscape.
- Contents of this, or any related document and SAP's strategy and possible future developments, products, and or platforms directions and functionality that are discussed in this book are all subject to change and may be changed by SAP at any time for any reason without notice. Therefore, read the latest official product guides, release notes to understand the differences before executing any workflow or deploying any software components.

For further comments and questions, email to SAPEnableBI@sap.com

Version History:

Version No.	Scope	Date
1.0	First release version.	11 th Dec 2017
2.0	Updated version – software download center details updated under 'Updating Lumira Node' section from page 8 to page 10.	11 th Apr 2018

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Introduction

What is SAP BI Pattern Books?

SAP BI Pattern Books initiative is aimed at producing technical manuals with step-by-step instructions on how to deploy, configure, test, and upgrade SAP BusinessObjects BI software using a set of live examples, use cases, and patterns and how these use cases are technically executed / implemented on our customer landscapes.

Project Scope

We focus on two major workflows in this pattern book;

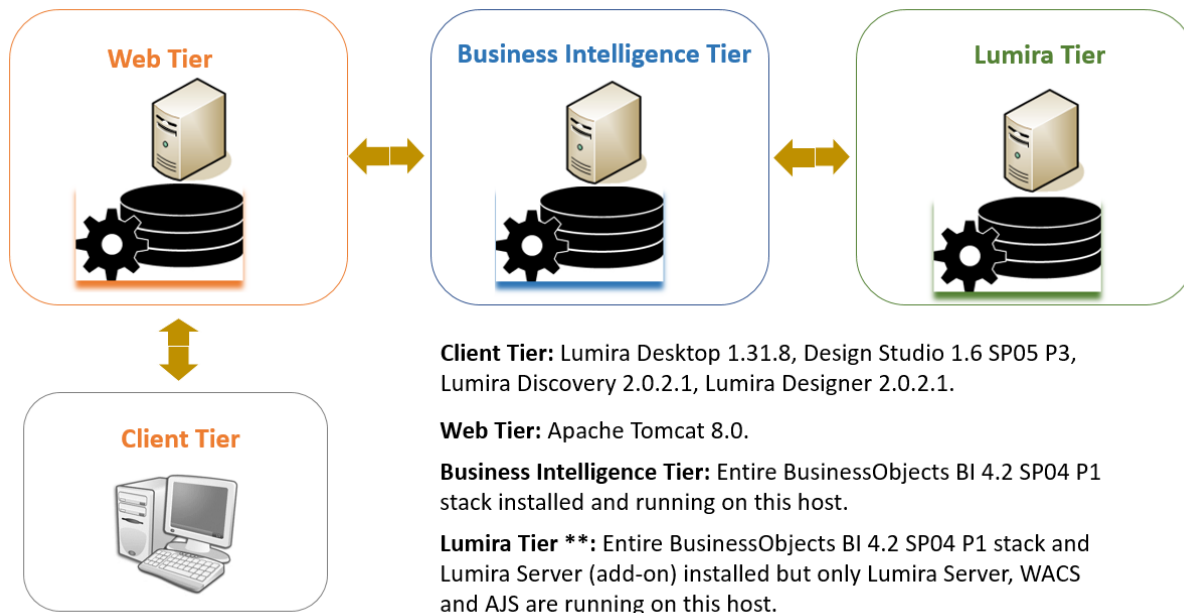
1. How can we explain and capture the important steps around updating Lumira 1.x and Design Studio 1.x add-ons to Lumira 2.0 using a live BI environment?
2. What are the important things to know while getting ready to convert the 1.x documents to Lumira 2.0 version?

Also, we thought it's a great opportunity to share with you all the issues, challenges that we faced while executing this project and importantly, the useful resources that helped complete this project successfully – all in one place (yes, in one document called Pattern Book).

BOE System Architecture

Technical Architecture

There is a three-server clustered architecture used in this pattern book project with the separation of Web, BI and Lumira tiers;



****Note:** There is a reason and need to install the full BusinessObjects BI stack on the Lumira Server. This is explained in the Add-On Update workflow section of this pattern book.

Note: Here, it is important to note down the list of components/features that are running on each of the nodes in your deployment.

System Specifications

Hardware Specifications:	Each server is configured with 8 cores and 16 GB RAM
Software Components & Version:	Operating System – Windows Web Application Server – Apache Tomcat BusinessObjects BI Platform – BI 4.2 SP04 Patch 01 Lumira Add-on - Lumira Server for BIP 2.0 SP02 Patch1 Lumira Client ** – SAP Lumira 2.0 SP02 Patch1, Lumira Desktop 1.31.8, Design Studio 1.6 SP05 Patch3
Lumira Features Installed:	BI Node – RESTful Web Services Lumira Node – Lumira Server, RESTful Web Services, Schedule Service Web Node – Web Applications, Mobile Web Applications

****Note:** The Lumira and Design Studio 1.x versions are relevant before updating the landscape and Lumira 2.0 plays a role post updating the server add-ons.

Updating Server Add-on

There are five major steps in this workflow of updating the Lumira 1.x and Design Studio 1.x server add-on components to Lumira Server 2.0 add-on;

1. Performing Add-on Update on Lumira Node
2. Performing Add-on Update on BI Node
3. Performing Add-on Update on Web Node
4. Installing Lumira Discovery
5. Installing Lumira Designer

Let's now look at how these steps are executed and the important things to note while executing these steps.

Note: It is strongly recommended to perform the backup of the entire BI platform before running the Lumira Server add-on upgrade (update). For more details, refer the SAP Note – 1275068 - <https://launchpad.support.sap.com/#/notes/1275068>

Updating Lumira Node

In this step, we are going to update the server that hosts Lumira Server add-on from version 1.3x to Lumira Server 2.0 SP02 Patch1 add-on version;

Note: Note that we are using the 'patch' update as we've both Lumira 1.31 and Design Studio 1.6 in our landscape. But if you have only 'Design Studio add-on, then you use the 'full installer'. Refer the following blog post for more information - <https://blogs.sap.com/2017/05/19/updating-sap-businessobjects-bi-platform-to-lumira-2.x/>

Best practice alert: Before you start the update process, we strongly recommend you to make a note of the folder where your Lumira 1.x documents are stored before performing the update. Because you will need that info later to copy them post add-on update.

1. Download the 'Lumira Server for BI Platform 2.0 SP02 Patch1 Update' software package from the software download center under 'Support Packages and Patches';

SBOP LUMIRA SERVER FOR BIP 2 (SUPPORT PACKAGES AND PATCHES) / COMPRISED SOFTWARE COMPONENT VERSIONS / SBOP LUMIRA SERVER FOR BIP 2.0 / OPERATING SYSTEM

DOWNLOADS INFO ECCN INFO

1 Multispanning: Packages that are larger than 4 GB will be packed in an archive, which is split into 4 GB parts. All archives need to be downloaded and unpacked. For more details on multispanning and how to extract the multi-part .exe archive on UNIX See SAP Note 886535.

Items Available to Download (3) WINDOWS ON X64 64BIT

Selected Items (0)							
<input type="checkbox"/>	Name	Patch Level	File Type	File Size	Release Date	Change Date	Related Info
<input type="checkbox"/>	LS4BIP03_0-70002327.EXE SP03 for SBOP LUMIRA SERVER FOR BIP 2.0 Update	0		1030633 KB	11/13/2017	11/13/2017	
<input type="checkbox"/>	LS4BIP02P_1-70002327.EXE SBOP LUMIRA SERVER FOR BIP 2.0 SP02 Patch1 Update	1		993376 KB	09/28/2017	09/28/2017	
<input type="checkbox"/>	LS4BIP02_0-70002327.EXE SP02 for SBOP LUMIRA SERVER FOR BIP 2.0 Update	0		993436 KB	08/14/2017	08/14/2017	

(*) for validation only

Save it to a directory.

Note: We used Lumira 2.0 versions on this Pattern Book but if you want to use other Lumira versions installers you may see the download instructions for Lumira Server and Clients here:

First at all, go the SAP Software Downloads page :

<https://launchpad.support.sap.com/#/softwarecenter>

Downloads Enter search term

1 INSTALLATIONS & UPGRADES 2 SUPPORT PACKAGES & PATCHES DATABASES

3 By Alphabetical Index (A-Z)
A complete A-Z index of your company's licensed products (formerly My Application Components)

> By Category
All your company's licensed products listed by category

> Address Directories & Reference Data
All your company's licensed directories

> SAP Business One
All your company's licensed SAP Business One products

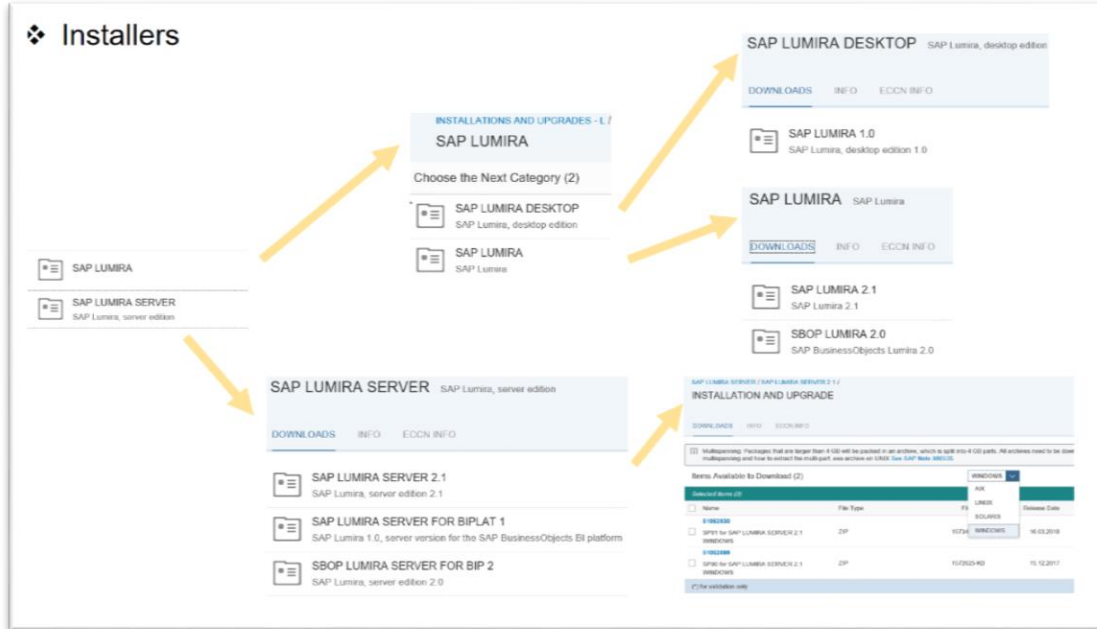
> Early Adopter Care solutions with controlled availability
Lists all Early Adopter Care solutions that your company has signed up for

> Guided Beta
Lists all products if you are participating in a Guided Beta initiative

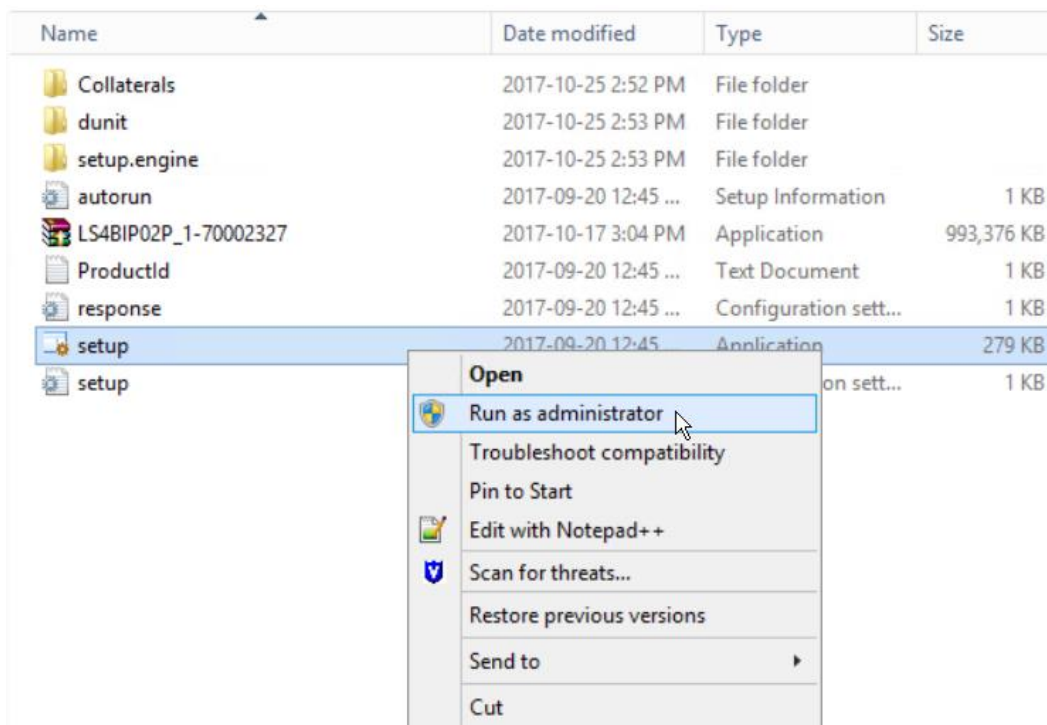
Choose either: 1. "INSTALLATIONS & UPGRADES" or 2. "SUPPORT PACKAGES & PATCHES".

Then you may select to search "By Alphabetical Index(A-Z)" and after that select the letter L.

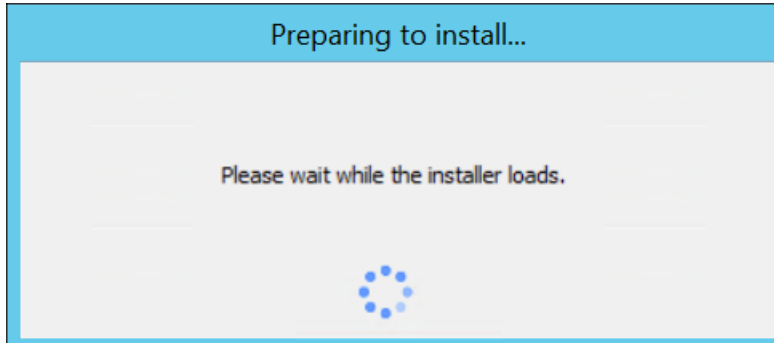
Here are the options you see for Lumira:



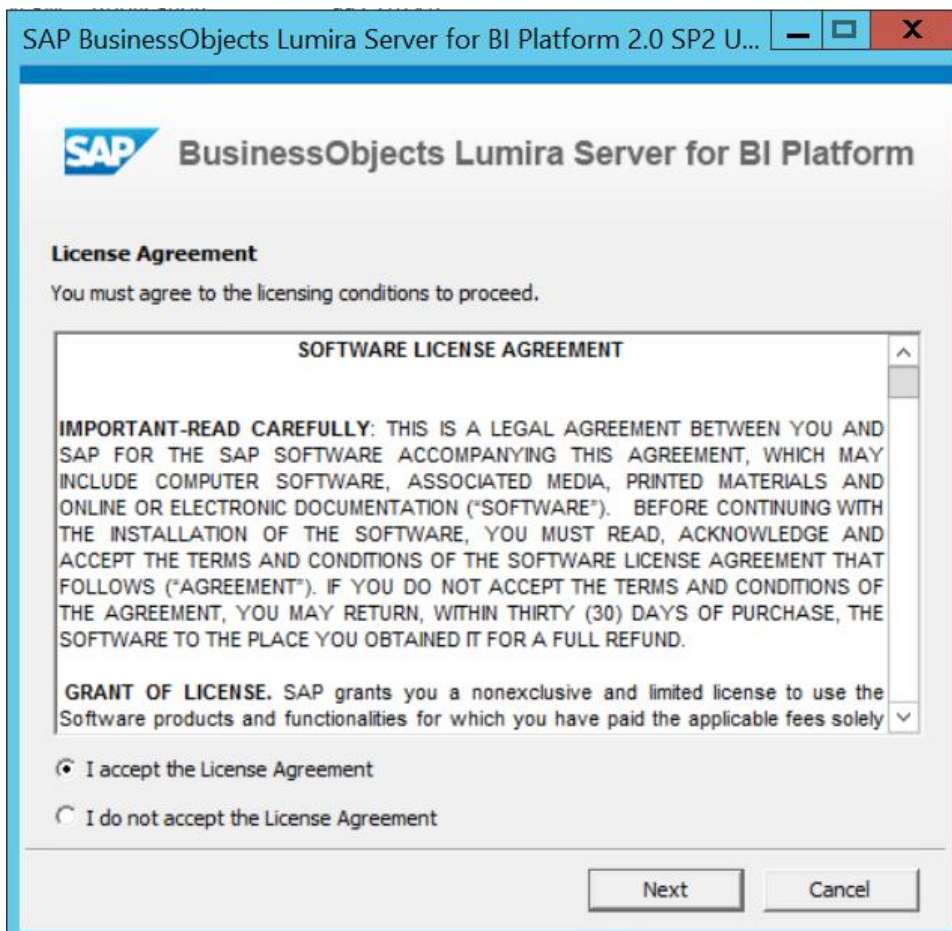
2. Extract the package and run 'setup.exe' as shown below;



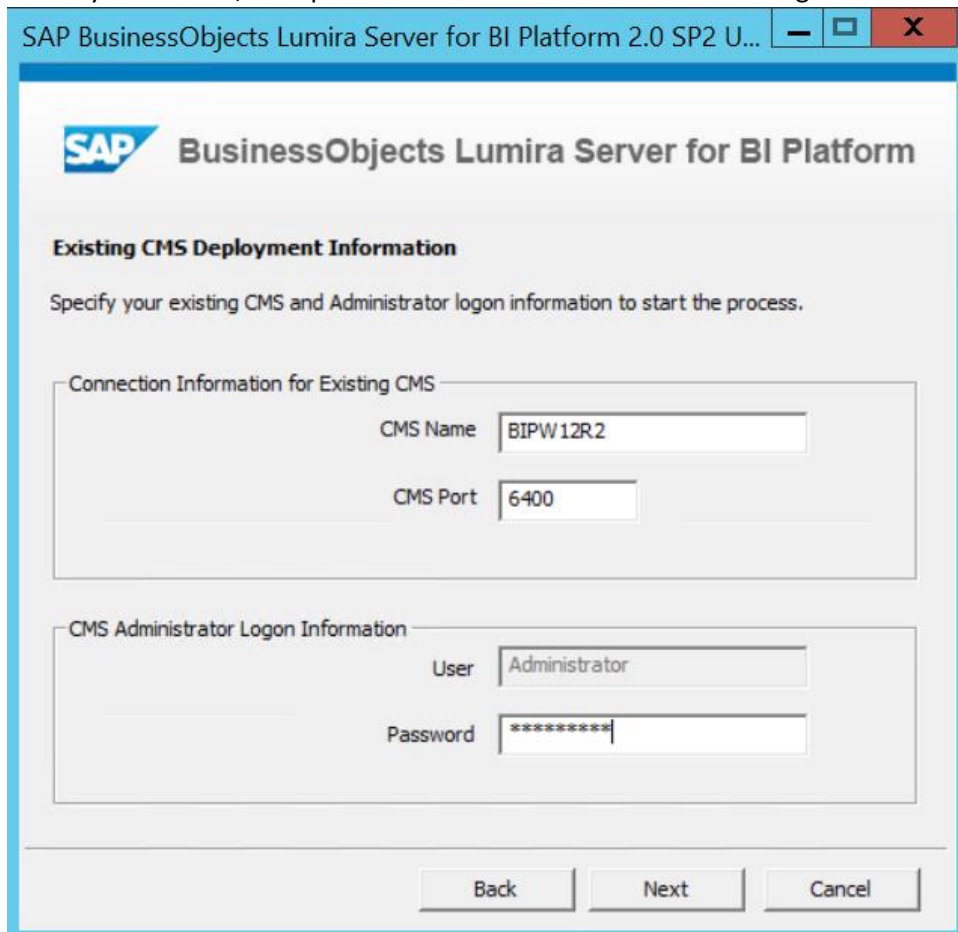
3. The installer will check the required pre-requisites. And this may require a system reboot and re-run the setup
4. The setup then continues with preparation step;



5. Accept the terms and continue;



6. Enter system name, CMS port and admin credentials of the running CMS server (on the BI node);



The screenshot shows a Windows-style window titled "SAP BusinessObjects Lumira Server for BI Platform 2.0 SP2 U...". The window has a blue header bar with the SAP logo and the text "BusinessObjects Lumira Server for BI Platform". Below the header, the title "Existing CMS Deployment Information" is displayed. A subtitle reads: "Specify your existing CMS and Administrator login information to start the process." The form is divided into two sections. The first section, "Connection Information for Existing CMS", contains two input fields: "CMS Name" with the value "BIPW12R2" and "CMS Port" with the value "6400". The second section, "CMS Administrator Logon Information", contains two input fields: "User" with the value "Administrator" and "Password" with the value "*****". At the bottom of the window, there are three buttons: "Back", "Next", and "Cancel".

SAP BusinessObjects Lumira Server for BI Platform 2.0 SP2 U...

SAP BusinessObjects Lumira Server for BI Platform

Existing CMS Deployment Information

Specify your existing CMS and Administrator login information to start the process.

Connection Information for Existing CMS

CMS Name BIPW12R2

CMS Port 6400

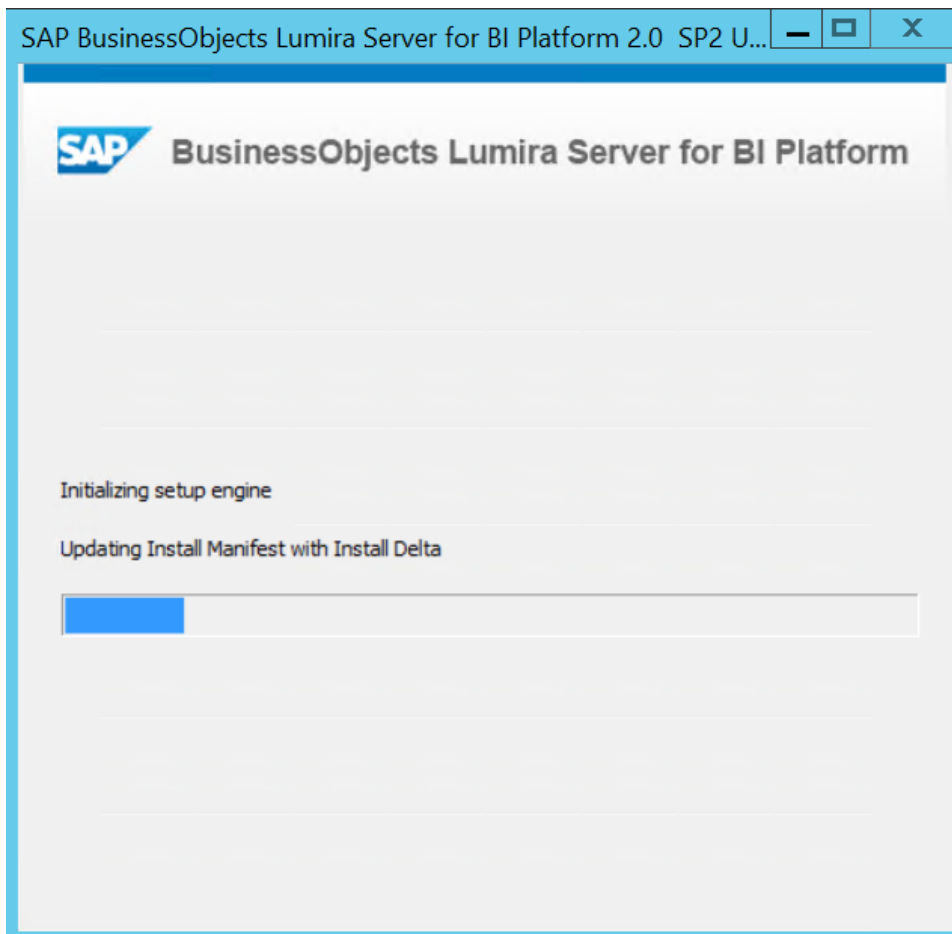
CMS Administrator Logon Information

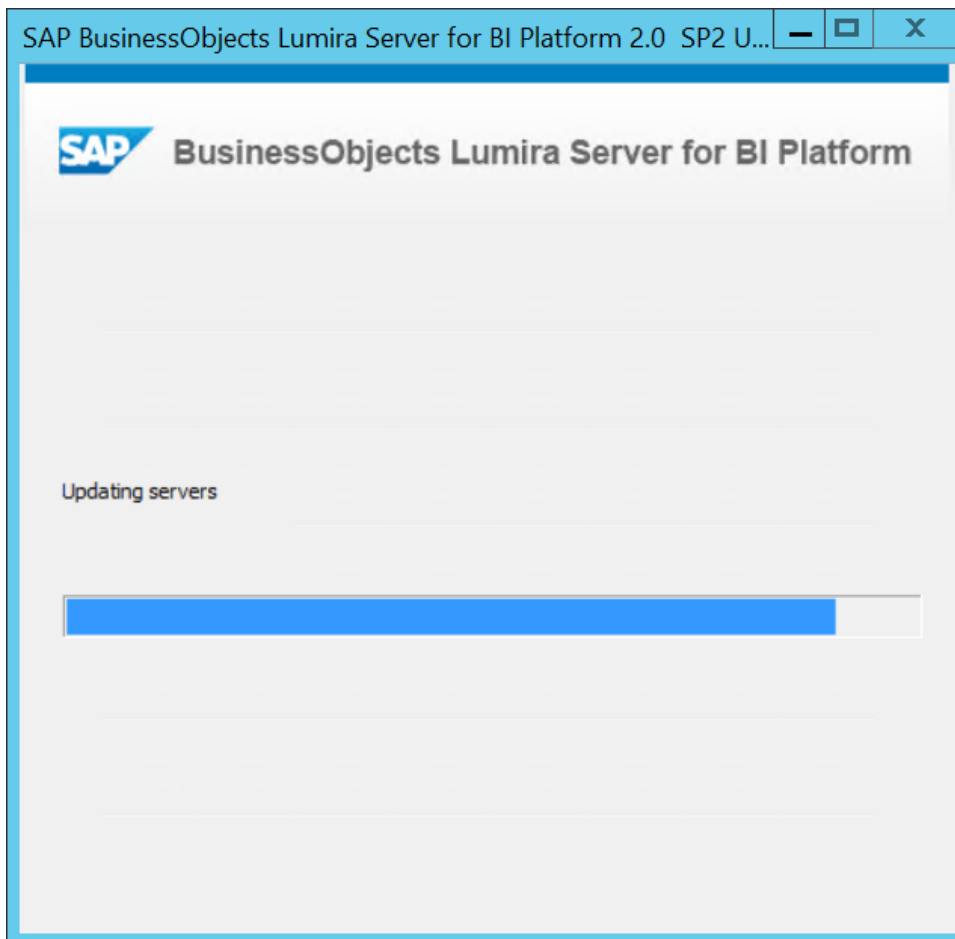
User Administrator

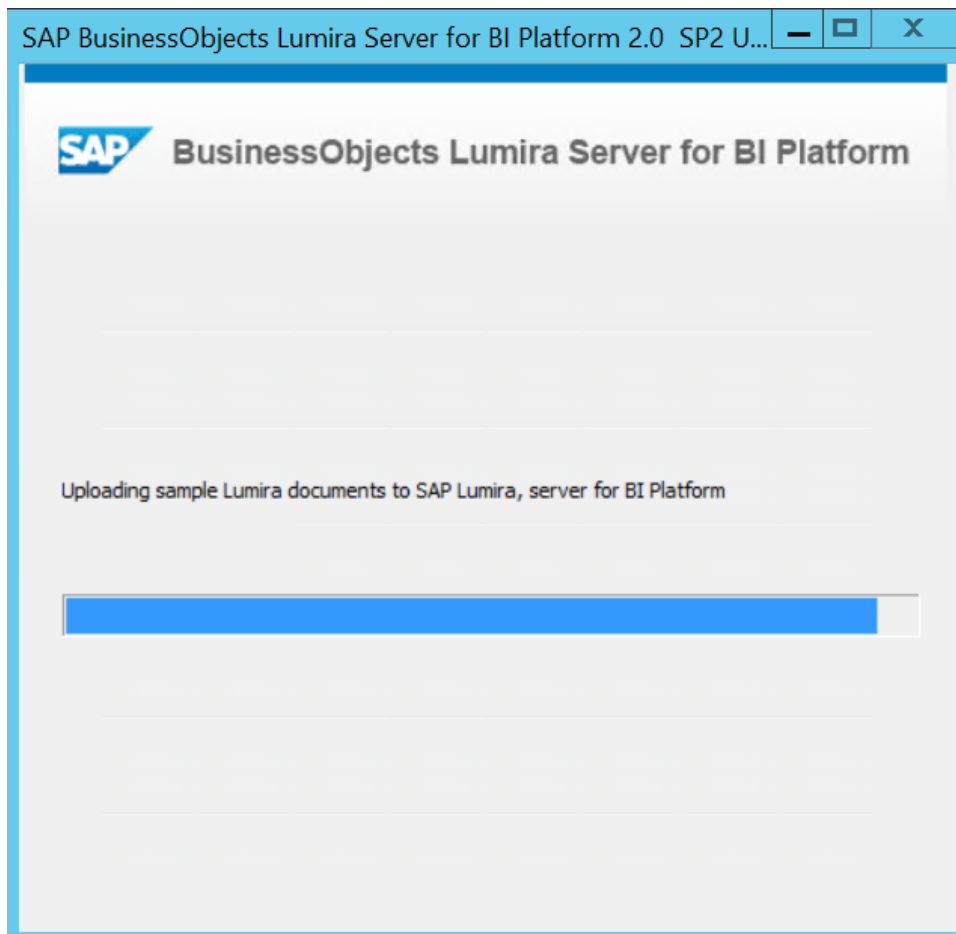
Password *****

Back Next Cancel

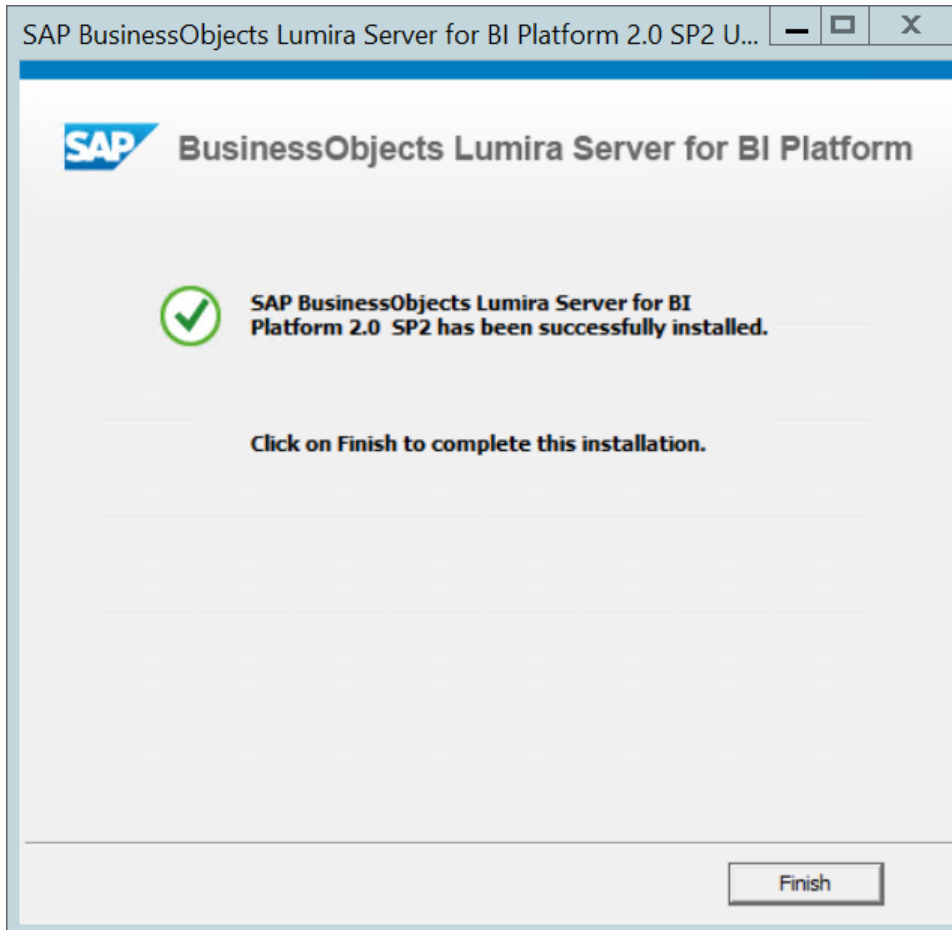
7. Installation continues;



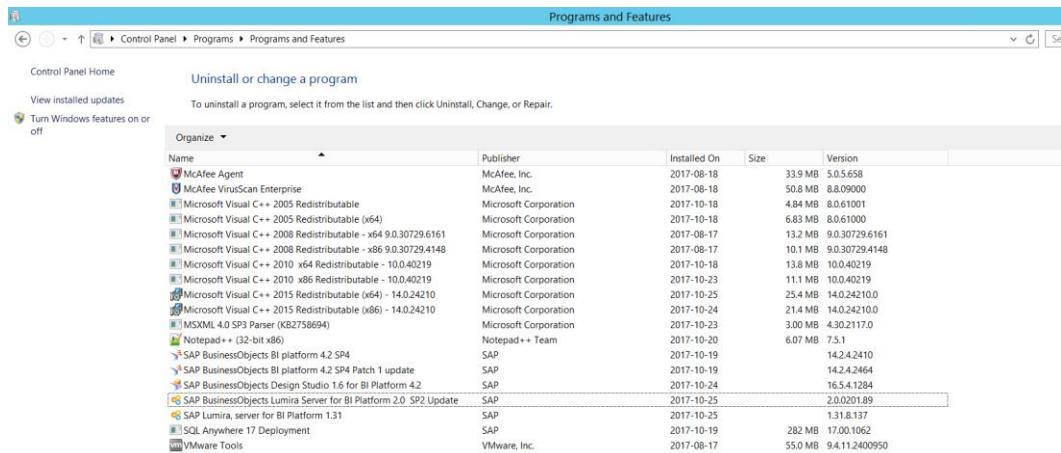




8. Installation then finishes;



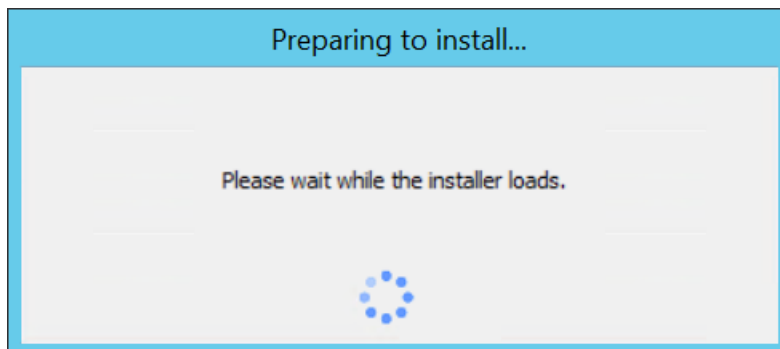
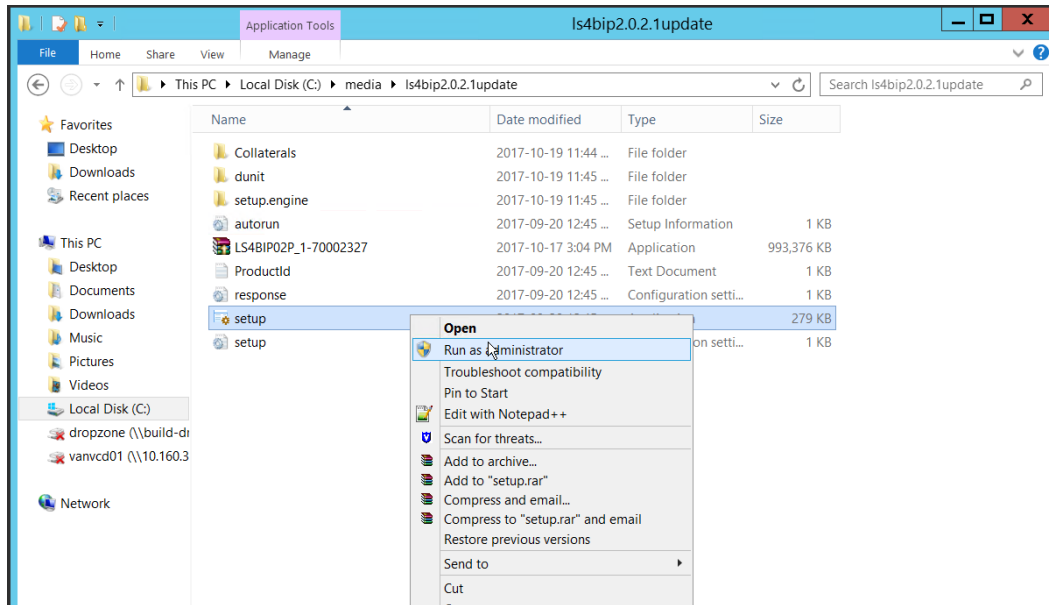
9. Validate your installation by checking the programs and features;



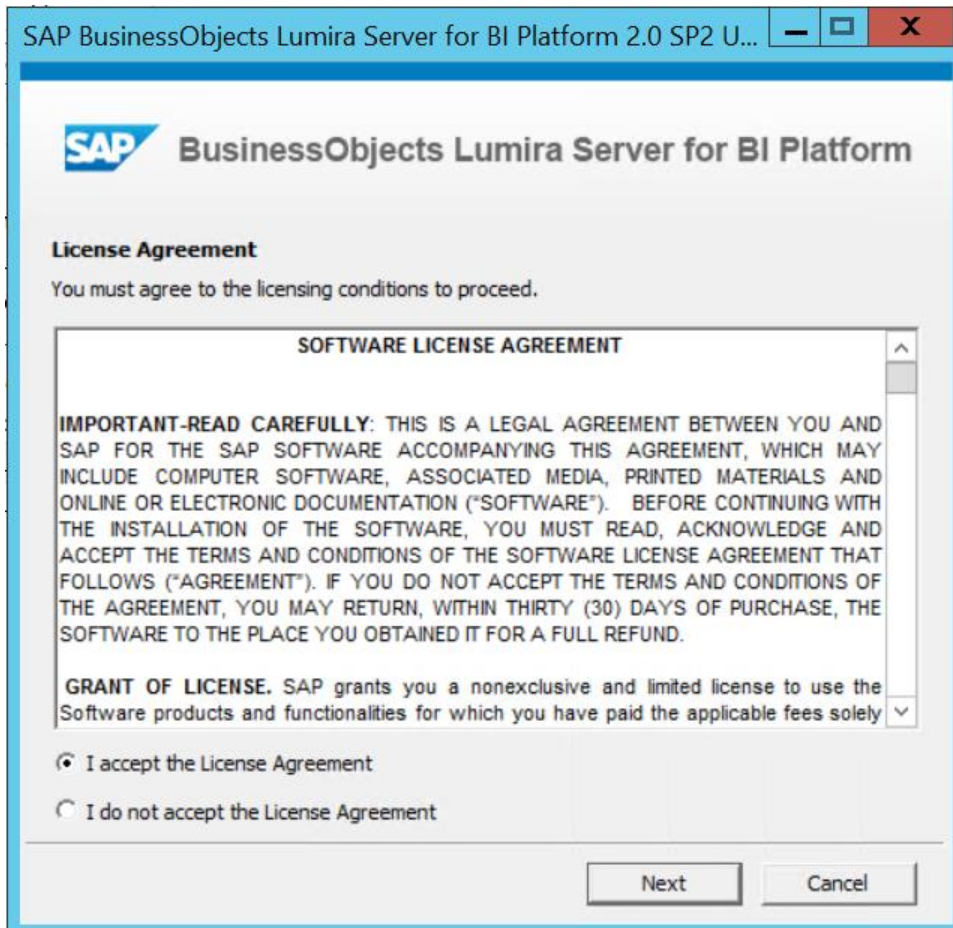
Updating Business Intelligence Node

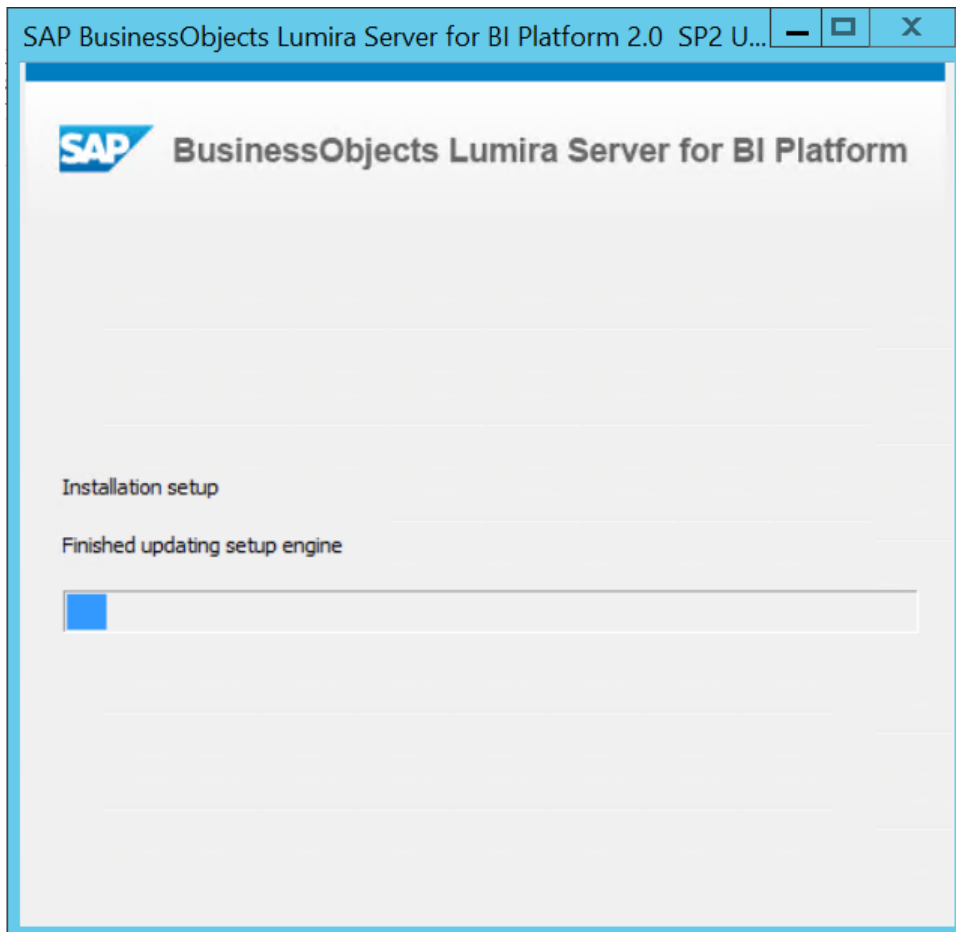
In this step, we are going to perform the required updates to the server that hosts the core BI Services.

1. Using the same software package, update the BI node as shown below;

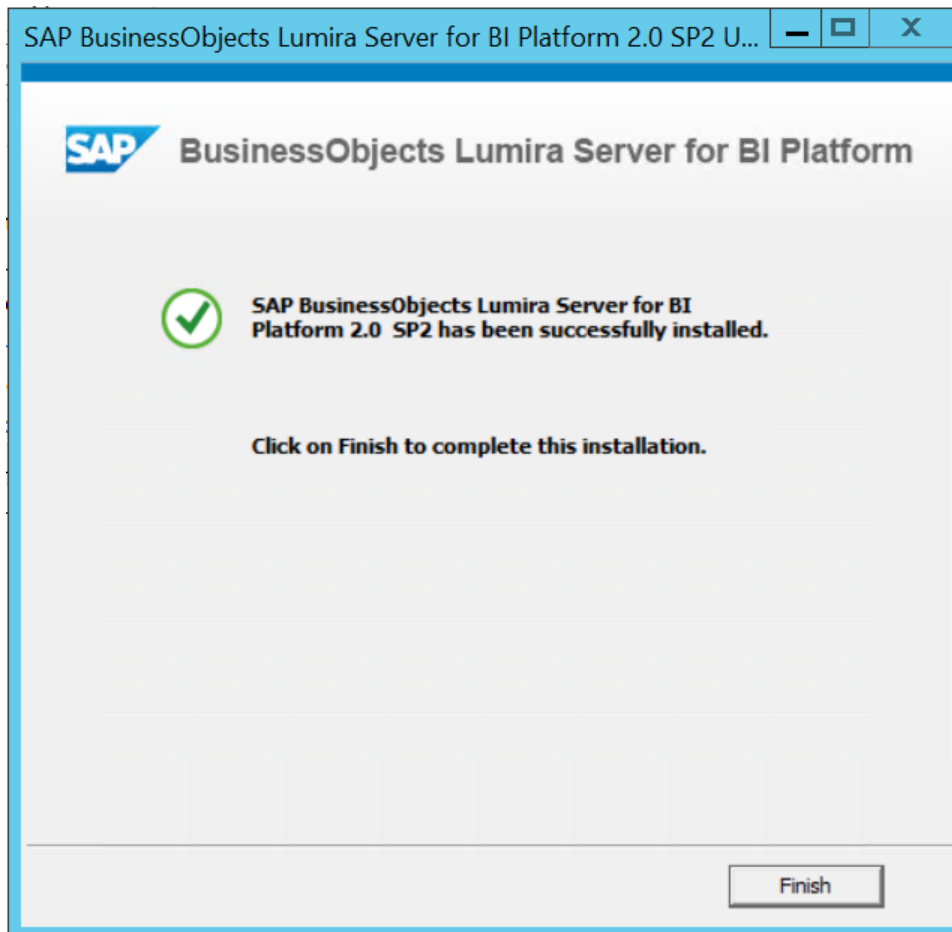


2. Accept the licensing terms and continue;





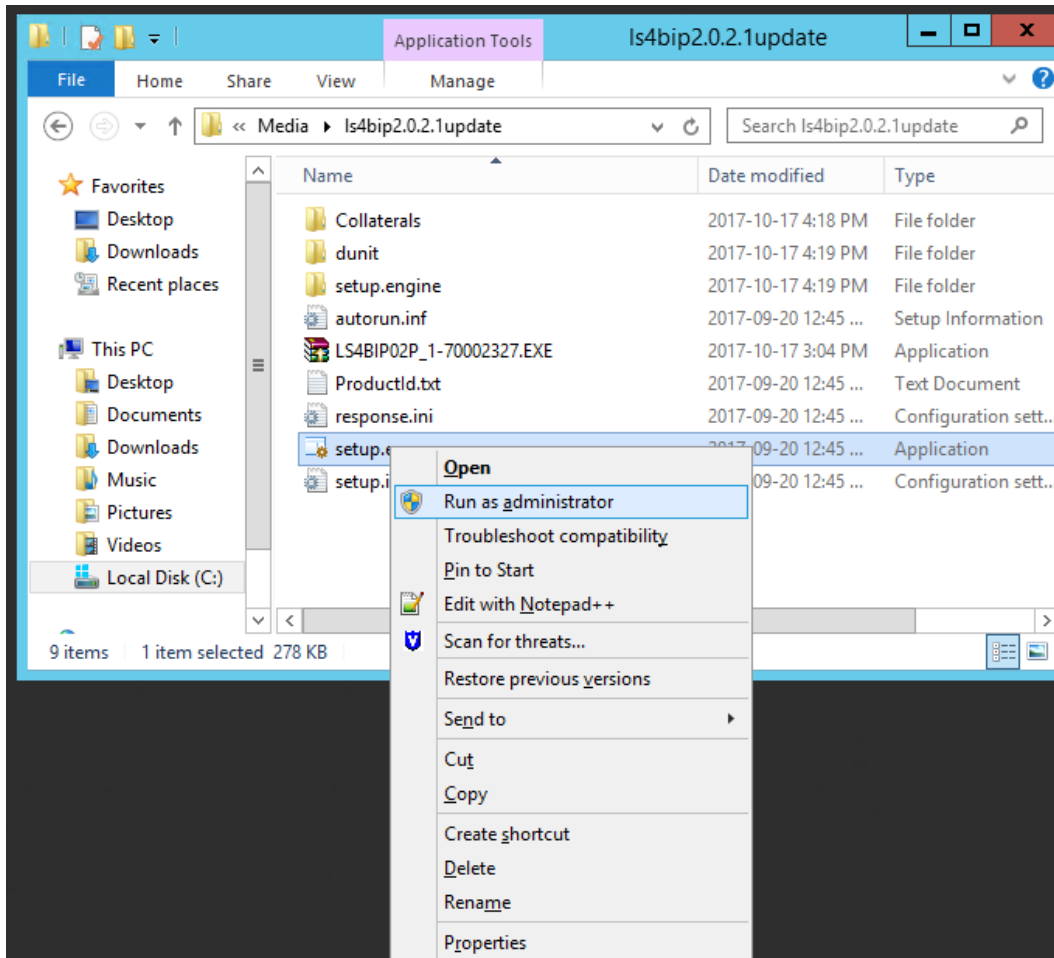
3. The update process completes;



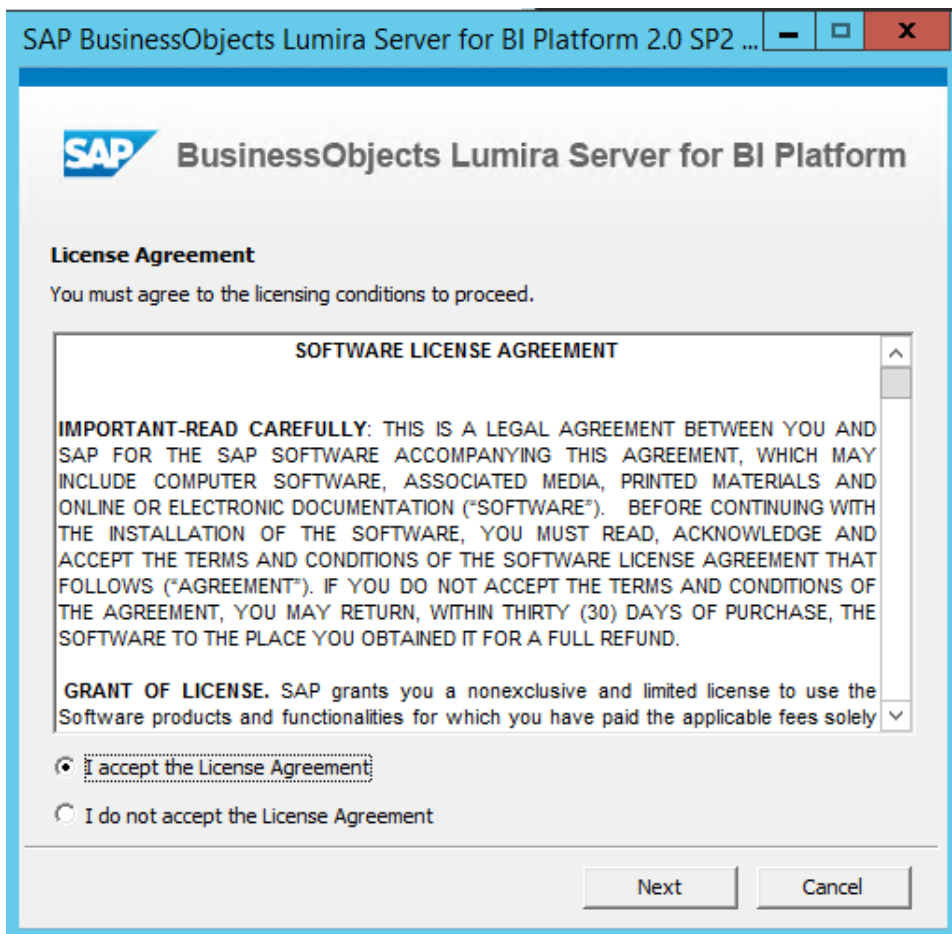
Updating Web Node

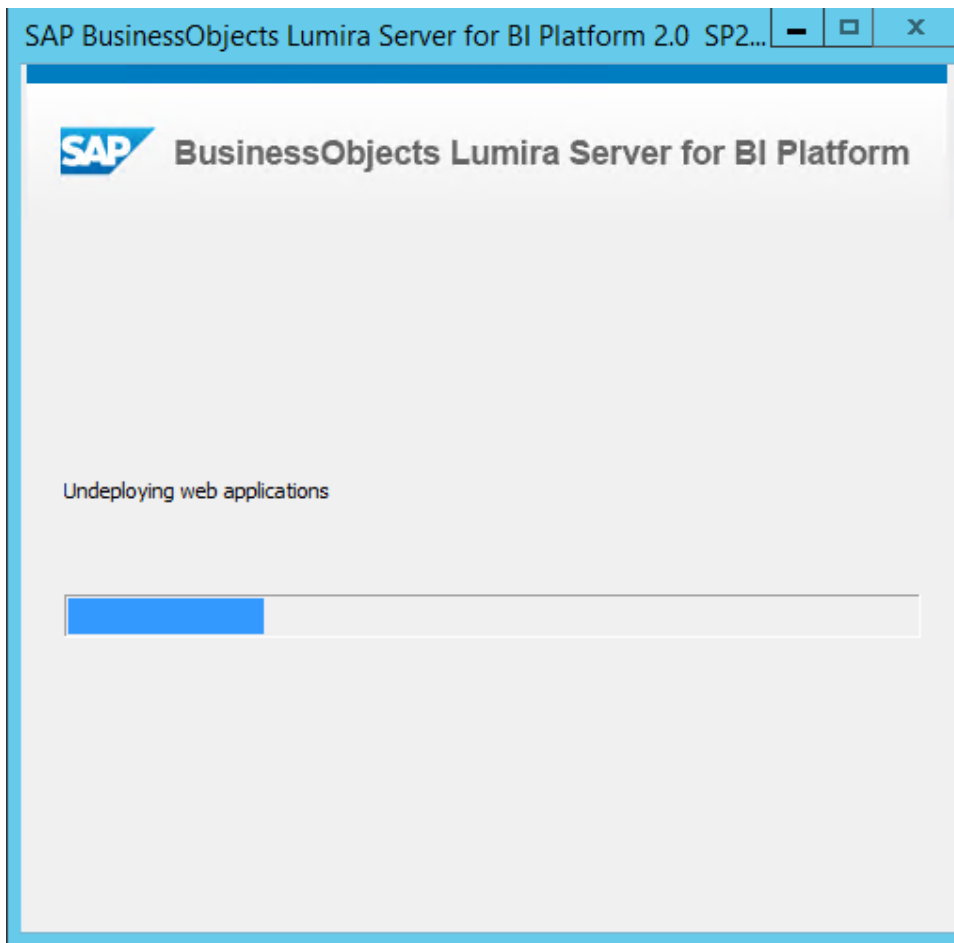
In this step, we are going to perform the server add-on updates to the Web Tier node that host the Apache Tomcat;

1. Run the update installer;

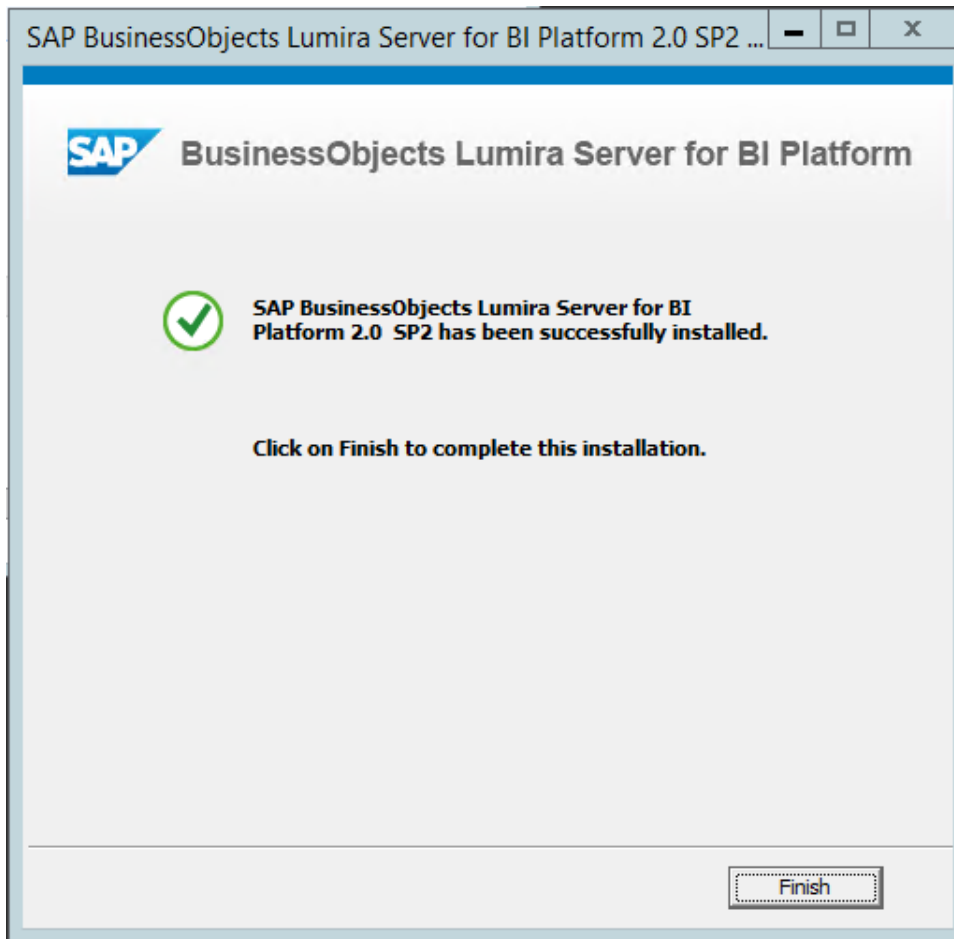


2. Accept the terms and continue;





3. Update completes;



Installing Lumira Discovery Client

1. Download the Lumira Discovery client software as shown below;

SAP LUMIRA / SBOP LUMIRA 2.0 /
INSTALLATION

[DOWNLOADS](#)
[INFO](#)
[ECCN INFO](#)

Multispanning: Packages that are larger than 4 GB will be packed in an archive, which is split into 4 GB parts. All archives need to be downloaded and unpacked. For more details on multispanning and how to extract the multi-part .exe archive on UNIX, [See SAP Note 886535](#).

Items Available to Download (6)

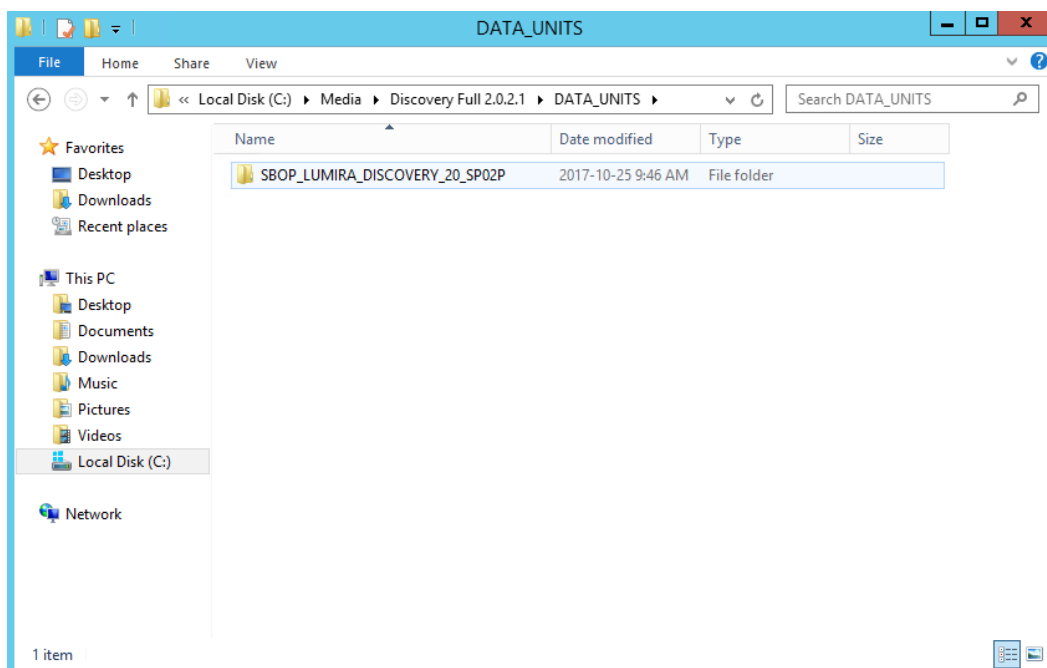
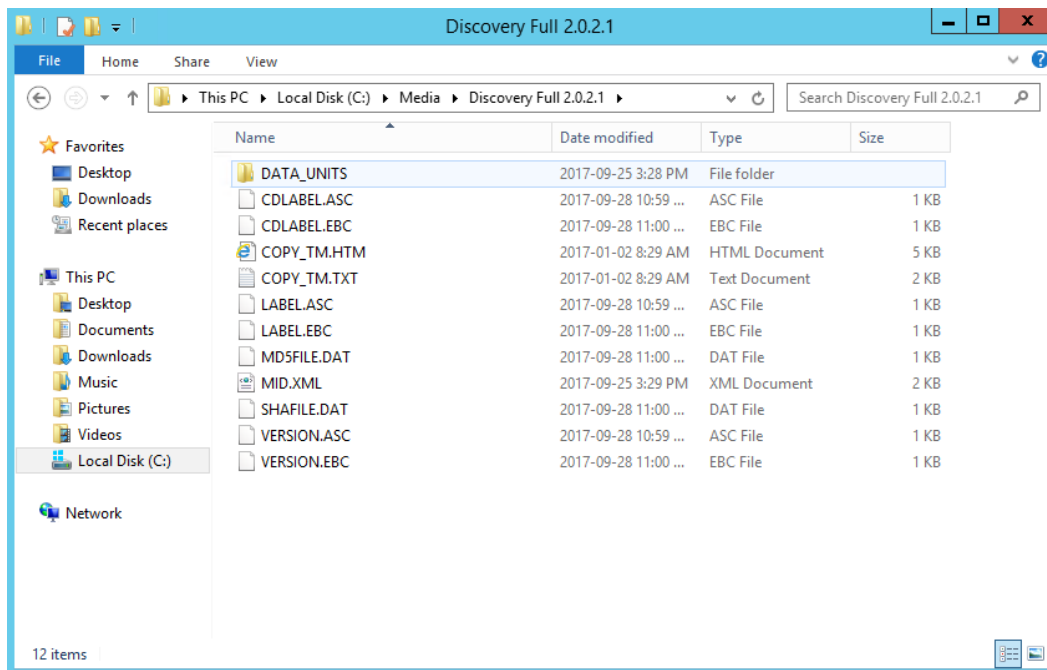
WINDOWS

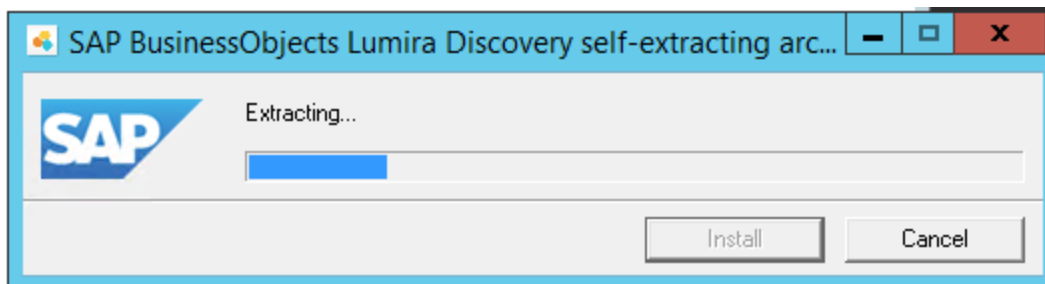
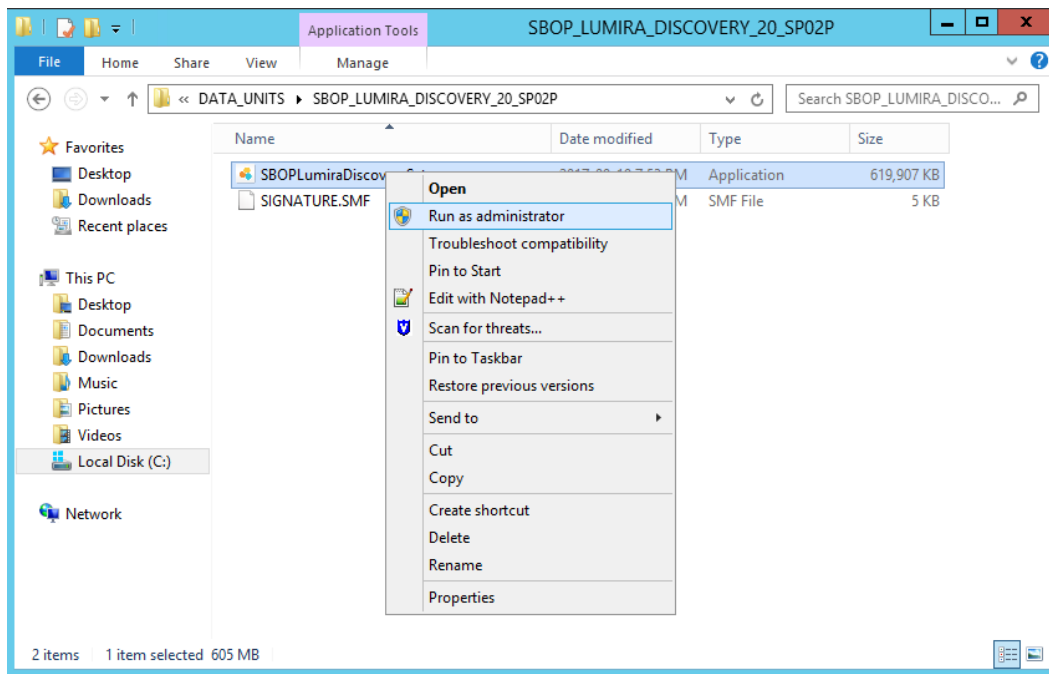
Selected Items (0)

<input type="checkbox"/>	Name	File Type	File Size	Release Date	Change Date	Related Info
<input type="checkbox"/>	51052623 SBOP LUMIRA DISCOVERY 2.0 SP03 WINDOWS	ZIP	626539 KB	11/13/2017	11/13/2017	
<input type="checkbox"/>	51052628 SBOP LUMIRA DESIGNER 2.0 SP03 WINDOWS	ZIP	596367 KB	11/13/2017	11/13/2017	
<input type="checkbox"/>	51052443 SBOP LUMIRA DISCOVERY 2.0 SP02 Patch1 WINDOWS	ZIP	619889 KB	10/04/2017	10/04/2017	
<input type="checkbox"/>	51052441 SBOP LUMIRA DESIGNER 2.0 SP02 Patch1 WINDOWS	ZIP	595622 KB	09/25/2017	09/25/2017	
<input type="checkbox"/>	51052406 SBOP LUMIRA 2.0 SP02 DESIGNER WINDOWS	ZIP	595682 KB	09/21/2017	09/21/2017	
<input type="checkbox"/>	51052385 SBOP LUMIRA 2.0 SP02 DISCOVERY WINDOWS	ZIP	620055 KB	09/11/2017	09/11/2017	

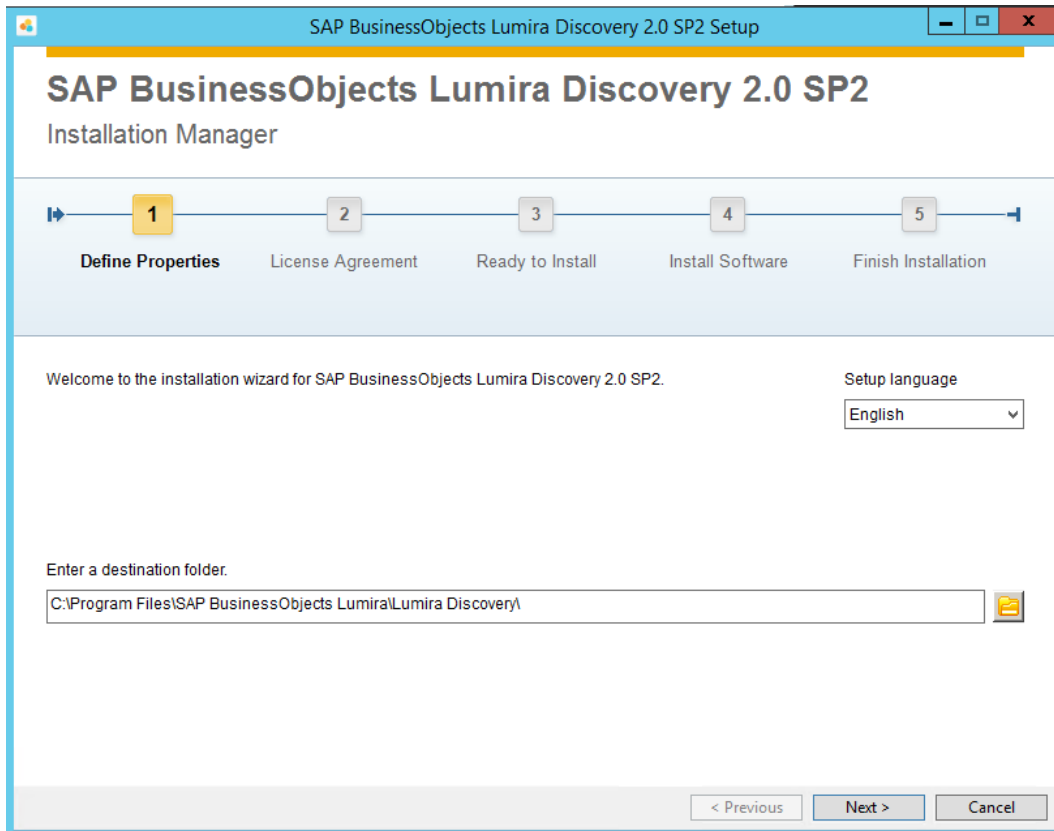
(*) for validation only

2. Extract it to a folder and run setup from DATA_UNITS folder;

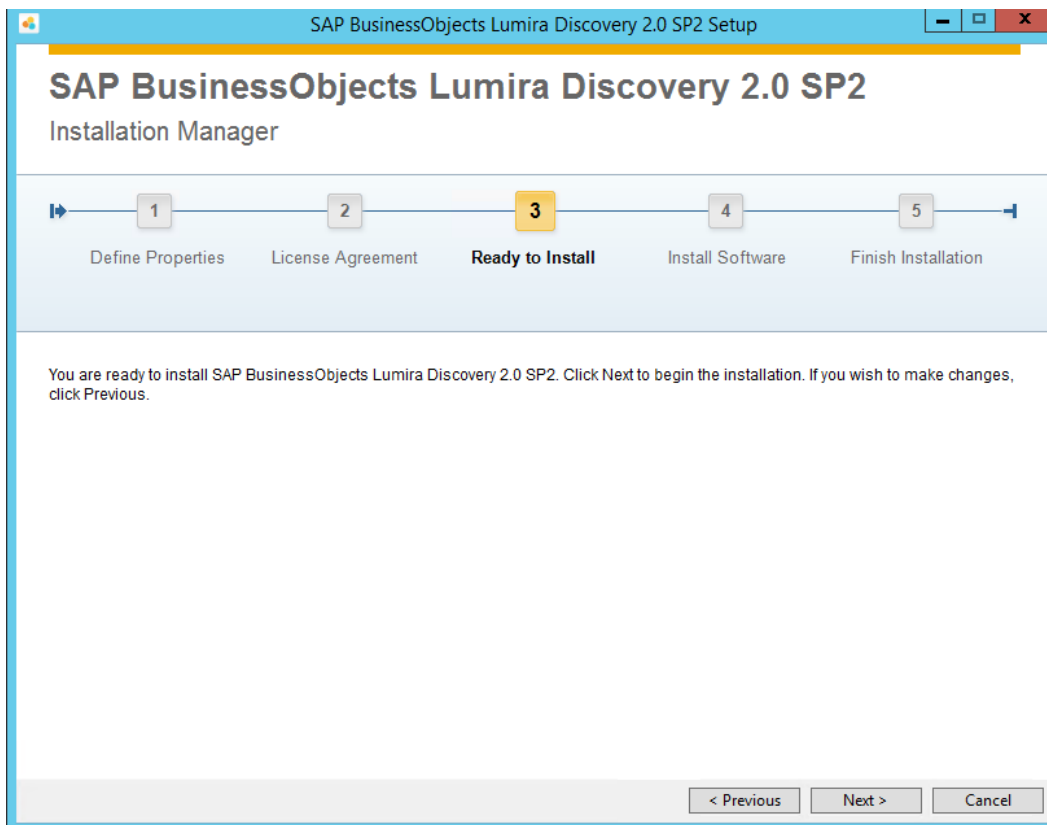
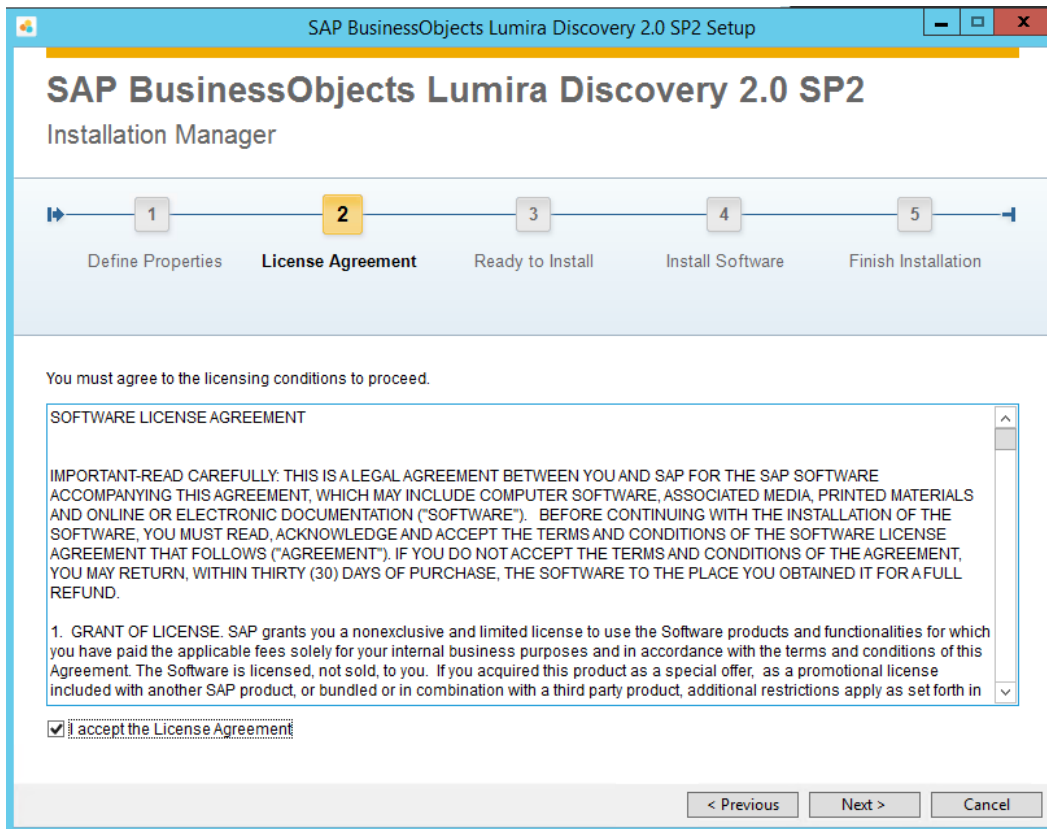


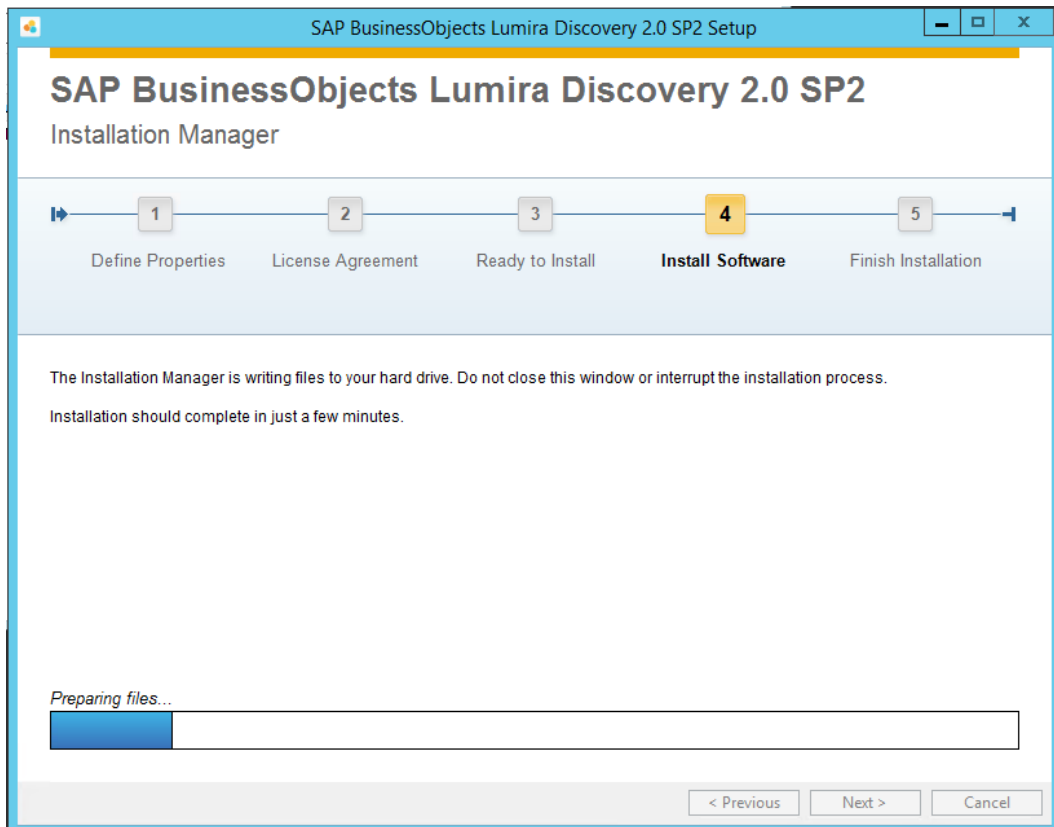


3. Specific the destination folder;

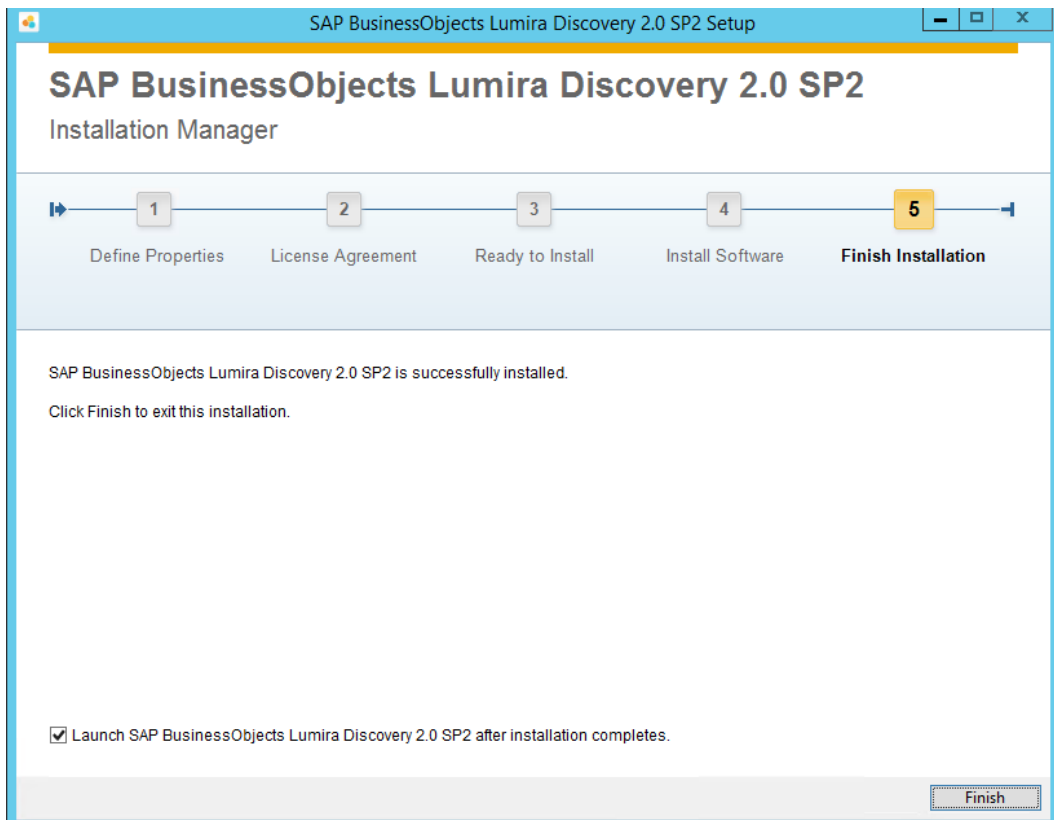


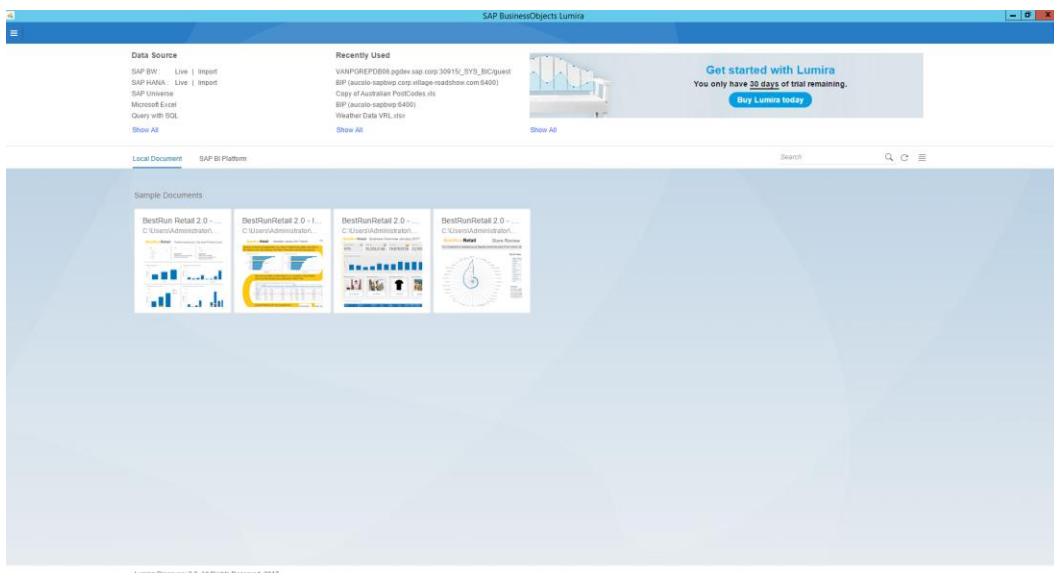
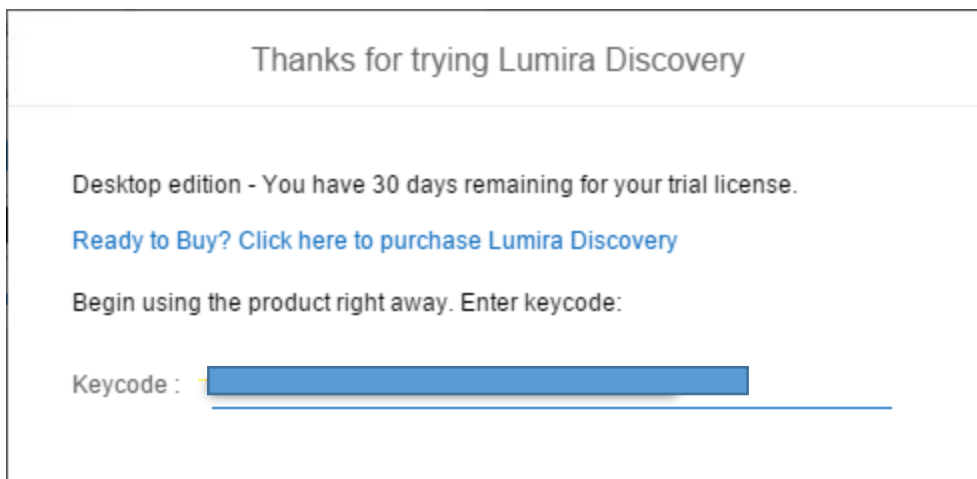
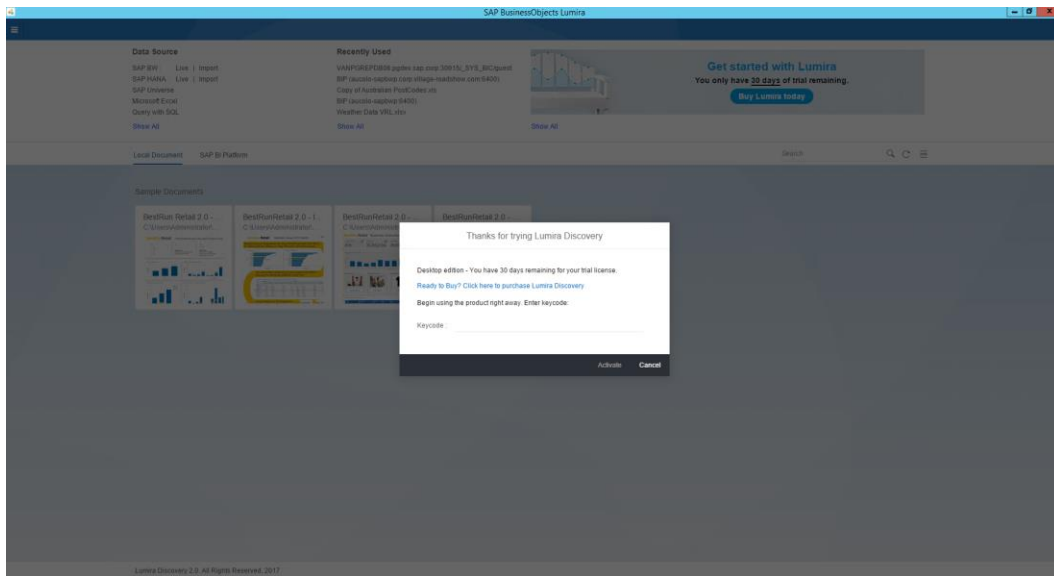
4. Accept the licensing terms and continue;





5. The installation completes successfully;





Installing Lumira Designer

1. Download the Lumira Designer client and save it into the directory

SAP LUMIRA / SBOP LUMIRA 2.0 /
INSTALLATION

DOWNLOADS INFO ECCN INFO

ⓘ Multispanning: Packages that are larger than 4 GB will be packed in an archive, which is split into 4 GB parts. All archives need to be downloaded and unpacked. For more details on multispanning and how to extract the multi-part .exe archive on UNIX. See [SAP Note 886535](#).

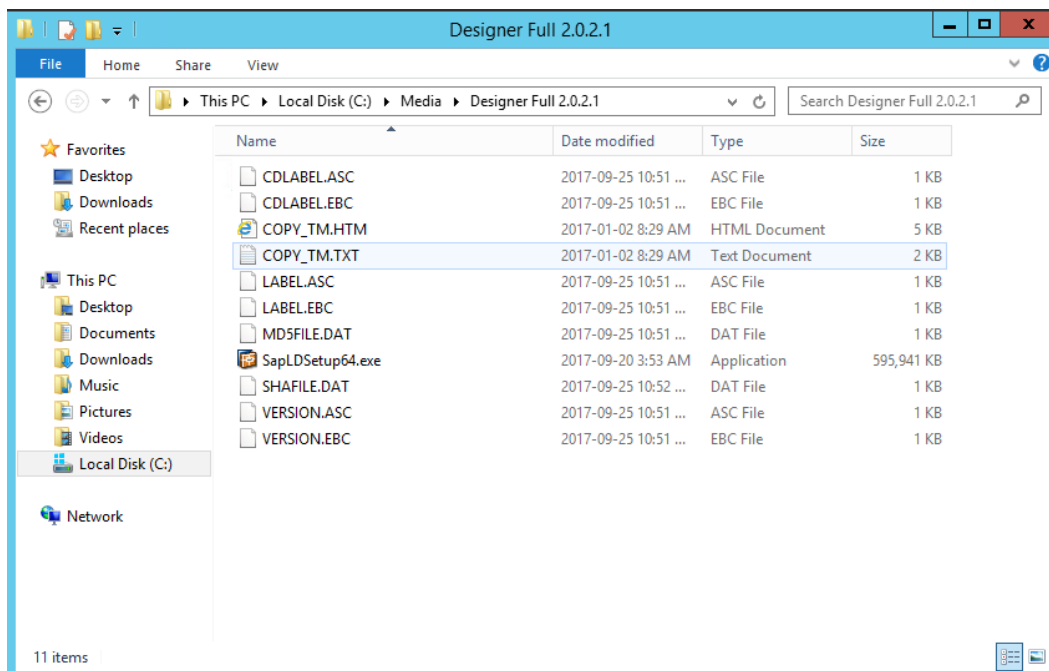
Items Available to Download (6) WINDOWS

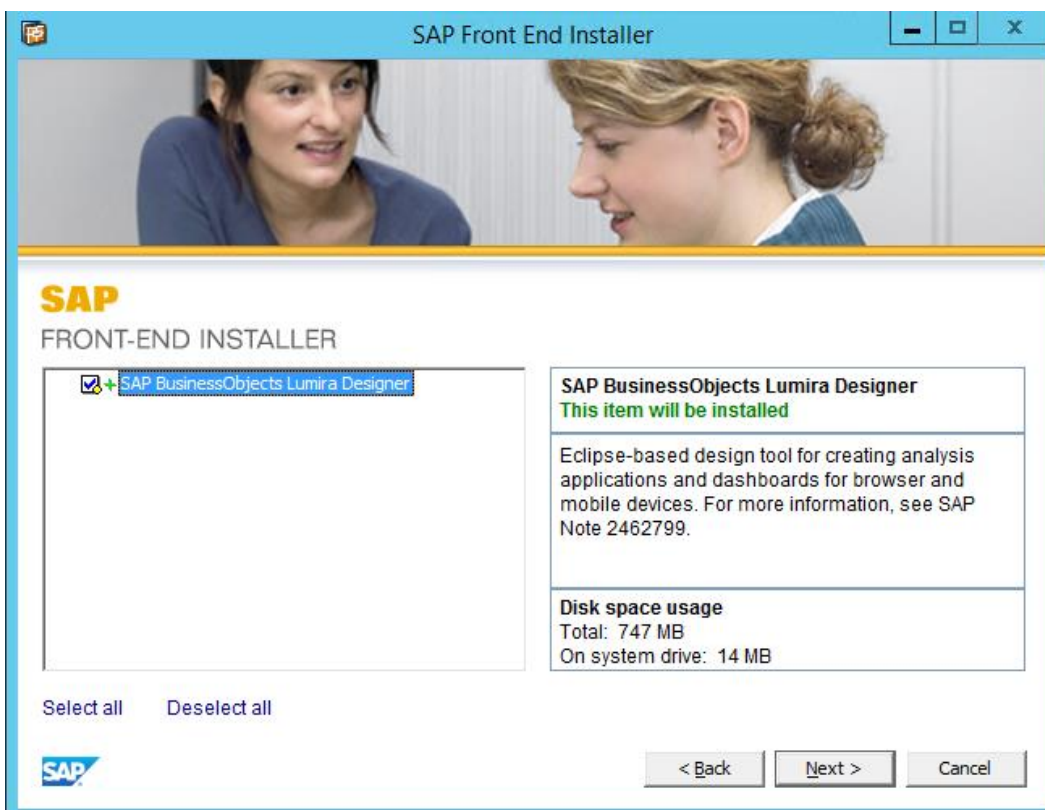
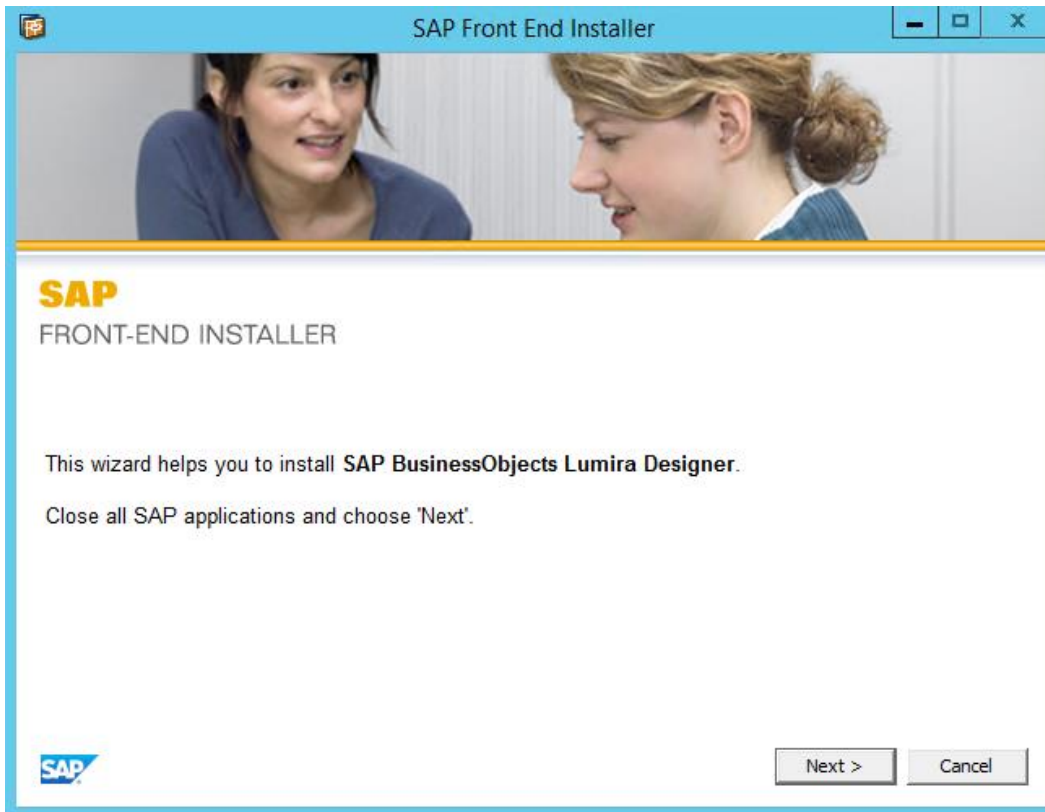
Selected Items (0)

<input type="checkbox"/>	Name	File Type	File Size	Release Date	Change Date	Related Info
<input type="checkbox"/>	51052623 SBOP LUMIRA DISCOVERY 2.0 SP03 WINDOWS	ZIP	626539 KB	11/13/2017	11/13/2017	
<input type="checkbox"/>	51052628 SBOP LUMIRA DESIGNER 2.0 SP03 WINDOWS	ZIP	596367 KB	11/13/2017	11/13/2017	
<input type="checkbox"/>	51052443 SBOP LUMIRA DISCOVERY 2.0 SP02 Patch1 WINDOWS	ZIP	619889 KB	10/04/2017	10/04/2017	
<input type="checkbox"/>	51052441 SBOP LUMIRA DESIGNER 2.0 SP02 Patch1 WINDOWS	ZIP	595622 KB	09/25/2017	09/25/2017	
<input type="checkbox"/>	51052406 SBOP LUMIRA 2.0 SP02 DESIGNER WINDOWS	ZIP	595682 KB	09/21/2017	09/21/2017	
<input type="checkbox"/>	51052385 SBOP LUMIRA 2.0 SP02 DISCOVERY WINDOWS	ZIP	620055 KB	09/11/2017	09/11/2017	

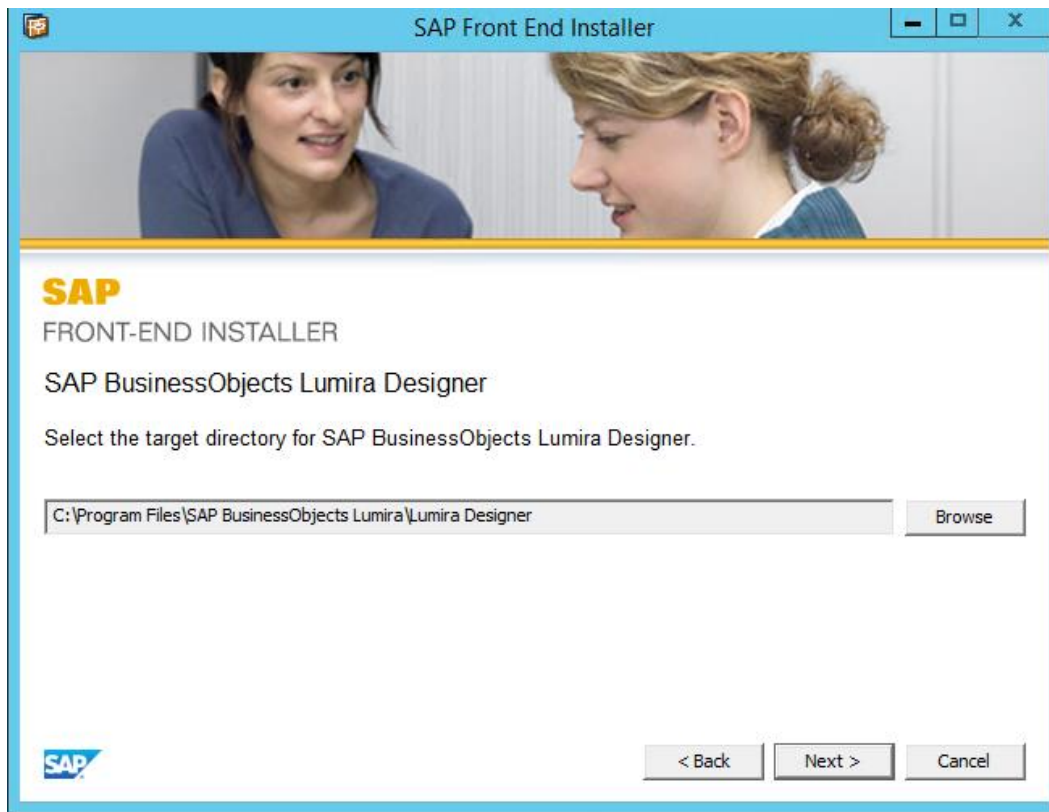
(*) for validation only

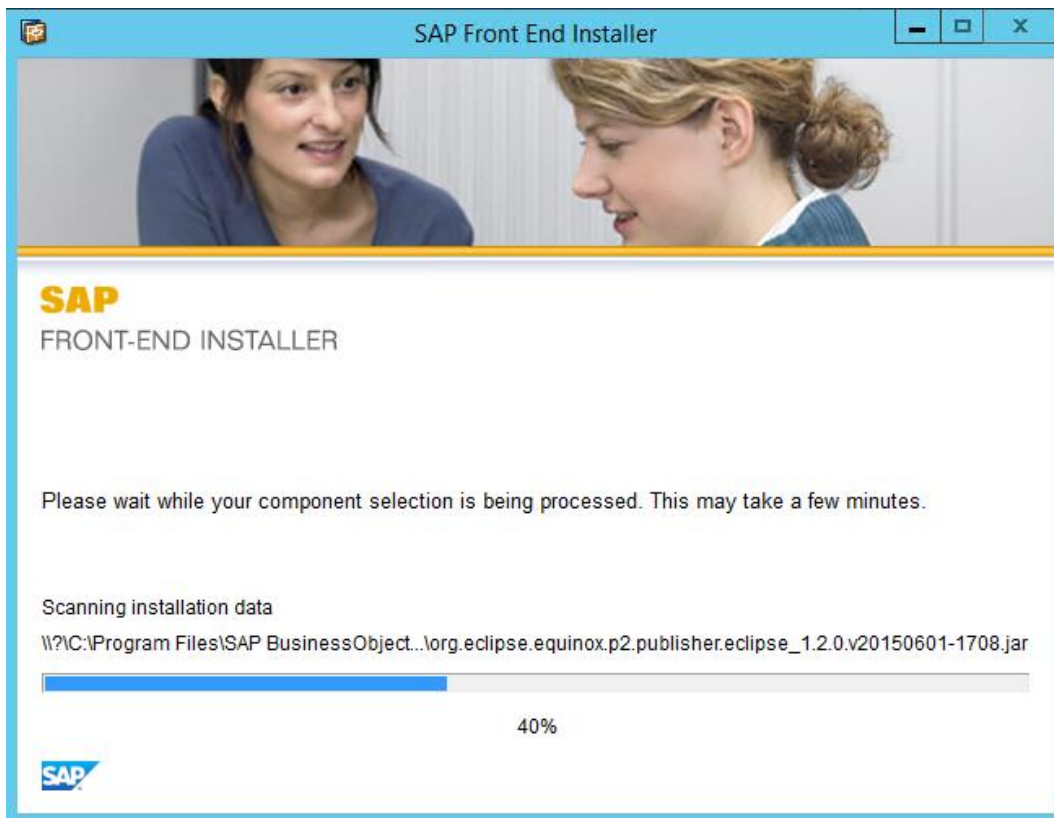
2. Extract the installer and run setup. Simply follow the installation instruction;



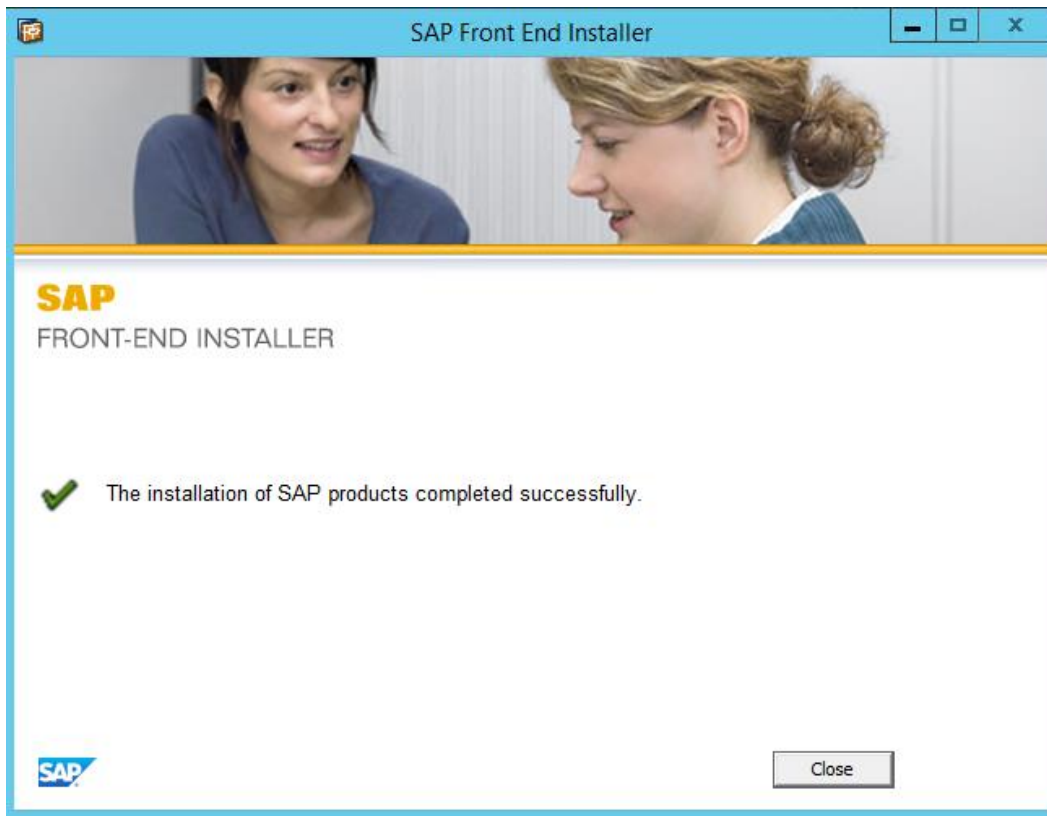


3. Specify the install location;





4. Installation completes successfully;



5. Launch the Lumira Designer and enter the system details;



 SAP BusinessObjects Lumira Documents Mode 

SAP BusinessObjects


Lumira Designer

Enter your SAP BusinessObjects BI Platform credentials:

Web Service URL: 

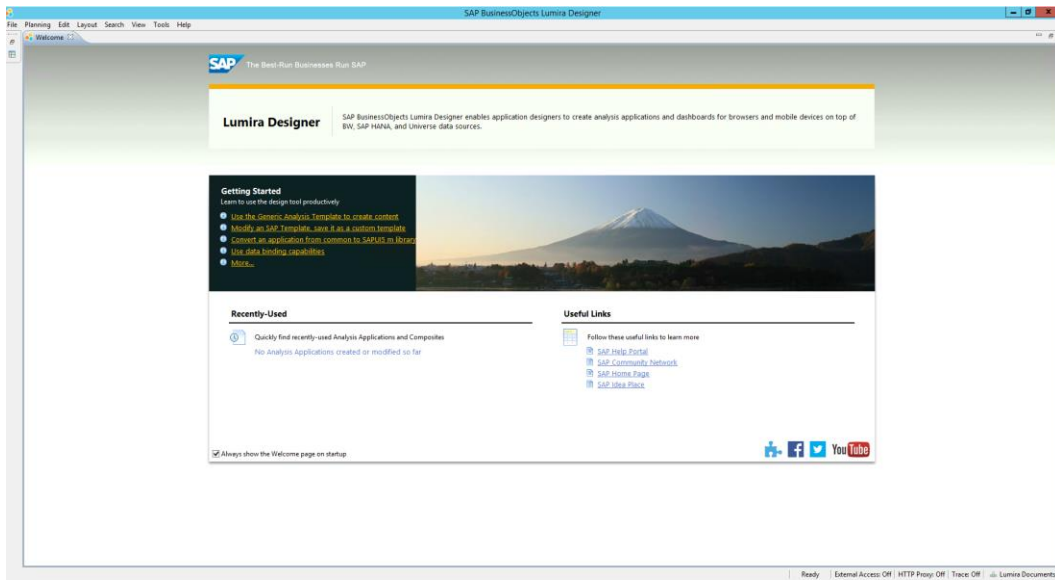
User Name:

Password:

Authentication: 







Objects Conversion

Planning your Conversion

Here are some thoughts around how to properly plan your conversion and important things to note down.

****Note:** While the scope of this entire pattern book is about updating the server add-on and documents conversion with BI platform, the documents conversion part of the project can be done independent of Lumira Server (add-on) upgrade (update).

Lumira 1.x content conversion planning

You may either rebuild all your Lumira 1 content in Lumira 2, or alternatively you can convert your existing Lumira 1 content to Lumira 2. Lumira 1 documents using live connectivity to HANA cannot be converted to Lumira 2, they must be rebuilt from scratch. If you decide you'd like to or are able convert your content then you'll need a Lumira 2 server 'somewhere' to assist with the content conversion, it could well be Production system. A Lumira 2 server will be required, as only a Lumira 2 Discovery can connect to a Lumira 2 server to store documents and to use the managed connections held within it. These managed connections are fundamental to the conversion. You have a choice, either you

1. Update the Production system to Lumira 2, and then update your content. This would require 'downtime' for any Lumira 1 users as content will only be available after its been converted.
2. Or, promote the Lumira 1 content into a 'Dedicated Conversion System' with its own server and client. Perform the necessary conversion there, validate it, and then once the Production System has been updated, this 'pre-converted' content can immediately be promoted into Production reducing downtime for Lumira 1 users to a bare minimum. This system can also be used to develop changes to access rights introduced with Lumira 2.

Both options will require the system where to conversion is to occur be of Lumira 1 version 1.31.8 for both client and server. Lumira 1.31.8 is required as only Lumira 1 document can be viewed by Lumira 2 when saved in that version with a 'for migration' flag enabled.

For this pattern book, we have chosen option 1, to 'Update in Production' system rather than 'Dedicated Conversion System'. 'Update in Production' means firstly update to Lumira 1.31.8 for both server and client, and then to update to Lumira 2.

Design Studio content conversion planning

Existing Design Studio applications of version 1.6.x should all work in Lumira 2 'compatibility' mode as they did before. Though there may be some minor cosmetic differences that could be expected in line with a Support Pack update. However, any applications that use JDBC to HANA will need to be adapted once the system has been updated to Lumira 2.

Note: It is not required to convert the Design Studio 1.x documents to access/run them on Lumira 2.0 landscape. However, if you intend to access/leverage 2.0 features/functionalities, then you are required to convert the 1.x documents to 2.0.

You'll need a Lumira 2 server 'somewhere' to assist with the any application conversion, it could well be Production system. A Lumira 2 server will be required, as only a Lumira 2 Designer can connect to a Lumira 2 server to store documents and to use the managed connections held within it. These managed connections are fundamental to the conversion. You have a choice, either you

1. Update the Production system to Lumira 2, and then update your content. This would require 'downtime' for any Design Studio 1 users as content will only be available after its been converted. We shall call with 'Update in Production'.
2. Or, promote the Design Studio 1 content into a dedicated 'Conversion System' with its own server and client. Perform the necessary conversion there, validate it, and then once the Production System has been updated, this 'pre-converted' content can immediately be promoted into Production reducing downtime for Design Studio 1 users to a bare minimum. This 'Dedicated Conversion System' would also enable the validation of old Design Studio 1.x content works as expected in Lumira 2. This system can also be used to develop changes to access rights introduced with Lumira 2.

For this pattern book, we have chosen option 1, to 'Update in Production' system rather than 'Dedicated Conversion System'

Prepare Content

- Identify Lumira 1 content that needs to be converted to Lumira 2.
- Identify Design Studio content that needs to be adapted for Lumira 2. These will be applications using JDBC to HANA. SAP Note 2512478 and 2475223
- If planning to use a 'Dedicated Conversion System' then:
 - Identify a system, potentially development, for where this content can be promoted to, converted, and then promoted back into original system.
 - Lumira 1.x or Design Studio 1.x server add-ons need to be installed to allow that content to be promoted into it. <https://blogs.sap.com/2017/10/04/promoting-design-studio-1.x-or-Lumira-1.x-content-into-Lumira-2-server/>
 - If Lumira 1 content needs to be converted, then Lumira 1.31.8 server add-on and clients will need be installed before Lumira 2 is installed. Any Lumira server add-on before 1.31.8 isn't strictly necessary, but it is a best practice to ensure the same add-ons are installed in the same order, so up to three Lumira add-ons may be required here.
- Identify any Lumira 1 content that has any access rights on the individual document objects and make plans to remove these and place the rights on folders. This is necessary, as once Lumira 2 has been installed, the Lumira 1 content can no longer be managed in the Central Management Console and the Lumira 1 content can be managed by security placed on folders and allowing inheritance to apply to the individual Lumira 1 documents.
- Identify any Lumira 1 that could be required to be deleted post update to Lumira 2. Plan to move this Lumira 1 content into dedicated Lumira 1 folders, so the folders can be deleted post update, since Lumira 1 content themselves cannot be individually selected for deletion.
- Identify and plan any BI Platform updates. Need to check and validate the Lumira 2 PAM with the current installed version and there may be a requirement to update the BI Platform to a supported version before installing Lumira 2.
- Identify if any new license keys are required.

- Lumira 2.0 Discovery installer comes with a 30-day trial license. After that expires you need to update the keycode for it to continue working.
- Lumira Discovery 2.0 keycodes are different from Lumira 1.x keycodes. Your Lumira 1.x keycode will not work in Lumira Discovery 2.0. To request a new license key, refer to SAP note 2519499.
- Lumira Designer 2.0 and Lumira Server 2.0 do not require license keys.
- For more information on licensing see this blog - <https://blogs.sap.com/2017/05/04/Lumira-2.0-and-licensing/>.

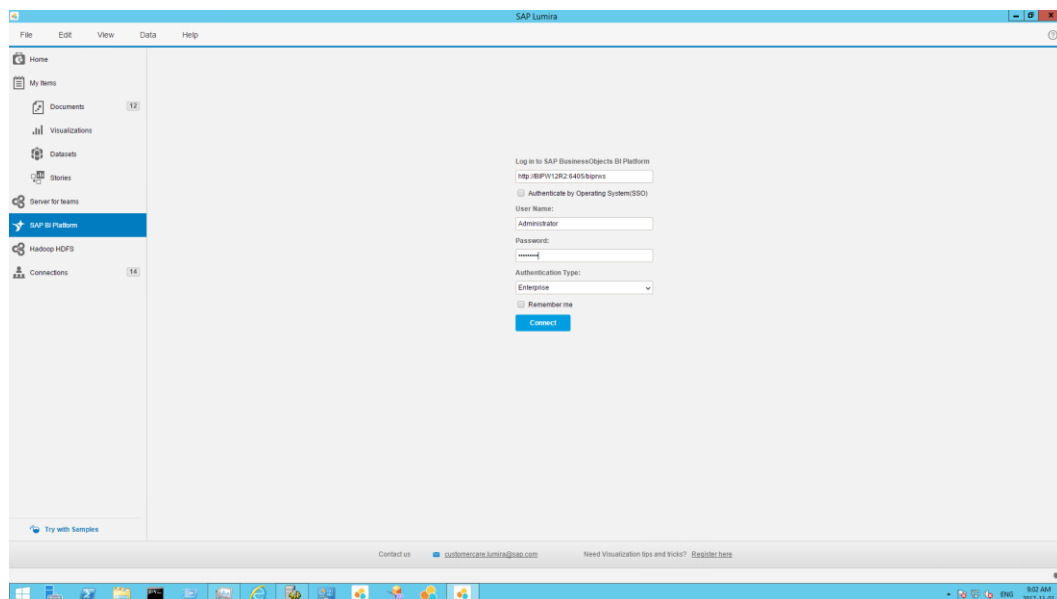
Conversion of Lumira 1.3x Documents

Before you start the conversion, connect to the BI Platform. You will notice that the .LUMS documents are not visible/available in the folder. That's because Lumira 2.x server add-on doesn't understand Lumira 1.x format, post upgrade (update). Therefore, it is important to convert the 1.x documents to 2.x format to consume them.

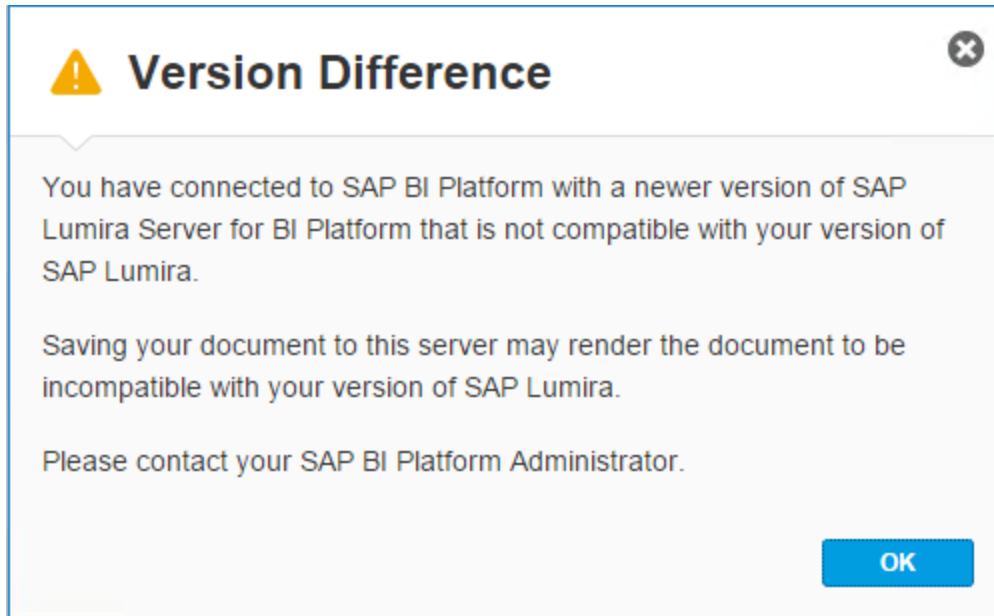
Best practice alert: Before you start the update process, we strongly recommend you to make a note of the folder where your Lumira 1.x documents are stored before performing the update. Because you will need that info later to copy them post add-on update.

Conversion of .LUMS files in Lumira Desktop 1.31.8

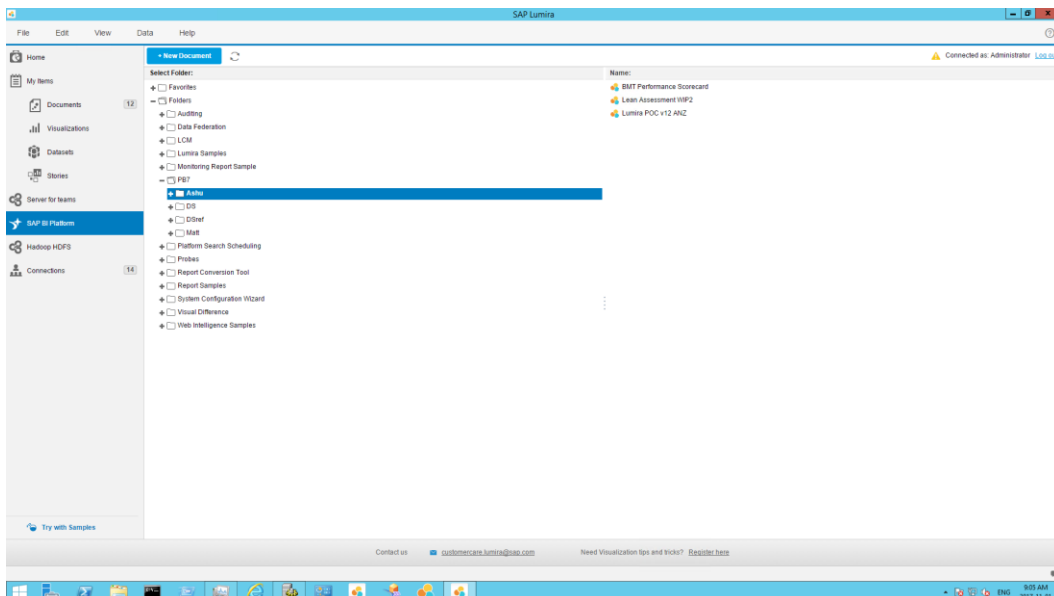
1. Launch Lumira desktop 1.31.8 and connect to the BI platform, which has been updated to Lumira Server 2.x as shown below;



2. You will get the warning message about version difference. Accept and proceed further;

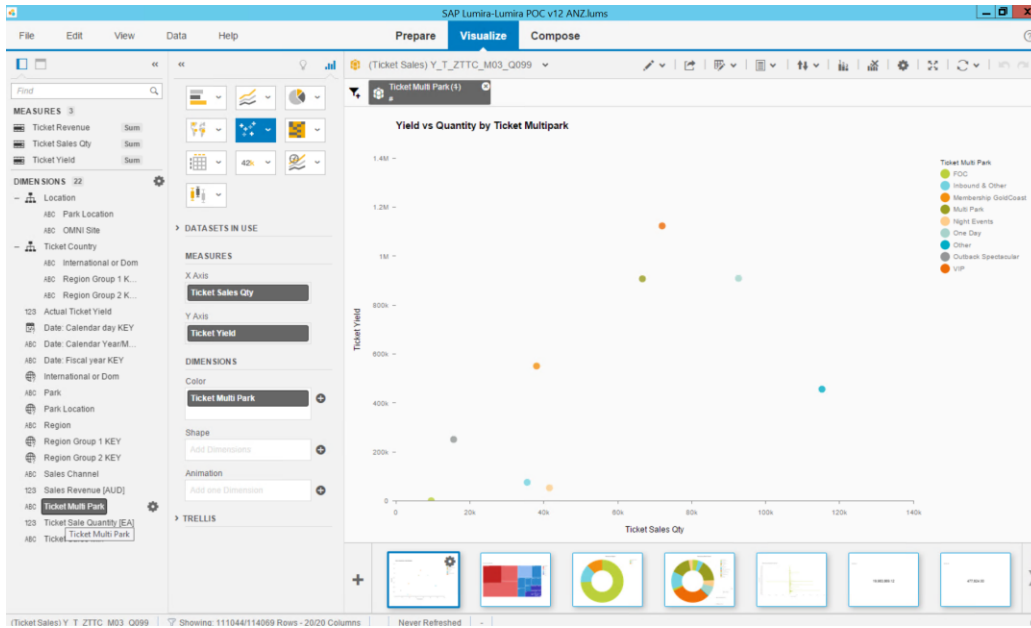


3. Upon successful login, you will see all the .LUMS documents as shown below;



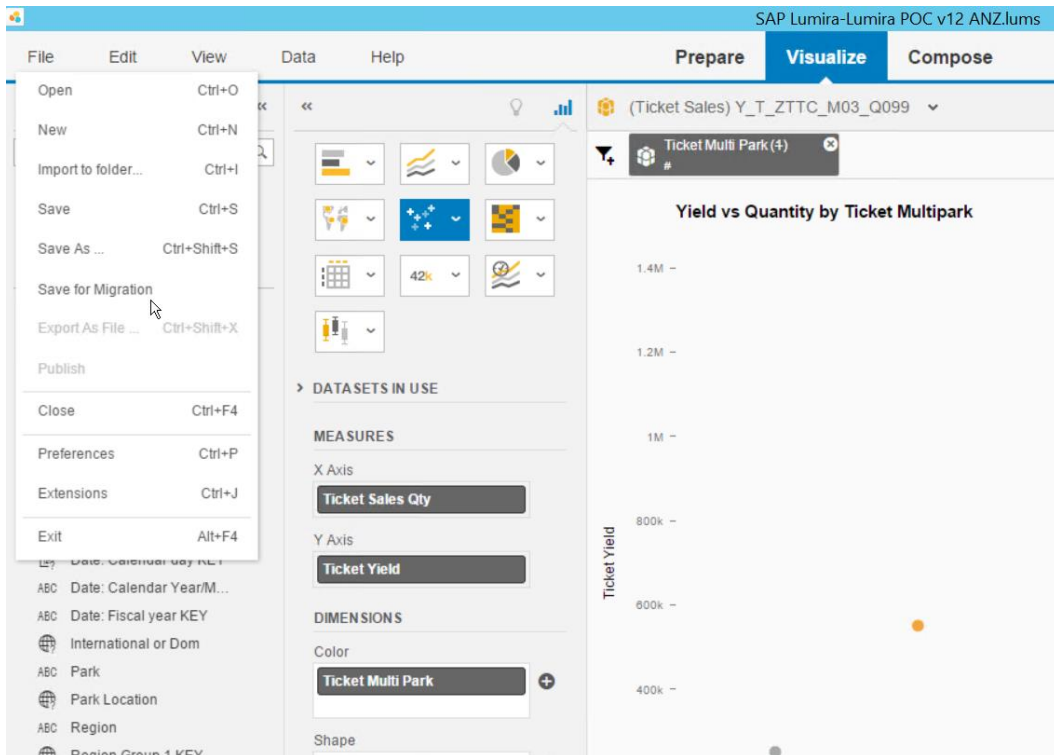
You should now know how to retrieve the .LUMS documents after the server add-on update.

4. Open .LUMS file in Lumira Desktop 1.31.8;



5. Go to “File” -> “Save for Migration”;

(Refer this note for conversion details – <https://launchpad.support.sap.com/#/notes/2509882>)



6. Choose Local to save the .LUMS which is ready to be converted in Lumira Discovery

Save Options for 'Lumira POC v12 ANZ'

Local

Server for teams

SAP BI Platform

Name: Lumira POC v12 ANZ

Location: C:\Users\Administrator\Documents\SAP Lumira Documents

Find

Sales by City

BMT Performance Scorecard

Lumira POC v12 ANZ

Lean Assessment WIP2

Description:

☐ Save without data

Save Cancel

7. You will receive an error if you want to save it back to BIP

Save Options for 'Lumira POC v12 ANZ.lums'

Local

Server for teams

SAP BI Platform

Connected as: Administrator [Log out](#)

Name: Lumira POC v12 ANZ

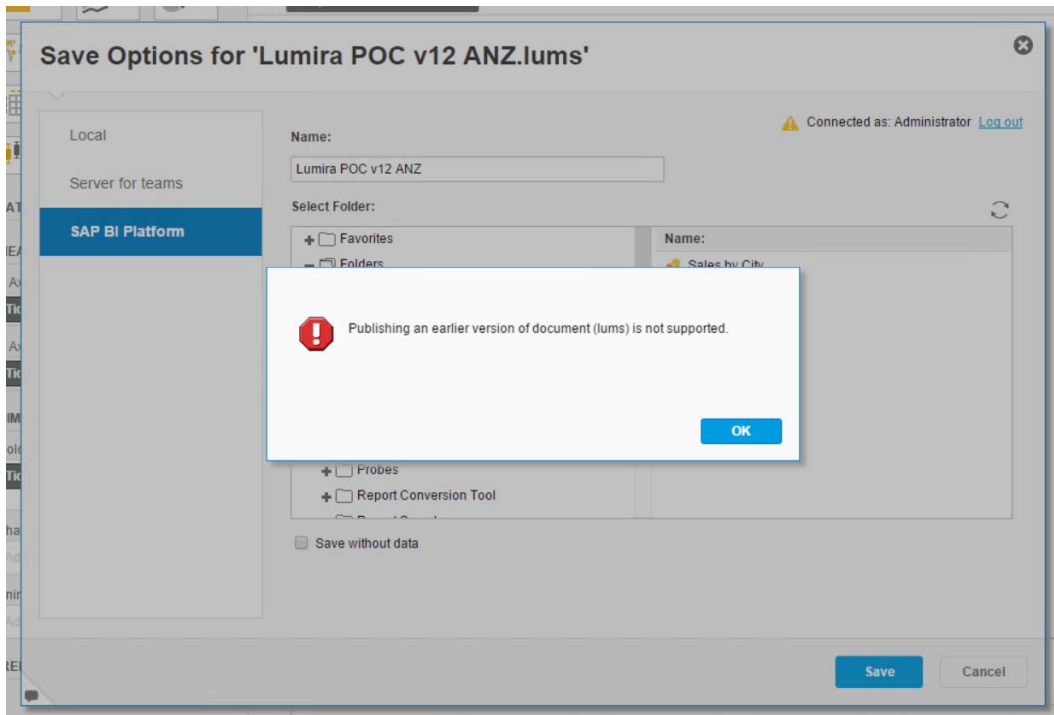
Select Folder:

☐ Favorites
☒ Folders
☐ Auditing
☐ Data Federation
☐ LCM
☐ Lumira Samples
☐ Monitoring Report Sample
☒ PB7
☐ Platform Search Scheduling
☐ Probes
☐ Report Conversion Tool

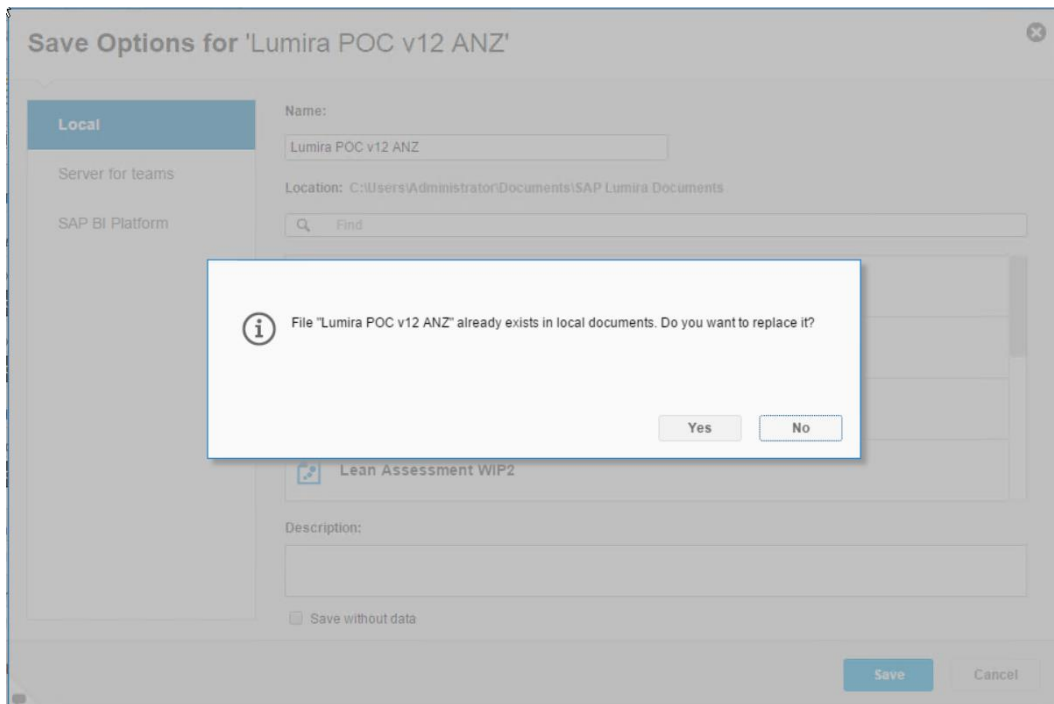
Name: Sales by City

☐ Save without data

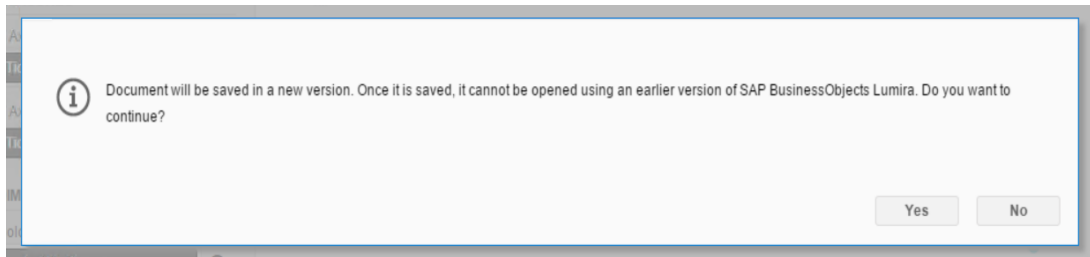
Save Cancel



8. Original .LUMS file will be replaced in the local Lumira desktop repository

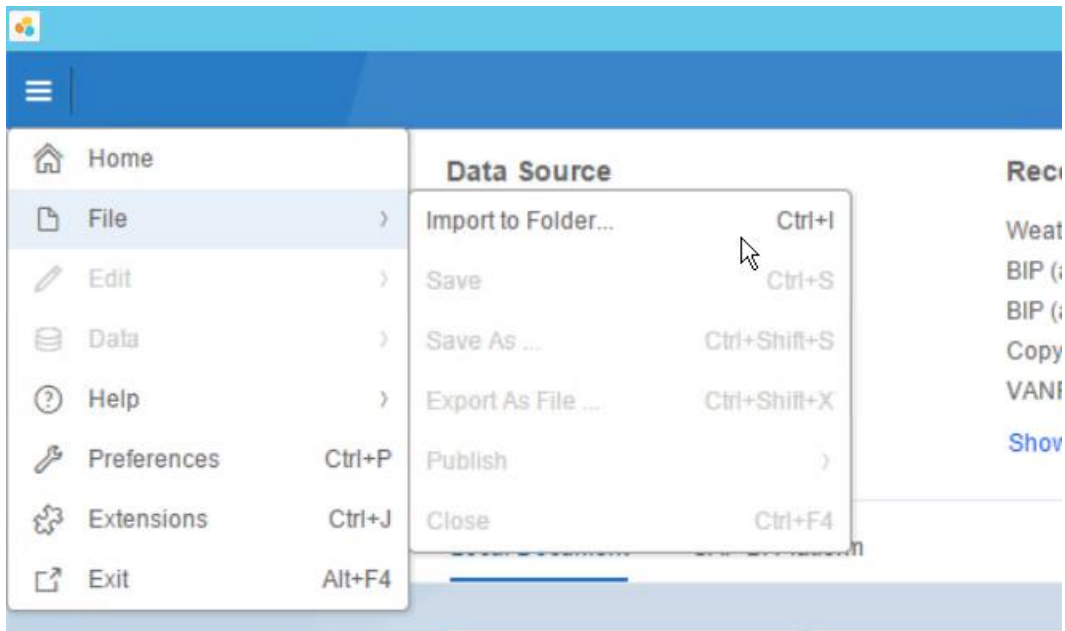


9. Continue

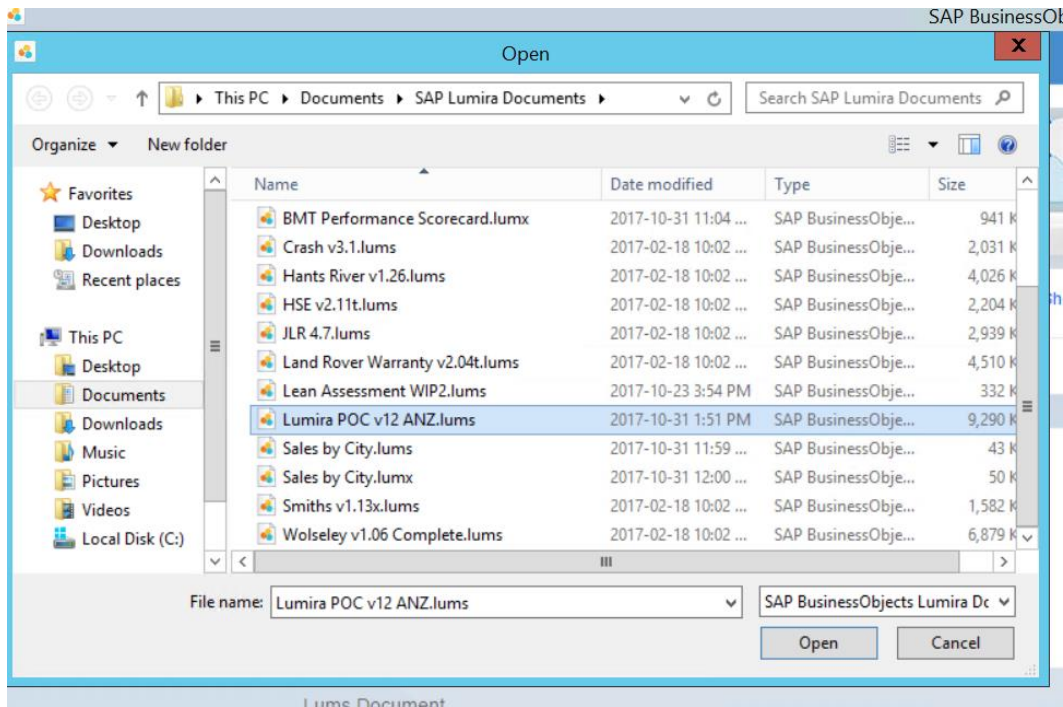


Conversion of .LUMS files in Lumira Desktop 2.0 SP02 Patch1

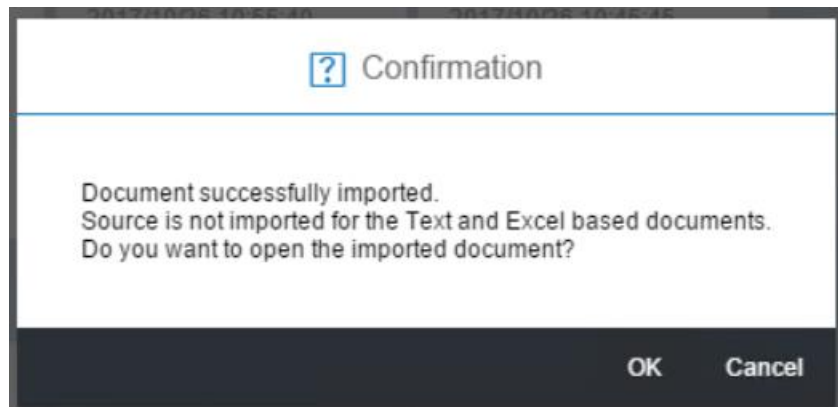
1. Import the .LUMS file to Lumira Discovery



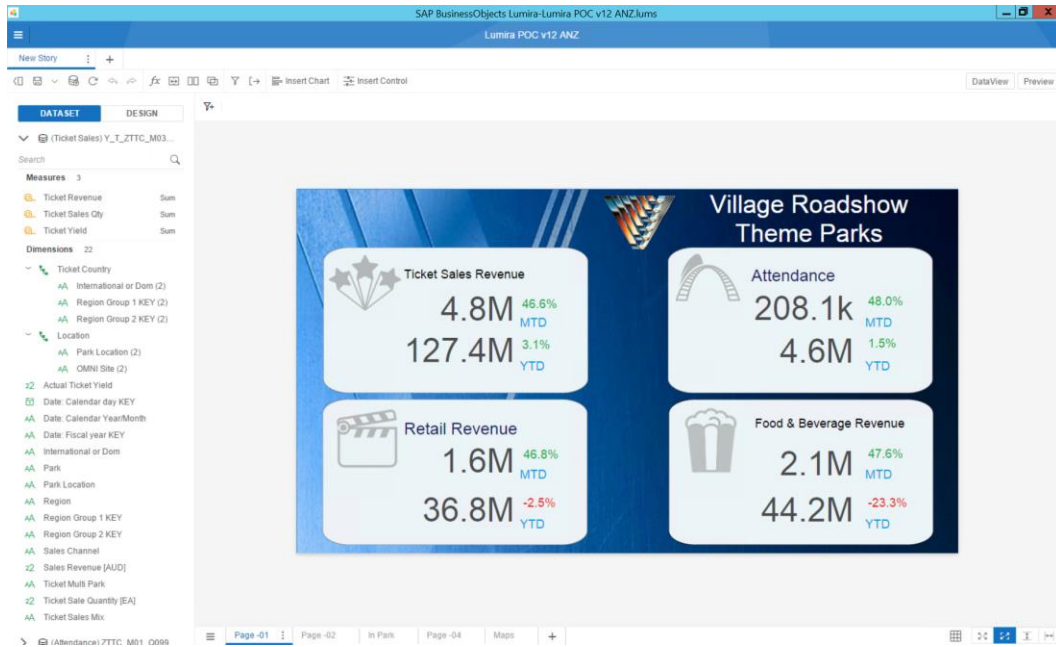
2. Choose the .LUMS where it was being saved to



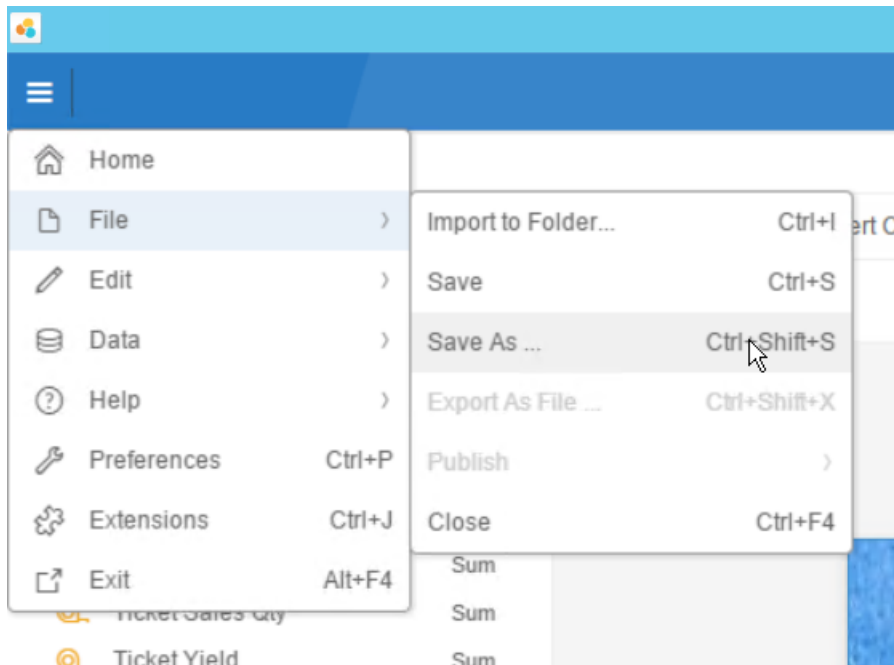
Note: If Lumira Desktop and Lumira Discovery are installed side-by-side, then import is not necessary. Because the users can open the .LUMS file, which has been saved for migration in Lumira Discovery home page under Local Document -> Lums Document



3. After the document is imported, it would be opened automatically in Lumira Discovery



4. Go to File -> Save As



Select "SAP BI Platform" and provide the Server to connect and CMS credentials then hit "Connect"

Save Document

Local
SAP BI Platform

SAP BI Platform

Server : BIPW12R2:6400

User Name : Administrator

Password : *****

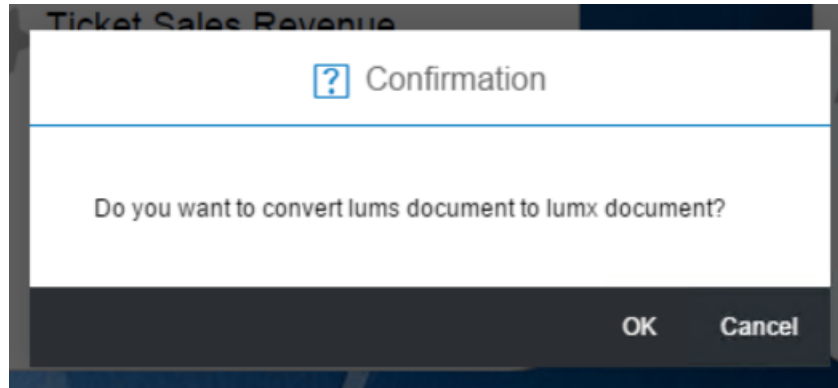
Authentication : Enterprise ▼

Remember me : ☐ Connect

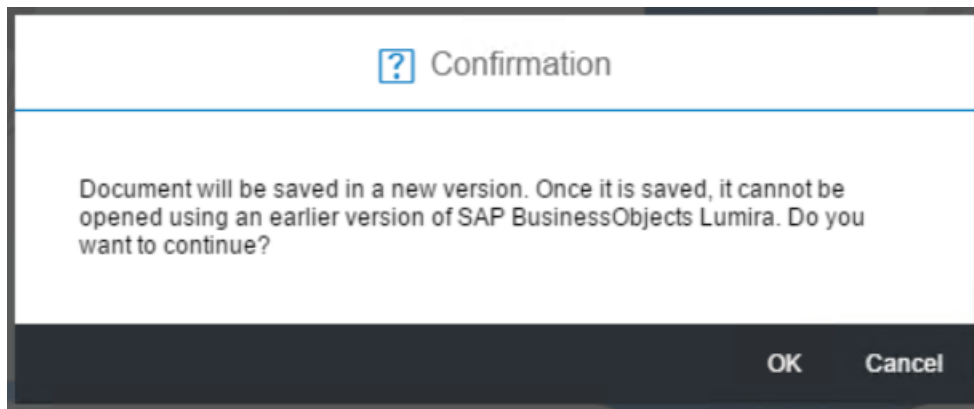
Save
Cancel

Navigate to the destination folder, select it and Save the document.

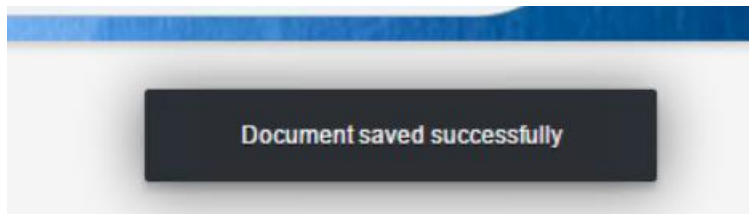
5. Click OK to confirm



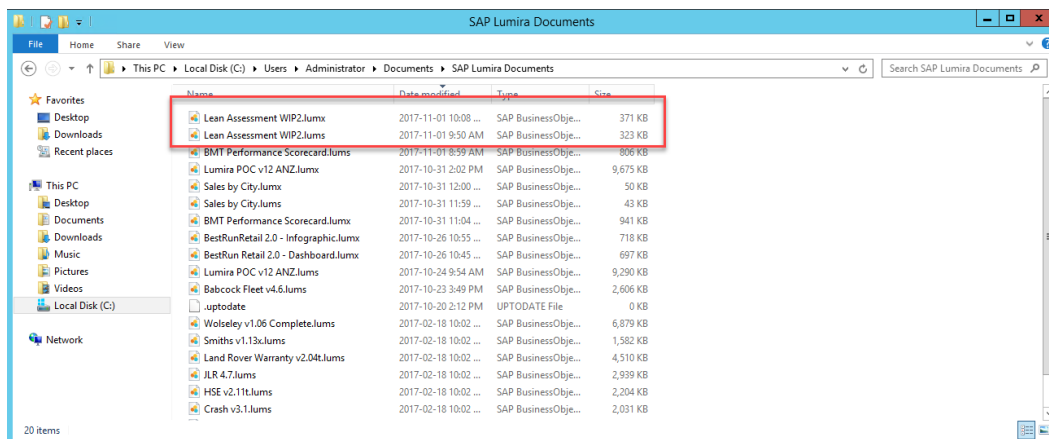
6. Confirm again



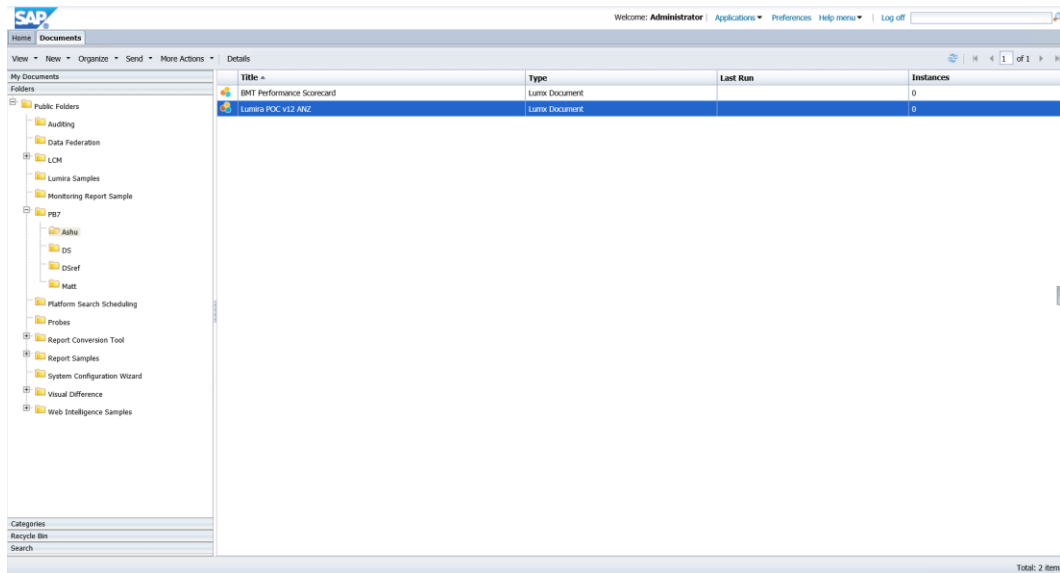
7. Lumira doc in .lumx format should be published back to BIP successfully



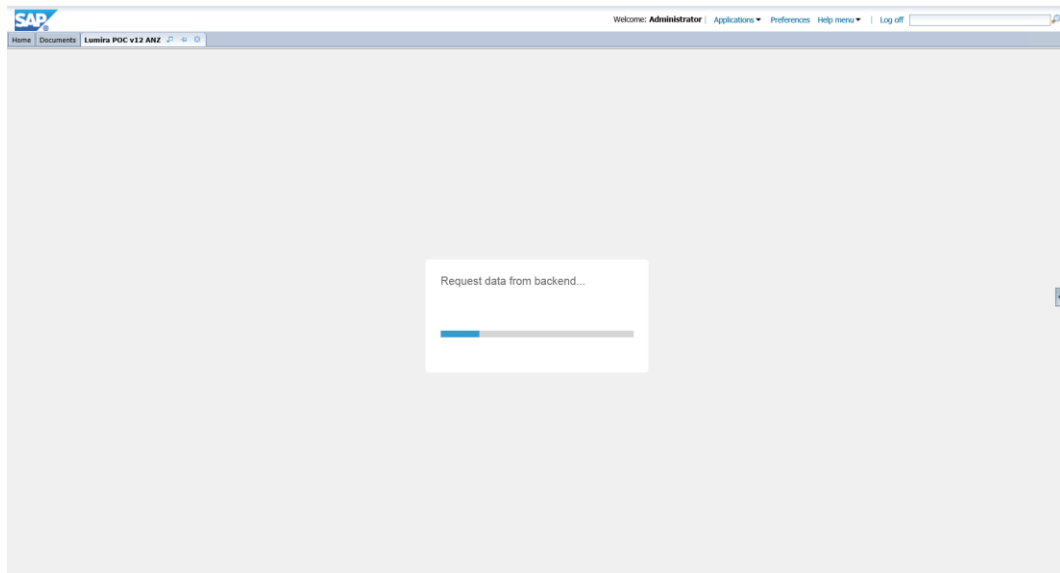
And a local .LUMX file is created locally on the Lumira repository

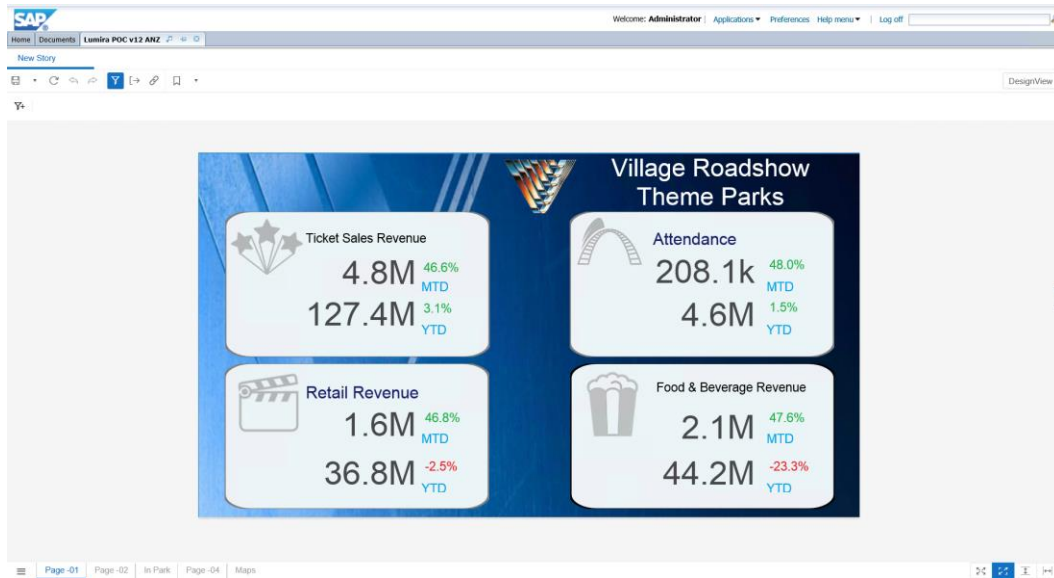


8. Check in BI Launchpad and find the Lumira report is visible and in .LUMX format



9. View the .LUMX doc in BI Launchpad





10. Check in CMC and find the Lumira report is visible and in .LUMX format

Central Management Console

Title	Type	Description	Instances	Date Modified
BMT Performance Scorecard	Lumx Document		0	31-Oct-2017 11:04 AM
Lumira POC v12 ANZ	Lumx Document		0	31-Oct-2017 2:02 PM

Conversion is Done.

****Note:** Make sure to refer the SAP Notes 2509882 and 2538142 before converting your Lumira Documents. More details about these notes are available in the Useful Resources > SAP Notes section of this book.

Conversion of Design Studio 1.x Documents

Note that the conversion of Design Studio 1.x documents is performed in Lumira 2.0 Designer tool. It is a recommended approach due to the changes in Design Studio versions 1.6 and 2.0.

Note: Make sure to refer the SAP Note 2538142 - <https://launchpad.support.sap.com/#/notes/2538142> to learn some aspects around Design Studio documents conversion

Conversion Steps

These are the steps followed in sequence for the successful conversion of Design Studio 1.x documents to Lumira 2.0;

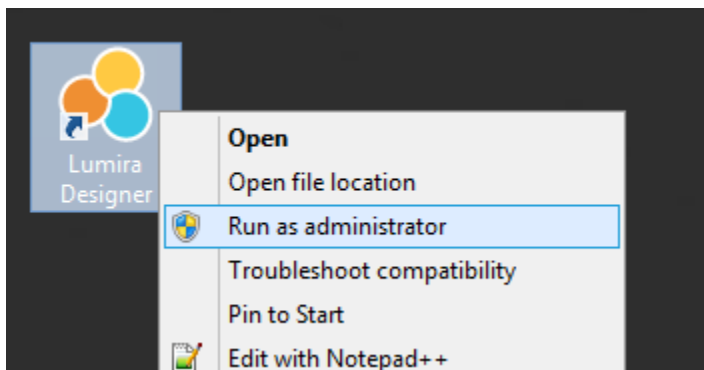
1. Preparing Lumira Designer for Conversion
2. Importing Design Studio Applications
3. Setting the SAPUI5 m Mode
4. Exporting the Design Studio Applications
5. Switching Lumira Designer to Lumira Document Mode
6. Creating Lumira Document
7. Importing Design Studio Applications for Conversion
8. Synchronizing changes with BI Platform
9. Conversion Validation

Now, let's look how these steps were executed in the test environment.

Preparing Lumira Designer for Conversion

In order to prepare the Lumira Designer for conversion, make sure to run it in BI platform legacy mode first;

1. Open Lumira Designer and run as administrator;



Provide the login credentials to connect to SAP BI Platform Server.

SAP BusinessObjects Lumira Documents Mode

SAP BusinessObjects

Lumira Designer


Enter your SAP BusinessObjects BI Platform credentials:

Web Service URL:

User Name:

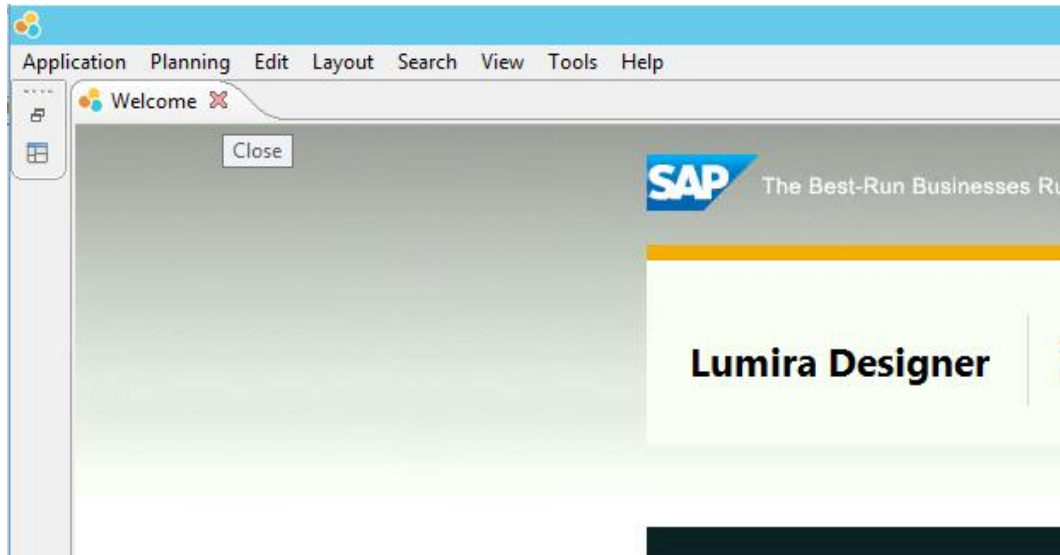
Password:

Authentication:

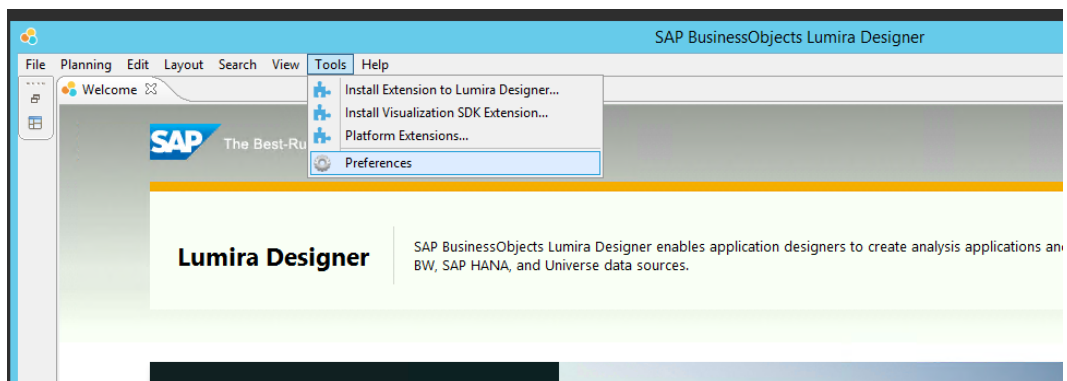


Lumira Designer loads with a splash screen as below

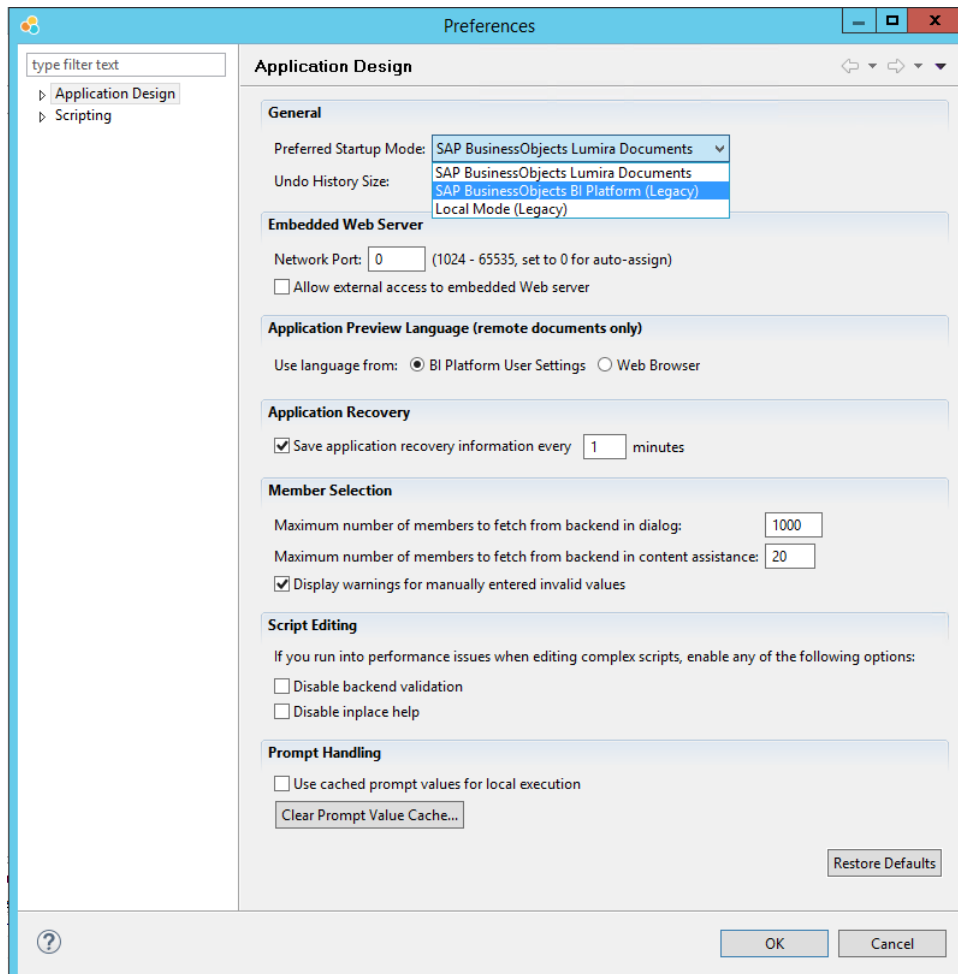




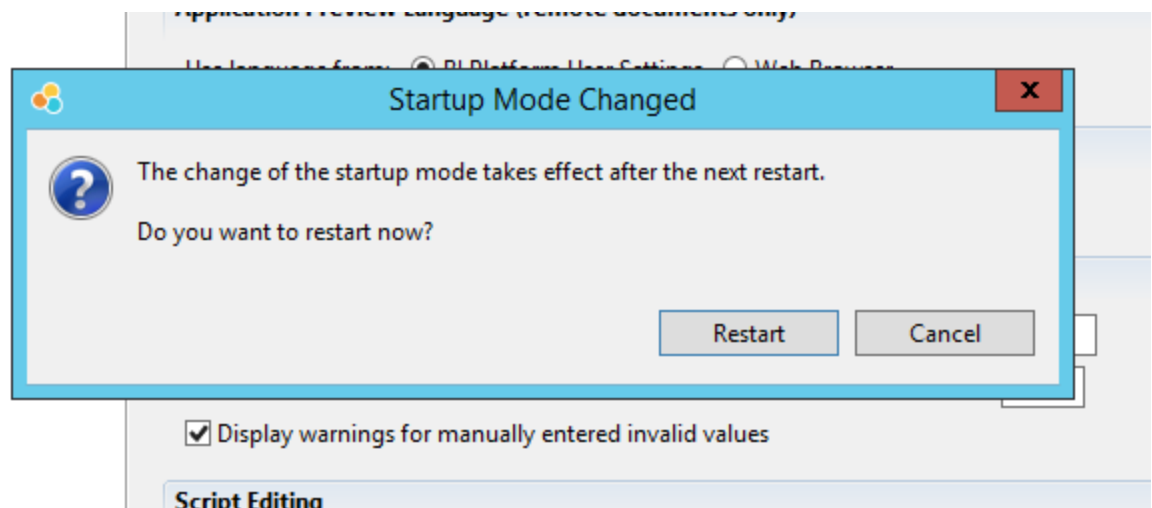
Upon loading, choose Tools > preferences



The default startup mode is “SAP BusinessObjects Lumira Documents”. For performing document conversion, you will need to change this to “SAP BusinessObjects BI Platform (Legacy)” mode and click ok.



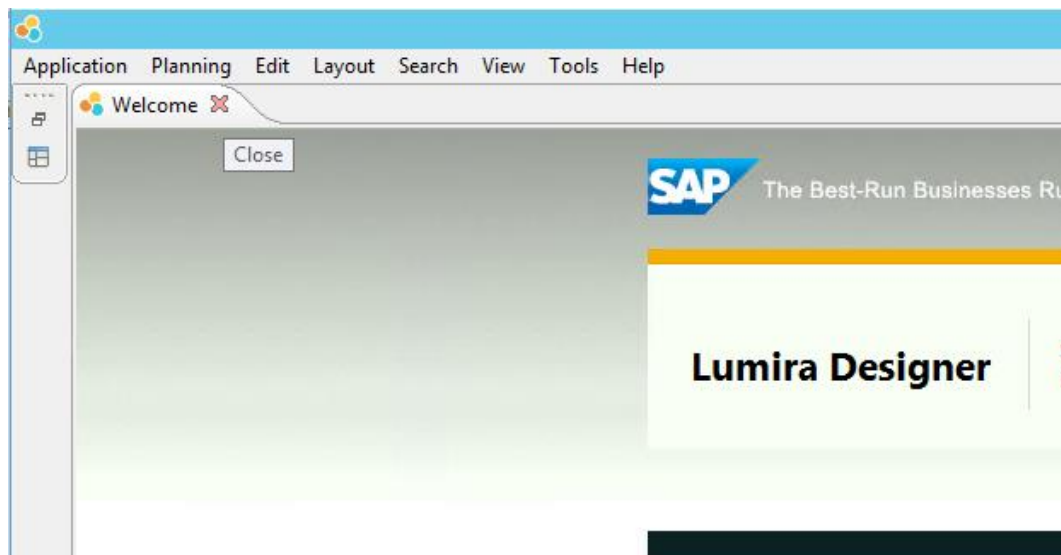
This prompts you to restart Lumira designer. Choose yes.



Login to BI platform again when prompted



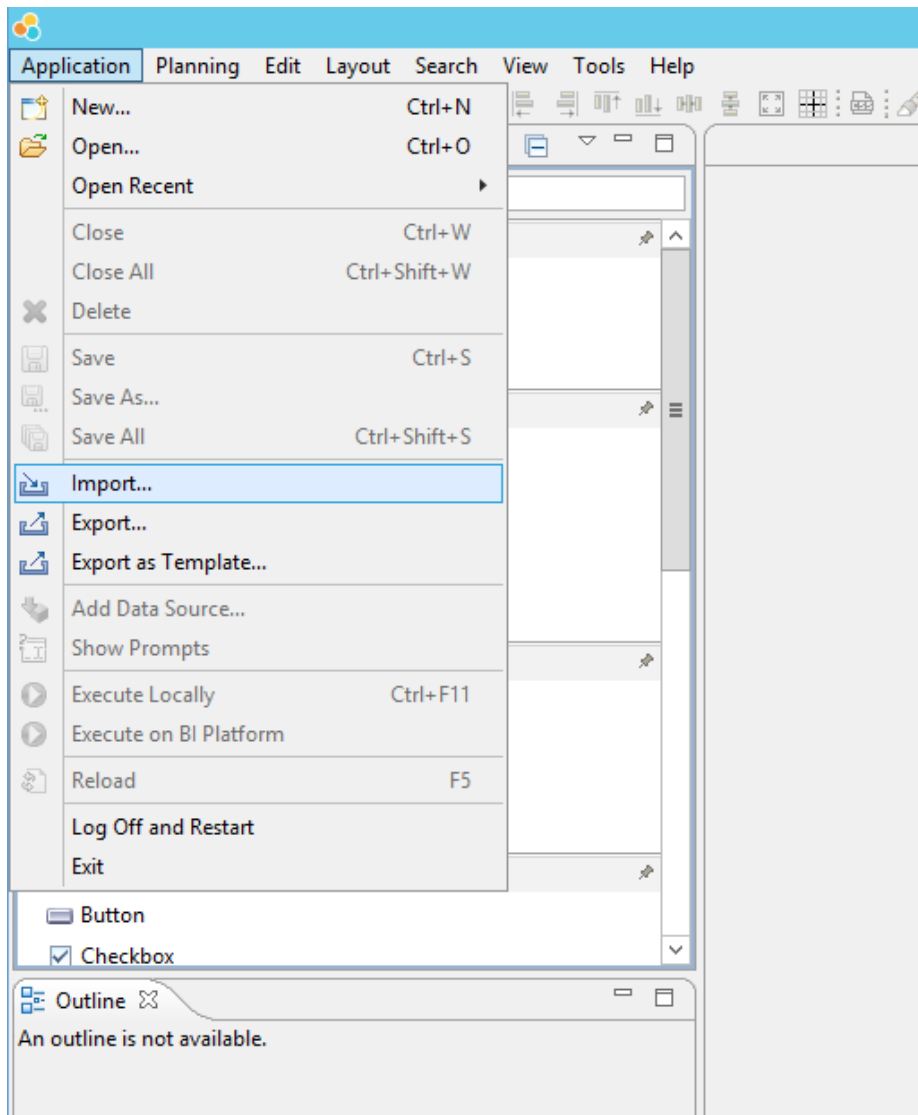
Close (red x) the default welcome tab to reveal the designer panels



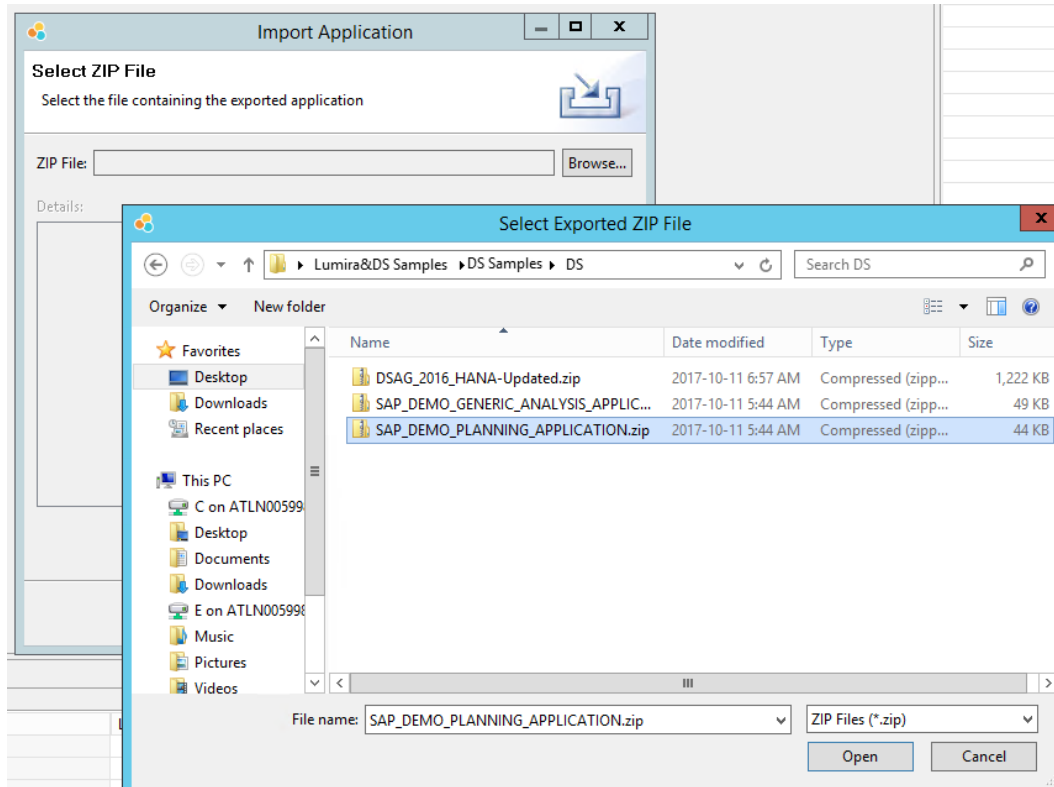
Importing Design Studio Applications available on local drives into BI platform

Note: In this scenario, we assume that you have exported design studio applications as .ZIP files using SAP Design Studio into a local folder. If you already have your Design Studio applications in the BI Platform then you may skip this section.

On Lumira Designer, Click on the following menu option: **Application> Import**



Choose to Browse, navigate and pick the legacy design studio application to be converted to Lumira 2.x.



Click Next;

Import Application

Select ZIP File

Select the file containing the exported application

ZIP File:

C:\Users\Administrator\Desktop\Lumira&DS Samples\

Browse...

Details:

Application	SAP_DEMO_PLANNING_APPLICATION
Content Version	1581
Uses SAPUI5 m Controls	No
Created By User	D032884
Creation Time	10/14/15 4:53 AM
Last Modified By User	D032884
Last Modification Time	10/14/15 4:53 AM
Exported By User	D032884
Export Time	10/14/15 10:50 AM
Source Platform	Local Mode (Legacy)

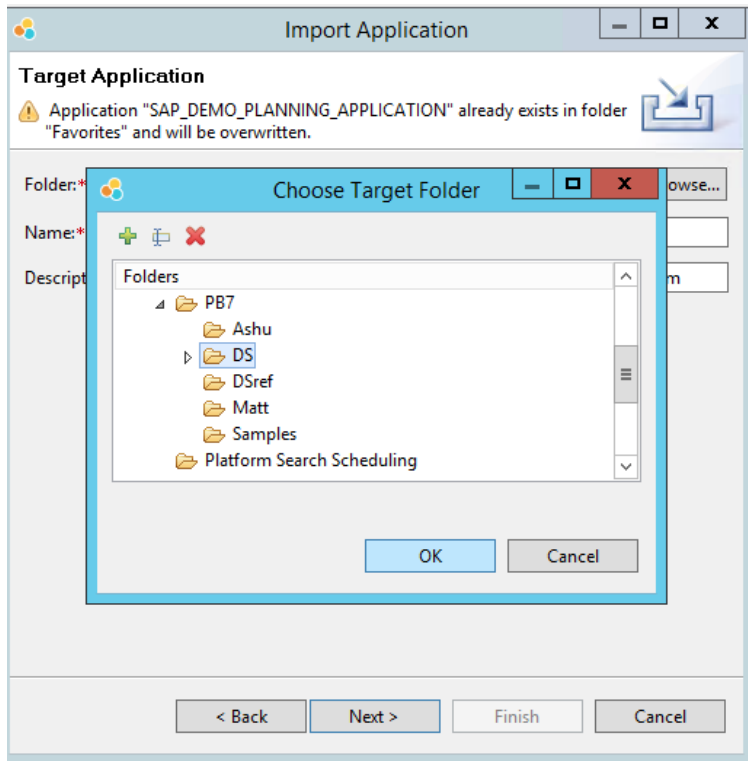
< Back

Next >

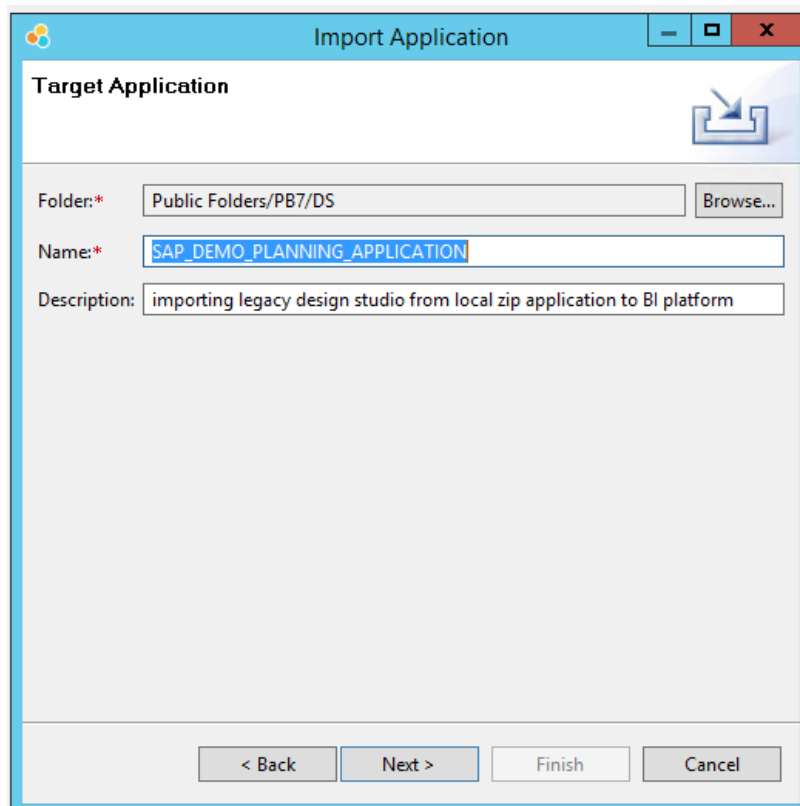
Finish

Cancel

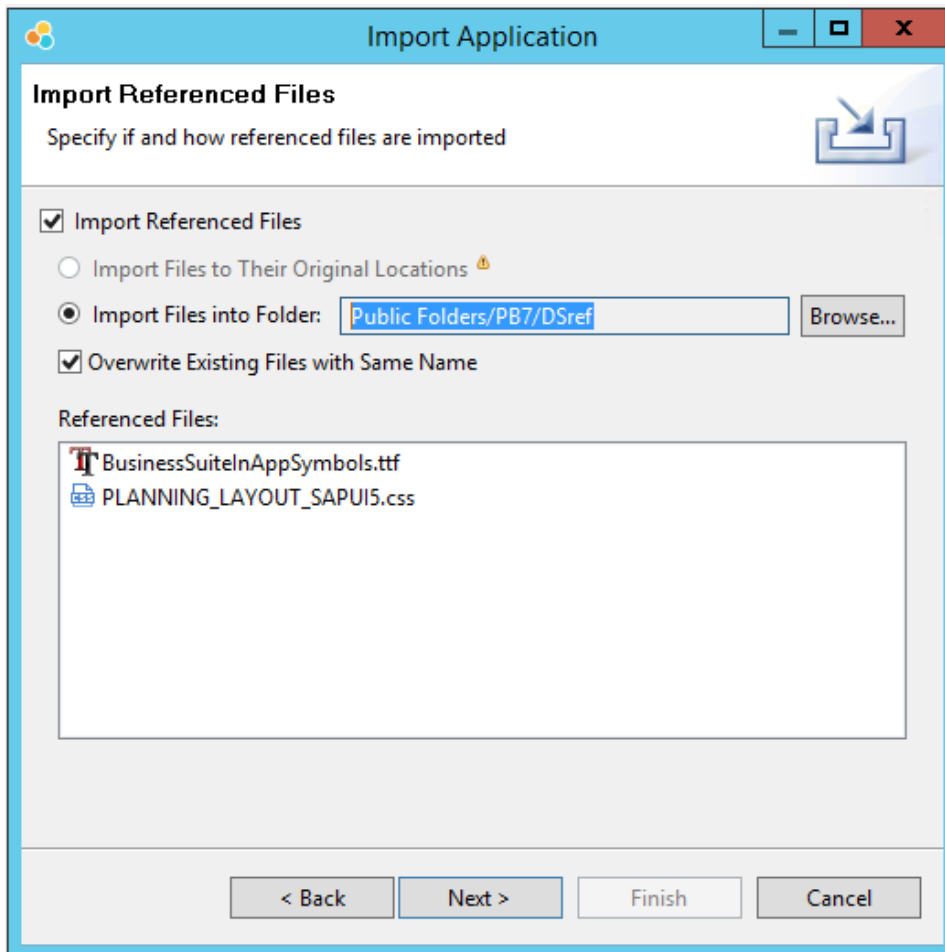
Choose the target folder in BI platform. If the file already exists, you can choose to overwrite later if desired.



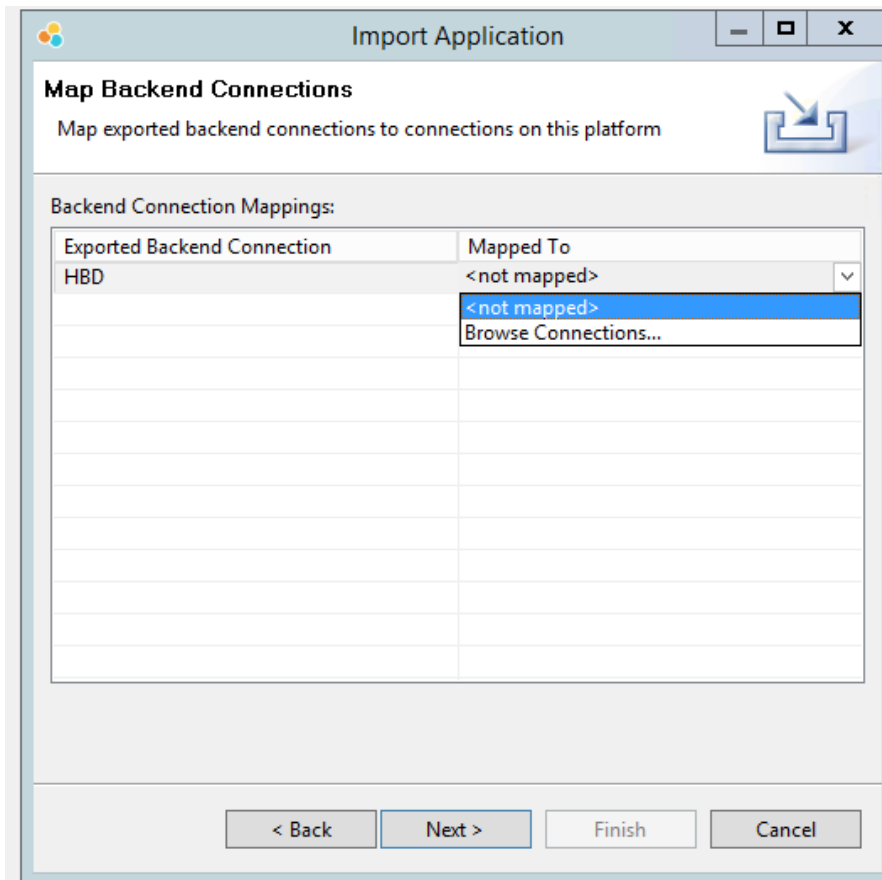
After choosing target folder in the BI Platform



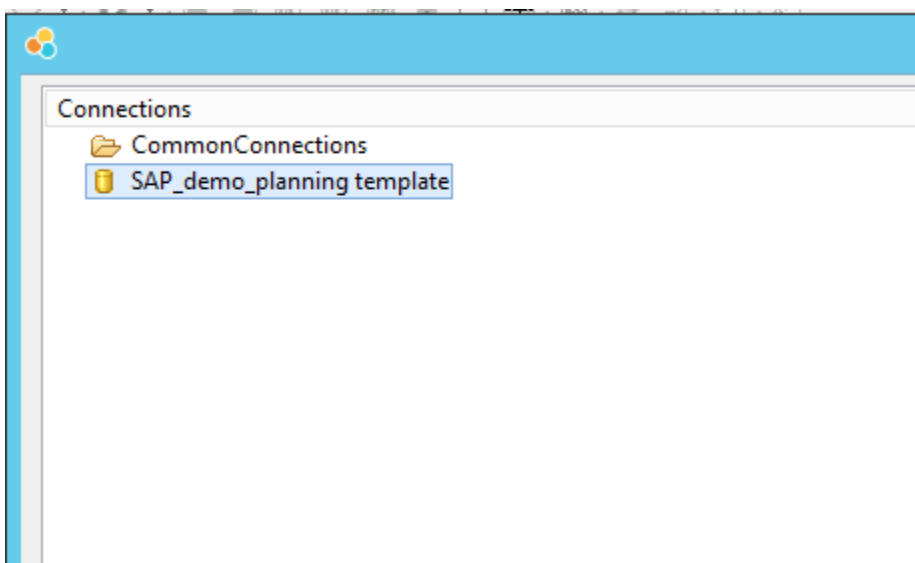
Choose a location to import the referenced files having clicked on browse option as shown below. Once done, Click Next.



Choose to map any backend / database connections by clicking on the dropdown arrow and choosing to browse connections.



Map connections by choosing the relevant connection as shown below



Click next after confirming the connection has been mapped as below

The screenshot shows the 'Import Application' dialog box with the 'Map Backend Connections' tab selected. The title bar says 'Import Application'. Below the title bar, the tab is labeled 'Map Backend Connections' with a subtitle 'Map exported backend connections to connections on this platform'. A table titled 'Backend Connection Mappings:' contains one row with 'Exported Backend Connection' as 'HBD' and 'Mapped To' as 'SAP_demo_planning template'. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

Exported Backend Connection	Mapped To
HBD	SAP_demo_planning template

Review the summary and click Finish

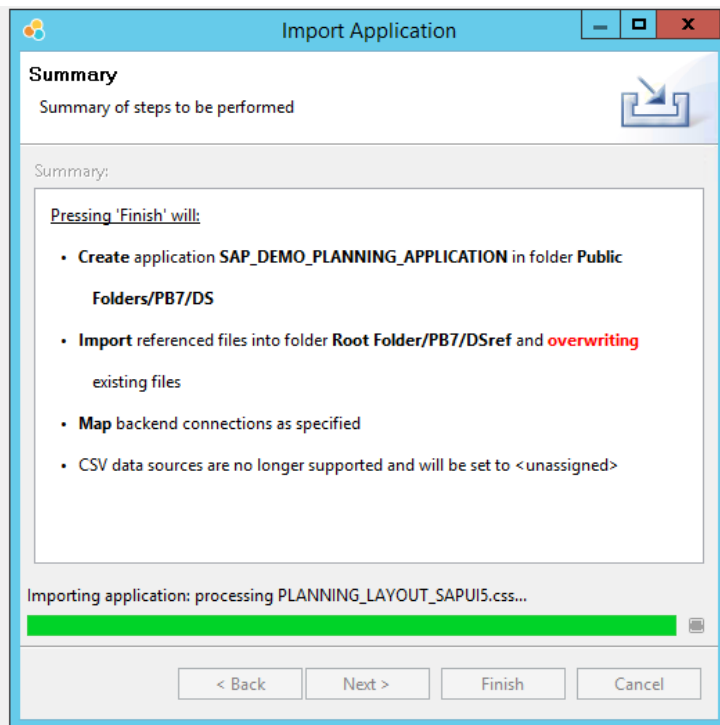
The screenshot shows the 'Import Application' dialog box with the 'Summary' tab selected. The title bar says 'Import Application'. Below the title bar, the tab is labeled 'Summary' with a subtitle 'Summary of steps to be performed'. The 'Summary:' section contains a list of actions: 'Pressing 'Finish' will:', 'Create application SAP_DEMO_PLANNING_APPLICATION in folder Public Folders/PB7/DS', 'Import referenced files into folder Root Folder/PB7/DSref and overwriting existing files', 'Map backend connections as specified', and 'CSV data sources are no longer supported and will be set to <unassigned>'. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

Summary:

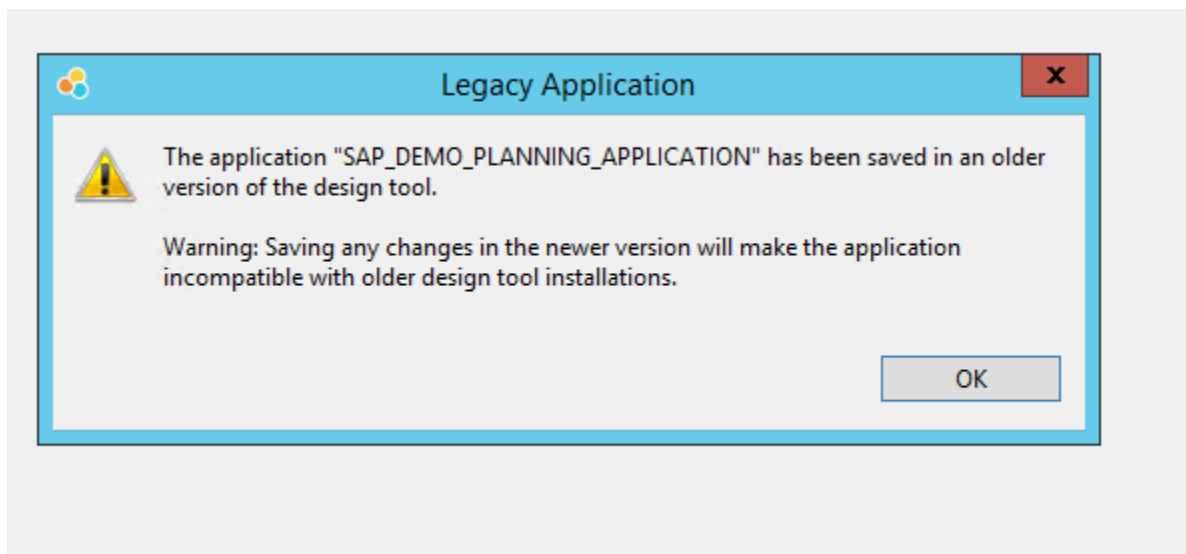
Pressing 'Finish' will:

- Create application **SAP_DEMO_PLANNING_APPLICATION** in folder **Public Folders/PB7/DS**
- Import referenced files into folder **Root Folder/PB7/DSref** and **overwriting** existing files
- Map backend connections as specified
- CSV data sources are no longer supported and will be set to <unassigned>

A status window will show the import processing as below

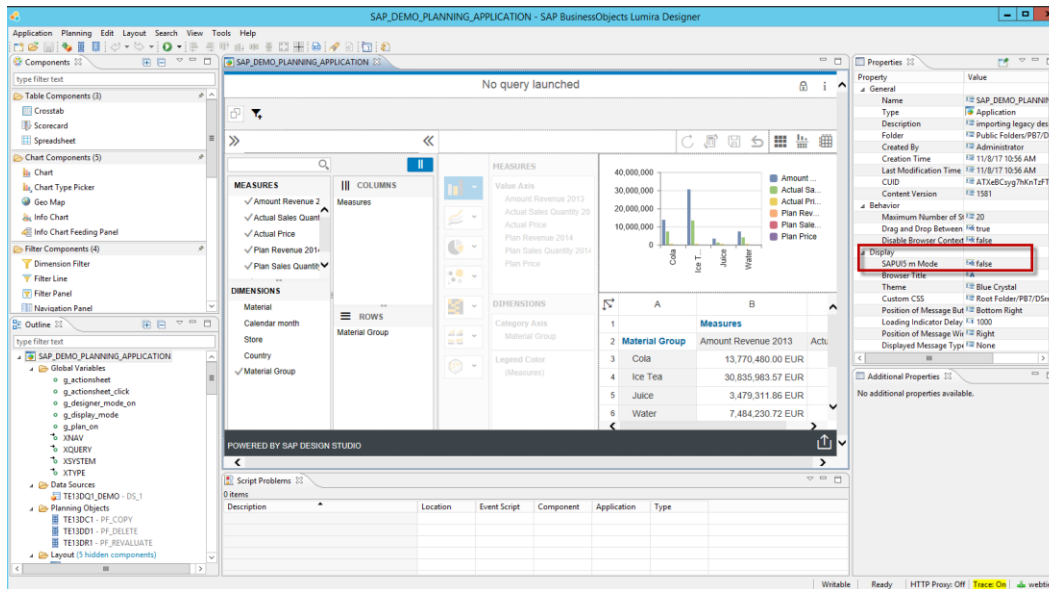


Legacy Warning: you will get warnings as below indicating that the Design studio application is a legacy or 1.x application. Click ok and proceed with the import and open the imported application.



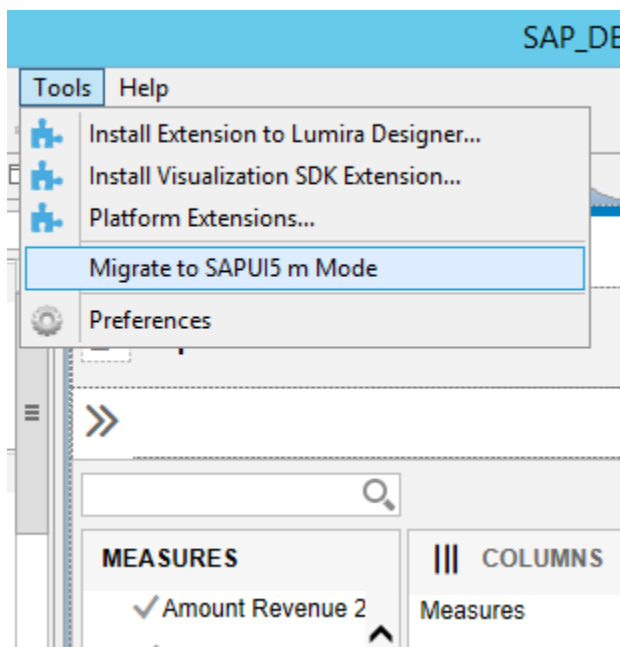
Setting the SAPUI5 m Mode to true

Upon importing a legacy Design studio application, it shows that the “SAPUI5 m Mode” is false which means it is not yet ready for conversion as shown below;

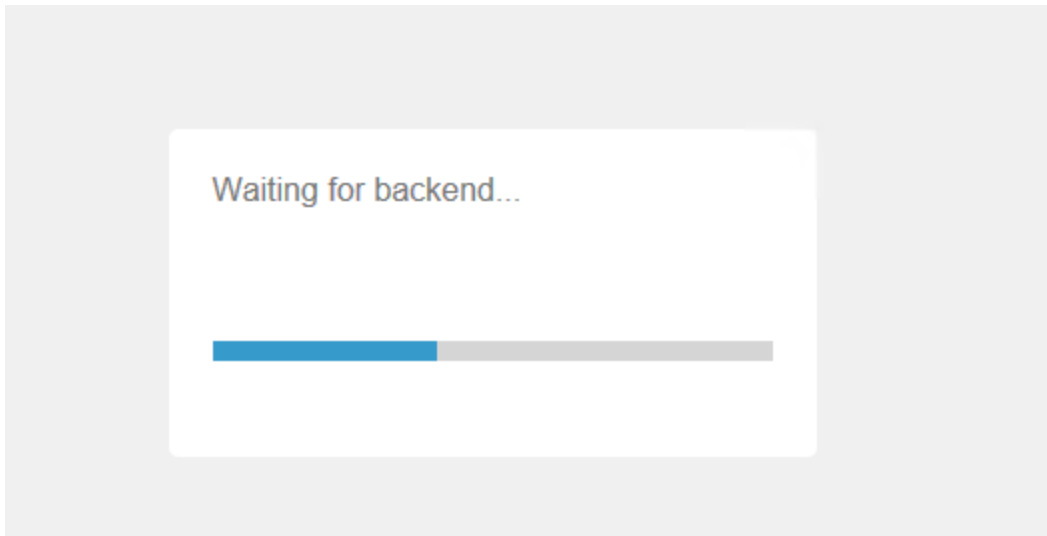


To convert to Lumira, the DS application will need to be migrated to “SAPUI5 m Mode” as shown below.

Click on Tools > Migrate to SAPUI5 m Mode



The application will refresh and reload

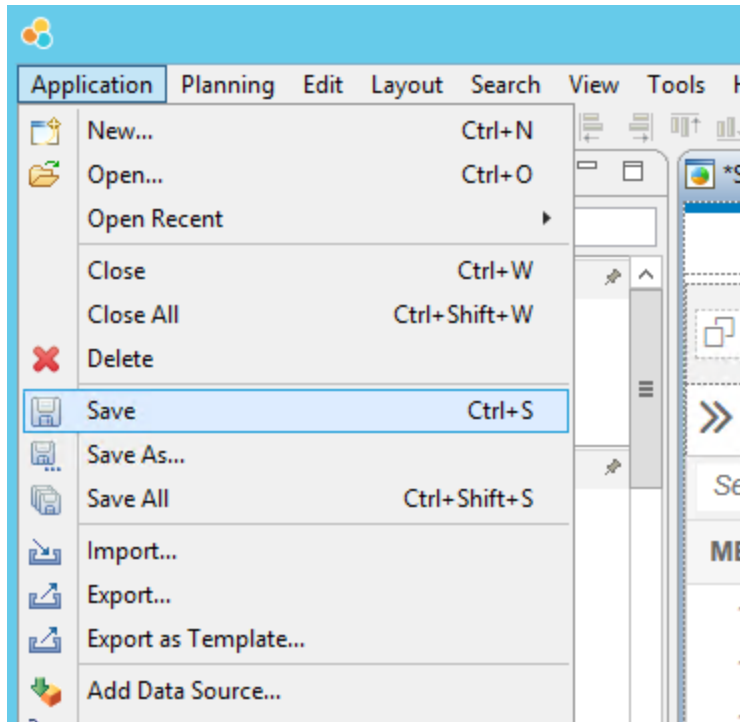


Upon loading, you will notice that SAPUI5 m Mode is True.

The screenshot shows the SAP BusinessObjects Lumira Designer interface. The main workspace displays a dashboard with a bar chart and a table. The bar chart shows 'Amount Revenue 2013' for various materials. The table below it lists materials and their revenue for 2013. The Properties panel on the right shows the 'Display' property set to 'SAPUI5 m Mode' with a value of 'true'.

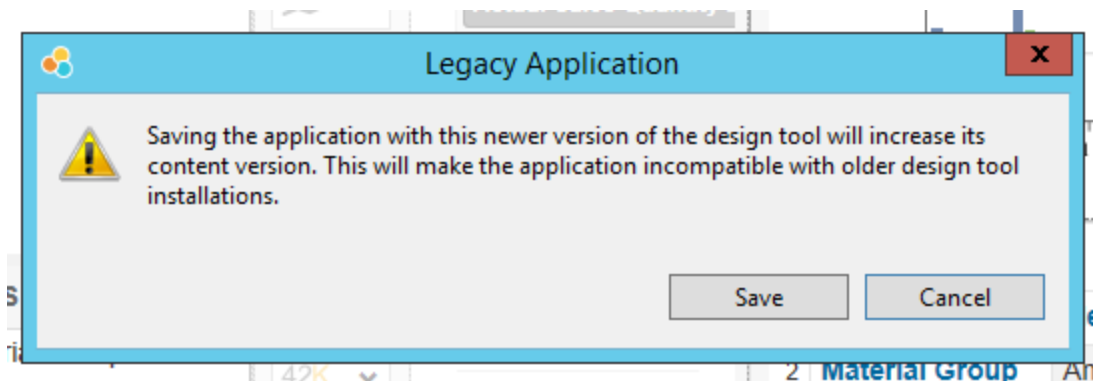
Material Group	Amount Revenue 2013	Actual Price
Cola	13,770,480.00 EUR	
Ice Tea	30,835,963.57 EUR	
Juice	3,479,311.86 EUR	
Water	7,484,230.72 EUR	

Save the document to BI Platform

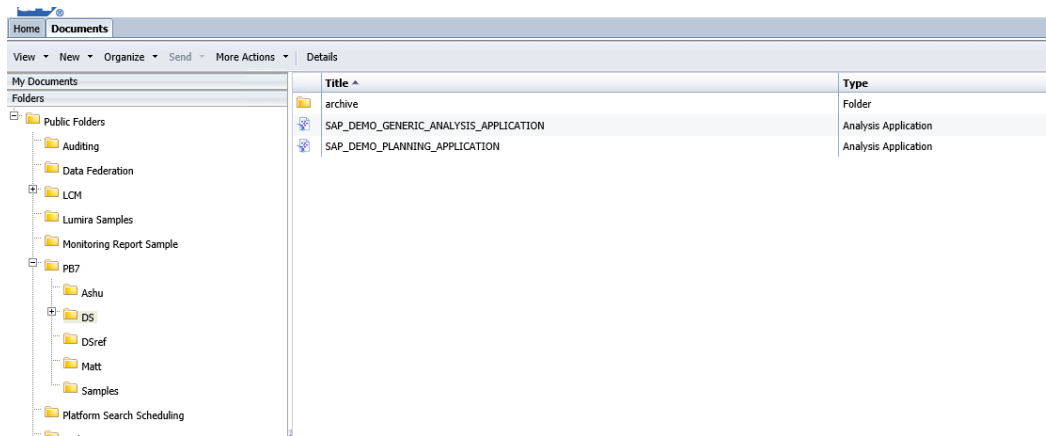


You will get Legacy warnings that the application will be incompatible with older tool versions.

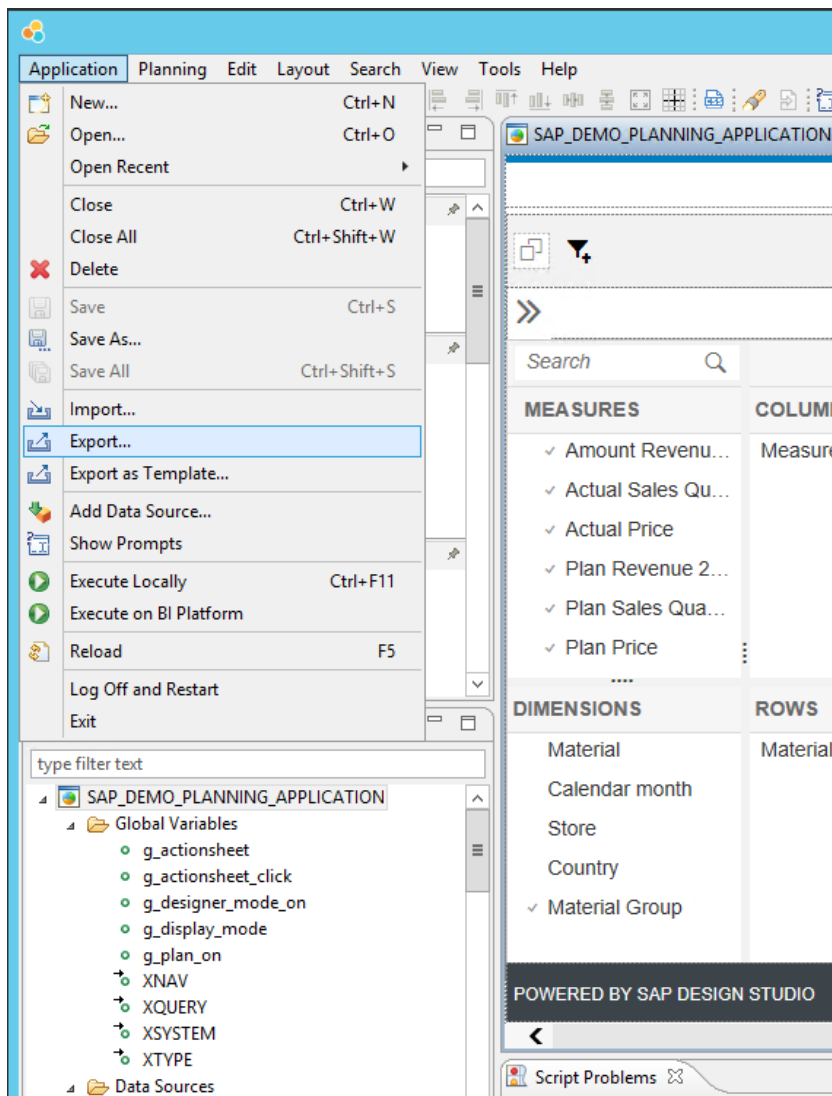
Click Save.



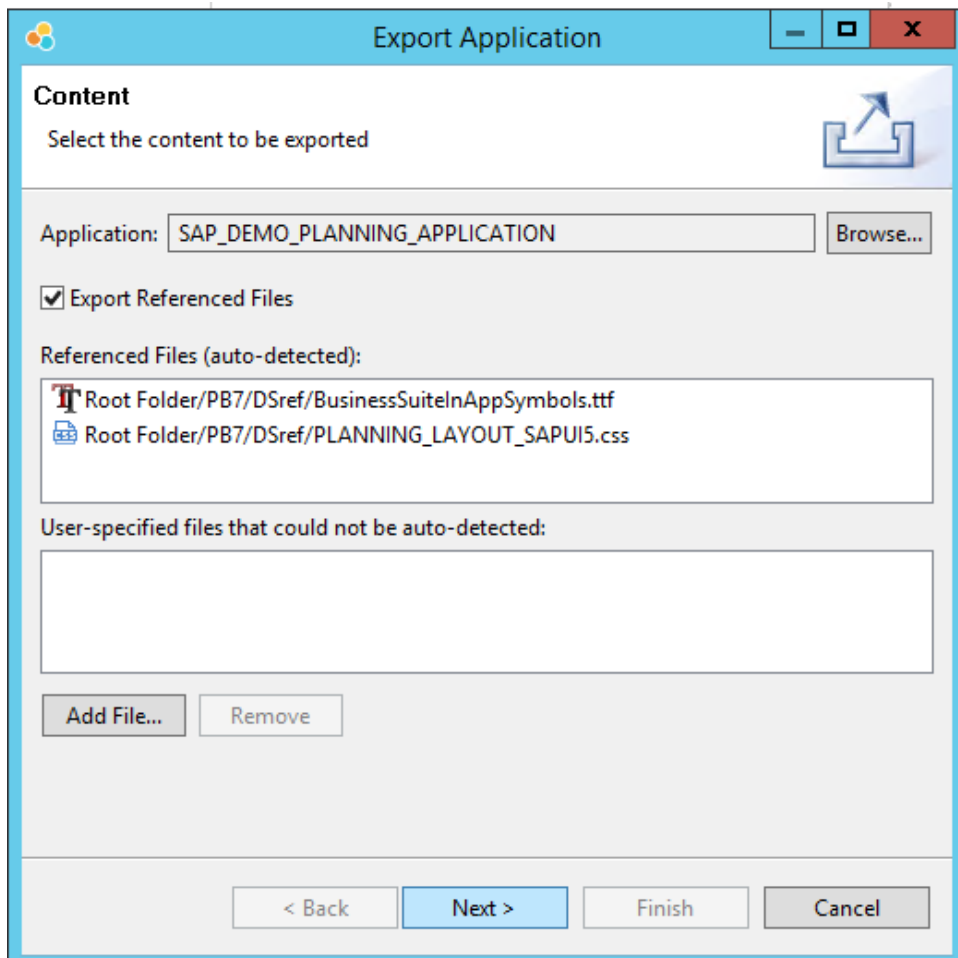
Upon saving, you will now be able to see the Design Studio applications on the BI platform when viewed in BI Launchpad



Exporting the Design Studio applications into a local folder for Lumira conversion
Choose to export the “migration enabled” design studio application as shown below -



Follow the export application wizard and choose the folder to export as desired



The image shows a Windows-style dialog box titled "Export Application". It has a blue header bar with a logo on the left and standard window controls (minimize, maximize, close) on the right. The main area is titled "Content" and contains the instruction "Select the content to be exported" with a folder icon. Below this, there is a text field for "Application:" containing "SAP_DEMO_PLANNING_APPLICATION" and a "Browse..." button. A checkbox labeled "Export Referenced Files" is checked. Under the heading "Referenced Files (auto-detected):", there is a list box containing two entries: "Root Folder/PB7/DSref/BusinessSuiteInAppSymbols.ttf" (with a font icon) and "Root Folder/PB7/DSref/PLANNING_LAYOUT_SAPUI5.css" (with a CSS icon). Below this list is a section for "User-specified files that could not be auto-detected:" with an empty list box. At the bottom of this section are "Add File..." and "Remove" buttons. The footer of the dialog contains four buttons: "< Back", "Next >" (highlighted in blue), "Finish", and "Cancel".



Export Application

Content
Select the content to be exported

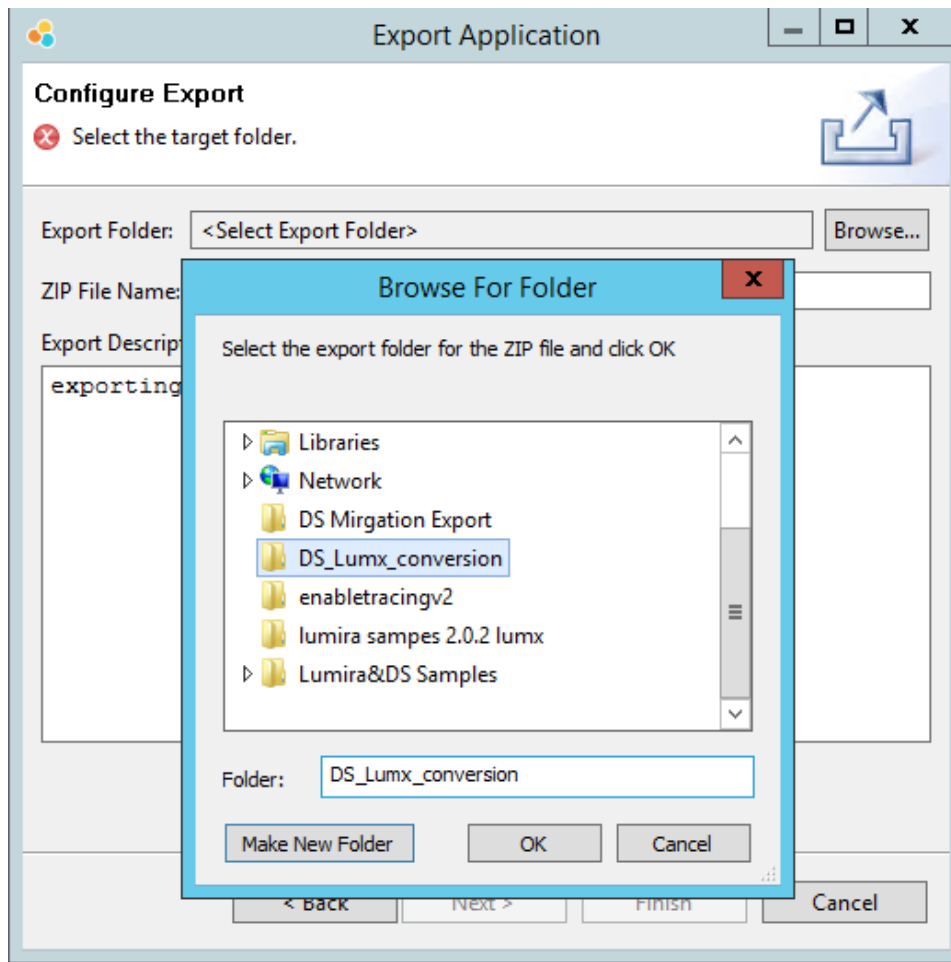
Application:

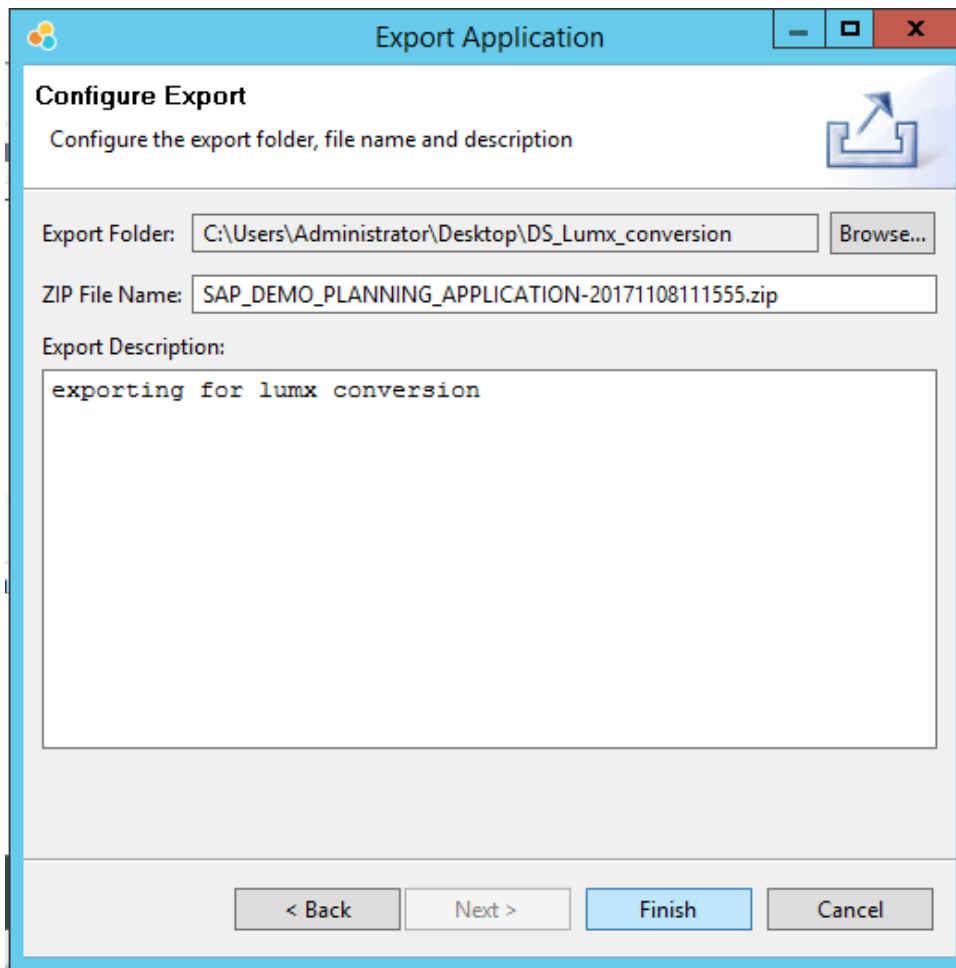
☒ Export Referenced Files

Referenced Files (auto-detected):

-  Root Folder/PB7/DSref/BusinessSuiteInAppSymbols.ttf
-  Root Folder/PB7/DSref/PLANNING_LAYOUT_SAPUI5.css

User-specified files that could not be auto-detected:





The image shows a Windows-style dialog box titled "Export Application". It has a blue header bar with standard window controls (minimize, maximize, close). Below the header, the title "Export Application" is centered. The main area is titled "Configure Export" and contains the instruction "Configure the export folder, file name and description". There is a blue icon of a folder with an arrow pointing out. The form includes three input fields: "Export Folder:" with the path "C:\Users\Administrator\Desktop\DS_Lumx_conversion" and a "Browse..." button; "ZIP File Name:" with the text "SAP_DEMO_PLANNING_APPLICATION-20171108111555.zip"; and "Export Description:" with a text area containing "exporting for lumx conversion". At the bottom, there are four buttons: "< Back", "Next >", "Finish" (highlighted in blue), and "Cancel".

Export Application

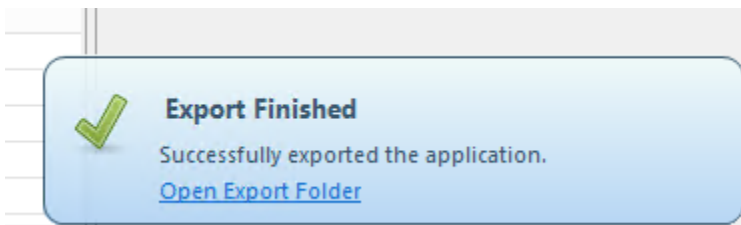
Configure Export
Configure the export folder, file name and description

Export Folder: C:\Users\Administrator\Desktop\DS_Lumx_conversion **Browse...**

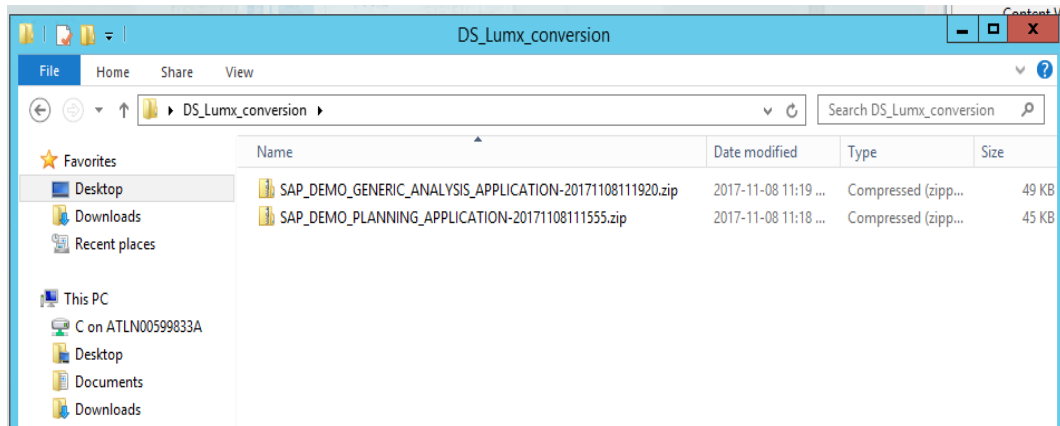
ZIP File Name: SAP_DEMO_PLANNING_APPLICATION-20171108111555.zip

Export Description:
exporting for lumx conversion

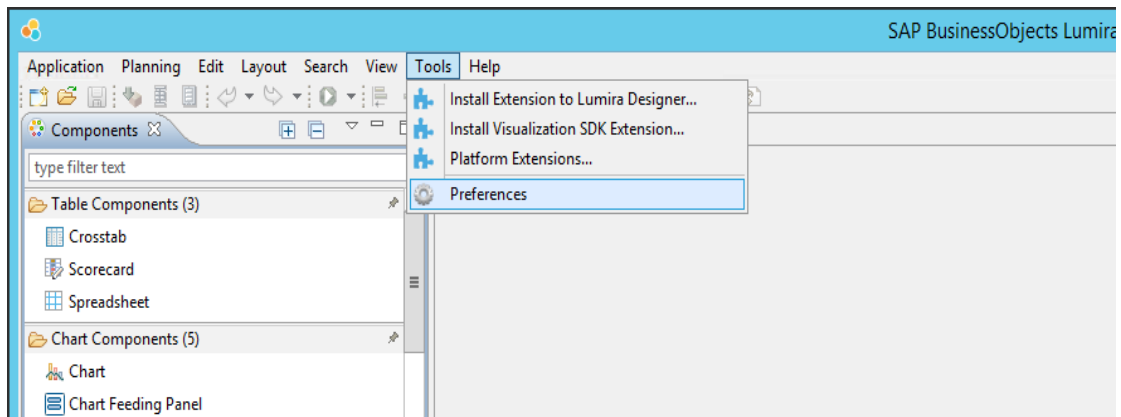
< Back Next > **Finish** Cancel

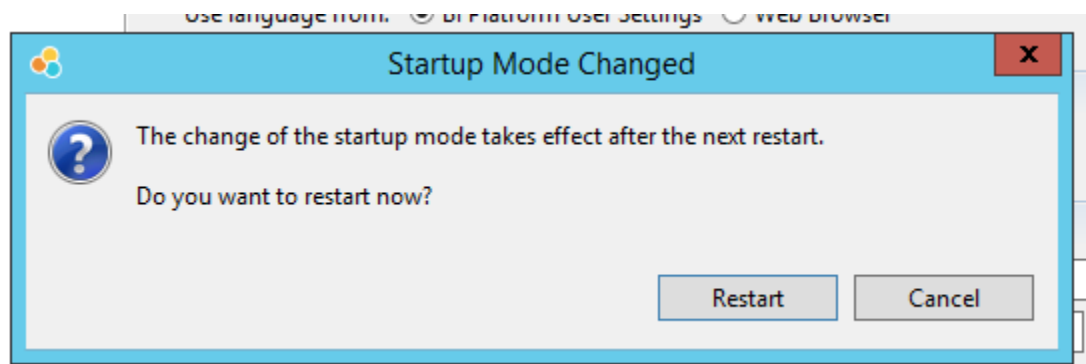
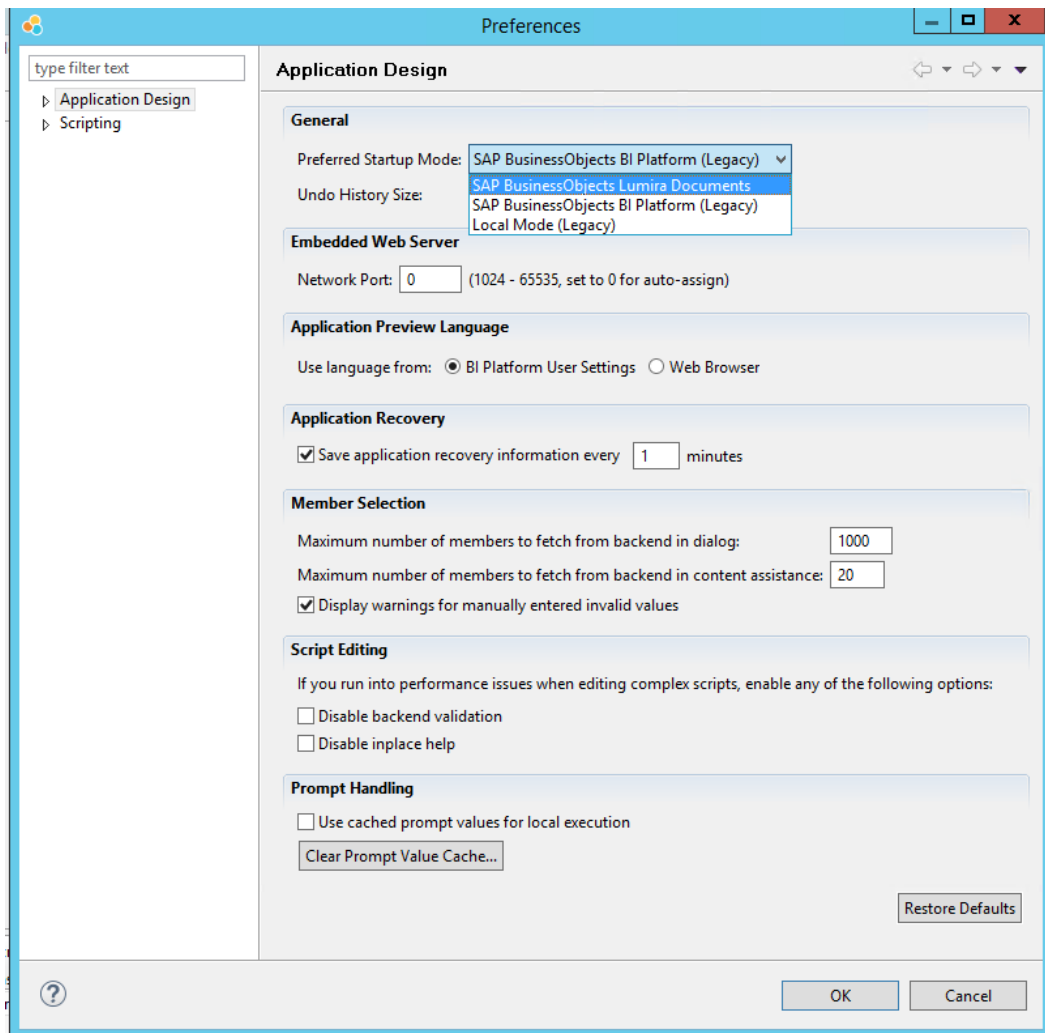


After export, the “ready to be migrated” Design Studio application is exported as a .ZIP file into the folder specified.



Switching Lumira Designer to Lumira Document mode



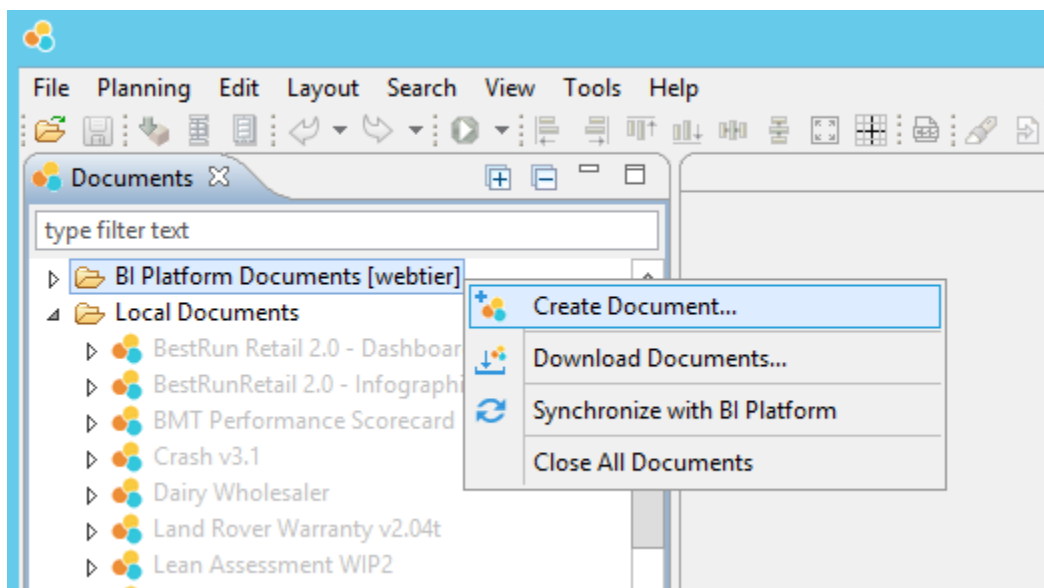


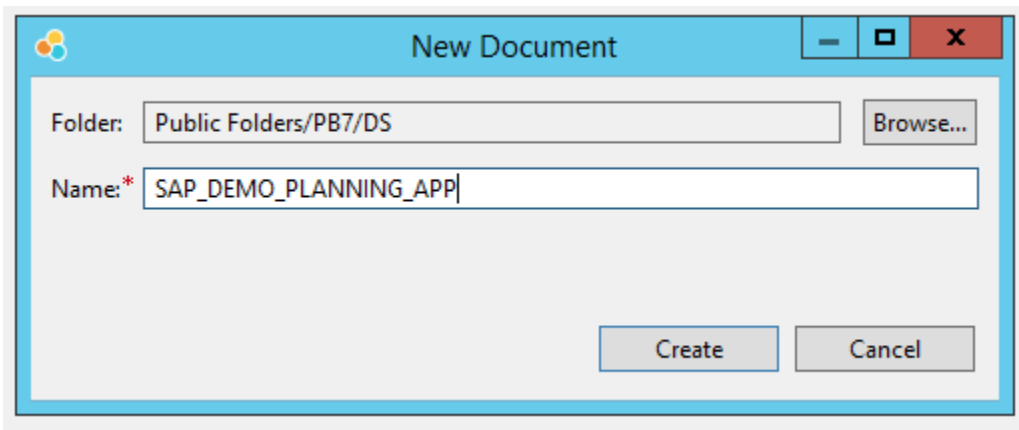


Creating a Lumira document

Under BI Platform, create a Lumira document under a desired BI platform folder location as shown below.

At this point, this is just a blank document which will be used to import the design studio application.

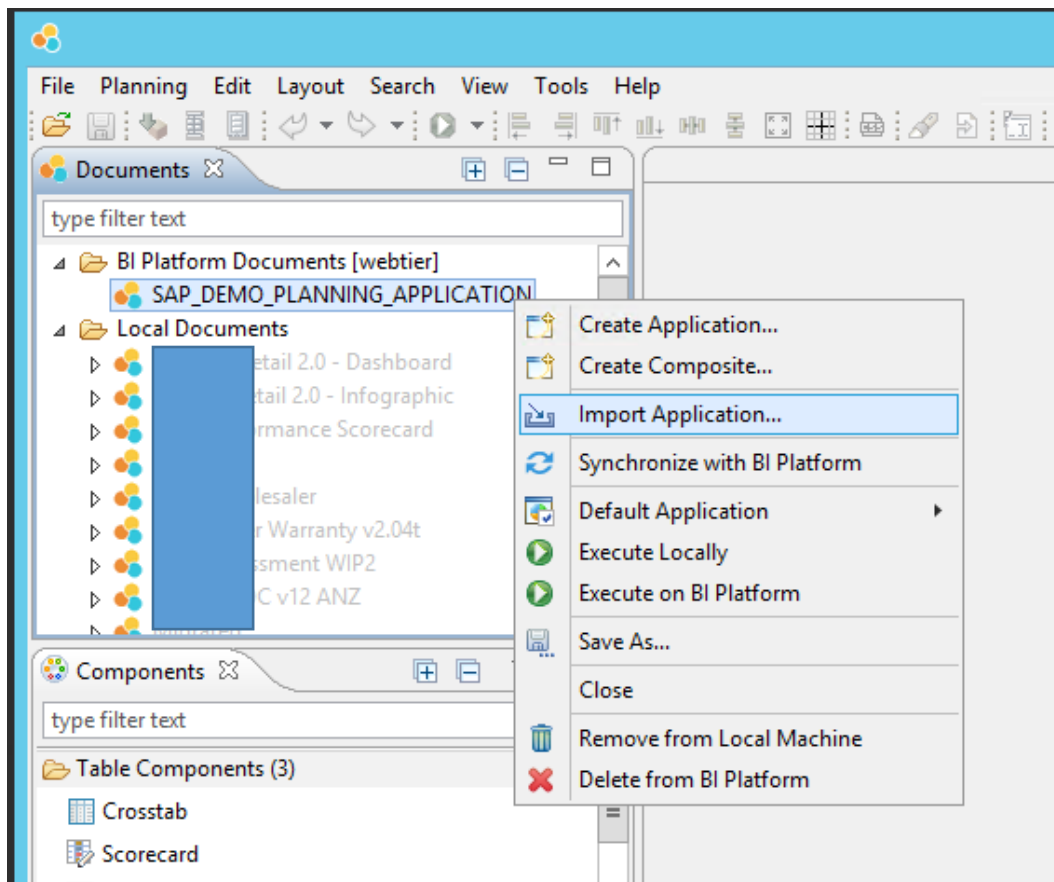




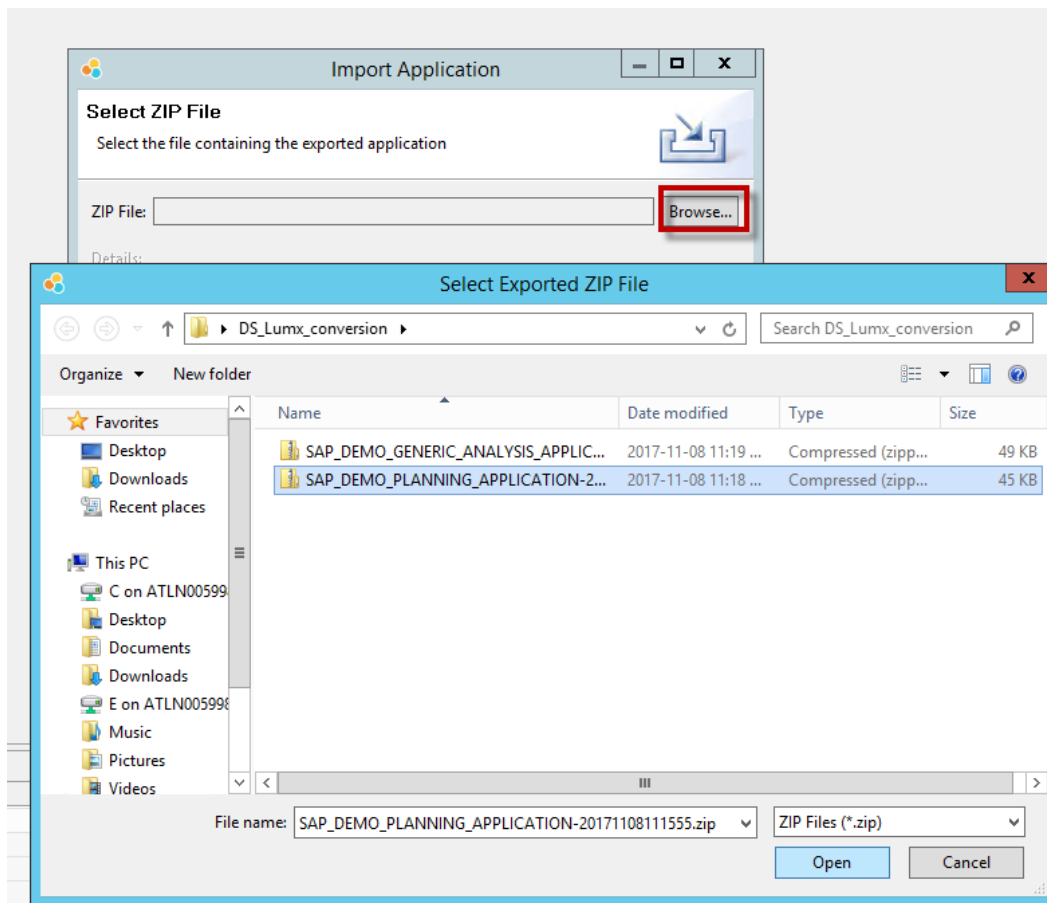
Importing the DS application for conversion

On Lumira designer, Choose the Lumira document (blank) that was just created,


Right-click on it and choose to **Import Application**.



Navigate to the local folder where you have earlier saved the “to be converted” DS application .ZIP file, and choose to Open as shown below.




Follow the Import Application wizard directions as shown below -



Import Application

Select ZIP File

Select the file containing the exported application



ZIP File:

C:\Users\Administrator\Desktop\DS_Lumx_conversion\SAP_DEMO_PI

Browse...

Export Description:

exporting for lumx conversion

^

v

Details:

Application	SAP_DEMO_PLANNING_APPLICATION	<div><div>^</div></div>
Folder	Public Folders/PB7/DS	
Description	importing legacy design studio from loca	<div><div></div></div>
Content Version	2002	
Uses SAPUI5 m Controls	Yes	
Created By User	Administrator	
Creation Time	11/8/17 10:56 AM	<div><div>v</div></div>

<

III

>

< Back

Next >

Finish

Cancel

Import Application

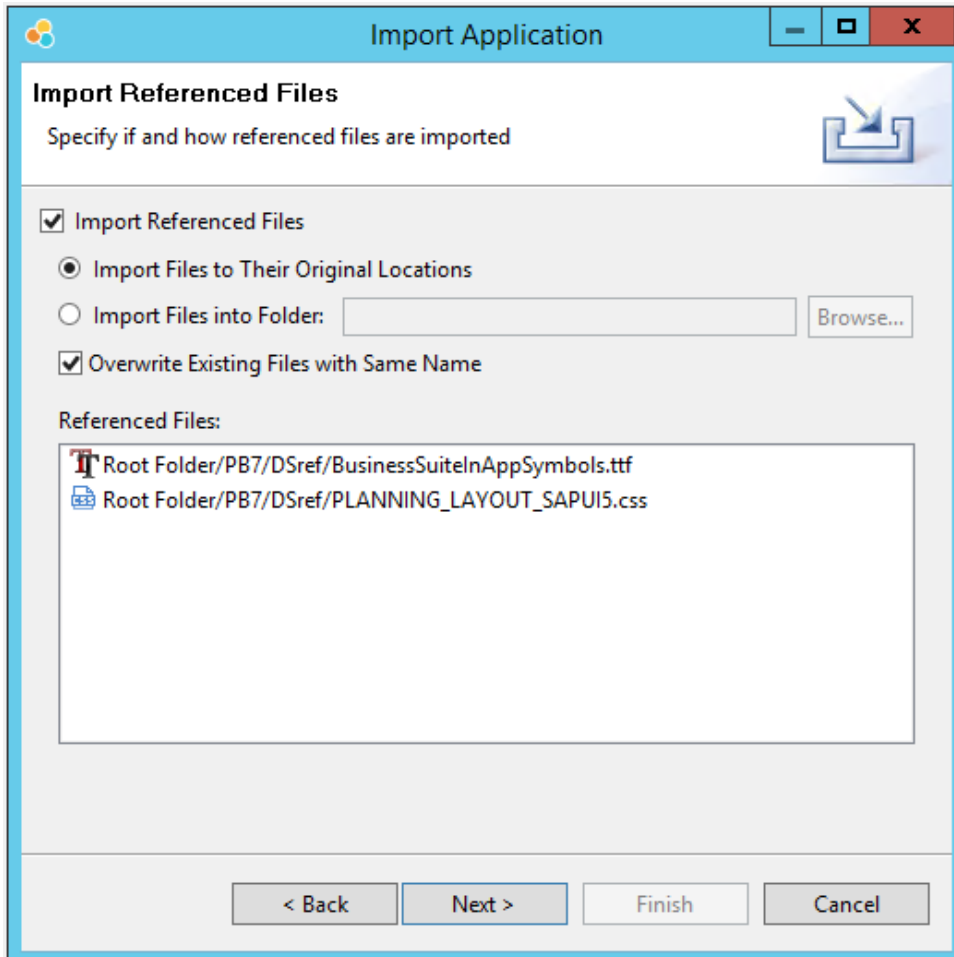
Target Application

Name:* SAP_DEMO_PLANNING_APPLICATION

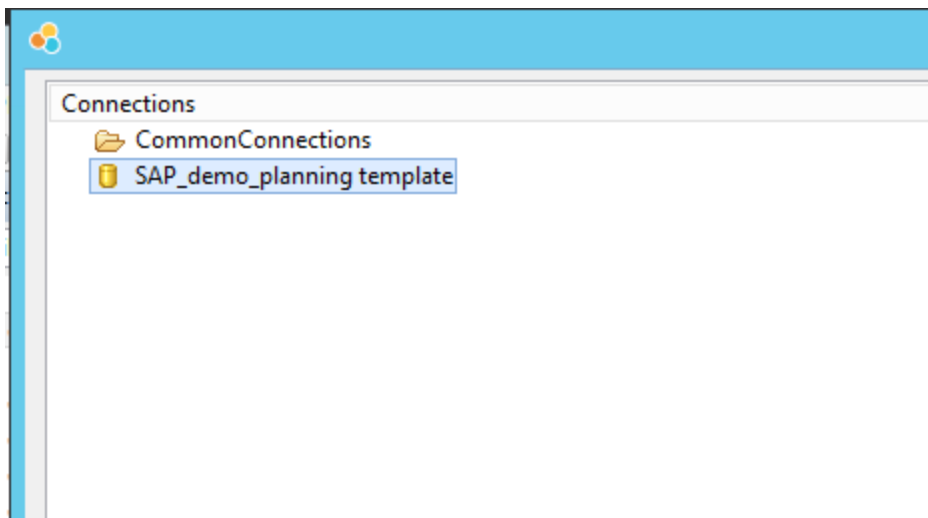
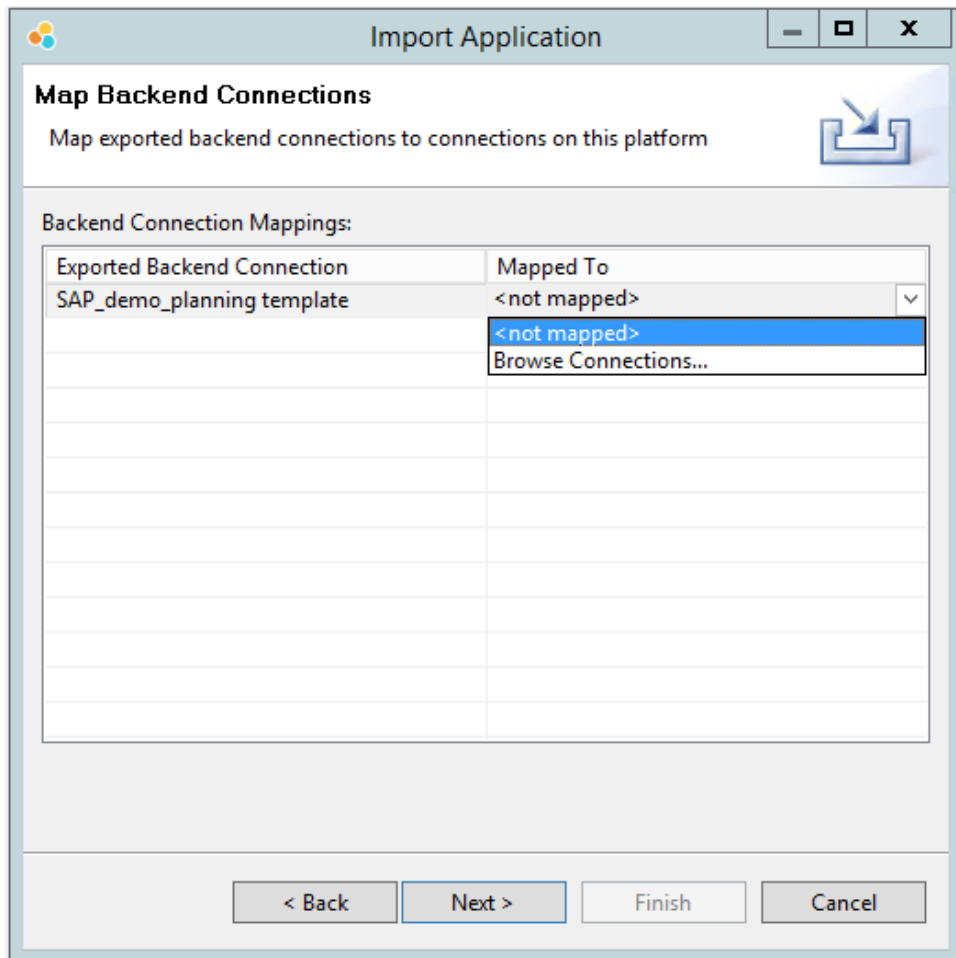
Description: migrating legacy design studio from local zip application to BI platform

< Back Next > Finish Cancel

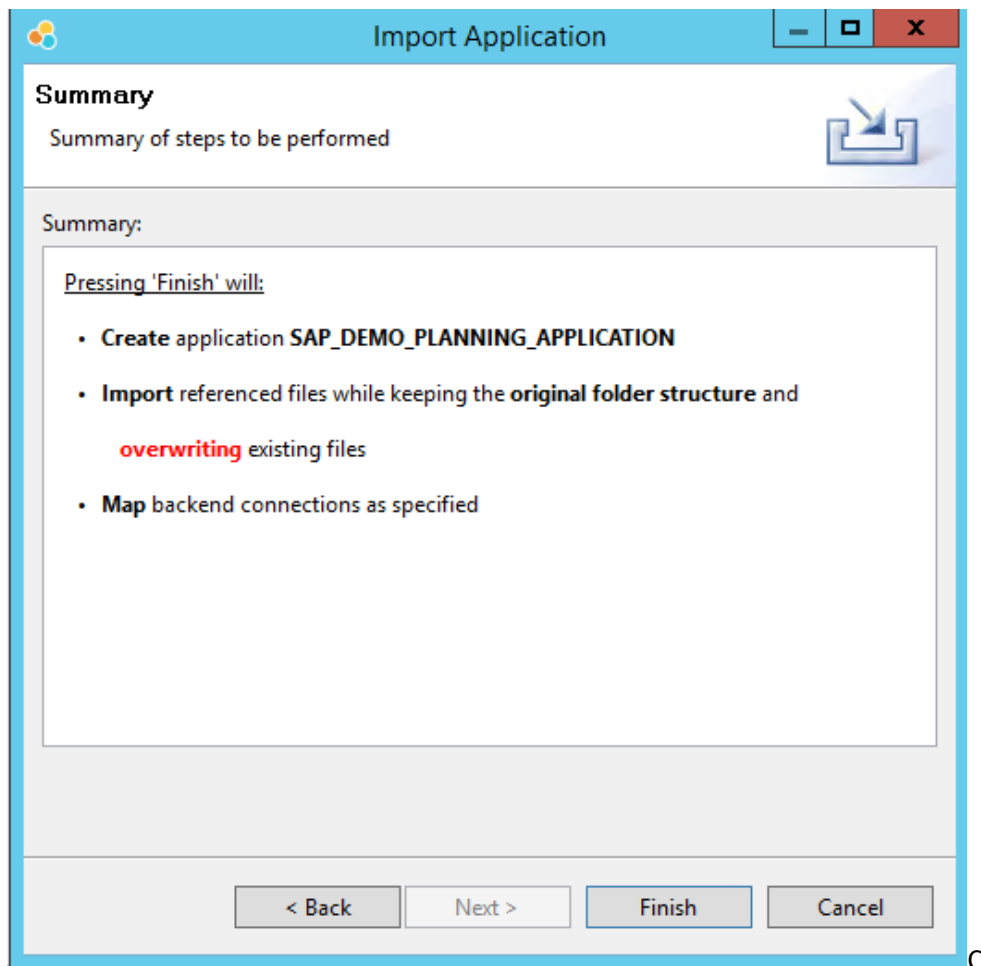
Provide relevant folders for referenced files.



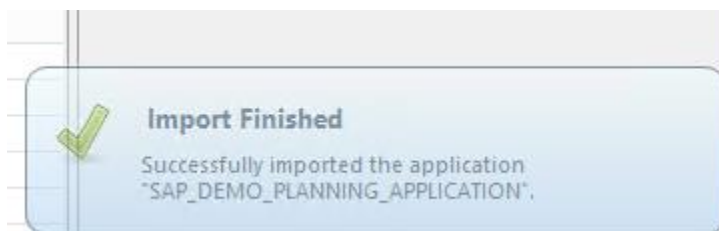
Map connections where required.



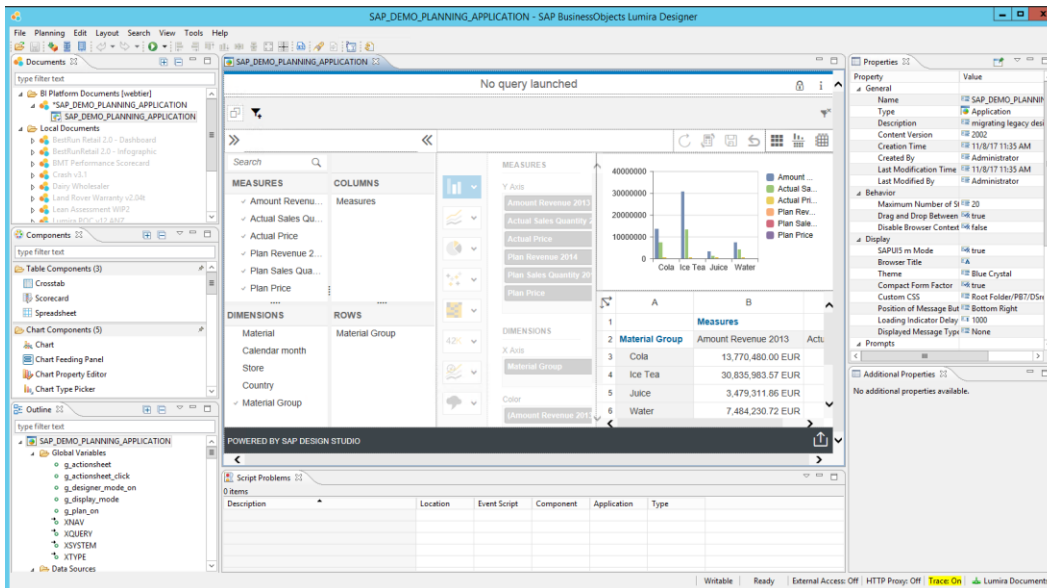
Click Finish.



You should get a message that import finished.

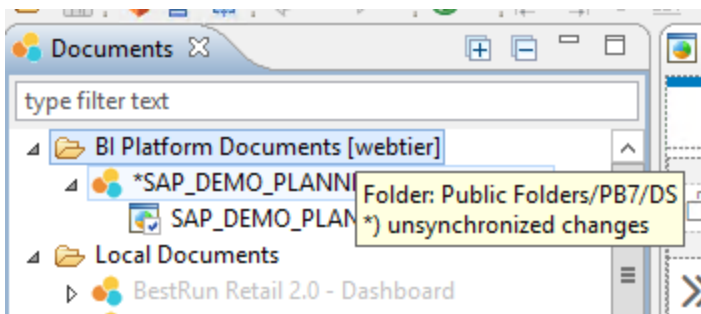


The design studio application displays as a Lumira document in the designer.



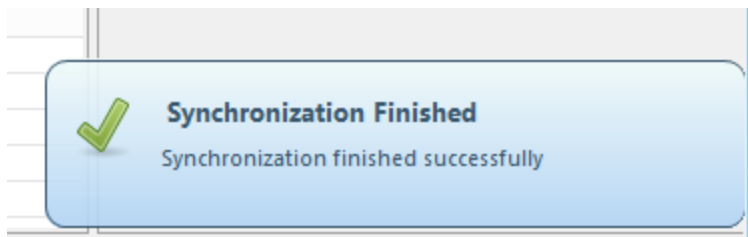
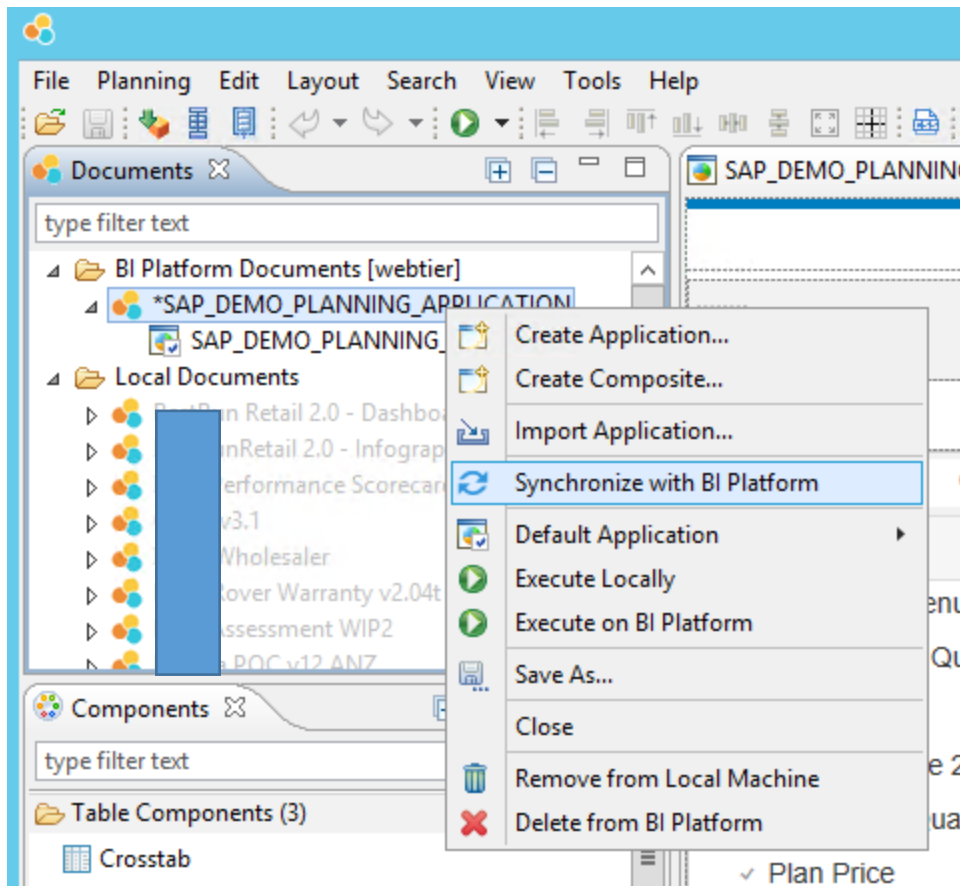
Synchronize changes with BI platform

After import, the Lumira document warns of unsynchronized changes in the BI platform



This may cause the Lumira documents to not be viewed properly In BI Platform.

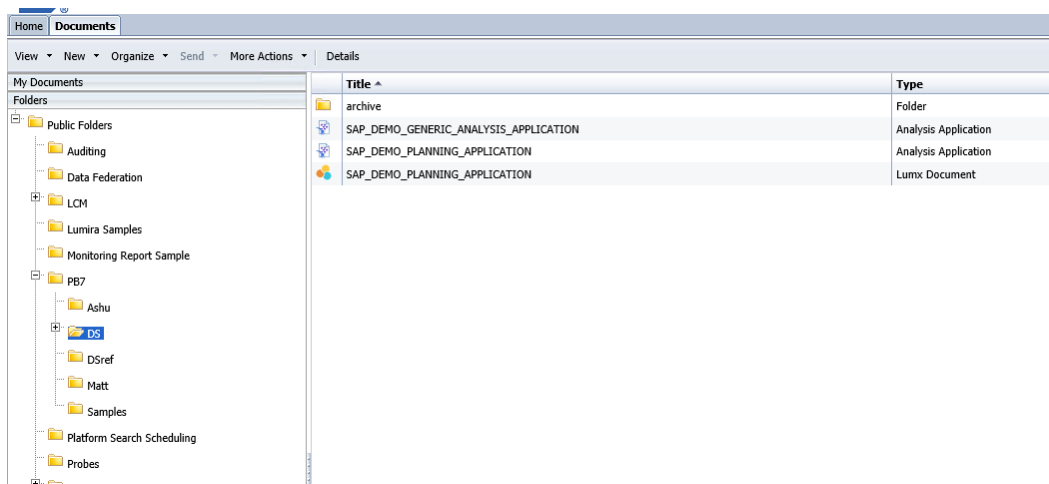
To resolve the issue, you need to synchronize the changes with BI platform as shown below.



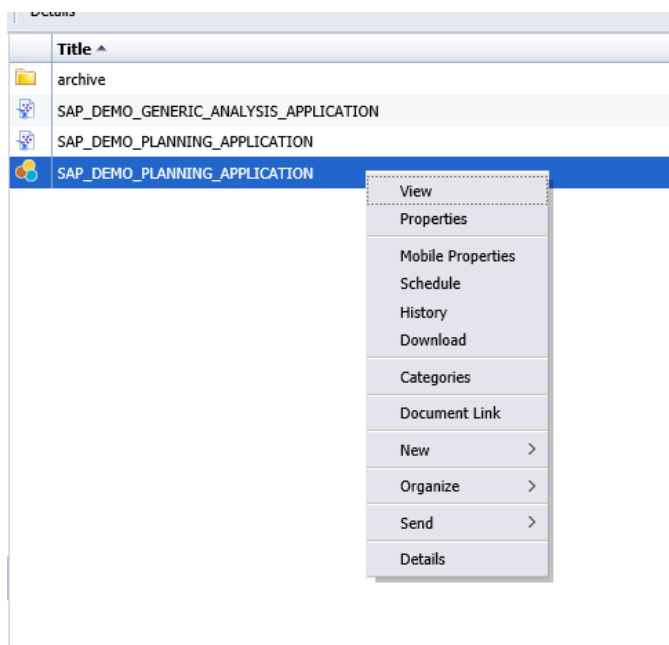
With this step, Design Studio to Lumira document conversion is completed.

Validation on BI Launchpad

You should be able to see the converted Lumira document (LUMX) alongside the design studio application before conversion.



Right-click and choose View the converted Lumira document to open in BI Launchpad web interface.



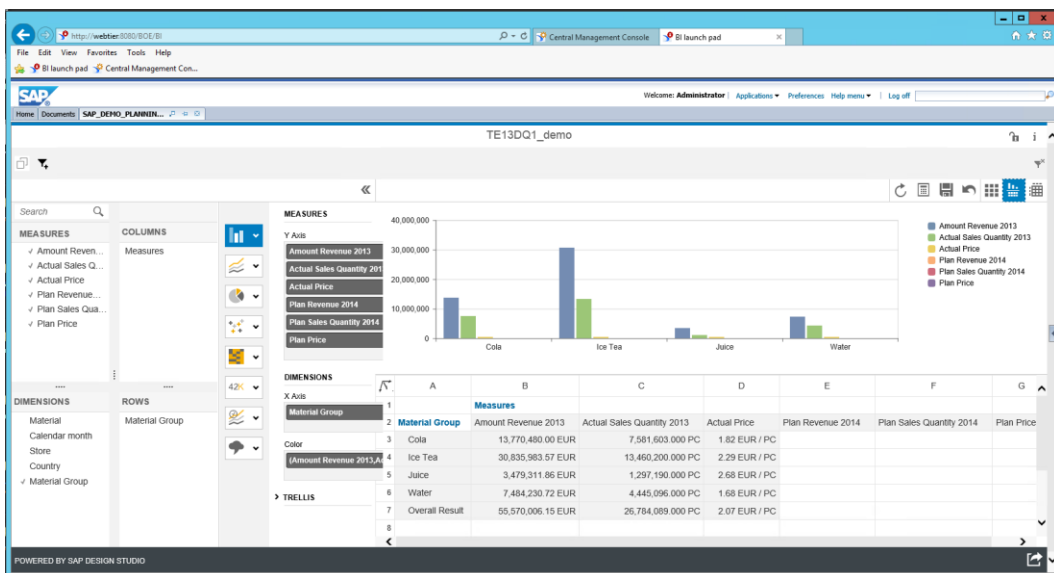
The document opens as shown below.

TE13DQ1_demo

MEASURES	COLUMNS	A	B	C	D	E	F	G	H	I	J
Amount Revenue...	Measures	1	Material Group	Amount Revenue 2013	Actual Sales Quantity 2013	Actual Price	Plan Revenue 2014	Plan Sales Quantity 2014	Plan Price		
Actual Sales Q...		2	Cola	13,770,480.00 EUR	7,581,603.000 PC	1.82 EUR / PC					
Actual Price		3	Ice Tea	30,835,963.57 EUR	13,460,200.000 PC	2.29 EUR / PC					
Plan Revenue...		4	Juice	3,479,311.86 EUR	1,297,190.000 PC	2.68 EUR / PC					
Plan Sales Qua...		5	Water	7,484,230.72 EUR	4,445,096.000 PC	1.68 EUR / PC					
Plan Price		6	Overall Result	55,570,006.15 EUR	26,784,089.000 PC	2.07 EUR / PC					
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									

POWERED BY SAP DESIGN STUDIO

Here is the chart view.



Things to do Post Update and Conversion

There are couple of things to do once you update the server add-on and complete the objects conversion.

Server administration

- BI Platform Processes
 - Remove Design Studio Adaptive Processing Server service and replace with the new Lumira Server service
 - Potentially start and stop other services. Please refer to <https://wiki.scn.sap.com/wiki/x/Vw57H> for detailed understanding for which process is used when and a summary at <https://blogs.sap.com/2017/10/19/lumira-2-workflows/>
 - For example, DSL Bridge is no longer used, whereas the WACS may now be a requirement. The 'Connection Server', if used by Lumira, would be best to run on the machine(s) running Lumira in addition to their current location(s).
 - In general, a review of BI Platform Services configuration may be required. For example, if both Lumira 1 and Design Studio 1 was used on the server previously, these two separate services are now processed by the same service. So potentially additional services may be required, or moved to run on a different machine.

Managing Objects

- Manage Lumira 1 content
 - Optionally delete the Lumira 1 content by deleting the dedicated folders they are held in.

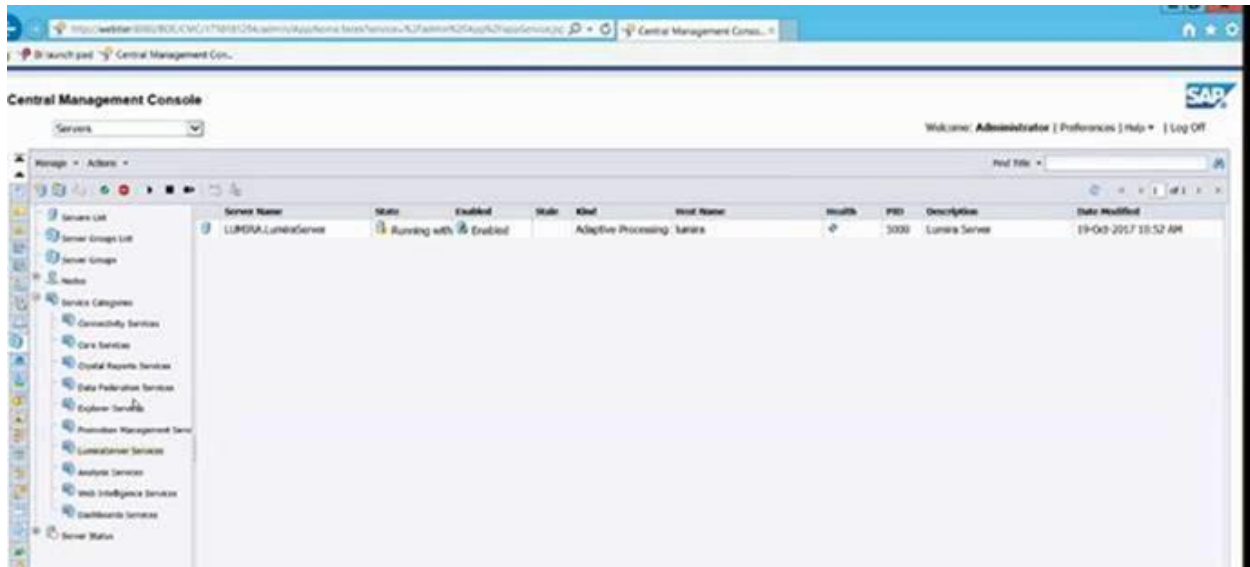
Issues and Challenges

Here are some of the issues and challenges that we faced while attempting to update the server add-ons and converting the 1.x documents to 2.0 version;

Lumira Server Running with Errors

Issue Description: Lumira server running with errors after updating Lumira add-on version 1.3x to 2.0.

In a distributed deployment, with a separate BI server node and Lumira node, after installing the Lumira server add-on, you may notice that Lumira server is “running with errors” as shown below;



Cause: You may see the install logs showing success and no failures. But we collected the install, Lumira logs and troubleshoot the issue, there seem to be failures on JAR files Eg: *Bundle "com.ibm.icu" version "4.4.2.v20110823" has already been installed from: reference:file:/C:/Program Files (x86)/SAP BusinessObjects/SAP BusinessObjects Enterprise XI 4.0/java/pjs/container/./services/TeamServerPJSService/lib/com.ibm.icu_4.4.2.v20110823.jar or /C:/Program Files (x86)/SAP BusinessObjects/SAP BusinessObjects Enterprise XI 4.0/java/pjs/container/plugins/bnd.jar.*

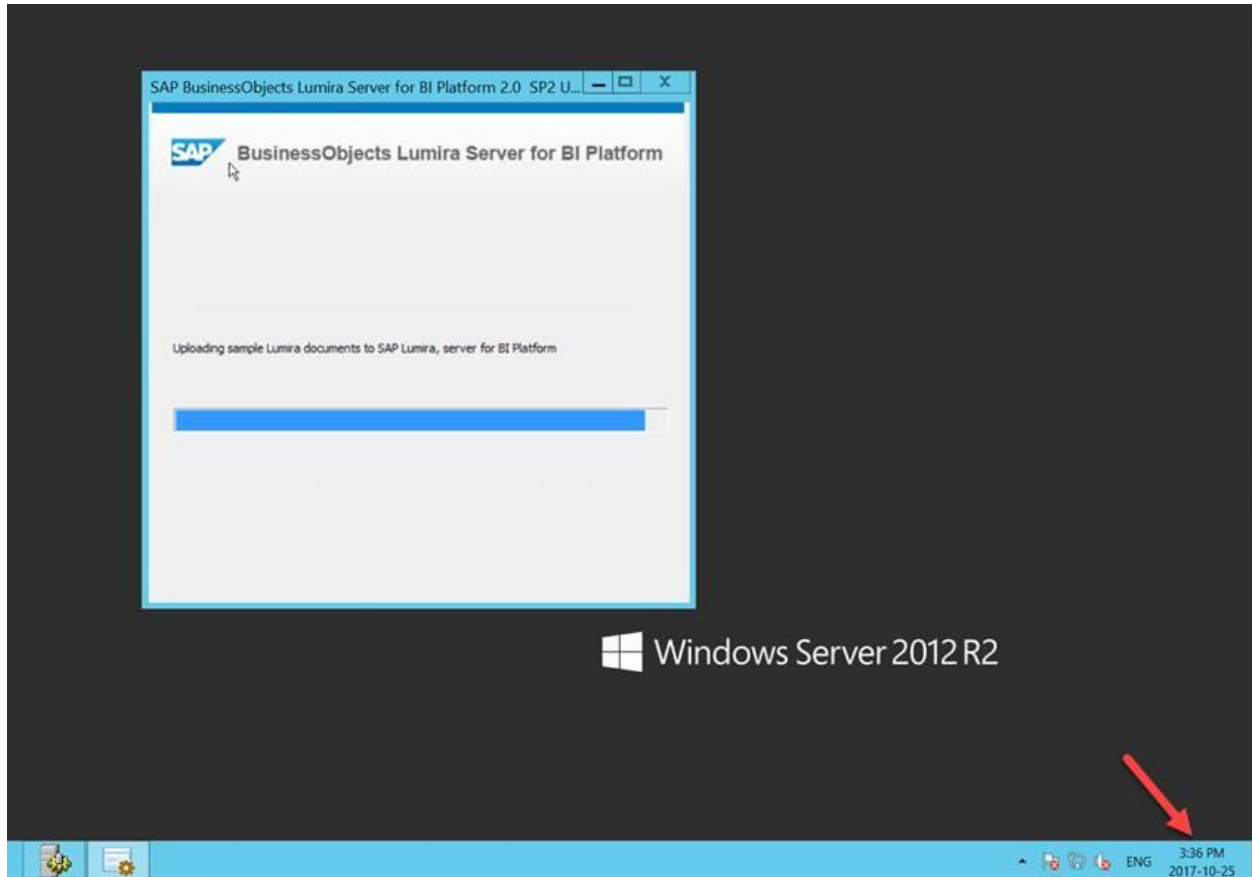
Resolution: A dependent jar file **i18n.jar** file was missing. The solution is documented in SAP Note 2220461 - Lumira Server for BI Platform displays a status as "Running with errors" in the Servers Page of Central Management Console (<https://launchpad.support.sap.com/#/notes/2220461>)

Note: This is the main reason why we had to install the full stack of BI Platform on the Lumira Node (as you saw in the note under system architecture section of this book). Again, though you install the full stack, you are only required to run Lumira Server, AJS and WACS.

Uploading Lumira Samples Takes Longer Time

Issue Description: Uploading Lumira Samples takes longer time and eventually you may experience that the samples are not uploaded in distributed Lumira add-on installation.

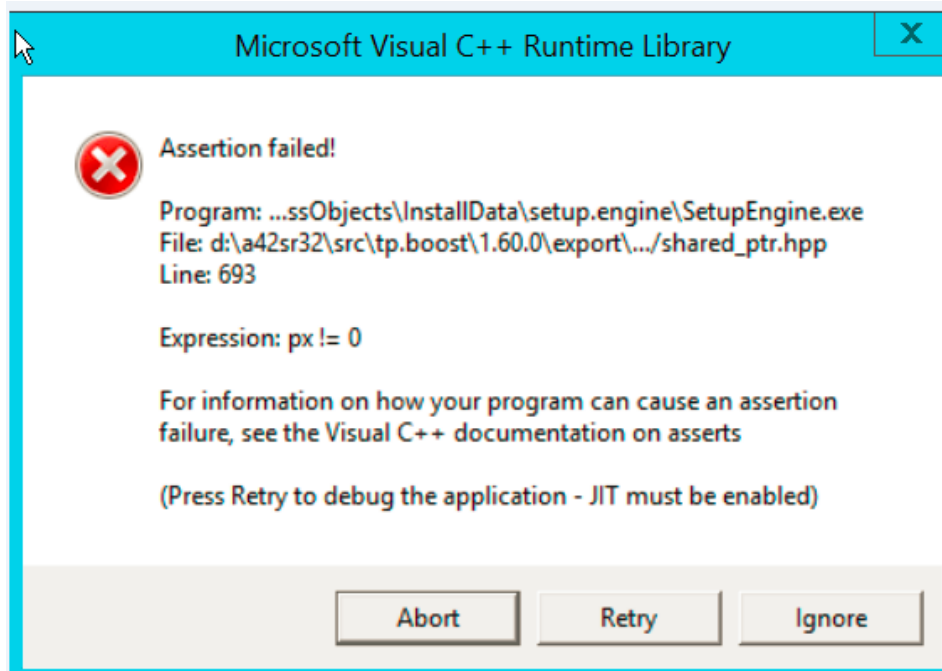
Cause: We noticed that this step took longer time (about 30 mins) and even after that, the samples were not loaded due to potential product issue.



Resolution: This seems to be seen in distributed deployments possibly due to missing dependent components. To resolve, promote these samples over from a standalone server installation (if you have) with a full stack where the samples will be available.

Assertion Failed Error

Issue Description: Assertion failed error when you attempt to perform a modify or repair or remove Lumira server add-on.



Cause: This is due to a known limitation with the Lumira Server add-on installer, which is currently under investigation by product development.

Resolution: We would recommend you to refer the following SAP notes;

2523946 - Uninstalling Lumira Server 2.0 Patch 02 results in error: Assertion Failed Microsoft Visual C++ - <https://launchpad.support.sap.com/#/notes/2523946>
2477140 - Assertion failed - Visual C++ Runtime Library error on installation of BI Add-ons - <https://launchpad.support.sap.com/#/notes/2477140>
2467541 - Supported BI Platform Add-On versions information for the SAP BusinessObjects BI 4.2 SP04 - <https://launchpad.support.sap.com/#/notes/2467541>

The crystalEnterprise.LUMX plug-in does not exist in the CMS FWM 02017

Issue Description: We experienced this error while trying to save .LUMX document to the BI platform.

Cause: SAP BusinessObjects Lumira application default object (DFO) does not get uploaded from Lumira node. In distributed environment, after updating Lumira Node from Lumira server 1.x to 2.0 SP2, we ran into this issue where we could not see any .lumx samples or save a sample .lumx file to BI platform.

Resolution: This is how we fixed this issue;

1. On the Lumira Node, you will find a file the

C:\Program Files (x86)\SAP BusinessObjects\setup\packagestemp\BusinessObjects_LumiraApp_dfo.xml

2. Copy this over to the BI Node into same location

C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI
4.0\packages\BusinessObjects_LumiraApp_dfo.xml file

BusinessObjects_LumiraApp_dfo.xml

3. Restart BI Node SIA. This should upload this file and establish the LUMX plugin.

Post update, unable to see .LUMX documents

Issue Description: After performing the add-on update, we could not see any, LUMX documents in BI Launchpad or Promotion management however, those same documents were visible in the CMC. This symptom was noticed even with Administrator user.

Cause: We suspect this issue has something to do with web tier deployment, especially when you have the their deployed on a dedicated server.

Resolution: Redeploying the BOE.war file webapp from a full stack system.

Post Update, opening Lumira documents displays 404 error pop-up

Issue Description: Issue # 5 - Opening a Lumira document via CMC or BI Launchpad OR creating a new Lumira document in BI Launchpad gives a 404 error POP UP.

Error Message: *log4javascript error: AjaxAppender.append: XMLHttpRequest request to URL /BOE/portal/1705041626/ LumiraWebApp/h5v2/service/writeLogMessages*

returned status code 404.

Cause: This is a known issue that is fixed in Lumira Server 2.0 SP03.

Resolution: Although the error Pop Up occurs, you can still click OK and open the Lumira document. For more details, refer this SAP note - <https://launchpad.support.sap.com/#/notes/2547126>

Useful Resources

SCN Blog Posts

Title & Author:	Getting started with SAP Lumira 2.0 by Ramu Timma Gowda of SAP Labs.
URL:	https://blogs.sap.com/2017/09/21/getting-started-with-sap-Lumira-2.0/
Abstract:	In this blog post, Ramu provides a high-level overview of SAP Lumira 2.0 with key information around the supported platforms, release notes, software & license key download instructions, integrating with BI platform and important things around converting 1.x objects to Lumira 2.0 format.

Title & Author:	What's New with SAP Lumira 2.0 Launch blog series by experts from SAP and SAP Customer.
URL:	https://blogs.sap.com/2017/04/18/whats-new-with-sap-businessobjects-Lumira-2.0-launch-blog-series/
Abstract:	There are 30+ blog posts available in this series authored by experts from across SAP and a customer. The topics ranging from introducing Lumira 2.0 to every important topic around licensing, deploying, using and integrating Lumira with BI platform are discussed in this blog series.

Title & Author:	Updating SAP BusinessObjects BI Platform to Lumira 2.x by Matthew Shaw of SAP.
URL:	https://blogs.sap.com/2017/05/19/updating-sap-businessobjects-bi-platform-to-Lumira-2.x/
Abstract:	In this blog post, you will find Matthew explaining the important aspects around how to successfully update your Lumira Server for BI Platform from 1.x version to the latest 2.0 version and what to watch out for when it comes to converting your 1.x documents. You can read this as a prelude to the SAP BI Pattern Book on Lumira 2.0.

Title & Author:	Lumira 2 Workflows by Matthew Shaw of SAP.
URL:	https://blogs.sap.com/2017/10/19/Lumira-2-workflows/
Abstract:	In this blog post Matthew provides the preview of the 26 workflows diagrams that he created and published. If you are looking for info around which component is used on what process etc., then there you go – these workflow diagrams will walk you through the entire process in an easy to follow and understand manner. The link to the main SCN WIKI page is this - https://wiki.scn.sap.com/wiki/x/Vw57H .

SAP Notes

Here is the list some important, relevant SAP Notes on SAP Lumira 2.0;

SAP Note Number:	SAP Note 1275068
URL:	https://launchpad.support.sap.com/#/notes/1275068
Abstract:	This SAP note explains the Backup & Restore processes for BI platform, which is very important step to perform before running the add-on server upgrade (update).

SAP Note Number:	SAP Note 2462799
URL:	https://launchpad.support.sap.com/#/notes/0002462799
Abstract:	This is the master release note for SAP Lumira 2.0, which includes download instructions and a master list of SAP Notes.

SAP Note Number:	SAP Note 2519499
URL:	https://launchpad.support.sap.com/#/notes/2519499
Abstract:	This SAP note provides information about license keys for SAP BusinessObjects Lumira Discovery 2.0 SP02.

SAP Note Number:	SAP Note 2512478
URL:	https://launchpad.support.sap.com/#/notes/2512478
Abstract:	This SAP note covers the differences between the JDBC connectivity option to SAP HANA versus the new InA based connectivity introduced in SAP Lumira 2.0.

SAP Note Number:	SAP Note 2475223
URL:	https://launchpad.support.sap.com/#/notes/2475223
Abstract:	This SAP note covers the step-by-step process to change a HANA JDBC connection to InA connection in Lumira 2.0.

SAP Note Number:	SAP Note 2509882
URL:	https://launchpad.support.sap.com/#/notes/0002509882
Abstract:	This SAP note details the steps required to convert Lumira Discovery and Lumira Designer documents.

SAP Note Number:	SAP Note 2458156
URL:	https://launchpad.support.sap.com/#/notes/2458156
Abstract:	Refer this SAP note for additional requirements, if you plan to use LCM with both Designer and Discovery documents.

SAP Note Number:	SAP Note 2525751
URL:	https://launchpad.support.sap.com/#/notes/2525751
Abstract:	This SAP Note can help/guide you diagnose those issues that might occur when attempting to connect Lumira Discovery to the BI Platform.

SAP Note Number:	SAP Note 2462202
URL:	https://launchpad.support.sap.com/#/notes/2462202
Abstract:	This note explains the release restrictions for Lumira Discovery and Server 2.0 SP2.

SAP Note Number:	SAP Note 2507011
URL:	https://launchpad.support.sap.com/#/notes/2507011
Abstract:	This SAP note details the release restrictions for Lumira Designer 2.0 SP2.

SAP Note Number:	SAP Note 2571105
URL:	https://launchpad.support.sap.com/#/notes/2571105
Abstract:	This SAP note explains the Lumira samples are not being visible on BIP platform, post installation