

# Galigeo for WebI Installation Guide - G19.5

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## Introduction

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In this chapter:

Public concerned by this guide

Document goal

Reading conventions

## About this document

### PUBLIC CONCERNED BY THIS GUIDE

This document is aimed at technical persons in charge of the preparation and execution of the Galigeo platform installation as well as persons doing the exploitation.

### DOCUMENT GOAL

This document presents the technical architecture of the Galigeo Solution. It describes the technical pre-requisites and the installation steps.

### READING CONVENTIONS



*Steps to follow*



*Notice*



*Advice*



*Carefull*



*Example*

## Chapter 1: Pre-requisites

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In this chapter:

[Architecture Schema](#)

[BOE Server](#)

[ArcGIS Server](#)

[ArcGIS Online](#)

[Galigeo Server](#)

[Galigeo Installer](#)

[Network](#)

[Client Machine](#)

## 1.1 Architecture Schema

### GENERAL ARCHITECTURE

Galigeo is designed as an n-tiers, client-server, architecture deployed on Intranet/Internet:

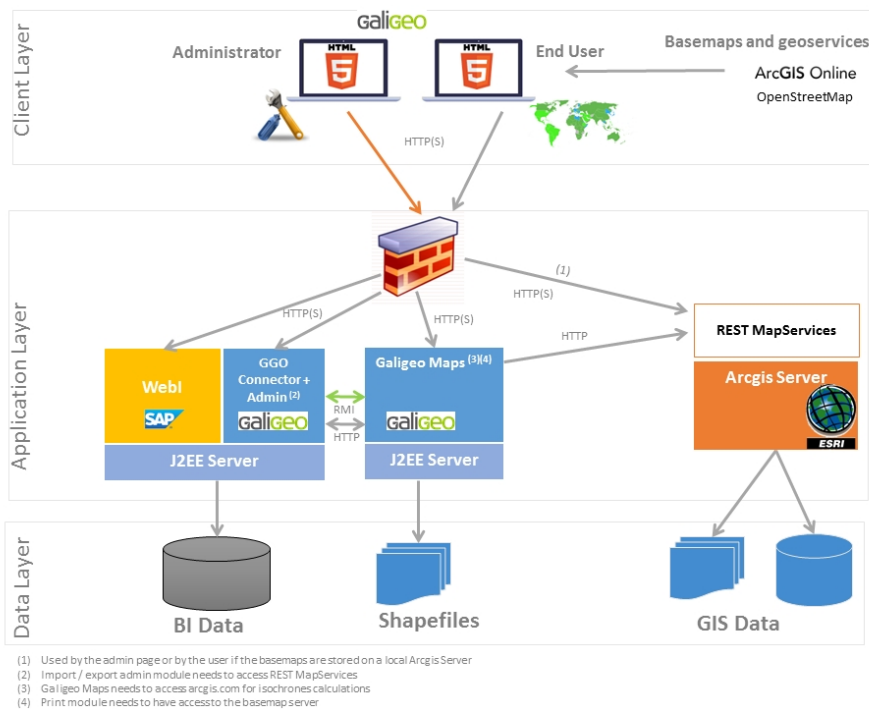
- The top most layer is the “**presentation tier**” or the user interface. The Galigeo user interface is a thin Internet remote client.
- The “**application tier**” or the business logic tier consists of the WebIntelligence decisional server, the ArcGIS server and the Galigeo server. This tier controls the data exchange and connections between the presentation tier and the data tier (described below). **Note that the** WebIntelligence server also controls the authentication/access through BusinessObjects security model.
- The last layer is the “**data tier**” with database servers where information is stored in and retrieved from DBMS.

The complete architecture includes the tools for managing and administering this system: The Galigeo administration module, BusinessObjects Administration and Designer as well as ArcGIS Desktop and Manager (ESRI).

Galigeo BI Connector is installed on BusinessObjects web server i.e. the WebIntelligence server.

Galigeo cartographic viewer is installed on Galigeo Server.

### ARCHITECTURE SCHEMA FOR THE HTML CLIENT



## 1.2 BOE Server

The Business Objects server delivers the data from the WebI reports that will be visualized

and analyzed in the Galigeo maps. The maps are embedded into the InfoView / WebIntelligence reports.

The BOE server hosts the BI connector, used by Galigeo, and its administration console.

Item	Pre-requisite	Notices	Check test
<b>OS</b> (see BO supported W2K8 operating systems)	<b>Windows Server 2008, 2012 all editions</b> <b>RedHat Enterprise Linux 5, 6</b>	NA	NA
<b>Java Environment</b>	<b>Java Development Kit (JDK)</b> <b>1.7.0_xx</b> <b>1.8.0_xx</b>		<p><u>1<sup>st</sup> test (basic):</u> in a shell command prompt, type : <b>java -version</b></p> <p><b>Example</b> of expected result: java version "1.8.0_72" ...</p> <p><u>2<sup>nd</sup> test:</u> in the application server configuration console, check what Java version is used.</p> <p><b>Ex Tomcat</b> - Check the parameter « Java Virtual Machine » in the tab « Java » of the configuration console: C:\jdk1.8.0_72\jre\bin\server\jvm.dll</p>
<b>Applications Server</b>	<b>Tomcat 7.0.x (jdk 1.7)</b> <b>Tomcat 8.0.x (jdk 1.8)</b> <b>Tomcat 8.5.x (jdk 1.8)</b>	<p>Tomcat is installed by default with the server products BOE.</p> <p>The documentation describes the installation only for Tomcat.</p>	<p>Launch the welcome page of the J2EE application server. The version can usually be displayed:</p> <p><b>Ex Tomcat:</b> <b>http://boe-srv:8080</b></p>
<b>BOE BI 4:</b> <b>4.1 SP1, 4.1 SP2,</b> <b>4.1 SP3, 4.1 SP4,</b> <b>4.1 SP5, 4.1 SP6, 4.1 SP7, 4.1 SP8, 4.1 SP9,</b> <b>4.1 SP10,</b> <b>4.2, 4.2 SP2,</b> <b>4.2 SP3</b>	<b>Server Components:</b> <b>Core Services</b> <b>Web Intelligence Services</b>  <b>BOE Java webapp (BOE.war including AnalyticalReporting module)</b>	<p>The components are installed by default with BOE.</p> <p>The module AnalyticalReporting inside BOE.war is used to display WebI documents in the BI Launch Pad portal (InfoView).</p> <p>Based on the original BOE webapp, the Galigeo installer produces a new version of BOE.war that embeds the Galigeo</p>	<p><u>1<sup>st</sup> test</u> - Module BOE Java available - launch the BI Launch Pad url:</p> <p><b>Ex:</b> http://boe-srv:8080/<b>BOE/BI</b></p> <ul style="list-style-type: none"> <li>- The BI Launch Pad login screen should appear.</li> <li>- If a BO account is available, Open and refresh a Webi document</li> </ul> <p><u>2<sup>nd</sup> test</u> - Administration Module available:</p> <p><b>Ex:</b> http://boe-srv:8080/<b>BOE/CMC</b></p>

		<p>connector.</p> <p><b>4.1SP9-Patch3, 4.2SP3-Patch5/6: in the CMC, the option "Enable javascript in WebI" must be checked:</b></p> <p>Applications &gt; Web Intelligence &gt; Properties &gt; <b>Check "Enable Javascript" &gt; [Save]</b></p>	<p><u>3<sup>rd</sup> test</u> – BO webapp BOE.war available on the server:</p> <p><b>Ex:</b></p> <p>&lt;BOE_HOME&gt;/SAP BusinessObjects Enterprise XI 4.0/wdeploy/workdir/tomcat8/application/<b>BOE.war</b></p>
<b>BOE User Account</b>	A Business Objects user account with the rights ad hoc is necessary to run the tests.	<p>The BO user must have the following rights:</p> <p><b>General:</b> Read/write the objects</p> <p><b>Documents Web Intelligence :</b> Refresh report, Refresh prompts, Use prompts, Export report data</p> <p><b>Universe:</b> Data access</p>	<p><u>See the first test above:</u> Open and refresh a Webi document.</p>



## 1.3 ArcGIS Server

The ArcGIS server can be used as a map service and feature service for the WebI / Galigeo documents.

Galigeo does not require to install any additional component on the ArcGIS server.

Item	Prerequisite	Notices	Check tests
<b>ESRI Products ArcGIS Server</b>	<p><b>ArcGIS Server 10.1x, 10.2x, 10.3x, 10.4x, 10.5x, 10.6x</b></p> <p>With the following tools:</p> <ul style="list-style-type: none"> <li>• <b>ArcMap/ArcGIS for Desktop:</b> for creating map projects</li> <li>• <b>ArcGIS Manager</b> to publish and manage map services</li> <li>• <b>ArcGIS REST API Admin</b> to manage the REST map services (in particular to clear the cache)</li> </ul>	The ArcSDE version is independent with Galigeo.	<p><u>1<sup>st</sup> test</u> – Check ArcGIS Manager - launch its url:</p> <p><b>Ex ArcGIS 10 java:</b></p> <p><a href="http://esri-srv:8099/arcgismanager/main/login.jsf">http://esri-srv:8099/arcgismanager/main/login.jsf</a></p> <ul style="list-style-type: none"> <li>- The login screen should display.</li> <li>- Connect with an arcgismanager account and access the map services page</li> </ul> <p><u>2<sup>nd</sup> test</u> – ArcGIS REST API admin available - same thing:</p> <p><b>Ex ArcGIS 10 :</b></p> <p><a href="http://esri-srv:8399/arcgis/rest/admin">http://esri-srv:8399/arcgis/rest/admin</a></p>
<b>Map Service</b>	<p><b>ArcGIS Server Map service</b> published from a MXD or a MSD <b>with in particular the options "Export Map" and "Query"</b> (to set during the publishing)</p> <p>The <b>ArcGIS MapServices</b> used by Galigeo <b>must be available via REST from the client machines and also from Galigeo Server machine</b></p>	<p>The use of MSD format is recommended.</p> <p><b>Secured MapServices are not supported</b></p>	<p><u>1<sup>st</sup> test</u> – Open the REST url:</p> <p><b>Ex ArcGIS 10:</b></p> <p><a href="http://esri-srv:8399/arcgis/rest/services">http://esri-srv:8399/arcgis/rest/services</a></p> <p>The list of available mapservices should be displayed.</p> <p><u>2<sup>nd</sup> test</u> – Mapservice access via REST - click on a mapservice:</p> <p><b>Ex of mapservice REST URL:</b></p> <p><a href="http://esri-gis:8399/arcgis/rest/services/ggoMapService/MapServer">http://esri-gis:8399/arcgis/rest/services/ggoMapService/MapServer</a></p> <p>The mapservice properties and layers displays.</p>
<b>GIS Database</b>	<p><b>Not important for Galigeo</b></p> <p>Galigeo neither accesses directly to the GIS database</p>	All ArcGIS supported formats	NA



The connection to ArcGIS Server is done both through Galigeo Server and the client. **This means that the application server, e.g. Tomcat, and the client (web browser) must see ArcGIS Server.**

## 1.4 ArcGIS Online

Galigeo offers the possibility to connect automatically to ArcGIS Online (AGOL). The credentials are activated as soon as the appropriate license key is declared in Galigeo Administration console.



The connection to ArcGIS Online is done through Galigeo Server, the one that hosts Galigeo cartographic viewer. **This means that the application server, e.g. Tomcat, must see [arcgis.com](https://www.arcgis.com) without any proxy authentication.**

## 1.5 Galigeo Server

The Galigeo server hosts the Galigeo cartographic module.



If pre-requisites match (OS, Tomcat, JDK), BOE Server can be used as Galigeo server.

Item	Pre-requisite	Notices	Check tests
OS	Windows Server 2008, 2012 all editions RedHat Enterprise Linux 5, 6 SUN - Solaris 10	NA	NA
Java Environm ent	Java Development Kit (JDK) 1.7.0_xx 1.8.0_xx	NA	<p><u>1<sup>st</sup> test (basic)</u>: type in a shell command prompt : <b>java -version</b></p> <p><b>Example</b> of expected result: java version "1.8.0_72" ...</p> <p><u>2<sup>nd</sup> test</u>: in the application server configuration console, check what Java version is used.</p> <p><b>Ex Tomcat</b> - Check the parameter « Java Virtual Machine » in the tab « Java » of the configuration console: C:\jdk1.8.0_72\jre\bin\server\jvm.dll</p>
Applicati on Server	Tomcat 7.0.x (jdk 1.7) Tomcat 8.0.x (jdk 1.8) Tomcat 8.5.x (jdk 1.8) Tomcat 9.0.x (jdk 1.8)	NA	<p>Go to the application server URL. The version number usually displays:</p> <p><b>Ex Tomcat:</b> http://ggo-srv:8080</p>

We recommend to use a 64 bits Tomcat application server and Java machine.

**Minimum and recommended resources sizing for Galigeo Tomcat application server (64 bits):**

Component	Minimum	Recommended for 5 concurrent users (concurrent sessions)
Processor #core	Type Intel Xeon 2 cores	Type Intel Xeon 4 cores multithread
Tomcat Memory	2 Go RAM	4 Go RAM
Disk space (Tomcat + Galigeo)	2 Go	10 Go SAS 15k rpm ou SSD



**For proper operation of HTML5 Print module, image or PDF, it is important that the Galigeo Server has access to base maps, either on internet or intranet.**

## 1.6 Galigeo Installer

Item	Pré-requis	Remarques	Check tests
OS	<b>Windows Server 2008, 2012 all editions</b> <b>RedHat Enterprise Linux 5, 6</b> <b>SUN - Solaris 10</b>	NA	NA
Java Environment	<b>Java Runtime Environment (JRE)</b> <b>1.7.0_xx</b> <b>1.8.0_xx</b>	NA	<i>Type in a command prompt:</i> <b>java -version</b> <b>Example</b> of expected result: java version "1.8.0_72"
BO Server	<b>The BO webapp BOE.war has to be readable by the installer</b> By default, it is located under <BOE_HOME>/SAP BusinessObjects Enterprise XI 4.0/wdeploy/workdir/tomcat8/application/BOE.war <b>The Galigeo installation directory must be readable and writable by the installer and the application server (ex: Tomcat 8.x)</b>	Galigeo installer produces a new webapp BOE.war that embeds Galigeo Connector. <b>Ideally, run the installer with the same user and same Java Environment as the BOE applications server.</b>	<i>BO Webapp BOE.war available on the server:</i> <b>Ex:</b> D:\BOBI4\SAP BusinessObjects Enterprise XI 4.0\wdeploy\workdir\tomcat8\application\BOE.war <i>User account for the application server:</i> <b>Ex Windows/Tomcat :</b> Administrator
Galigeo Server	<b>The Galigeo installation directory must be readable and writable by the installer and the application server (ex: Tomcat 8.x)</b>	Same thing concerning the user account.	NA

## 1.7 Network

This table lists the ports used for all the modules involved with Galigeo. The ports must be available from the calling application, which might in some cases require some firewall adjustment.



The default port values might be different in the real situation.

Port	Protocol	Opened on	Used by	Default Value	Firewall rule
<b>BI Tomcat port (Business Intelligence)</b>	HTTP(S)	BI Server	<ul style="list-style-type: none"> <li>- BI Connector (<i>local</i>)</li> <li>- Galigeo Server (<i>from Galigeo server to BI server</i>)</li> <li>- Galigeo Client (<i>from client to BI server</i>)</li> </ul>	8080	NA
<b>RMI Port (Remote Method Invocation : Standard J2EE)</b>	TCP/IP	BI Server	<ul style="list-style-type: none"> <li>- BI Connector (<i>local</i>)</li> <li>- Galigeo Server (<i>from Galigeo server to BI server</i>)</li> </ul>	1099	Open in the direction Galigeo → BI
<b>Galigeo Tomcat Port</b>	HTTP(S)	Galigeo Server	<ul style="list-style-type: none"> <li>- Galigeo (<i>local</i>)</li> <li>- BI Connector (<i>from BI server to Galigeo server</i>)</li> <li>- Galigeo Client (<i>from client to Galigeo server</i>)</li> </ul>	8080	Open in the direction BI → Galigeo Open in the direction Client → Galigeo
<b>HTTP Port used by the ArcGIS REST services</b>	HTTP(S)	GIS Server	<ul style="list-style-type: none"> <li>- Galigeo Admin (<i>from BI server to ArcGIS server</i>)</li> <li>- Galigeo Server to query ArcGIS server mapservice (<i>from Galigeo server to ArcGIS server</i>)</li> <li>- Galigeo client: to query ArcGIS server basemaps if any</li> </ul>	8399	Open in the direction Client → GIS The BI connector and Galigeo Server must have access to the REST services with the same url as the client.

<b>Access to ArcGIS Online</b>	HTTPS	arcgis.com	to query ArcGIS Online <i>(from Galigeo server to ArcGIS Online)</i>	443	Open in the direction Galigeo Server → AGOL
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## 1.8 Client

The web browser on the client machine is used to access BO InfoView and the WebIntelligence documents / Galigeo maps.

Item	Recommended	Notices	Check tests
<b>OS</b>	<b>Windows Seven, 8.1, 10 desktop</b>	NA	NA
<b>HTML5 Client Web browser</b>	<b>Microsoft: IE 11, Edge 44 FireFox: 52 ESR, 69, 70 Chrome: 77, 78</b>	Javascript activated IE compatibility mode is not supported	Go to web browser Menu > About to know its version



**For proper operation of Galigeo Application, it is important that the client browser has access to base maps, either on internet or intranet.**



### Sizing the client machine

- We recommend to use Windows Seven, 8.1 or 10 with 4 to 8 Go of RAM

## Chapter 2: Galigeo installer

---

In this chapter :

[Global overview](#)

[Launch the installer](#)

## 2.1 Global Overview

The file **Galigeo\_WebI-bi4\_G19.5\_Installer.jar** is located at the root of the package. From a valid InfoView deployment, the programs **generates 3 configured web applications ready to be deployed**.

Web Application	Description	Notices
<b>BOE.war</b>	Includes AnalyticalReporting module with the Galigeo BI connector	The installer needs the original BOE.war webapp as an input. <b>It produces a new modified webapp that embeds the Galigeo BI connector.</b> The process takes place on the machine where InfoView is deployed.
<b>wgo.war</b>	Galigeo administration console	The process takes place on the machine where InfoView is deployed
<b>Galigeo.war</b>	Galigeo HTML5 cartographic viewer + print module	The process takes place on the Galigeo server. It can be the same machine as the BO server if pre-requisites match.

## 2.2 Launch the installer

The installer needs a JRE Java 1.7 or 1.8.

It can be launched in two ways:

Mode	When	Description	Notices
<b>Graphical</b>	A window manager is available. Ex: Windows 2008 Server	<ul style="list-style-type: none"> <li>Double-click on the file <b>Galigeo_WebI-bi4_G19.5_Installer.jar</b></li> <li>From a command prompt, type: <b>java -jar Galigeo_WebI-bi4_G19.5_Installer.jar</b></li> </ul>	NA
<b>Command Line</b>	No window manager. Ex: Sun Solaris 10	From a command prompt: <b>java -jar Galigeo_WebI-bi4_G19.5_Installer.jar -console</b>	This mode is only in English. The installation steps are the same as with the graphical interface.



We recommend to **run the installer with the same user and same Java Environment as the BOE applications server.**

**Knowing where is BOE Tomcat java:**

open Tomcat Configuration Console > Java tab > Get the path within "Java Virtual Machine" text area

**Example : D:\BOBI4\SAP BusinessObjects Enterprise XI 4.0\win64\_x64\jdk\jre\bin\server\jvm.dll**

The java exe command is then

**"D:\BOBI4\SAP BusinessObjects Enterprise XI 4.0\win64\_x64\jdk\jre\bin\java"** (don't forget the quotes )



In a DOS console, the command to run the installer in graphical mode is:

**"D:\BOBI4\SAP BusinessObjects Enterprise XI 4.0\win64\_x64\jdk\jre\bin\java" -jar Galigeo\_WebI-bi4\_G19.5\_Installer.jar**

To run the installer in command line mode:

**"D:\BOBI4\SAP BusinessObjects Enterprise XI 4.0\win64\_x64\jdk\jre\bin\java" -jar Galigeo\_WebI-bi4\_G19.5\_Installer.jar -console**

## Chapter 3: BI connector installation

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In this chapter:

[Where the installation takes place?](#)

[Installation steps - graphical mode](#)

[Installation steps - console mode](#)

[Deploy the web applications](#)

[Case of multiple InfoView Instances \(optionnal\)](#)

[Declare Galigeo PDF markers](#)

[Admin Console - local installation of ESRI JS API](#)

### 3.1 Where the installation takes place?

The installation takes place on the server where InfoView is deployed.



The installation steps described in this chapter concern new installations.

**If Galigeo is already installed, see [chapter 5 - Update an existing installation](#).**

<**GALIGEO\_HOME**> is the Galigeo installation directory. It can be either an existing directory or a new one created during the installation.



**Example of <GALIGEO\_HOME> :**

Windows: **D:\products\galigeo**

<**BOE\_HOME**> is the installation path for Business Objects Enterprise.



**Example of <BOE\_HOME> :**

Windows: **D:\products\BOBI4**

## 3.2 Installation steps - graphical mode

This section describes the installation using the graphical mode for a single InfoView deployment (in case of multiple instances using load balancing, please see [section 3.5 Case of multiple InfoView](#)).

If the server doesn't have a window manager, go to [section "3.3 Installation steps - console mode"](#).

- **Start the installer:** double-click on the file or type **java -jar Galigeo\_WebI-bi4\_G19.5\_Installer.jar** in a shell console



We recommend to **run the installer with the same user and same Java Environment as the BOE applications server**. See [2.2 Launch the installer](#)

- **Language selection:** select "eng" then click [OK]

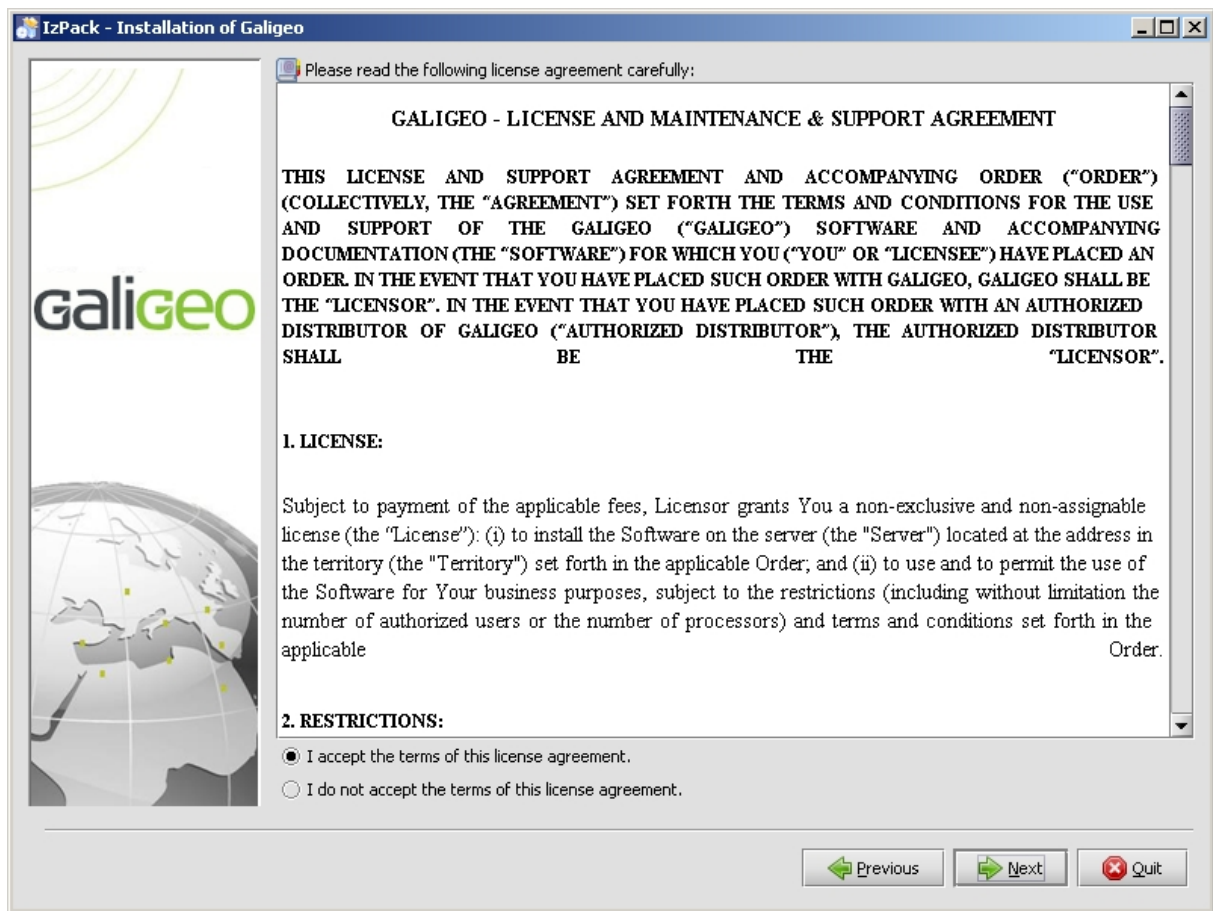


- **Welcome panel:** click [Next]

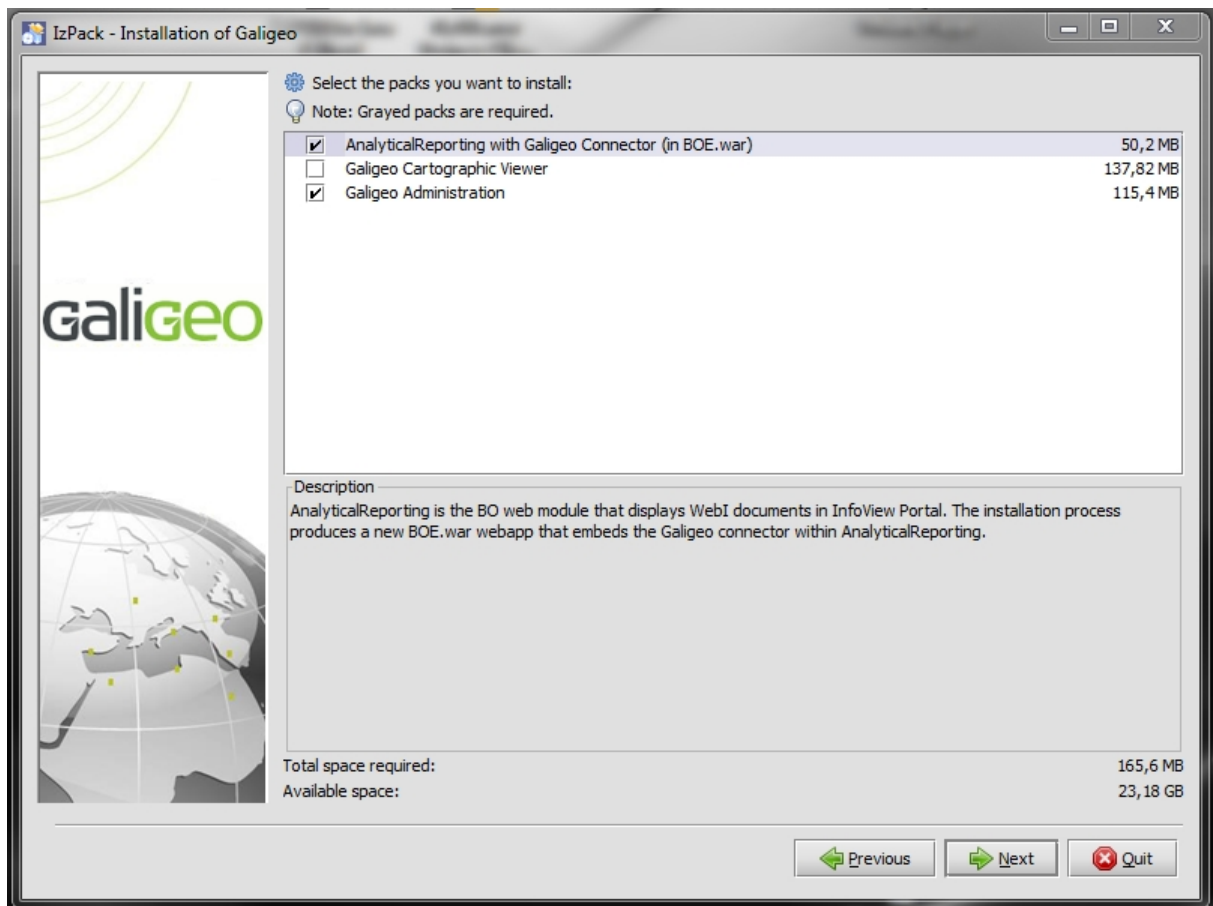


- **License agreement:** Accept the license then click [Next]

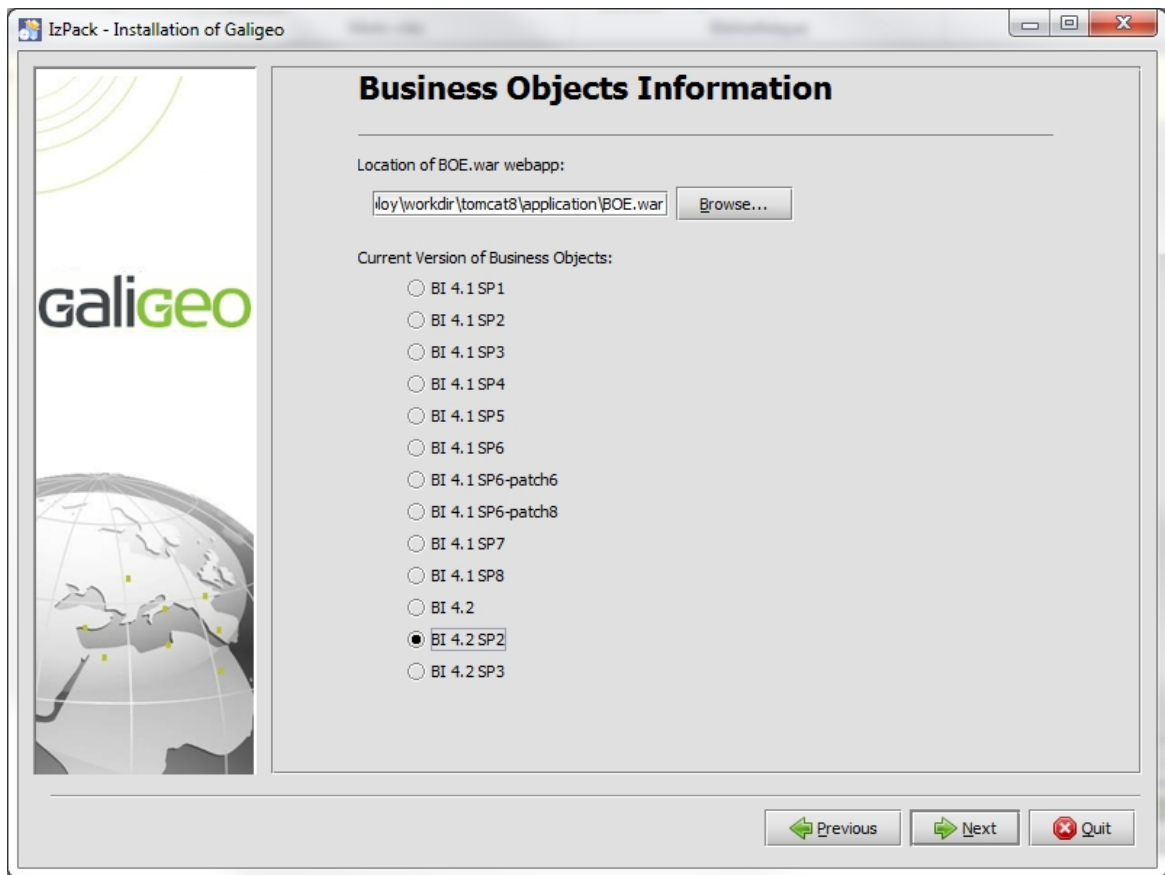




- **Installation Packs:** check "**AnalyticalReporting with Galigeo connector**" and "**Galigeo Administration**" then click [Next]



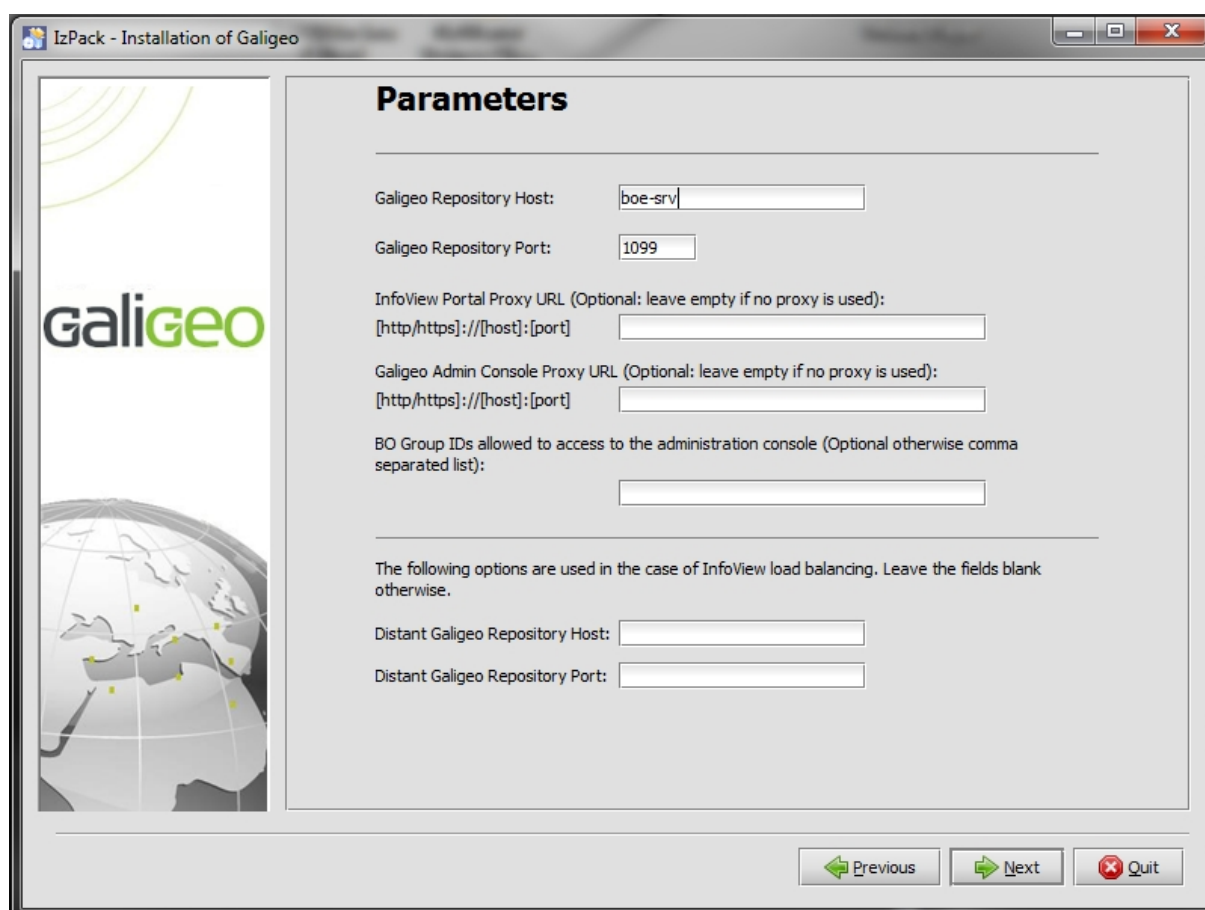
- **BO Information:** specify the location of the original BOE.war webapp from BO. By default, it located in **<BOE\_HOME>/SAP BusinessObjects Enterprise XI 4.0/wdeploy/workdir/tomcat<version>/application/**  
Select the BO version, then click [Next]



- **Installation folder:** specify the directory where Galigeo will be installed, for example : D:\products\galigeo (if the directory doesn't exists, it will be created) then click [Next]



- **Installation Parameters:** Specify the parameters according to the table above then click [Next]



Parameter	Recommendation	Example
<b>Galigeo Repository Host</b>	It is the host name of BOE Server. This parameter is automatically filled. Check that host name is correct. Change otherwise.	boe-srv
<b>Galigeo Repository Port</b>	Keep the default value 1099. If the installer says the port is already used, then try a new value, 1098 for example.	1099
<b>InfoView Portal Proxy URL (optional)</b>	To specify if InfoView is accessed through a proxy server from the client machines (application server not directly called). Is of type [http/https]://[host]:[port] Leave empty otherwise.	http://myorganization.com
<b>Galigeo Admin Console Proxy URL (optional)</b>	To specify if Galigeo Admin Console is accessed through a proxy server from the client machines (applications server not directly called). Is of type [http/https]://[host]:[port] Leave empty otherwise.	http://myorganization.com

<b>BO Group IDs...</b> <b>(optionnal)</b>	Allow to restrict the access to the administration console to some given BO groups.  Comma separated string the list the BO group IDs (property ID in the BO CMC).  Leave empty to allow all the BO user to login to the administration console. The features will be activated or not depending on the user rights (users, universes, documents).	BOEGroup1_ID,BOEGroup2_ID
<b>Host and Port for for the remote Galigeo repository</b> <b>(optionnal)</b>	Keep empty for a standard installation. (In case InfoView uses load balancing, see <a href="#">section - Case of multiple InfoView portals</a> )	NA

- **Web applications generation - step 1:** wait the first step to complete then click [Next]
- **Web applications generation - step 2:** wait the second step to complete then click [Next]
- **Installation summary:** Click [Quit]. The installer produces two webapps, **BOE.war** and **wgo.war**, [ready to be deployed in the application server \(ex Tomcat 8.x\) used byl InfoView](#)

### 3.3 Installation steps - console mode

This section describes the installation steps using the console mode for a single InfoView instance (in case of multiple instances using load balancing, see [section "3.5 Case of multiple InfoView Instances"](#)).

The console mode only uses English.

- **Launch the installer:** type `java -jar Galigeo_WebI-bi4_G19.5_Installer.jar - console` in a shell command prompt



We recommend to **run the installer with the same user and same Java Environment as the BOE applications server**. See [2.2 Launch the installer](#)

- **Licence agreement:** read the agreement (Type [Enter] to scroll), type 1 to accept then [Enter]

```
shall be required to pay to Licensor (i) the costs and expenses incurred in ass
amounts that Licensor has actually received in association with the Agreement a
ue Licensor under this Section shall be immediately due and payable.

15. GENERAL PROVISIONS:
This Agreement constitutes the entire agreement between the parties pertaining t
al agreement previously existing with respect to the subject matter herein. The
sor unless approved in writing by a duly authorized representative of Licensor,
sor's prior written consent. Any assignment or delegation of Your rights under t
that Licensor may assign all or part of Licensor's rights and/or obligations un
its Authorized Distributors's rights and obligations hereunder to any third part
e to the benefit of GALIGEO and the Owners as third party beneficiaries of this
s of this Agreement against You; and (iii) GALIGEO and the Owners accept its thi
cable. In the event that any provision of the Agreement is found unlawful, void
law, and the other provisions shall remain in full force and effect. Except with
lays in performance hereunder due to causes beyond its reasonable control.

16. GOVERNING LAW AND JURISDICTION:
This Agreement shall be governed by the internal laws of the Territory, exclusin
Nations Convention on Contracts for the International Sale of Goods from this A
tion with the interpretation or the performance hereof shall be referred to the c

press Enter to continue, X to exit

press 1 to accept, 2 to reject, 3 to redisplay
1
```

- **Packs to install:** select - type 1 then [Enter] - "AnalyticalReporting with Galigeo Connector" and "Galigeo Administration"

```
Select the packs you want to install:

[x] AnalyticalReporting with Galigeo Connector (in BOE.war) (AnalyticalReportin
is the BO web module that displays WebI documents in InfoView Portal. The inst
llation process produces a new BOE.war webapp that embeds the Galigeo connector
within AnalyticalReporting.)
input 1 to select, 0 to deselect:
1
[x] Galigeo Cartographic Viewer (Component for dynamic consultation and analysi
of BO indicators on maps embeded in WebI documents within InfoView Portal.)
input 1 to select, 0 to deselect:
0
[x] Galigeo Administration (Galigeo Administration Console.)
input 1 to select, 0 to deselect:
1
[<required>] modulesVersions
...pack selection done.
press 1 to continue, 2 to quit, 3 to redisplay
```

- **BO Information:** specify the location for the file **BOE.war** shipped with BO ; by default, you will find it in **<BOE\_HOME>/SAP BusinessObjects Enterprise XI 4.0/wdeploy/workdir/tomcat8/application/**  
Select which BO version is being used

Validate the informations

```
Business Objects Information
-----
Location of BOE.war webapp:
[]
D:\products\BOBI4\SAP BusinessObjects Enterprise XI 4.0\wdeploy\workdir\tomcat6\
application\BOE.war

Current Version of Business Objects:
0 [ ] BI 4.0 SP4
input selection:
0
```

- **Installation folder:** specify the directory where the product will be installed, for example: D:\products\galigeo (if the directory doesn't exist, it will be created) then validate

```
Installation Folder
-----
Installation folder:
[C:\Program Files\WebiGeo]
D:\products\webigeo

press 1 to continue, 2 to quit, 3 to redisplay
1
```

- **Installation parameters:** fill the parameters according to the [table described in the graphical mode section](#) then validate

```
Parameters
-----

Galigeo Repository Host: [ggo-port-jmg]

Galigeo Repository Port: [1099]

InfoView Portal Proxy URL <Optional: leave empty if no proxy is used>:
[http/https://[host]:[port] []]

Galigeo Admin Console Proxy URL <Optional: leave empty if no proxy is used>:
[http/https://[host]:[port] []]

[ ] SSL Proxy <Optional: do not check if no SSL proxy is used>
input 1 to select, 0 to deselect:

BO Group IDs allowed to access to the administration console <Optional otherwise
comma separated list>:
[]

-----

The following options are used in the case of InfoView load balancing. Leave the
fields blank otherwise.

Distant Galigeo Repository Host: []

Distant Galigeo Repository Port: []

press 1 to continue, 2 to quit, 3 to redisplay
```



- **Web applications generation:** Wait this step to complete. The installer produces 2 webapps, **BOE.war** and **wgo.war**, ready to be deployed in the application server (ex Tomcat 8.x) used by InfoView

### 3.4 Deploy the web applications

The installer produces 2 webapps that are ready to be deployed on the application server used by InfoView:

- **BOE.war with the Galigeo connector:** AnalyticalReporting module within BOE.war webapp is used to display WebI documents in InfoView
- **wgo.war :** Galigeo administration console

The following steps describe the deployment on the default BO Tomcat:

- On the BO server, go to the directory **<GALIGEO\_HOME>/webapps** (ex: D:\products\galigeo\webapps). It contains **BOE.war** and **wgo.war** webapps produced by the installer
- Stop the InfoView Tomcat service
- Backup and remove the directory **<BOE\_HOME>/Tomcat/webapps/BOE**
- Copy the 2 above files BOE.war and wgo.war to **<BOE\_HOME>/Tomcat/webapps/** (ex: D:\products\BOBI4\Tomcat\webapps\)
- Empty Tomcat cache: remove the directory **<BOE\_HOME>/Tomcat/work/Catalina/localhost/BOE**
- Restart BO Tomcat service.

### 3.5 Case of multiple InfoView Instances (optional)

In order to do some load balancing, multiple InfoView portal can be deployed on different application servers. Each instance connects to the same BO CMS and are usually accessed through a single HTTP proxy.

The web application **AnalyticalReporting (with the Galigeo connector)** embedded in BOE.war can access:

- **Either a local Galigeo repository** started by the local webapp **wgo**: **it is the default behaviour.**
- **Or with a remote Galigeo repository** started by a web application **wgo** located on a remote Tomcat: **that feature needs to be activated** by following the steps above.

On the first BO server, **SERVER\_1**, we do a classic deployment of **AnalyticalReporting** (embedded in BOE.war) and **wgo**:

- **That server hosts the Galigeo repository.**

On **SERVER\_1**, during the steps "**Installation Parameters**", using the [graphical](#) or [console](#) mode of the installer, we need to set the following parameters:

Parameter	Value	Example
<b>Port of the Galigeo Repository</b>	<b>GGO_REPO_PORT_1</b> <ul style="list-style-type: none"> <li>• Used by the Galigeo repository.</li> <li>• Also used by the data provider on SERVER_1 and the cartographic viewer.</li> </ul>	1099
<b>Remote Galigeo repository</b>	Non applicable on SERVER_1	NA
<b>Port of the remote Galigeo repository</b>	Non applicable on SERVER_1	NA

On the second server, **SERVER\_2**, we first need to do a classic installation of **AnalyticalReporting** and **wgo** :

- We configure AnalyticalReporting and wgo webapps in order to **access the remote repository** started by the webapp wgo **on the 1<sup>st</sup> server**. This is done during the step "**Installation parameters**" of the installer.

On **SERVER\_2**, during the steps "**Installation parameters**", with the [graphical mode](#) or [console mode](#) we have:

Parameter	Value	Example
-----------	-------	---------

<b>Port of the Galigeo repository</b>	<b>GGO_REPO_PORT_2</b> Only used by the shared data registry between the Galigeo connector on SERVER_2 and the cartographic viewer.	10099
<b>Remote Galigeo repository host</b>	<b>SERVER_1</b>	SERVER_1
<b>Remote Galigeo repository port</b>	<b>GGO_REPO_PORT_1</b>	1099

Once the steps are done, the users connecting to any InfoView instance will see a single Galigeo repository.

It is the same for Galigeo Administration Console.

### 3.6 Declare Galigeo PDF markers



**BOE "Server Intelligence Agent" service needs to be stopped / restarted to complete this operation.**

Steps to declare Galigeo PDF markers are the following:

- On BOE Server, go to the directory **<GALIGEO\_HOME>/BI4.images** (ex: D:\products\galigeo\BI4.images)
- Copy both images **ggo4PDF\_interactiveMapref\_img.jpg** and **ggo4PDF\_smallMapref\_img.jpg** into BO "images" directory: **<BOE\_HOME>/SAP BusinessObjects Enterprise XI 4.0/images**  
Example: D:\products\BOBI4\SAP BusinessObjects Enterprise XI 4.0\images
- Into BO "images" directory, backup **SkinConfig.xml** file (into SkinConfig.xml.bck for example)
- **Update BO SkinConfig.xml file** according to instructions given in file **<GALIGEO\_HOME>/BI4.images/SkinConfig.xml.ggoPdfMarkers.txt**
- **Stop / restart "Server Intelligence Agent" service** to take into account the modifications.

### 3.7 Admin Console - local installation of ESRI JS API

If Galigeo Administrator client web browser has no Internet access, the ESRI javascript API needs to be deployed locally. For this, on BOE server, follow the instructions given at:

**<BOE\_TOMCAT\_HOME>/webapps/wgo/admin/js\_api/arcgis\_v32\_local\_install.txt**

## Chapter 4: Cartographic viewer and print module installation

---

In this chapter:

[Where the installation takes place?](#)

[Installation steps - graphical mode](#)

[Installation steps - console mode](#)

[Deploy the web application](#)

[Galigeo Tomcat Configuration](#)

[Font installation](#)

## 4.1 Where the installation takes place?

The installation takes place on Galigeo Sever.



The installation steps described in this chapter concern new installations.

**If Galigeo is already installed, see chapter 5 - [Update an existing installation](#).**

<**GALIGEO\_HOME**> is the Galigeo installation directory. It can be either an existing directory or a new one created during the installation.



**Example** of <**GALIGEO\_HOME**> :

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**

<**GGO\_TOMCAT\_HOME**> is the root directory of Tomcat Server.



**Example** of <**GGO\_TOMCAT\_HOME**> :

Windows: **D:\products\tomcat**

Unix / Linux : **/products/tomcat**



If pre-requisites match (OS, Tomcat, JDK), BI Server can play the role of Galigeo server.

- The installation directory is then the same as Galigeo BI connector components
- Cartographic viewer is deployed in Tomcat that runs InfoView





## 4.2 Installation steps - graphical mode

If the server doesn't have a window manager, go to **section "4.3 Installation steps - console mode"**.

- **Start the installer:** double-click on the file or type **java -jar Galigeo\_WebI-bi4\_G19.5\_Installer.jar** in a shell console



We recommend to **launch the installer with the same user account as the application server**.

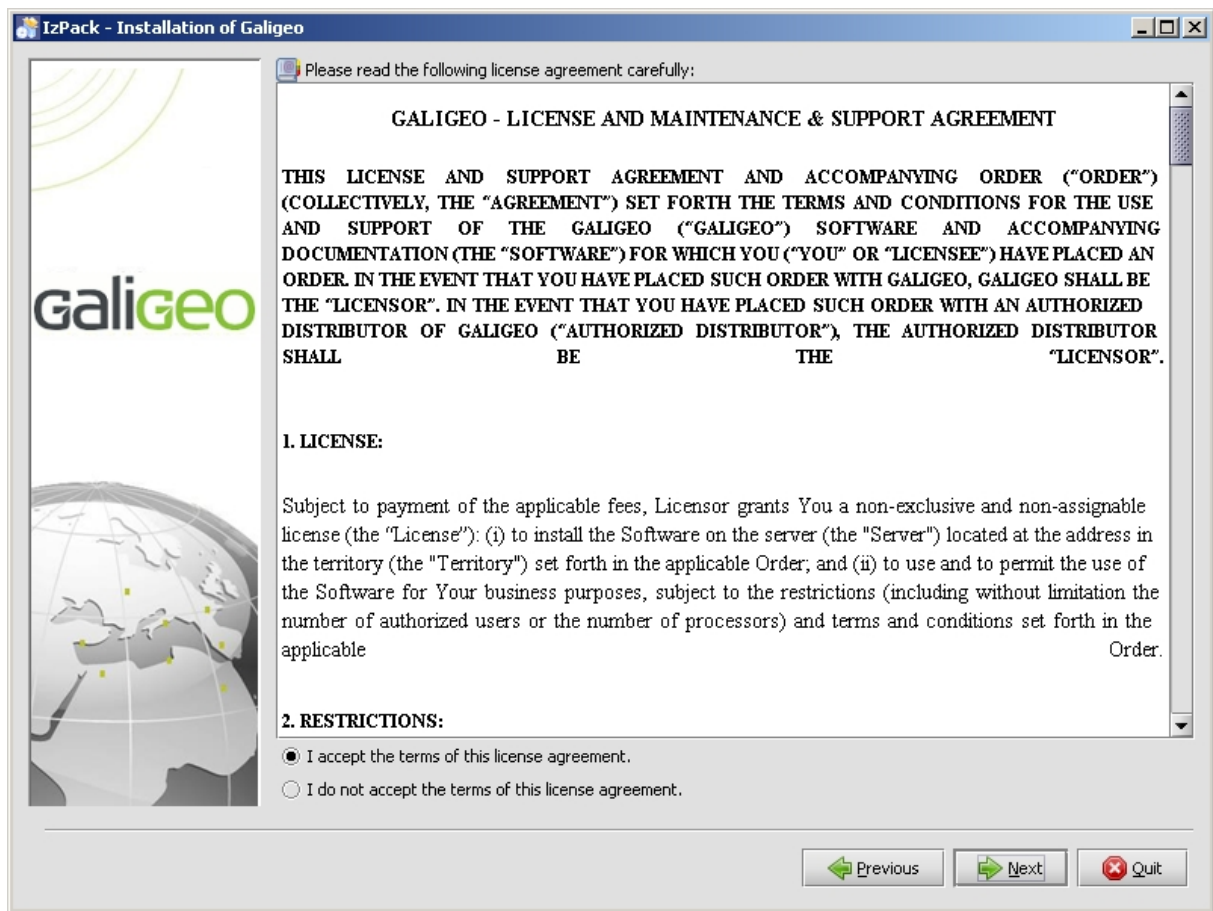
- **Language selection:** select "eng" then click [OK]



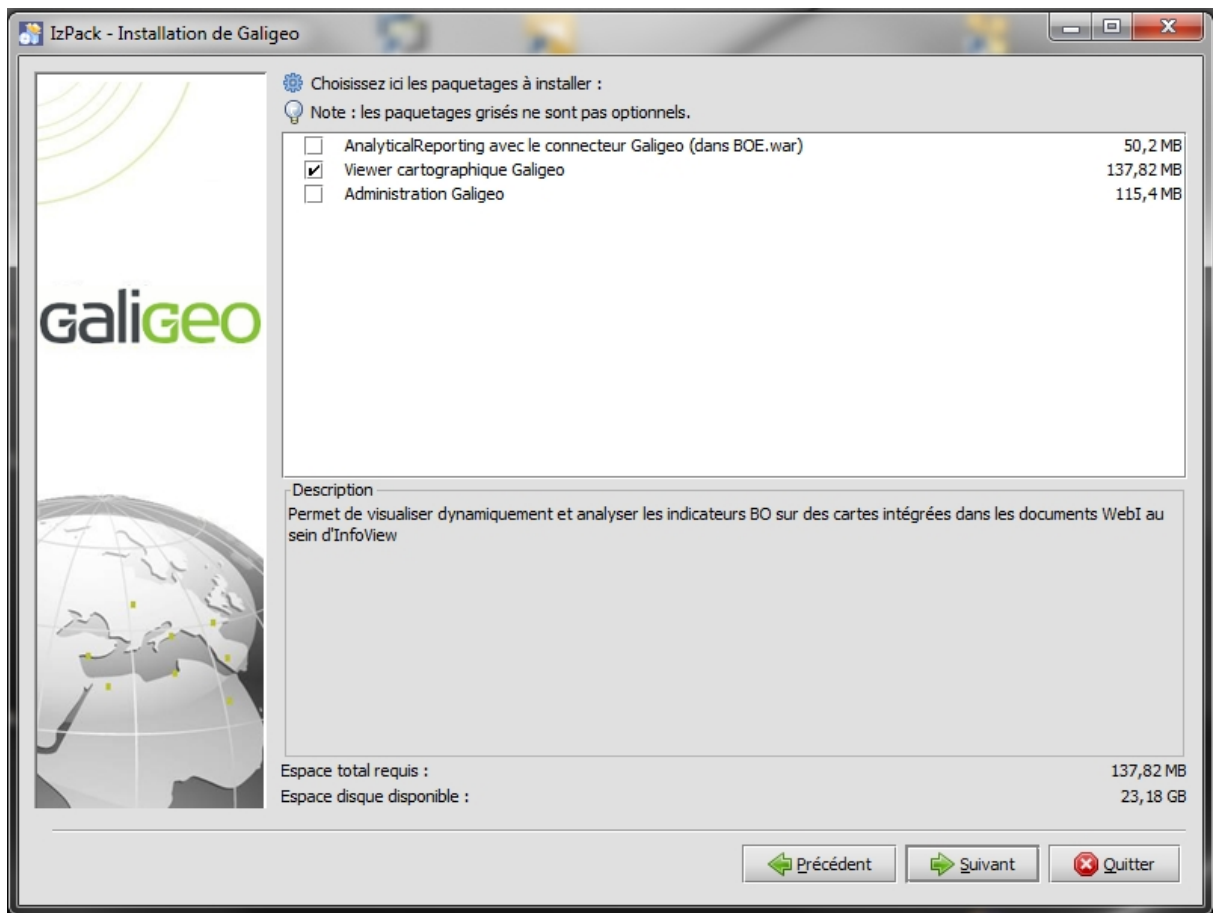
- **Welcome panel:** click [Next]



- **License agreement:** Accept the license then click [Next]



- **Installation Packs:** check "Galigeo Cartographic Viewer", then click [Next]



- **Installation folder:** specify the directory where Galigeo will be installed, for example: D:\products\galigeo (if the directory doesn't exist, it will be created) then click [Next]



- **Web applications generation - step 1:** wait the first step to complete then click [Next]
- **Web applications generation - step 2:** wait the second step to complete then click [Next]
- **Installation summary:** Click [Quit]. The installer produces one webapp, **Galigeo.war**, ready to be deployed in the dedicated application server (ex Tomcat 8.x).

## 4.3 Installation steps - console mode

The console mode only uses English.

- **Launch the installer:** type `java -jar Galigeo_WebI-bi4_G19.5_Installer.jar - console` in a shell command prompt



We recommend to **launch the installer with the same user account as the application server.**

- **Licence agreement:** read the agreement (Type [Enter] to scroll), type 1 to accept then [Enter]

```
shall be required to pay to Licensor (i) the costs and expenses incurred in ass
amounts that Licensor has actually received in association with the Agreement a
ue Licensor under this Section shall be immediately due and payable.

15. GENERAL PROVISIONS:
This Agreement constitutes the entire agreement between the parties pertaining t
al agreement previously existing with respect to the subject matter herein. The
sor unless approved in writing by a duly authorized representative of Licensor,
sor's prior written consent. Any assignment or delegation of Your rights under t
that Licensor may assign all or part of Licensor's rights and/or obligations un
its Authorized Distributors's rights and obligations hereunder to any third part
e to the benefit of GALIGE0 and the Owners as third party beneficiaries of this
s of this Agreement against You; and (iii) GALIGE0 and the Owners accept its thi
cable. In the event that any provision of the Agreement is found unlawful, void
law, and the other provisions shall remain in full force and effect. Except with
lays in performance hereunder due to causes beyond its reasonable control.

16. GOVERNING LAW AND JURISDICTION:
This Agreement shall be governed by the internal laws of the Territory, excludin
Nations Convention on Contracts for the International Sale of Goods from this A
ion with the interpretation or the performance hereof shall be referred to the c

press Enter to continue, X to exit

press 1 to accept, 2 to reject, 3 to redisplay
1
```

- **Packs to install:** select "**Galigeo Cartographic Viewer**" - type 1 then [Enter]; do not select "AnalyticalReporting with Galigeo Connector" and "Galigeo Administration" (0 then [Enter])

```
Select the packs you want to install:

[☒] AnalyticalReporting with Galigeo Connector <in BOE.war> <AnalyticalReporting
is the BO web module that displays WebI documents in InfoView Portal. The insta
llation process produces a new BOE.war webapp that embeds the Galigeo connector
within AnalyticalReporting.>
input 1 to select, 0 to deselect:
0
[☒] Galigeo Cartographic Viewer <Component for dynamic consultation and analysis
of BO indicators on maps embeded in WebI documents within InfoView Portal.>
input 1 to select, 0 to deselect:
1
[☒] Galigeo Administration <Galigeo Administration Console.>
input 1 to select, 0 to deselect:
0
[<required>] modulesVersions

...pack selection done.
press 1 to continue, 2 to quit, 3 to redisplay
```

- **Installation folder:** specify the directory where the product will be installed, for

example: D:\products\galigeo (if the directory doesn't exist, it will be created) then validate

```
Installation Folder
-----
Installation folder:
[C:\Program Files\WebiGeol]
D:\products\webigeo

press 1 to continue, 2 to quit, 3 to redisplay
1
```

- **Web applications generation:** Wait this step to complete. The installer produces one webapp, **Galigeo.war**, ready to be deployed in the dedicated application server (ex Tomcat 8.x).

## 4.4 Deploy the web application

The installer produces one webapp, **Galigeo.war**, that is ready to be deployed on the dedicated Galigeo application server.

The following steps describe the deployment on Tomcat:

- On Galigeo Server, go to the directory **<GALIGEO\_HOME>/webapps** (ex: D:\products\galigeo\webapps). It contains the **Galigeo.war** webapp produced by the installer
- Stop the Galigeo Tomcat service
- copy above war files to **<GGO\_TOMCAT\_HOME>/webapps/** (or **<BOE\_HOME>/Tomcat/webapps/** if insallation is done on BI Server)  
(ex: D:\products\tomcat\webapps\)
- Restart Galigeo Tomcat Service.



## 4.5 Galigeo Tomcat Configuration

### Memory Configuration

In order to get some optimal performances in Galigeo, you need to modify Tomcat's default memory parameters.

Once this change is done, you need to restart Tomcat.

We recommend to use a 64 bits Tomcat application server and Java machine.

#### If Tomcat is installed as a service

- Open the Tomcat configuration console,
- Go to the tab "Java",
- In the area « Java Options » add the two following lines:

**-Xrs**

**-XX:MaxPermSize=256M**

- Set the parameter "Initial memory pool" at **128**
- Set the parameter "Maximum memory pool" according to recommendations given in chapter [1.5 Galigeo Server](#)
  - 64 bits Tomcat+JVM example: 4096 (there is no limit for a 64 bits JVM)
  - 32 bits Tomcat+JVM 32 example: 1024 (32 bits JVM is limited to 1536)

#### If Tomcat starts as a script "startup.bat"

- Edit the file **<GGO\_TOMCAT\_HOME>/bin/catalina.bat**
- At the beginning of the script, add the line:

64 bits Tomcat+JVM example:

```
set JAVA_OPTS=%JAVA_OPTS% -Xmx4096m -Xrs -XX:MaxPermSize=256m
```

32 bits Tomcat+JVM example:

```
set JAVA_OPTS=%JAVA_OPTS% -Xmx1024m -Xrs -XX:MaxPermSize=256m
```

### Special characters

To display and print correctly special characters, you need to apply the following settings.

Once changes are done, you need to restart Tomcat.

#### Add parameter -Dfile.encoding=UTF-8

#### If Tomcat is installed as a service

- Open the Tomcat configuration console,
- Go to the tab "Java",
- In the area « Java Options » add the two following lines:

**-Dfile.encoding=UTF-8**

**If Tomcat starts as a script "startup.bat"**

- Edit the file **<GGO\_TOMCAT\_HOME>/bin/catalina.bat**
- At the beginning of the script, add the line:

```
set JAVA_OPTS=%JAVA_OPTS% -Dfile.encoding=UTF-8
```

**Add parameter `URIEncoding="UTF-8"`**

- Edit file **<GGO\_TOMCAT\_HOME>/conf/server.xml**,
- Go to tag `<Connector port="8080"..` corresponding to Tomcat port (by default 8080), and modify or add the parameter **`URIEncoding="UTF-8"`**

Example:

```
<Connector      port="8080"      protocol="HTTP/1.1"      connectionTimeout="20000"
      redirectPort="8443" URIEncoding="UTF-8">
```

## 4.6 Font installation

**Installation of the ESRI fonts** *(deprecated)*

- **The ESRI fonts are not used in Galigeo G19.5 and are not provided in the Galigeo package. It is useless to install them on a virgin platform.** They will be replaced by the Galigeo proper SVG symbols.
- **The only case when it is necessary to install the ESRI font is the following: the reinstallation of Galigeo on a new server with map transports that are using the ESRI fonts.** The following procedure is to be followed afterwards.
- When updating a previous version to Galigeo G19.5, the maps, created with the previous version that are using the ESRI fonts will continue to work in G19.5. The ESRI font have actually been installed by the previous version Galigeo.

- Download ESRI fonts at: [https://download.galigeo.com/download/fonts/font\\_esri.zip](https://download.galigeo.com/download/fonts/font_esri.zip)
- Unzip the zip file font\_esri.zip in a folder on the Galigeo server
- On Windows, select all the .ttf file, right click then choose "Install"
- On Unix / Linux the font installation depends on the distribution

**Installation of Windows fonts on Unix / Linux for print module**

Windows fonts are used by the HTML5 print module and may be missing on the Unix / Linux server. They need to be installed. This action can be easily accomplished via the native package installer for each Unix / Linux distribution.

For example, for a Red Hat distribution, the package to install is: *msttcorefonts-2.5-1.noarch.rpm*

## Chapter 5: Update an existing installation

---

In this chapter:

[Update BI Connector](#)

[Update cartographic viewer](#)

## 5.1 Update BI Connector

**The procedure takes place on the BI server where InfoView is deployed.**

A Galigeo BI connector and its administration console are already deployed in the BO Tomcat dedicated to InfoView.

This may be a previous version of Galigeo or current one. See annex "[Knowing the version of Galigeo components](#)".

**<GALIGEO\_HOME>** is the Galigeo installation directory. This directory already exists from the previous installation.



**Example of <GALIGEO\_HOME> :**

Windows: **D:\products\galigeo**

**<BOE\_TOMCAT\_HOME>** is the root directory of BO Tomcat Server.



**Example of <BOE\_TOMCAT\_HOME> :**

Windows: **D:\products\BOBI4\Tomcat\**

- Stop BO Tomcat service
- **Backup installed Galigeo repository.** See annex "[Backup of Galigeo repository](#)"
- With Galigeo installer do installation steps "[3.2 Installation steps - graphical mode](#)" or "[3.3 Installation steps - console mode](#)" :
  - **Select the existing <GALIGEO\_HOME> directory as installation folder**
- Go to **<BOE\_TOMCAT\_HOME>/webapps** (ex: D:\products\BOBI4\Tomcat\webapps\), **delete** or **move** in a backup directory outside tomcat the following elements:
  - **BOE** and **wgo** folders
  - **BOE.war** and **wgo.war** files
- Go to **<GALIGEO\_HOME>/webapps** (ex: D:\products\galigeo\webapps), copy **BOE.war** and **wgo.war webapps**, produced by installer, to **<BOE\_TOMCAT\_HOME>/webapps**
- **Empty Tomcat cache:** go to **<BOE\_TOMCAT\_HOME>/work/Catalina/localhost/** and remove **BOE** et **wgo** folders
- Restart BO Tomcat service.

## 5.2 Update cartographic viewer

**The procedure takes place on Galigeo Sever.**

A Galigeo cartographic viewer is already deployed in the Galigeo Tomcat server.

This may be a previous version of Galigeo or current one. See annex "[Knowing the version of Galigeo components](#)".

**<GALIGEO\_HOME>** is the Galigeo installation directory. This directory already exists from the previous installation.



**Example of <GALIGEO\_HOME> :**

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**

**<GGO\_TOMCAT\_HOME>** is the root directory of Galigeo Tomcat Server.



**Example of <GGO\_TOMCAT\_HOME> :**

Windows: **D:\products\Tomcat**

Unix / Linux : **/products/Tomcat**

- With Galigeo installer do installation steps "[4.2 Installation steps - graphical mode](#)" or "[4.3 Installation steps - console mode](#)" :
  - **Select the existing <GALIGEO\_HOME> directory as installation folder**
- Stop Galigeo Tomcat service
- Go to **<GGO\_TOMCAT\_HOME>/webapps** (ex: D:\products\Tomcat\webapps\), **delete** or **move** in a backup directory outside tomcat the following elements:
  - **Galigeo** folder
  - **Galigeo.war** file
- Go to **<GALIGEO\_HOME>/config** (ex: D:\products\galigeo\config), and **inactivate current config.json file by renaming it config.json.old**, for example. The new config.json file is automatically generated on the first display of a map. If the old file has been customized (ex: custom basemaps), the customization has to be transferred to the new file
- Go to **<GALIGEO\_HOME>/webapps** (ex: D:\products\galigeo\webapps), copy **Galigeo.war webapp**, produced by installer, to **<GGO\_TOMCAT\_HOME>/webapps**
- **Empty Tomcat cache:** go to **<GGO\_TOMCAT\_HOME>/work/Catalina/localhost** and remove the folder **Galigeo**

- Restart Galigeo Tomcat Service.



If update is done on G17.0, **cartographic viewer name ha changed from ggo\_carto\_viewer(-ssl) to Galigeo**. In Administration console > Parameters, update the following informations:

- **Galigeo GIS module Client URL** parameter
- If Direct Shape feature is used (**MapServices Type = Shape**), update **MapServices REST access URL** parameter and **each MapService** (MapServices tab) using Direct Shape.



If you plan to use Territory management tool, some advanced users (Administration > Users tab) have to be declared/updated with Designer role.

## Chapter 6: Uninstall Galigeo

---

In this chapter:

[Uninstall BI Connector](#)

[Uninstall cartographic viewer](#)

## 6.1 Uninstall BI Connector

The procedure takes place on the BI server where InfoView is deployed.

<GALIGEO\_HOME> is the Galigeo installation directory.



**Example of <GALIGEO\_HOME> :**

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**

<BOE\_TOMCAT\_HOME> is the root directory of BO Tomcat Server.



**Example of <BOE\_TOMCAT\_HOME> :**

Windows: **D:\products\BOBI4\Tomcat\**

- Stop BO Tomcat service
- **Backup <GALIGEO\_HOME> directory and all its content**
- Delete <GALIGEO\_HOME> directory
- Go to <BOE\_TOMCAT\_HOME>/webapps (ex: D:\products\BOBI4\Tomcat\webapps\), **delete** the following elements:
  - **BOE** and **wgo** folders
  - **BOE.war** and **wgo.war** files
- **Empty Tomcat cache:** go to <BOE\_TOMCAT\_HOME>/work/Catalina/localhost/ and remove **BOE** et **wgo** folders
- Restart BO Tomcat service. It will deploy original **BOE.war** **BO webapp** into to a new directory <BOE\_TOMCAT\_HOME>/webapps/BOE

## 6.2 Uninstall cartographic viewer

The procedure takes place on Galigeo Sever.

<GALIGEO\_HOME> is the Galigeo installation directory.





**Example of <GALIGEO\_HOME> :**

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**

**<GGO\_TOMCAT\_HOME>** is the root directory of Galigeo Tomcat Server.



**Example of <GGO\_TOMCAT\_HOME> :**

Windows: **D:\products\Tomcat**

Unix / Linux : **/products/Tomcat**

- Stop Galigeo Tomcat service
- **Backup <GALIGEO\_HOME> directory and all its content**
- Delete **<GALIGEO\_HOME>** directory
- Go to **<GGO\_TOMCAT\_HOME>/webapps** (ex: D:\products\Tomcat\webapps\, **delete** the following elements:
  - **Galigeo** folder
  - **Galigeo.war** file
- **Empty Tomcat cache:** remove the directory **Galigeo** located at **<GGO\_TOMCAT\_HOME>/work/Catalina/localhost**
- Restart Galigeo Tomcat Service

## Chapter 7: Setting Galigeo components parameters

---

In this chapter:

### Access to administration console

#### 7.1 Access to administration console

Setting Galigeo components parameters is done in Galigeo web administration console. A full description of these steps is found in the Administration guide.

Galigeo administration console URL is the following:

**`http://<BOE_TOMCAT_SERVER>:<BOE_TOMCAT_PORT>/wgo/admin/logon.jsp`**



**`http://boe-srv:8080/wgo/admin/logon.jsp`**

## Chapter 8 : Annexes

---

In this chapter:

[Backup of Galigeo repository](#)

[Restore Galigeo repository from a backup](#)

[Change XY Projection](#)

[Knowing the version of Galigeo components](#)

## 8.1 Backup of Galigeo repository

The procedure takes place on the BI or Galigeo server.

This operation back-ups application settings of Galigeo and may be useful when a new Galigeo version is installed.

<GALIGEO\_HOME> is the Galigeo installation directory.



**Example** of <GALIGEO\_HOME> :

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**



Tomcat service is stopped and restarted during backup procedure.

- Stop Tomcat service (BO or Galigeo)
- **Copy**, at least, **the following directories** from <GALIGEO\_HOME> to a backup directory <GGO\_BACKUP>, outside Tomcat:
  - **/config**
  - **/contexts**
  - **/dataset**
  - **/images**
  - **/network**
  - **/query**
  - **/shp**
  - **/templates**
  - **/tm**
  - **/WEBIGEO\_REPOSITORY/tables**
- Restart Tomcat service

**Notice:** some directories may be empty or not exist, depending on license type and/or the usage of the application

## 8.2 Restore Galigeo repository from a backup

The procedure takes place on the BI or Galigeo server.

<GGO\_BACKUP> is the path to the **backup** directory from a previous version of Galigeo

repository.

<GALIGEO\_HOME> is the Galigeo installation directory.



**Example** of <GALIGEO\_HOME> :

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**



Tomcat service is stopped and restarted during restore procedure.

- Stop Tomcat service (BO or Galigeo)
- **Copy** the directories listed in previous chapter "[Backup of Galigeo repository](#)" from <GGO\_BACKUP> to <GALIGEO\_HOME>
- Restart Tomcat service

### 8.3 Knowing the version of Galigeo components

<GALIGEO\_HOME> is the Galigeo installation directory on BO or Galigeo Server.



**Example** of <GALIGEO\_HOME> :

Windows: **D:\products\galigeo**

Unix / Linux : **/products/galigeo**

<BOE\_TOMCAT\_HOME> is the root directory of BO Tomcat Server.



**Example** of <BOE\_TOMCAT\_HOME> :

Windows: **D:\products\BOBI4\Tomcat\**

<GGO\_TOMCAT\_HOME> is the root directory of Tomcat Server on Galigeo Server.



**Example** of <GGO\_TOMCAT\_HOME> :

Windows: **D:\products\Tomcat**

Unix / Linux : **/products/Tomcat**

The below table give the path to version files.

	Version file location	Example
--	-----------------------	---------

<b>All components</b>	<b>&lt;GALIGEO_HOME&gt;/ modules.versions.txt</b>	ggo_bi_connector.version=Galigeo G19.5;BI-CONNECTOR - BOE- BI4;b610157  Galigeo_war.version=Galigeo G19.5;HTML5-VIEWER/ PRINT;b[gaia-viewer]11238;b[print] 11245  wgo_war.version=Galigeo G19.5;ADMIN/BI-CONNECTOR - BOE-BI4;b610157  ggo_installer.version=Galigeo G19.5;INSTALLER WGO-BO- bi4;b610169
<b>BI Connecteur (inside BOE webapp)</b>	<b>&lt;BOE_TOMCAT_HOME&gt;/ webapps/BOE/WEB- INF/eclipse/plugins/ webpath.AnalyticalRepo rting/web/webigeo/ version.txt</b>	version=Galigeo G19.5;BI- CONNECTOR - BOE-BI4;b610157
<b>wgo webapp</b>	<b>&lt;BOE_TOMCAT_HOME&gt;/ webapps/wgo/ version.txt</b>	version=Galigeo G19.5;ADMIN/BI- CONNECTOR - BOE-BI4;b610157
<b>Galigeo webapp</b>	<b>&lt;GGO_TOMCAT_HOME&gt; /webapps/Galigeo/ version.txt</b>	version=Galigeo G19.5;HTML5- VIEWER/PRINT;b[gaia-viewer] 11238;b[print]11245