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Reason for Revision
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	Approval Name	Date (Universal Time)	Reason for Signature
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## 1. INTRODUCTION

This document covers the TIBCO BW 6.x platform, it describes in detail the steps needed to install the TIBCO Business Work 6.x and TEA 2.2, This document can be used as a reference for installing Business Work6.x for any environment for any project.

Description	Vendor	Model/Type	Identifier/Version/Patch	Comments
TIBCO EMS	TIBCO	TIBCO FOR Linux	• 8.2.0	•
TEA	TIBCO	TIBCO FOR Linux	• 2.2	•
Business Work	TIBCO	TIBCO FOR Linux	• 6.2.2 •	•

### ○ Related Documents

Doc ID	Title
NA	

## 2. SCOPE

This installation guide is applicable for TIBCO BW6.x on Linux and TEA on Windows

## 3. RESPONSABILITIES

This document assumes that the operator is acquainted with the TIBCO product in terms of architecture and vocabulary and with Windows operating system

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## 4. PREREQUISITES

### - Installation Account

The privileges required to install the product differ for Windows and Linux platforms. Ensure that you have the appropriate privileges to install on the target platform.

On Windows: you must have administrator privileges for the machine on which you want to install the software.

On UNIX: Use the same installer account to install all TIBCO products (tibw6vX).

On Unix systems, a graphic environment such as CDE or X Windows is required to run the installer in GUI mode.

### - Installation packages :

```
product_tibco_eclipse_lgpl_4.4.1.001_linux26gl25_x86_64.zip
product_tibco_sunec_1.7.0.055_linux_x86_64.zip
product_tibco_sunec_1.7.0.076_linux_x86_64.zip
registry_file.xml
source
TIB BW 6.2.2 HF
TIB_BW_6.2.2_linux26gl23_x86_64
TIB_BW_6.3.0 HF-001.zip
TIB BW 630 Linux
TIB_bwpluginbigdata_6.1.0_linux
TIB_BW_6.2.2 HF-001_linux26gl23_x86_64
TIB_BW_6.2.2 HF-002_linux26gl23_x86_64
```

### - Copy the Oracle Elliptic curve in \$HOME/zip

```
rw-r--r--x. 1 tibwv6t tibcoadm 4245942 Mar  9 09:26 product_tibco_eclipse_lgpl_3.7.2.001_linux24gl23_x86_64.zip
rw-r--r--x. 1 tibwv6t tibcoadm  97686 Mar  9 09:26 product_tibco_sunec_1.7.0.076_linux_x86_64.zip
tibwv6t@xsn150b951b.pharma.aventis.com:~$ pwd
/home/tibwv6t/zip
```

## 5. INSTALLATION ACTIVITIES AND ACTIONS

### 5.1. Install TIBCO Runtime Environment

The runtime environment is installed by running the TIBCO installer from the downloaded uncompressed archive package

### 5.2. Configuration

#### • Create group and user

# tibcoadm group (GID=800) and tibcoadm user (UID=801)

# TIBCO BW user: tibwv6<e> (UID=xxx,GID=800)

X= 01 -> 99, <env code>= d (dev) , i(integration), t (test/uat) , p(production)

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Example: tibwv6t for UAT

- **Create environment ( iBus):**

**# Location directory**

**{TIBCO\_HOME}=/apps/tibco/BW601t ( for UAT)**

**TIBCO\_PACKAGE=/ packages**

**TIBCO installation directory structure:**

Directory structure	Descriptions
\$HOME	Userid directory(/apps/tibco/bc)
/apps/tibco/bin	The directory that holds the common scripts that are used by all of the TIBCO EMS installed on a particular server.
<b>/apps/tibco/BW601t/</b>	<b>TIBCO Home directory</b>
{TIBCO_HOME}/lib (drivers, sapjco...)	All external libs, e.g. SAP, JDBC...
{TIBCO_HOME}/config	Configuration directory

**TIBCO “configuration” directory structure:**

/data/tibdata/bc<port>/config	<b>NAS share</b> for the EMS config files
{TIBCO_HOME}/ems/version/bin	EMS tibemsd config file ( <b>tibemsd_&lt;port&gt;.conf</b> )

**TIBCO “Messaging Data” directory structure:**

/data/tibdata/<port>emsdata/datastore	NAS share for datastore

**TIBCO “LOGS” directory structure:**

/logs/tiblog/<port>/log	The tibco directory logs (EMS, stop/start process...)
-------------------------	---

- Connect to the server with appropriate account TIBCO user to install TIBCO software.
- For installation in graphical mode you need to have an emulator tool installed in your PC, example Exceed and export DISPLAY="PC code".pharma.Aventis.com:0

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## 5.3. Installations BW6.x on Linux

### 5.3.1. Installation: TIBCO BW 6.2.2

<p>Extract the package Execute : TIBCOUniversalInstaller-Inx-x86-64.bin</p>	<pre>TIBCO Universal Installer - TIBCO HOME Selection ----- Choose the action you wish to perform.  1. Create a new TIBCO installation environment. 2. Choose an existing environment.  Select an option by entering its number from the list above. [1]  Specify Environment Name. Environment Name UAT TIBCO Environment Home Directory: [/opt/tibco/bw6] /apps/tibco/BW601t Environment Name: UAT Environment Location: /apps/tibco/BW601t Is this the TIBCO Home environment you want to use? [Yes] Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</pre>
<p>Choose "1" and enter "ENV" "/apps/tibco/BWxxx/"</p>	<pre>TIBCO Universal Installer - TIBCO HOME Selection ----- Choose the action you wish to perform.  1. Create a new TIBCO installation environment. 2. Choose an existing environment.  Select an option by entering its number from the list above. [1]  Specify Environment Name. Environment Name UAT TIBCO Environment Home Directory: [/opt/tibco/bw6] /apps/tibco/BW601t Environment Name: UAT Environment Location: /apps/tibco/BW601t Is this the TIBCO Home environment you want to use? [Yes] Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</pre>
<p>"YES" and enter</p>	<pre>TIBCO Universal Installer - Profile Selection ----- Choose one or more installation profiles. Installation Profiles preselect the installation features for you. You will have the option to customize your selections after making your profile choices.  1. [ ] Runtime 2. [ ] Typical  To select an item, enter its number. Enter '0' when you are finished. 2  1. [ ] Runtime 2. [X] Typical  To select an item, enter its number. Enter '0' when you are finished. 0 Do you want to customize the install feature selections? [Yes]</pre>

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"1" enter	<pre> TIBCO ActiveMatrix BusinessWorks 6.2.2 - Feature Selection ----- Choose the features to install.  1. [X] Design 2. [X] Runtime 3. [X] Oracle Elliptic Curve Cryptography Library  To select an item, enter its number. Enter '0' when you are finished.  1. [X] Design 2. [X] Runtime 3. [X] Oracle Elliptic Curve Cryptography Library  To select an item, enter its number. Enter '0' when you are finished. 0  Selected Installation Profile(s) ----- Typical  Product Feature Selections ----- TIBCO ActiveMatrix BusinessWorks 6.2.2 [X] Design [X] Runtime [X] Oracle Elliptic Curve Cryptography Library  Do you wish to proceed with the above feature selections? Enter 'Yes' to proceed or 'No' to make changes. [Yes] Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1] </pre>
Enter	<pre> TIBCO Universal Installer - Pre Install Summary ----- Pre-Install Summary  The following products will be installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Design Runtime Oracle Elliptic Curve Cryptography Library  Installation Environment Details: Environment Name: MAT Environment Location: /appes/tibco/BW601c Required Disk Space - 973 MB Available Disk Space - 46.5 GB  Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1] </pre>

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Specify the location of Oracle Elliptic curve in \$HOME/zip

specific license or the ordinary General Public License is the better  
 to use in any particular case, based on the explanations below.  
 When we speak of free software, we are referring to freedom of use,  
 not price. Our General Public Licenses are designed to make sure that  
 you have the freedom to distribute copies of free software (and charge  
 for this service if you wish); that you receive source code or can get  
 it if you want it; that you can change the software and use pieces of  
 it in new free programs; and that you are informed that you can do  
 these things.  
 To protect your rights, we need to make restrictions that forbid  
 distributors to deny you these rights or to ask you to surrender these  
 rights. These restrictions translate to certain responsibilities for  
 you if you distribute copies of the library or if you modify it.  
 For example, if you distribute copies of the library, whether gratis  
 or for a fee, you must give the recipients all the rights that we gave  
 you. You must make sure that they, too, receive or can get the source  
 code. If you link other code with the library, you must provide  
 complete object files to the recipients, so that they can relink them  
 with the library after making changes to the library and recompiling  
 it. And you must show them these terms so they know their rights.  
 We protect your rights with a two-step method: (1) we copyright the  
 library, and (2) we offer you this license, which gives you legal  
 rights to use, modify and redistribute the library.  
 Enter '1' to continue reading or '2' to skip reading: [1] 2  
 Do you agree to the terms of the license agreement?  
 Enter 'Yes' to agree to the license terms or 'No' to exit this installer: Yes  
 TIBCO Universal Installer - LGPL Assembly Download  
 -----  
 Choose the action you wish to perform.  
 1. Download Oracle Elliptic Curve Cryptography Library assembly from the public TIBCO download site.  
 2. Specify the location of a previously downloaded Oracle Elliptic Curve Cryptography Library assembly.  
 Select an option by entering its number from the list above. [1] 2  
 Specify Oracle Elliptic Curve Cryptography Library. Assembly Location. (assembly id: product\_tibco\_sunec version: 1  
 Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]  
 TIBCO Universal Installer - Pre Install Summary  
 -----  
 Pre-Install Summary

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"Enter" and finish	<pre> TIBCO Universal Installer - Post Install Summary -----  Post-Install Summary  The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 ----- Design Runtime Oracle Elliptic Curve Cryptography Library  Installation Environment Details:  Environment Name: UAT  Environment Location: /apps/tibco/BW601t  For more detailed information, the installation logs file are located at: /home/tibwv6t/.TIBCO/install_2016-03-09.095547  Press 'Enter' to exit the installer. [ ]  [tibwv6t@xsn150b952k TIB_BW_6.2.2_linux26gl23_x86_64]\$ </pre>
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### 5.3.2. Installation: BusinessWorks 6.2.2 HOTFIX 1

<b>Execute:TIBCOUniversalInstaller-x86-64.exe</b>	<pre> [tibwv6t@xsn150b952k TIB_BW_6.2.2_WF-001_linux26gl23_x86_64]\$ ./TIBCOUniversalInstaller-lnx-x86-64.bin -console  Initializing Wizard..... Launching Installation Wizard.....  TIBCO Universal Installer - Welcome -----  Welcome to the TIBCO Universal Installer  The installation wizard will install the following products on your system.  TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 1  TIBCO Software Inc. http://www.tibco.com  Enter '1' to continue or '3' to cancel: [1]  TIBCO Universal Installer - TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 1 License Agreement ----- </pre>
<b>Choose the existing environment and Enter</b>	<pre> TIBCO Universal Installer - TIBCO HOME Selection -----  Choose the action you wish to perform.  1. Create a new TIBCO installation environment. 2. Choose an existing environment.  Select an option by entering its number from the list above. [1] 2  Only one installation environment is available.  The available installation environment has the following details:  Environment Name: UAT Environment Location: /apps/tibco/BW601t  Is this the TIBCO Home environment you want to use? [Yes]  Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1] </pre>

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Enter	<p>TIBCO Universal Installer - Profile Selection</p> <p>-----</p> <p>Choose one of the following installation options.</p> <p>1. Typical Installation - Installs the default set of product features. 2. Custom Installation - Select the product features to install.</p> <p>Select an option by entering its number from the list above. [1]</p> <p>Selected Installation Profile(s)</p> <p>-----</p> <p>Typical</p> <p>Product Feature Selections</p> <p>-----</p> <p>TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 1 [X] Design Hotfix 1 [X] Runtime Hotfix 1</p> <p>Do you wish to proceed with the above feature selections?</p> <p>Enter 'Yes' to proceed or 'No' to make changes. [Yes]</p>	
Enter	<p>TIBCO Universal Installer - Pre Install Summary</p> <p>-----</p> <p>Pre-Install Summary</p> <p>The following products will be installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 1</p> <p>-----</p> <p>Design Hotfix 1 Runtime Hotfix 1</p> <p>Installation Environment Details:</p> <p>Environment Name: UAT</p> <p>Environment Location: /apps/tibco/BW601t Required Disk Space = 172 MB Available Disk Space = 44.9 GB</p> <p>Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</p>	
Finish	<p>TIBCO Universal Installer - Post Install Summary</p> <p>-----</p> <p>Post-Install Summary</p> <p>The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 1</p> <p>-----</p> <p>Design Hotfix 1 Runtime Hotfix 1</p> <p>Installation Environment Details:</p> <p>Environment Name: UAT</p> <p>Environment Location: /apps/tibco/BW601t</p> <p>For more detailed information, the installation logs file are located at: /home/tibwv6t/.TIBCO/install_2016-03-09.102854</p> <p>Press 'Enter' to exit the installer. [ ]</p>	

### 5.3.3. Installation: Business Works 6.2.2 HOTFIX 2

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<p>Execute : <b>TIBCOUniversalInstaller-x86-64.exe</b></p>	<pre>(tibv6t8xnl50b952k TIB_BW_6.2.2_HF-002_linuxx64l23_x86_64)\$ ./TIBCOUniversalInstaller-linux-x86-64.bin -console        Initializing Wizard.....       Launching InstallShield Wizard.....  TIBCO Universal Installer - Welcome -----  Welcome to the TIBCO Universal Installer  The installation wizard will install the following products on your system.  TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 2  TIBCO Software Inc. http://www.tibco.com  Enter '1' to continue or '3' to cancel: [1]  TIBCO Universal Installer - TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 2 License Agreement -----</pre>
<p>Choose the existing environment and Enter</p>	<pre>TIBCO Universal Installer - TIBCO HOME Selection -----  Choose the action you wish to perform.  1. Create a new TIBCO installation environment. 2. Choose an existing environment.  Select an option by entering its number from the list above. [1] 2  Only one installation environment is available.  The available installation environment has the following details:  Environment Name: UAT Environment Location: /apps/tibco/BW60lt  Is this the TIBCO Home environment you want to use? [Yes]  Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</pre>
<p>Enter</p>	<pre>TIBCO Universal Installer - Profile Selection -----  Choose one of the following installation options.  1. Typical Installation - Installs the default set of product features. 2. Custom Installation - Select the product features to install.  Select an option by entering its number from the list above. [1]  Selected Installation Profile(s) ----- Typical  Product Feature Selections ----- TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 2 [X] Design Hotfix 2 [X] Runtime Hotfix 2  Do you wish to proceed with the above feature selections?  Enter 'Yes' to proceed or 'No' to make changes. [Yes]  Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</pre>
<p>Enter</p>	<pre>TIBCO Universal Installer - Pre Install Summary -----  Pre-Install Summary  The following products will be installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 2 ----- Design Hotfix 2 Runtime Hotfix 2  Installation Environment Details:  Environment Name: UAT  Environment Location: /apps/tibco/BW60lt Required Disk Space = 176 MB Available Disk Space = 44.8 GB  Enter '1' to continue, '2' to go back to the previous panel, or '3' cancel: [1]</pre>

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Finish	<pre> TIBCO Universal Installer - Post Install Summary -----  Post-Install Summary  The following products and features have been installed: ----- TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 2 Design Hotfix 2 Runtime Hotfix 2  Installation Environment Details:  Environment Name: UAR  Environment Location: /apps/tibco/BW601t  For more detailed information, the installation logs file are located at: /home/tibuv6t/.TIBCO/install_2016-03-09.104515  Press 'Enter' to exit the installer. [ ] </pre>
--------	--

### 5.3.4. Installation: Business Works 6.2.2 HOTFIX 3

Execute: TIBCOUniversalInstaller-x86-64.exe	<pre> Initializing Wizard..... Launching InstallShield Wizard.....  TIBCO Universal Installer - Welcome -----  Welcome to the TIBCO Universal Installer  The installation wizard will install the following products on your system.  TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 3  TIBCO Software Inc. http://www.tibco.com  Enter '1' to continue or '3' to cancel: [1] [ ] </pre>
Choose the existing environment and Enter	<pre> Choose the action you wish to perform.  1. Create a new TIBCO installation environment. 2. Choose an existing environment.  Select an option by entering its number from the list above. [1] [ ]  Only one installation environment is available.  The available installation environment has the following details:  Environment Name: PRD Environment Location: /apps/tibco/BW601p  Is this the TIBCO Home environment you want to use? [Yes] [ ] </pre>

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Finish	<pre> TIBCO Universal Installer - Post Install Summary -----  Post-Install Summary  The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 3 -----  Design Hotfix 3 Runtime Hotfix 3  Installation Environment Details: </pre>
--------	--

### 5.3.5. Installation: Business Works 6.2.2 HOTFIX 4

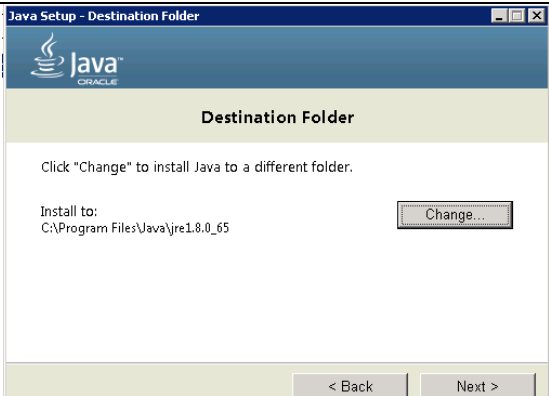
Execute: TIBCOUniversalInstaller-x86-64.exe	<pre> Initializing Wizard..... Launching InstallShield Wizard.....  TIBCO Universal Installer - Welcome -----  Welcome to the TIBCO Universal Installer  The installation wizard will install the following products on your system.  TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 4  TIBCO Software Inc. http://www.tibco.com  Enter '1' to continue or '3' to cancel: [1]  TIBCO Universal Installer - TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 4 License Agreement </pre>
Choose the existing environment and Enter	<pre> Choose one of the following installation options.  1. Typical Installation - Installs the default set of product features 2. Custom Installation - Select the product features to install.  Select an option by entering its number from the list above. [1]  Selected Installation Profile(s) ----- Typical  Product Feature Selections ----- TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 4 [X] Design Hotfix 4 [X] Runtime Hotfix 4  Do you wish to proceed with the above feature selections?  Enter 'Yes' to proceed or 'No' to make changes. [Yes] [ ] </pre>

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Finish	<p>TIBCO Universal Installer - Post Install Summary</p> <hr/> <p>Post-Install Summary</p> <p>The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 6.2.2 Hotfix 4</p> <hr/> <p>Design Hotfix 4 Runtime Hotfix 4</p>
Verification	<pre> -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwadmin -rw-r--r--. 1 tibwv6p tibcoadm 1252 May 11 04:17 bwadmin-logback.xml -rw-r--r--. 1 tibwv6p tibcoadm 1868 May 11 04:17 bwadmin.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwagent -rw-r--r--. 1 tibwv6p tibcoadm 1252 May 11 04:17 bwagent-logback.xml -rw-r--r--. 1 tibwv6p tibcoadm 2450 May 11 04:17 bwagent.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwant -rw-r--r--. 1 tibwv6p tibcoadm 496 Jul 13 2015 bwant.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwappnode -rw-r--r--. 1 tibwv6p tibcoadm 1618 May 11 04:17 bwappnode.tra -rw-r--r--. 1 tibwv6p tibcoadm 2074 May 11 04:17 bwcommon.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwdesign -rw-r--r--. 1 tibwv6p tibcoadm 2096 May 11 04:17 bwdesign.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwinstall -rw-r--r--. 1 tibwv6p tibcoadm 515 Jul 13 2015 bwinstall.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwmigrator -rw-r--r--. 1 tibwv6p tibcoadm 1371 Jul 13 2015 bwmigrator.build.xml -rw-r--r--. 1 tibwv6p tibcoadm 592 Jul 13 2015 bwmigrator_log4j.properties -rw-r--r--. 1 tibwv6p tibcoadm 2085 May 11 04:17 bwmigrator.tra -rwxr--r--. 1 tibwv6p tibcoadm 159541 May 11 04:17 bwuninstall -rw-r--r--. 1 tibwv6p tibcoadm 517 Jul 13 2015 bwuninstall.tra tibwv6p@xsp150b5c6p.pharma.aventis.com:~\$ ./bwadmin TIBCO ActiveMatrix BusinessWorks version 6.2.2, hotfix 4, build V35, 2016-01-06 BusinessWorks Administration Console  Hit '&lt;tab&gt;' for a list of available commands and 'help command' for help on a specific command. Enter 'exit' or Ctrl-D to exit the shell. </pre>

## 5.4. Installation: TIBCO TEA on Windows

### 5.4.1. Installation JAVA

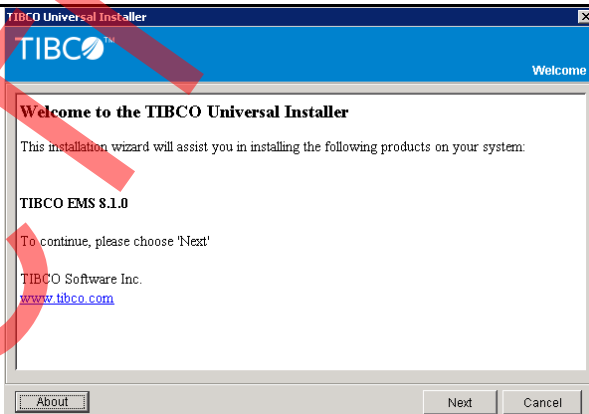
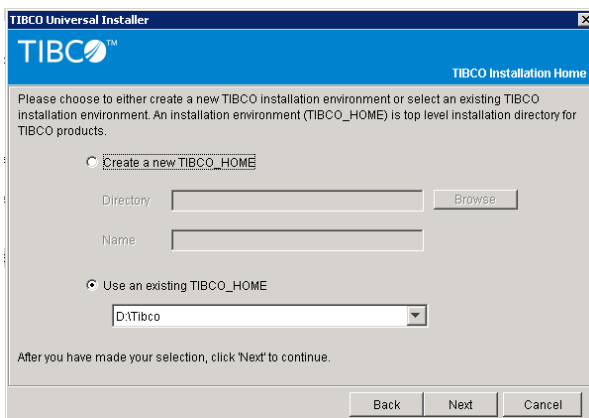
Installation jre1.8.0_65	
--------------------------	--

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	16/36

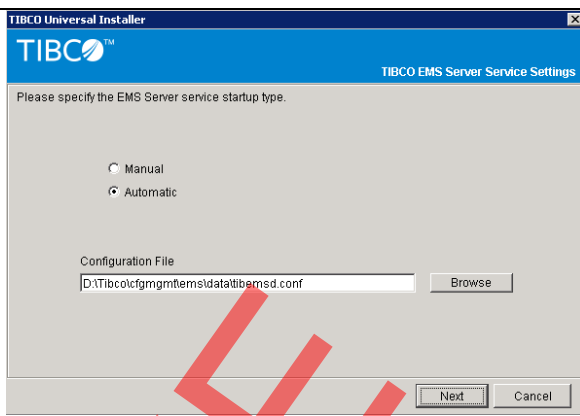
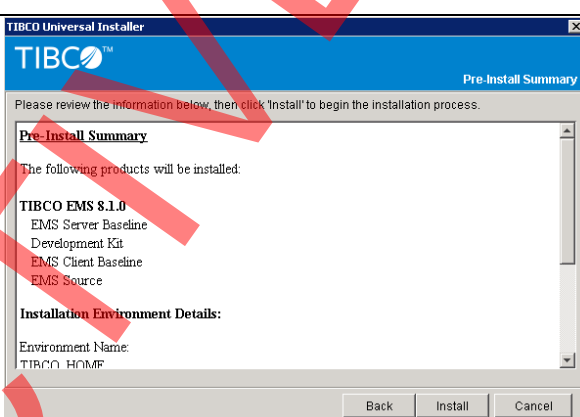
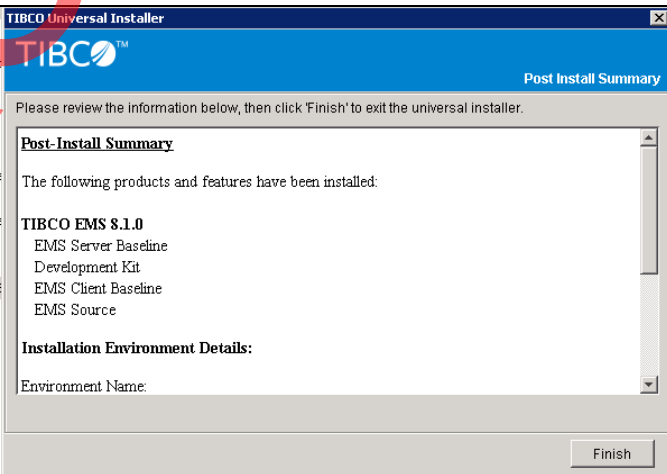


Finish	
--------	--


#### 5.4.2. Installation TIBCO EMS 8.1.0

Execute the installer	
TIBCO folder: d:/	

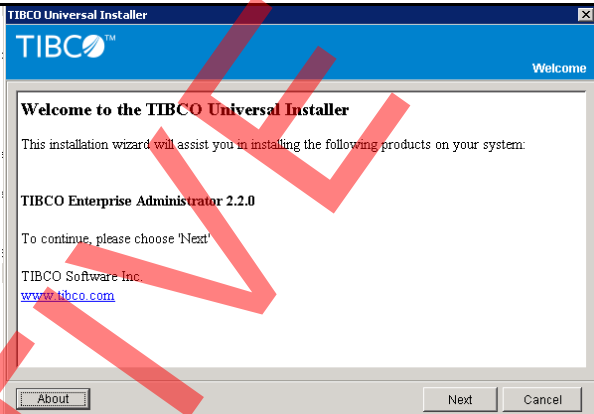
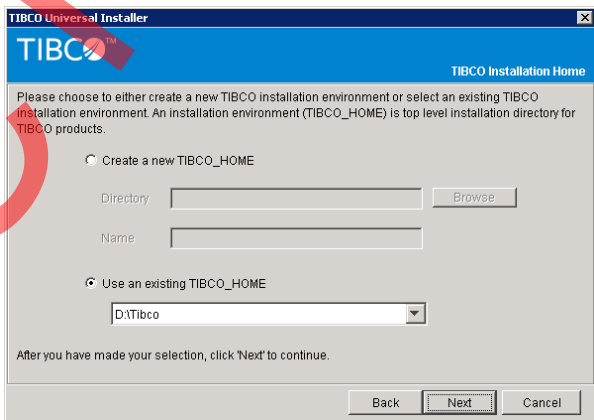
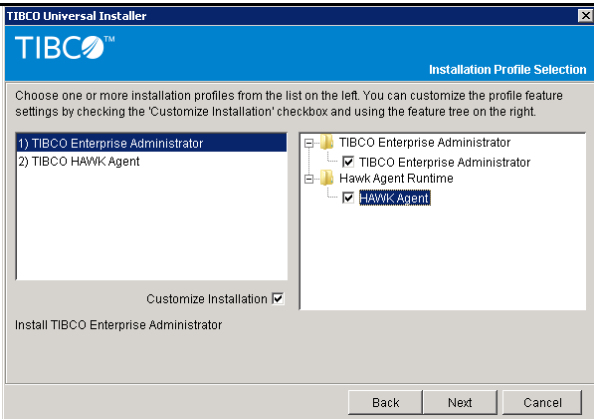
Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	17/36

automatic	
install	
Finish	
Create the port number "7222"	<pre> D:\tibco\ems\8.1\bin&gt;emsntsr /i tibemsd d:\tibco\ems\8.1\bin d:\tibco\ems\8.1\bin "-config D:\tibco\ems\8.1\bin\tibemsd_7222.conf" 7222 Created service: Service: d:\tibco\ems\8.1\bin\emsntsr.exe "tibemsd_7222" Executable Path: d:\tibco\ems\8.1\bin\tibemsd.exe Arguments: config D:\tibco\ems\8.1\bin\tibemsd_7222.conf D:\tibco\ems\8.1\bin&gt; cd d:\tibco\ems\8.1\bin emsntsr /i tibemsd d:\tibco\ems\8.1\bin d:\tibco\ems\8.1\bin "-config D:\tibco\ems\8.1\bin\tibemsd_7222.conf" 7222 </pre>

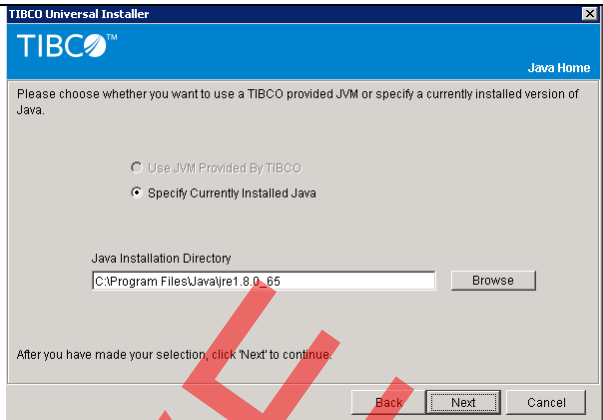
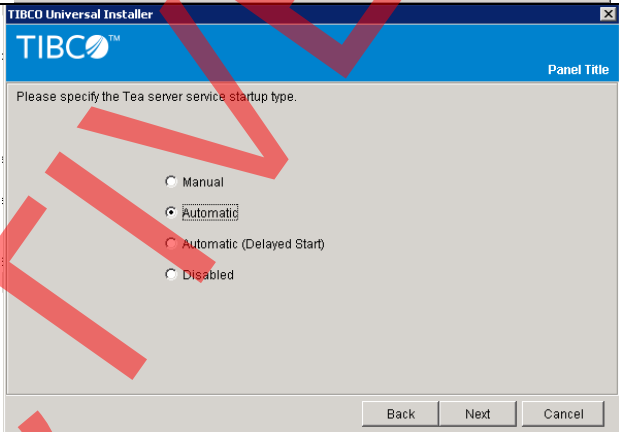
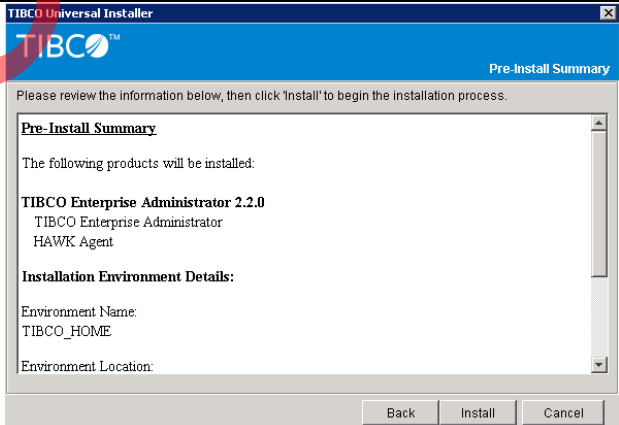
Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	18/36

Start the EMS service	
-----------------------	--

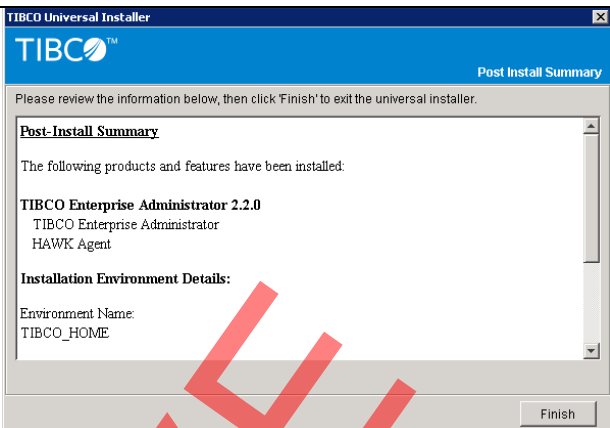
### 5.4.3. Installation TIBCO TEA 2.2.0

Execute Universal Installer	
TIBCO folder: d:/tibco and Next	
next	

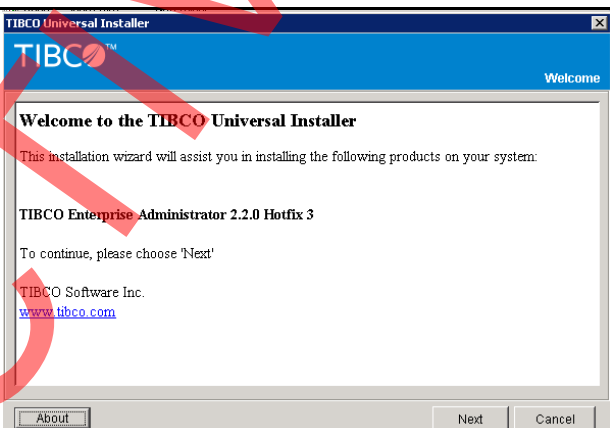
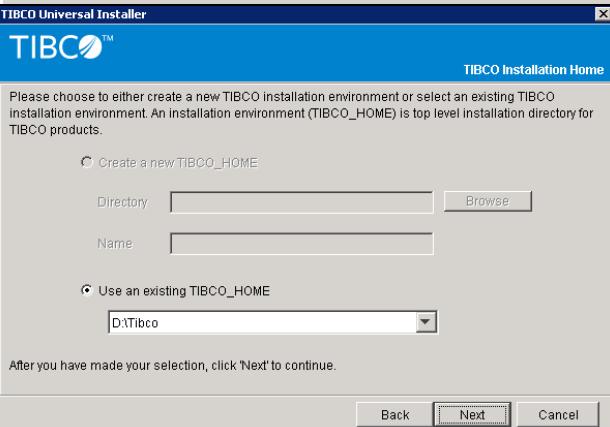
Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	19/36

JAVA location	
"Automatic" and next	
Install	

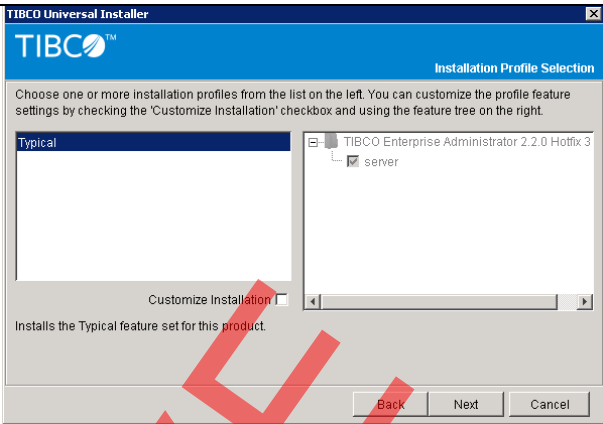
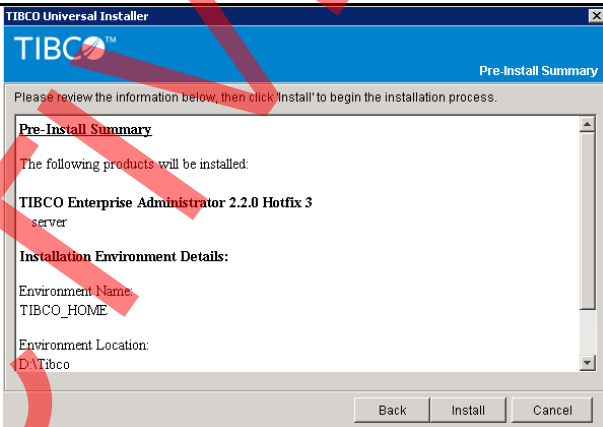
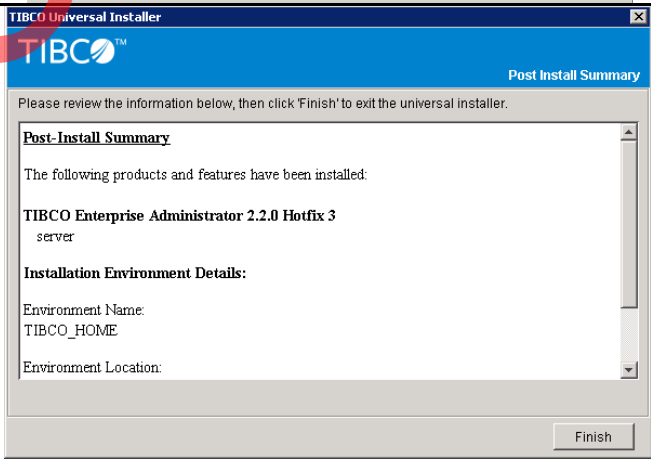
Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	20/36

Finish	
--------	--

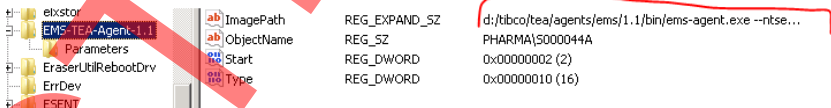

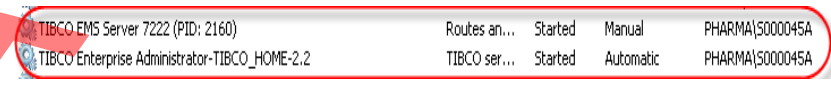
#### 5.4.4. Installation TIBCO TEA HOTFIX3

Execute Universal Installer	
TIBCO folder: d:/tibco and next	

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	21/36

next	
Install	
Finish	

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	22/36

<p>Create <u>EMS TEA Agent</u> : configuration</p>	<p>Modify the TEA config file in D:\tibco\tea\agents\ems\1.1\bin\ems-agent.tra</p> <pre># For running TEA server as a windows service ntservice.name=EMS-TEA-Agent-%EMS_TEA_AGENT_VERSION% ntservice.displayname=EMS TEA Agent - %EMS_TEA_AGENT_VERSION% ntservice.starttype=automatic ntservice.interactive=false ntservice.binary.path.absolute=%TEA_TIBCO_HOME%\tea\agents\ems\%EMS_TEA_AGENT_VERSION%\bin\ems-agent.exe ntservice.binary.path.absolute=D:\tibco\tea\agents\ems\1.1\bin\ems-agent.exe</pre> <p>go to D:\tibco\tea\agents\ems\1.1\bin then give the command <b>ems-agent.exe -update</b></p> <p>Verify in the registry</p> 
<p>Start TEA Services</p>	<p>And check the EMS services created :</p>  <p>And the others services</p> 

## 5.5. Post installation

### 5.5.1. BWAGENT Configuration

- bwagent\_db.json  
→ encryption the pwd for ems and oracle

```
Upload an archive into a Domain.
bwadmin[admin]>
bwadmin[admin]> obfuscate Yd3mqlr
Obfuscated password: #!Vx3l5oiYCR6d1x1EtDLyUVWFDXwiPyzaV0zX4mud0Hk=
bwadmin[admin]> obfuscate O4re_3zt
Obfuscated password: !+XAyvM4uREAYAshunGAdCP4u7RHtpBctnLYWgDt1agS=
bwadmin[admin]>
```

→ update bwagent\_db.json

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4- IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	23/36

```
{
  adminmode: enterprise,
  adminpersistencetype: dbems,
  httpport: 8079,
  httphost: 0.0.0.0,
  httpaccesslogconfig: bwagent-access.xml,
  teaagenthost: 0.0.0.0,
  teaagentport: 9091,
  bwagentnetworkname: NATIBODST,
  membername: "na6-bw02lt.pharma.aventis.com",
  db: true,
  dbtype: oracle,
  dbdriver: "oracle.jdbc.driver.OracleDriver",
  dbconnectionurl: "jdbc:oracle:thin:@xsph10a039b.pharma.aventis.com:1526:O1T11512",
  dbuser: NATIBODST,
  dbpassword: "#lk5nqw NaP/xr1j3TqRZpSHHN4QG4drx+qZdHH8yKy3s=",
  emsserverurl: "tcp://tibconatib601uat1.pharma.aventis.com:7222,tcp://tcp://tibconatib601uat2.pharma.aventis.com:7222",
  emsusername: admin,
  emspassord: "#leCfIZ/XHuk1EOeZwAK1qp1cQl0wgonWDo0gQC2NQzDU=",
  tea: true,
  teaserverurl: "http://%HOSTADDRESS%:8777/tea",
  governanceenabled: "false",
  governancejmsserverurl: "tcp://localhost:7222",
  governancejmsusername: admin,
  governancejmsuserpassword: "",
  governancejmsstoretype: JKS,
  governancejmsstorelocation: "",
  governancejmsstorepassword: "",
  governancejmsreconnectcount: 120,
  governancejmsreconnecttimeout: 500,
  governancejmsreconnectdelay: 500,
  governancejmsqueuepreceivername: "governance.de.bw.default"
}
```

- update bwagent.ini (ANNE XE)
- Copy jdbc driver "ojdbc6.jar" in /apps/tibco/BW601p/bw/6.2/system/lib/

```
[tibwv6t@xsn150b951b bin]$ vi ../config/bwagent_db.json
[tibwv6t@xsn150b951b bin]$ ./bwadmin config -cf /apps/tibco/BW601t/bw/6.2/config/bwagent_db.json agent
TIBCO ActiveMatrix BusinessWorks version 6.2.2, hotfix 2, build V26, 2015-8-27
18:12:27.224 WARN [main] com.tibco.thor.frwk - TIBCO-BW-ADMIN-CLI-400010: Make sure to change the bw.agent.technology.dbems.db.connectionURL setting in the
/apps/tibco/BW601t/bw/6.2/config/bwagent.ini file. The newer version of the product does not work with the data of an installation from a previous version.
Configuration updated in bwagent.ini
[tibwv6t@xsn150b951b bin]$
```

### 5.5.2. Starting TEA Agents

```
tibwv6t@xsn150b951b.pharma.aventis.com:# nohup bwagent >>/apps/tibco/BW601t/bw/6.2/logs/bwagent.log&
[1] 26951
```

```
tibwv6t@xsn150b952k.pharma.aventis.com:# nohup bwagent >> /apps/tibco/BW601t/bw/6.2/logs/bwagent.log&
[1] 15364
```

### 5.5.3. Registering Tea Agents to Domain

- Update bwadmin.tra
  - o Add "java.extended.properties=-Djava.security.egd=file:///dev/urandom"

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4- IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	24/36



```

bwadmin[admin]> registerteagent http://xsnw50b949k:8777/tea
TIBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw01lt.pharma.aventis.com] with TEA Server.

bwadmin[admin]> registerteagent http://xsnw50b950w:8777/tea/
TIBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw01lt.pharma.aventis.com] with TEA Server.

bwadmin[admin]>

```

```

bwadmin[admin]> enableautoregistration
TIBCO-BW-ADMIN-CLI-300010: Successfully enabled auto registration with TEA server

bwadmin[admin]> show agents

TEA Server URL      : <unknown>
Registered TEA Agent : <none>
Auto Registration   : on

Name                State      Machine                                Version  ConfigState  MgmtPort  PID
-----
na6-bw02lp.pharma.aventis.com Running  xsp150b565c.pharma.aventis.com  6.2.2    InSync       0.0.0.0:8079 40234

bwadmin[admin]> registerteagent http://tibcoatib601prd2.pharma.aventis.com:8777/tea
TIBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw02lp.pharma.aventis.com] with TEA Server.

bwadmin[admin]> registerteagent http://tibcoatib601prd1.pharma.aventis.com:8777/tea
TIBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw02lp.pharma.aventis.com] with TEA Server.

bwadmin[admin]> show agents

TEA Server URL      : http://tibcoatib601prd1.pharma.aventis.com:8777/tea
Registered TEA Agent : na6-bw02lp.pharma.aventis.com
Auto Registration   : on

Name                State      Machine                                Version  ConfigState  MgmtPort  PID
-----
na6-bw02lp.pharma.aventis.com Running  xsp150b565c.pharma.aventis.com  6.2.2    InSync       0.0.0.0:8079 40234

bwadmin[admin]>

```

#### 5.5.4. Configuration TEA domain

- Start TEA admin
- Modify pwd (default admin/admin)
- Create and configure the new domain from BW server
- bwadmin>create domain NATIB11-PRD

```

Hit '<tab>' for a list of available commands
and 'help command ' for help on a specific command.
Enter 'exit' or Ctrl-D to exit the shell.

bwadmin[admin]> create domain NATIB11-PRD

```

```

Hit '<tab>' for a list of available commands
and 'help command ' for help on a specific command.
Enter 'exit' or Ctrl-D to exit the shell.

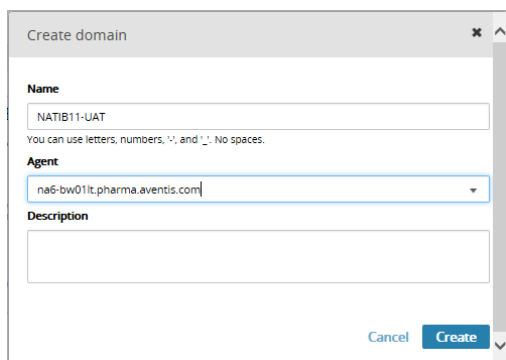
bwadmin[admin]> create domain NATIB11-PRD
TIBCO-BW-ADMIN-CLI-300100: Domain [NATIB11-PRD] created.

bwadmin[admin]>

```

Also we create Domain using TEA Admin :

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	25/36



Create domain

Name  
NATIB11-UAT  
You can use letters, numbers, '-', and '\_'. No spaces.

Agent  
na6-bw01t.pharma.aventis.com

Description

Cancel Create

→ create AppSpace from BW server :

```

TIBCO-BW-ADMIN-CLI-300100: Domain [NATIB11-PRD] created.

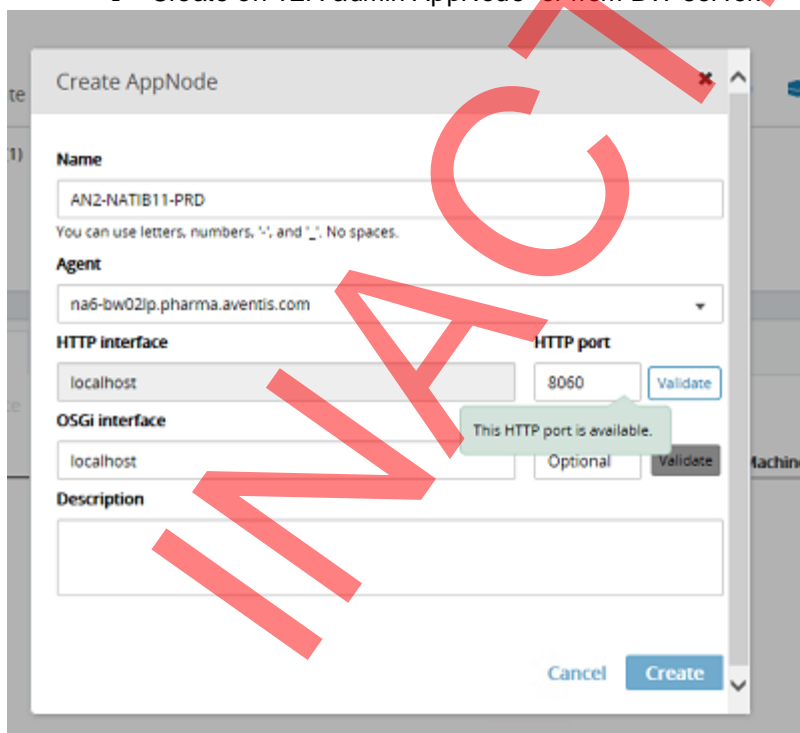
vadmin[admin]> cd NATIB11-PRD

vadmin[admin@NATIB11-PRD]> create appspace AS-NATIB11-PRD
TIBCO-BW-ADMIN-CLI-300200: AppSpace [AS-NATIB11-PRD] in Domain [NATIB11-PRD] created.

vadmin[admin@NATIB11-PRD]>

```

→ Create on TEA admin AppNode or from BW server:



Create AppNode

Name  
AN2-NATIB11-PRD  
You can use letters, numbers, '-', and '\_'. No spaces.

Agent  
na6-bw02lp.pharma.aventis.com

HTTP interface  
localhost

HTTP port  
8060  
Validate

OSGi interface  
localhost  
Optional  
Validate

Description

Cancel Create

- On BW server :

create -d NATIB11-PRD -a AS-NATIB11-PRD -httpPort 8060 appnode AN2-NATIB11-PRD

```

OSGi console interface and port configuration of an AppNode. Applicable when entity is AppNode. Example: localhost:1112 or 1112

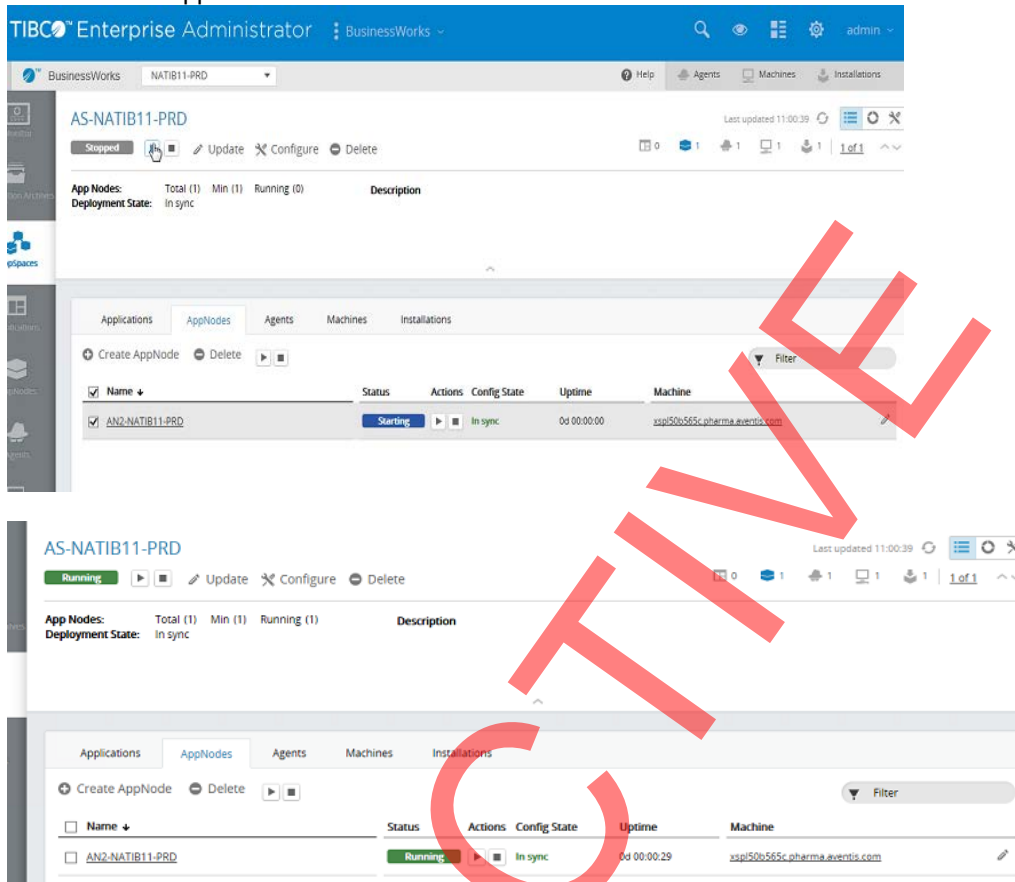
vadmin[admin@NATIB11-PRD/AS-NATIB11-PRD]> create appnode AN2-NATIB11-PRD -hp http://na6-bw02lp.pharma.aventis.com:8060
Error executing command *:create: too many arguments specified
vadmin[admin@NATIB11-PRD/AS-NATIB11-PRD]> create -d NATIB11-PRD -a AS-NATIB11-PRD -httpPort 8060 appnode AN2-NATIB11-PRD
TIBCO-BW-ADMIN-CLI-300300: AppNode [AN2-NATIB11-PRD] in AppSpace [AS-NATIB11-PRD], Domain [NATIB11-PRD] created.

vadmin[admin@NATIB11-PRD/AS-NATIB11-PRD]>

```

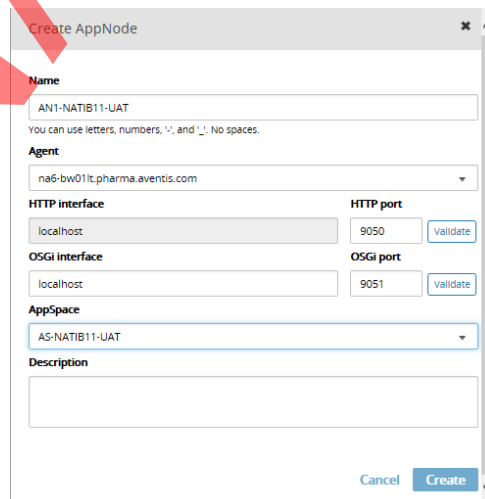
Ref – Version	Title	Page
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## - Start AppNode



The screenshot shows the TIBCO Enterprise Administrator interface. The top bar indicates 'BusinessWorks' and 'NATIB11-PRD'. The main panel shows the 'AS-NATIB11-PRD' AppNode. The status is initially 'Stopped'. Below the status bar, there are tabs for 'Applications', 'AppNodes', 'Agents', 'Machines', and 'Installations'. The 'AppNodes' tab is selected, showing a table with columns: Name, Status, Actions, Config State, Uptime, and Machine. The table contains one entry: 'AN2-NATIB11-PRD' with status 'Starting'. A large red 'INVALID' watermark is overlaid on the image.

## Create AppNode2



The screenshot shows the 'Create AppNode' dialog box. The fields are as follows:

- Name:** AN1-NATIB11-UAT
- Agent:** na6-bw01t.pharma.aventis.com
- HTTP interface:** localhost
- HTTP port:** 9050
- OSGi interface:** localhost
- OSGi port:** 9051
- AppSpace:** AS-NATIB11-UAT
- Description:** (empty field)

Buttons: Cancel, Create

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	27/36

**Create AppNode**

**Name**  
AN2-NATIB11-UAT  
You can use letters, numbers, '-', and '\_'. No spaces.

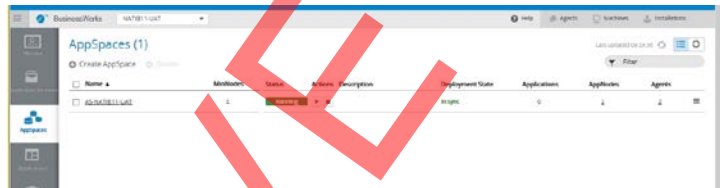
**Agent**  
na6-bw02lt.pharma.aventis.com

**HTTP interface**  
localhost HTTP port 9050

**OSGi interface**  
localhost OSGi port 9051

**AppSpace**  
AS-NATIB11-UAT

**Description**



## → EMS TEA Agent

### Register Server

#### Server Name

TEAEMSServer

#### Primary URL

tcp://tibconatib601prd1.pharma.aventis.com:7222

☒ Fault Tolerant

#### Secondary URL

tcp://tibconatib601prd2.pharma.aventis.com:7222

#### Username

admin

#### Password

\*\*\*\*\*

Ref – Version	Title	Page
<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	28/36

**Register Server**

**Server Name**  
TEAEMSSrvr

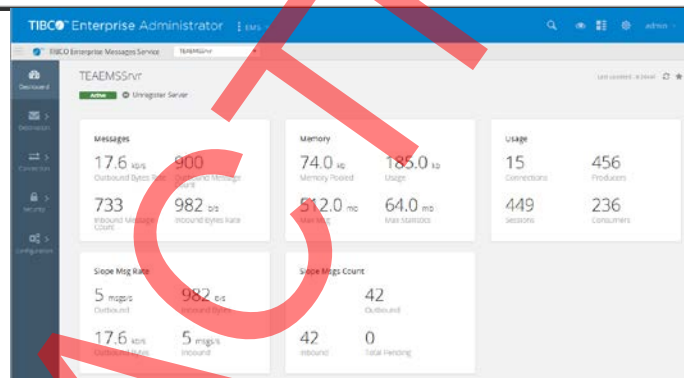
**Primary URL**  
tcp://tibconatib601uat1.pharma.aventis.com:7222

☒ **Fault Tolerant**

**Secondary URL**  
tcp://tibconatib601uat2.pharma.aventis.com:7222

**Username**  
admin

**Password**  
.....



**Register Server**

**Server Name**  
ODS EMS Server

**Primary URL**  
tcp://na-ems01p.pharma.aventis.com:9304

☒ **Fault Tolerant**

**Secondary URL**  
tcp://na-ems02p.pharma.aventis.com:9304

**Username**  
admin

**Password**  
|

Ref – Version	Title	Page
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Register Server

Server Name  
ODSEMSApp

Primary URL  
tcp://na-ems01t.pharma.aventis.com:8304

☒ Fault Tolerant

Secondary URL  
tcp://na-ems02t.pharma.aventis.com:8304

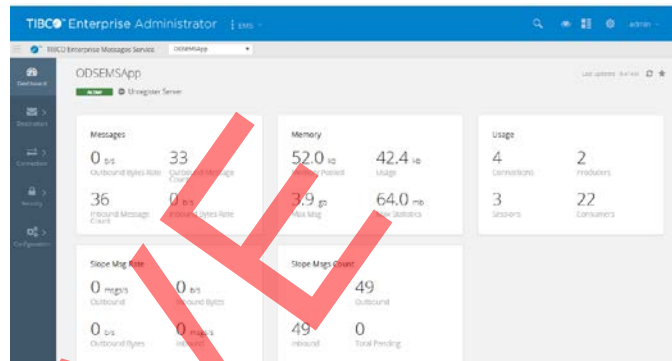
Username  
admin

Password  
\*\*\*\*\*

☐ SSL Settings

☐ Add to groups

Cancel Register Server



### 5.5.5. LDAP Configuration

#### 5.5.5.1. VDS Certificates

On Windows TEA servers import the VDS certificates

```

C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>
C:\Program Files\Java\jdk1.8.0_65\bin>keytool -import -alias SanofiTech_CA -keystore "C:\Program Files\Java\jdk1.8.0_65\jre\lib\security\cacerts" -trustcacert
es\sanofi-aventis_Technical_CA.cer
Enter keystore password:
  
```

#### 5.5.5.2. Realm configuration

Using AD groups with PAM accounts

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<Doc Reference> – <x.y>	P4-IP-TIBCO-BW6.x/TEA2.x- APAC-AMER-EMEA-Installation procedure	30/36

## Edit Realm TIBCO\_ITS



## Step 1 of 3: General Information

Name	TIBCO_ITS
Description	ITS Team
Server URL	ldap://GTASADS02.pharma.av
Search Timeout	9000
Bind User DN	FRGMY066@pharma.aventis.
Bind Password	*****
<div>Cancel Back Next Finish</div>	

ldap://GTASADS02.pharma.aventis.com:389

## Edit Realm ODS\_D\_UAT



## Step 2 of 3: Group Information

Group ID Attribute	cn
Group User Attribute	Member
Sub-Group Attribute	member
Group Search Base DN	OU=Groups,OU=Users,OU=FF
Group Search Expression	(&(cn={0})(cn=TIBCO_ODS_D
<div>Cancel Back Next Finish</div>	

**Group Search base DN :** OU=Groups,OU=Users,OU=FR Massy,DC=pharma,DC=aventis,DC=com**Group Search Expression :** (&(cn={0})(objectclass=group)(cn=TIBCO\_ITS\_A))

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## Edit Realm ODS\_D\_UAT



## Step 3 of 3: User Information

User ID Attribute	sAMAccountName
User Search Base DN	OU=Admin Accounts,OU=Accc
User Search Base Expression	(&(sAMAccountName={0}))(obj
User Password Attribute	User Password Attribute

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**User ID Attribute :** sAMAccountName

**User Search base DN :** OU=Admin Accounts,OU=Accounts,OU=Users,OU=ZZ  
PAM,DC=pharma,DC=aventis,DC=com

**User Search Base Expression =**

(&(sAMAccountName={0})(objectclass=user)(memberof=cn=TIBCO\_ITS\_A,OU=Groups,OU=Users,OU=FR  
Massy,DC=pharma,DC=aventis,DC=com))

**ODS\_D\_UAT**

Test Connection Edit Realm Configuration

ServerUrl: ldap://GTASAD502.pharma.aventis.com:389

SearchTimeout: 9000

BindUserDN: FRGMY066@pharma.aventis.com

GroupIDAttribute: cn

GroupUsersAttribute: Member

SubGroupsAttribute: member

GroupSearchBaseDN: OU=Groups,OU=Users,OU=FR Massy,DC=pharma,DC=aventis,DC=com

GroupSearchExpression: (&(cn={0})(cn=TIBCO\_ODS\_D\_UAT))

UserIDAttribute: sAMAccountName

UserSearchBaseDN: OU=Admin Accounts,OU=Accounts,OU=Users,OU=ZZ  
PAM,DC=pharma,DC=aventis,DC=com

UserSearchExpression: (&(sAMAccountName={0})(objectclass=user)  
(memberof=cn=TIBCO\_ODS\_D\_UAT,OU=Groups,OU=Users,OU=FR  
Massy,DC=pharma,DC=aventis,DC=com))

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## 6. ANNEXE

### - bwagent.ini

```
#-----
# Section: BW Agent general configuraton.
#-----
# Admin mode. BW Administration tools can work in two modes, enterprise mode or
# local mode. In enterprise mode it works with the agents across machines.
# In local mode it works only with local machine and assumes no data store
# and transport and agents are available. The actions performed in local mode
# are not visible to the agents when ever they are started or even
# the admin tool when it is started in the enterprise mode
bw.admin.mode=enterprise

# Network (group) name
bw.agent.networkName=NATIBODST

# This is the name the bw agent is identified with, and it must be unique in a bwadmin
# cluster. bwagent fails to start if it is not unique
bw.agent.memberName=na6-bw 02lt.pharma.aventis.com

#-----
# Section: Logging configuration.
#-----
# logback Configuration file to be used by this agent
#logback.configurationFile=bw agent-logback.xml

#-----
# Section: Web server HTTP and HTTPS configuration.
#-----
# HTTP port
bw.agent.http.port=8079

# HTTP interface (default=localhost)
bw.agent.http.host=0.0.0.0

# HTTP Request Access Log Configuration file
bw.agent.http.access.log.config=bwagent-access.xml

# Authentication mechanism used by the REST API, BASIC (default) or DIGEST
#bw.agent.bw.auth=DIGEST

# secure port
#bw.agent.https.port=8886

# truststore
#bw.agent.https.truststorepath=

# truststore password
#bw.agent.https.truststorepassword=

# keystore
#bw.agent.https.keystorepath=

# keystore password
#bw.agent.https.keystorepassword=

#-----
# Section: Configuration for AppNode to agent communication.
#-----
# User used by the AppNodes to communicate with the bwagent
#bw.agent.appnode.user=bwappnode
```

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```

# Password for user used by AppNodes to communicate with the bwagent
# If not set, the Obfuscated password is read from the configured realm file,
# e.g. $BW_HOME/config/realm.properties
bw.agent.appnode.password=OBF:1sho1wgi1u9d1x1d1xfj1x191ua51wfg1shu

# Time interval in seconds when the AppNode reports its status to the bwagent
#bw.agent.appnode.status.notify.timeout=60

#-----
# Section: TEA Agent configuration.
#-----
bw.agent.tea.agent.host=0.0.0.0
bw.agent.tea.agent.port=9091
#bw.agent.tea.agent.shutdown.port=5678
#bw.agent.tea.agent.context.path=/bwta

# Optionally configure a TEA server URL to be used in case there is
# currently none configured in the datastore
bw.agent.tea.server.url=http://%HOSTADDRESS%:8777/tea

#-----
# Section: Technology Type Configuration. Supported types are ActiveSpaces or
# DBEMS. ActiveSpaces type uses ActiveSpaces as data store, transport and
# clustering technology.
# DBEMS type uses a Database data store, EMS as the transport and
# EMS Qin as clustering technology.
#-----
bw.agent.technology.type=dbems

# Timeout for requests sent to BW agents to find the status of
# AppNodes, Applications, Agents in milliseconds
#bw.agent.technology.remote.status.requestTimeout=3000

# Timeout for requests sent to other BW agents.
# Value is in milliseconds (default: 60s)
#bw.agent.technology.requestTimeout=60000

#-----
# Section: DBEMS technology type.
#-----
# Database provider. Supported options are postgresql, mysql and oracle database 12c
bw.agent.technology.dbems.db.provider=oracle

# DB driver
# Example: dbDriver=org.postgresql.Driver
# Example: dbDriver=com.mysql.jdbc.Driver
# Example: dbDriver=oracle.jdbc.driver.OracleDriver
bw.agent.technology.dbems.db.driver=oracle.jdbc.driver.OracleDriver

# DB connection URL
# Example: dbConnectionURL=jdbc:postgresql://db:5432/bwadmindb
# Example: dbConnectionURL=jdbc:mysql://db:3306/bwadmindb
# Example: dbConnectionURL=jdbc:oracle:thin:@db:1521:bwadminb
bw.agent.technology.dbems.db.connectionURL=jdbc:oracle:thin:@xsph10a039b.pharma.aventis.com:1526:O1T11512

# DB user
# Example: dbUserName=bw user
bw.agent.technology.dbems.db.userName=NATIBODST

# DB password
# Example: dbPassword=bw user
bw.agent.technology.dbems.db.password=#lkk5nqw NaP/xr1j3TqRZpSHHN4QG4drx+qZdHH8yKy3s=

# EMS server URL
# Example: emsServerUrl=tcp://ems:7222
bw.agent.technology.dbems.ems.serverUrl=tcp://tibconatib601uat1.pharma.aventis.com:7222,tcp://tibconatib601uat2.pharma.aventis.com:7222

```

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```

# EMS user
# Example: emsUserName=admin
bw.agent.technology.dbems.ems.userName=admin

# EMS user password
# Example: emsPassword=
bw.agent.technology.dbems.ems.password=#!eCfIZ/XHuk1EOeZwAK1qp1cQl0wgonWDo0gQC2NQzDU=

# EMS member queue
# Example: requestQueueName=bw 6.admin.operations.queue.na6-bw02lt.pharma.aventis.com
bw.agent.technology.dbems.ems.requestQueueName=bw 6.admin.operations.queue.na6-bw02lt.pharma.aventis.com
# -----
# Section: Governance & Policy Director Configuration. The properties in this
# section are applicable to Governance Lifecycle Event Listener and it is used
# to communicate with the TIBCO Policy Director Administrator.
# -----
# Enable or disable the Governance Lifecycle Event Listener. This property is
# optional and it specifies whether the Governance Lifecycle Event Listener
# should be enabled or disabled in the BW Agent. The supported values are: true
# or false. The default value is 'false'.
bw.governance.enabled=false

# Policy Director Administrator JMS URL. This property is optional and it is
# used to specify the JMS server URL used to communicate with the
# Policy Director Administrator. If this property is not set, then the
# Lifecycle Event Listener will not attempt to connect to the JMS server. The
# URL is expected to start with 'tcp://' or 'ssl://' and the failover URLs can
# be specified as a ',' or '+' separated list.
bw.governance.jms.server.url=tcp://localhost:7222

# Policy Director Administrator JMS User Name. This property is required if
# the Policy Director Administrator JMS URL is specified.
bw.governance.jms.server.username=admin

# Policy Director Administrator JMS User Password. This property is required
# if the Policy Director Administrator JMS URL is specified.
bw.governance.jms.server.password=

# Policy Director Administrator JMS SSL connection trust store type. This
# property is required if the JMS server protocol is ssl. The supported values
# are 'JKS' and 'JCEKS'. The default value is 'JKS'
bw.governance.jms.ssl.trust.store.type=JKS

# Policy Director Administrator JMS SSL connection trust store location. This
# property is required if the JMS server protocol is ssl.
bw.governance.jms.ssl.trust.store.location=

# Policy Director Administrator JMS SSL connection trust store password. This
# property is required if the JMS server protocol is ssl. The password may
# be clear text or supplied as an obfuscated string.
bw.governance.jms.ssl.trust.store.password=

# Policy Director Administrator JMS Connection attempt count. This property is
# required if the Policy Director Administrator JMS URL is specified and it
# specifies the number of JMS connection attempts the Lifecycle Event Listener
# will make. The default value is '120'.
bw.governance.jms.reconnect.attempt.count=120

# Policy Director Administrator JMS Connection attempt timeout. This property
# is required if the Policy Director Administrator JMS URL is specified and
# it specifies the timeout between the attempt to reestablish connection to
# the JMS server. The default value is '500'.
bw.governance.jms.reconnect.attempt.timeout=500

# Policy Director Administrator JMS Connection attempt delay. This property
# is required if the Policy Director Administrator JMS URL is specified and it
# specifies the delay in milliseconds between attempts to establish reestablish
# connection the JMS server. The default value is '500'.
bw.governance.jms.reconnect.attempt.delay=500

```

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