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Title
Installation procedure TIBCO BW 5.14

Reason for Revision

	Approval Name	**Date** **(Universal Time)**	**Reason for Signature**
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Version History

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V1.0	March 2020	For Approval

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1   INTRODUCTION

This document covers the TIBCO Business works. It describes in detail the steps needed to install the TIBCO components, this document can be used as a reference for installing some or all of Business works 5.14 platform for any environment for any project.

Description	Vendor	Model/Type	Identifier/Version/Patch	Comments
TIBCO BW	TIBCO	TIBCO FOR Linux	• 5.14	• HF09
TIBCO TRA	TIBCO	TIBCO FOR Linux/Windows	• TRA 5.11	• HF02
TIBCO EMS	TIBCO	TIBCO FOR Linux/Windows	• 8.4	• Client /server
RV	TIBCO	TIBCO FOR Linux/Windows	• 8.4.4	•
TIBCO Admin	TIBCO	TIBCO FOR Windows/Linux	• 5.11	• HF02

1.1   Related Documents

Doc ID	Title
NA	

2 INSTALLATION ACTIVITIES

2.1 Configuration

- **Create group and user**

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

\# TIBCO BW user: tib<region><user_id> = tib"eu/na/pa"xx<env code> : (UID=xxx,GID=800)

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

Example: tibeu04p or tibna08p

- **Create environment (iBus):**

\#Location directory

{TIBCO_HOME}=/apps/tibco/<*TIBCO domain*>

Example: apps/tibco/EUTIB04-UAT

TIBCO_PACKAGE=/packages (NFS mounted from xsph10a782s)

TIBCO installation directory structure:

Directory structure	Descriptions
$HOME	Userid directory
/apps/tibco/bin	The directory that holds the common scripts that are used by all of the TIBCO BW installed on a particular server.
/apps/tibco/xxxxxxx	TIBCO Home directory
{TIBCO_HOME}/lib (drivers, sapjco…)	All external libs, e.g. SAP, JDBC…
{TIBCO_HOME}/deploy	Deployment working folder & history
{TIBCO_HOME}/config	Configuration directory

TIBCO "Runtime Data" directory structure:

/data/tibdata/<Domain_Id>/bwldg	bwldg is the directory where ledgers are stored if certified messaging is used.

TIBCO "User Data" directory structure:

/data/tibusrdata/xxxxxxx/	Configuration files, temporary data, specific logs,…

TIBCO "LOGS" directory structure:

/logs/tiblog/xxxxx/log	The tibco directory logs (BW, stop/start process…)

- ➤ Verify that the users and folders are created before installation

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- ➢ Connect to the server with appropriate account TIBCO user to install TIBCO software.

- ➢ Access read to TIBCO Home directory

  - o chmod –R 755 /apps/tibco/XXXxxx/ (before installation)

2.2 Installation tibco components

Installation: TIBCO RV 8.4

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Extract the package Execute Installer	
Enter Env: PRD as "Production" TIBCO HOME folder	
Finish	

Installation : TIBCO EMS 8.4.1

./TIBCOUniversalInstaller-lnx-x86-64.bin -console -is:tempdir $HOME/tmp	Initializing Wizard........ Launching InstallShield Wizard........ TIBCO Universal Installer – Welcome --------------------------------- Welcome to the TIBCO Universal Installer The installation wizard will install the following products on your system. TIBCO EMS Enterprise Edition 8.4.1 TIBCO Software Inc. http://www.tibco.com Enter '1' to continue or '3' to cancel: [1]
Choose EMS client	To select an item, enter its number. Enter '0' when you are finished. 2 1. [ ] 1) Development 2. [X] 2) Client 3. [ ] 3) Server 4. [ ] 4) Central Administration To select an item, enter its number. Enter '0' when you are finished. 0 Do you want to customize the install feature selections? [Yes] TIBCO EMS Enterprise Edition 8.4.1 – Feature Selection --- Choose the features to install. 1. [ ] EMS Server Baseline 2. [ ] Development Kit 3. [X] EMS Client Baseline 4. [ ] EMS Source 5. [ ] EMS Central Administration 6. [ ] Hibernate (For Database Stores) To select an item, enter its number. Enter '0' when you are finished.
Finish	TIBCO EMS Enterprise Edition 8.4.1 --- EMS Client Baseline Installation Environment Details: Environment Name: PRD Environment Location: /apps/tibco/NATIB08-PRD Configuration Directory Location: /apps/tibco/NATIB08-PRD/tibco/cfgmgmt For more details, refer to the installation log file located at: /home/tibco/tibna08p/.TIBCO/install_2020-04-10.082013 Press 'Enter' to exit the installer. [ ] [tibna08p@xspl50s694a EMS841]$

Installation TIBCO TRA 5.11

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| Extract the package<br>Execute Installer<br>./TIBCOUniversalInstaller-lnx-x86-64.bin -console -is:tempdir $HOME/tmp | ```
                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 Designer 5.11.0
TIBCO Runtime Agent 5.11.0
TIBCO Hawk 5.2.0
TIBCO Hawk 5.2.0 Hotfix 4
Third Party Core Libraries 5.11.0

TIBCO Software Inc.
http://www.tibco.com


Enter '1' to continue or '3' to cancel: [1]
``` |
| TRA DB configuration: yes<br>Driver directory<br><br>EMS configuration: Yes<br>EMS path<br><br>Next and Next | ```
    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 Designer 5.11.0
        [X] Runtime
        [X] Documentation
    TIBCO Runtime Agent 5.11.0
        [X] Runtime
        [X] Documentation
    TIBCO Hawk 5.2.0
        [X] Agent
    TIBCO Hawk 5.2.0 Hotfix 4
        [X] TIBCO TRA Hawk 5.2.0 Hotfix 4
    Third Party Core Libraries 5.11.0
        [X] Runtime

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]
``` |
| Chose "Sunec" folder | ```
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]

TIBCO Universal Installer - TRA Database Config
----------------------------------------------
Do you want to use a vendor supplied database driver? [No] Yes


Please select the database driver type from the list below.


    1. SQLServer
    2. DB2
    3. OracleThin
    4. OracleThick

Select an option by entering its number from the list above. [1] 3


Specify Driver Directory or File: /apps/tibco/NATIB08-PRD/tpc1/5.11/jdbc

Enter '1' to continue or '3' to cancel: [1]

TIBCO Universal Installer - EMS Configuration
---------------------------------------------
Would you like to specify the TIBCO EMS Configuration directory? [Yes]

[] /apps/tibco/NATIB08-PRD/ems/8.4
``` |

| Finish | ```
Runtime
Documentation
TIBCO Hawk 5.2.0
---------------------------------------------------------
Agent
TIBCO Hawk 5.2.0 Hotfix 4
---------------------------------------------------------
TIBCO TRA Hawk 5.2.0 Hotfix 4
Third Party Core Libraries 5.11.0
---------------------------------------------------------
Runtime


Installation Environment Details:


Environment Name:
PRD


Environment Location:
/apps/tibco/NATIB08-PRD


Configuration Directory Location:
/apps/tibco/NATIB08-PRD/tibco/cfgmgmt


For more details, refer to the installation log file located at:
/home/tibco/tibna08p/.TIBCO/install_2020-04-10.082657

Press 'Enter' to exit the installer. [ ]
``` |
|---|---|

Installation : TIBCO BW 5.14

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Extract the package
Execute Installer
	``
	                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 5.14.0
	
	TIBCO Software Inc.
	http://www.tibco.com
	
	Enter '1' to continue or '3' to cancel: [1]
	``

Next & install	```
	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 5.14.0
	      [X] AMBW Runtime
	      [X] AMBW Designtime
	      [X] Documentation
	
	Do you wish to proceed with the above feature selections?
	
	Enter 'Yes' to proceed or 'No' to make changes. [Yes]
	``

Finish	``` Post-Install Summary The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 5.14.0 -- AMBW Runtime AMBW Designtime Documentation Installation Environment Details: Environment Name: PRD Environment Location: /apps/tibco/NATIB08-PRD For more details, refer to the installation log file located at: /home/tibco/tibna08p/.TIBCO/install_2020-04-10.083529 Press 'Enter' to exit the installer. [ ] ```

Installation : TIBCO BW 5.14 HF09

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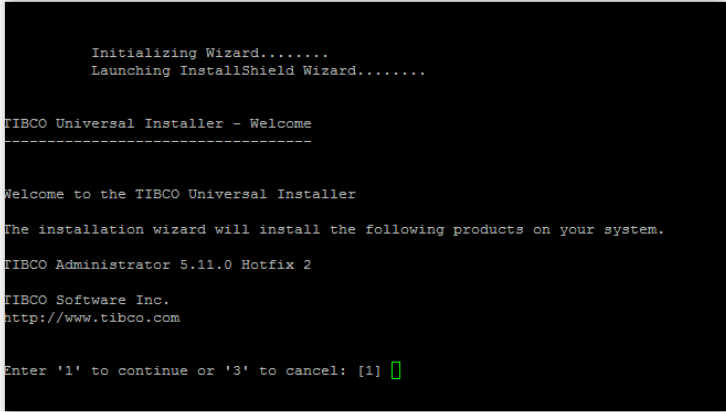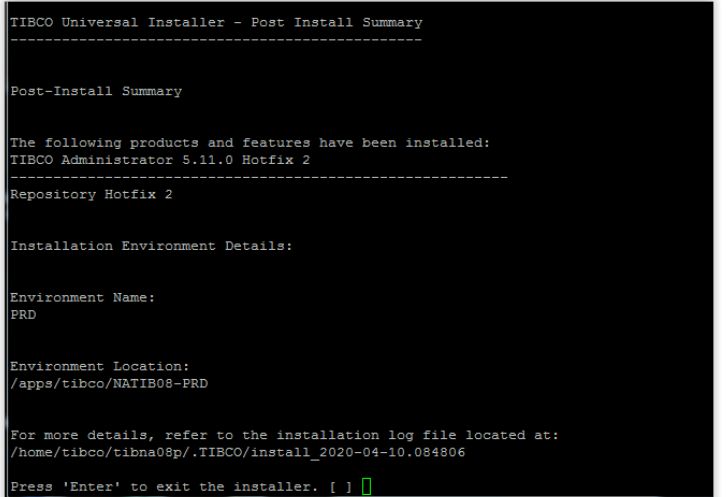| Extract the package Execute Installer	Initializing Wizard........ Launching InstallShield Wizard........ TIBCO Universal Installer - Welcome --------------------------------- Welcome to the TIBCO Universal Installer The installation wizard will install the following products on your system. TIBCO ActiveMatrix BusinessWorks 5.14.0 Hotfix 9 TIBCO Software Inc. http://www.tibco.com Enter '1' to continue or '3' to cancel: [1]
Finish	Post-Install Summary The following products and features have been installed: TIBCO ActiveMatrix BusinessWorks 5.14.0 Hotfix 9 -- AMBW Runtime Hotfix 9 Installation Environment Details: Environment Name: PRD Environment Location: /apps/tibco/NATIB08-PRD For more details, refer to the installation log file located at: /home/tibco/tibna08p/.TIBCO/install_2020-04-10.084457 Press 'Enter' to exit the installer. [ ]

Installation TIBCO Admin 5.11 on Linux

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Extract the package
Execute the Installer
	
	``
	        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 Administrator 5.11.0
	
	TIBCO Software Inc.
	http://www.tibco.com
	
	Enter '1' to continue or '3' to cancel: [1] []
	``

Next & install	```
	Environment Name: PRD
	Environment Location: /apps/tibco/NATIB08-PRD
	
	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]
	
	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 Administrator 5.11.0
	        [X] Repository
	        [X] Documentation
	
	Do you wish to proceed with the above feature selections?
	
	Enter 'Yes' to proceed or 'No' to make changes. [Yes] []
	``

Finish	``` Cleaning up... TIBCO Universal Installer - Post Install Summary -- Post-Install Summary The following products and features have been installed: TIBCO Administrator 5.11.0 -- Repository Documentation Installation Environment Details: Environment Name: PRD Environment Location: /apps/tibco/NATIB08-PRD For more details, refer to the installation log file located at: /home/tibco/tibna08p/.TIBCO/install_2020-04-10.083513 Press 'Enter' to exit the installer. [ ] [] ```

Installation TIBCO Admin 5.11 HF02

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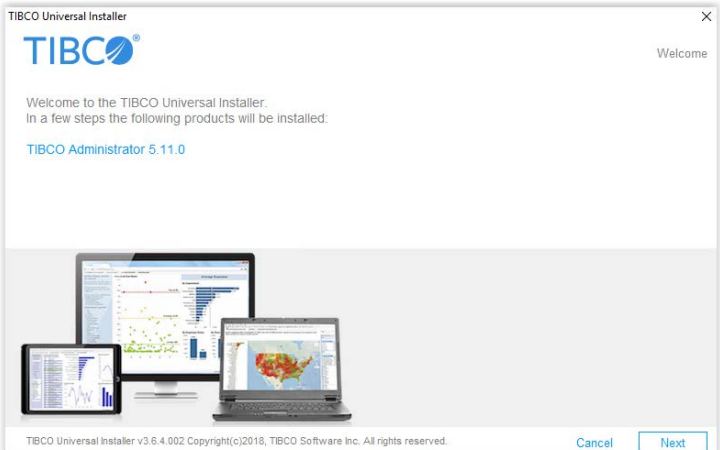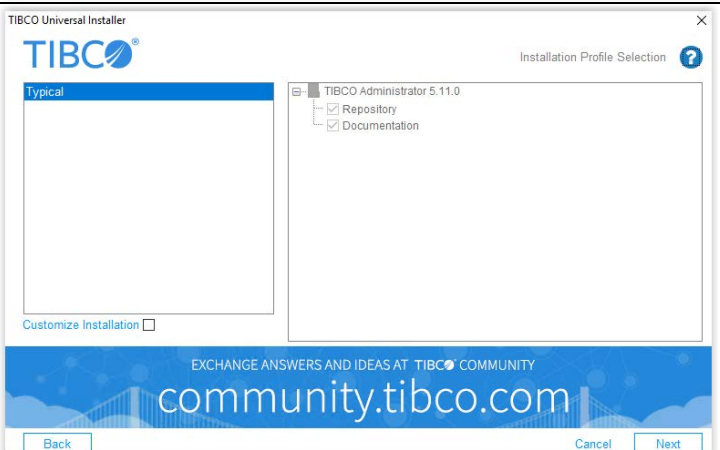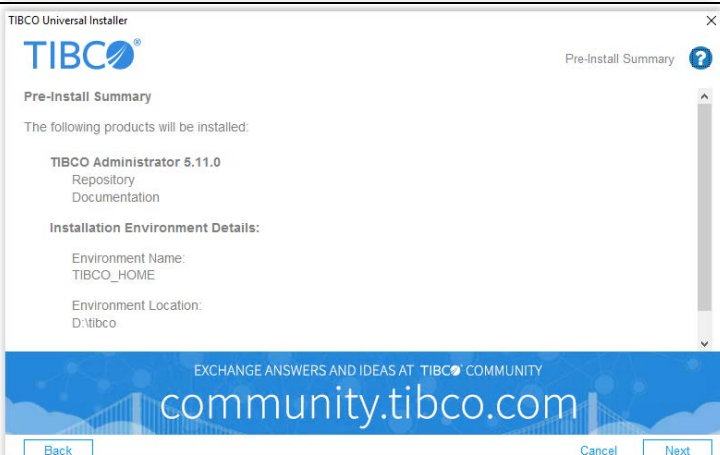| Extract the package<br>Execute the Installer | ```
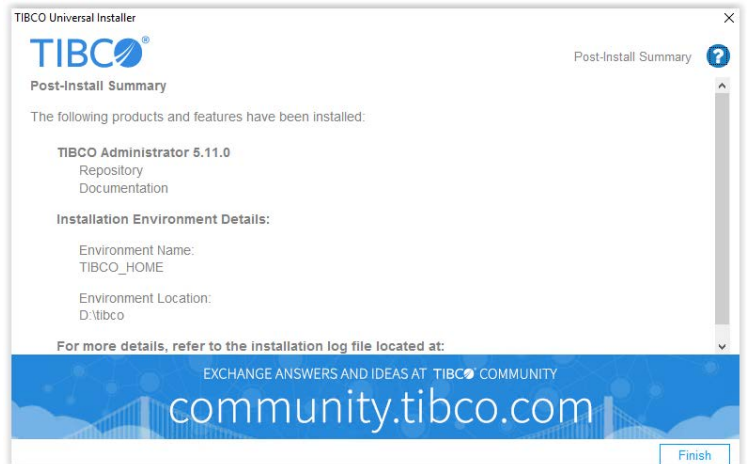                Initializing Wizard.......
                Launching InstallShield Wizard........

TIBCO Universal Installer - Welcome
-----------------------------------


Welcome to the TIBCO Universal Installer

The installation wizard will install the following products on your system.

TIBCO Administrator 5.11.0 Hotfix 2

TIBCO Software Inc.
http://www.tibco.com


Enter '1' to continue or '3' to cancel: [1] []
``` |
|---|---|
| Finish | ```
TIBCO Universal Installer - Post Install Summary
------------------------------------------------


Post-Install Summary


The following products and features have been installed:
TIBCO Administrator 5.11.0 Hotfix 2
--------------------------------------------------------
Repository Hotfix 2


Installation Environment Details:


Environment Name:
PRD


Environment Location:
/apps/tibco/NATIB08-PRD


For more details, refer to the installation log file located at:
/home/tibco/tibna08p/.TIBCO/install_2020-04-10.084806

Press 'Enter' to exit the installer. [ ] []
``` |

Installation TIBCO Admin 5.11 on Windows

Extract the package and execute **TIBCOUniversalInstaller-x86-64.exe**	
Typical and Next	
Next ▪ cancel	

Finish	

2.3 Creation tibco domain

Using the XML file "Creation domain:

```xml
<?xml version="1.0" encoding="UTF-8"?>

<!--Generated by Turbo XML.-->

<Task xmlns="http://www.tibco.com/domainutility/commandline"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <CreateDomain>

    <DomainName>"domain name"</DomainName>

    <AdministratorUsername>admin</AdministratorUsername>

    <AdministratorPassword>"pwd"</AdministratorPassword>

    <AdminHome>/apps/tibco/xxxxxxxxxxx/administrator/5.11</AdminHome>


    <!-- uncomment the following if non default values required -->

    <Encoding>UTF-8</Encoding>

    <MachineName>xxxxxxxxxx.pharma.aventis.com</MachineName>

    <HawkCluster/>

              <LocalApplicationData>true</LocalApplicationData>

              <MaxDeploymentRevision>5</MaxDeploymentRevision>

    <EMSParameters>
```

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```
<ServerURL>tcp://xxxxxxxxxxxx.pharma.aventis.com:XXXX,tcp://xxxxxxxxxxxxx.pharma.aventis.com:XXXX</ServerURL>

      <Username>admin</Username>

      <Password>"EMS_PDW"</Password>

    </EMSParameters>

    <!-- uncomment the following if specific ports needed or else the ports will be auto incremented -->

    <TomcatConfiguration>

      <HttpPort>XXXX</HttpPort>

      <ShutDownPort>XXXX</ShutDownPort>

      <ShutDownString>SHUTDOWN</ShutDownString>

    </TomcatConfiguration>

    <!-- uncomment the following for DB configuration -->

    <DatabaseConfiguration>

<DatabaseUrl>jdbc:oracle:thin:@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</DatabaseUrl>

      <DatabaseUsername>"oracle_schema"</DatabaseUsername>

      <DatabasePassword>"PWD"</DatabasePassword>

      <JdbcDriver>oracle.jdbc.driver.OracleDriver</JdbcDriver>

      <DatabaseMinConnections>0</DatabaseMinConnections>

      <DatabaseMaxConnections>50</DatabaseMaxConnections>

    </DatabaseConfiguration>

  </CreateDomain>

</Task>
```

From tra bin folder :

Execute : ./domainutilitycmd -cmdFile $HOME/CreationDomain.xml

2.4   add the bw machine to tibco domain

Using the XML file "Add machine

```
<?xml version="1.0" encoding="UTF-8"?>

<!--Generated by Turbo XML.-->

<Task xmlns="http://www.tibco.com/domainutility/commandline"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

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```
    <AddMachine>

        <DomainName>"domain name"</DomainName>

        <AdministratorUsername>admin</AdministratorUsername>

        <AdministratorPassword>"PWD_admin"</AdministratorPassword>

        <MachineName>xxxxxxxx.pharma.aventis.com</MachineName>

        <HawkCluster/>

        <DiscoverTimeOut>20</DiscoverTimeOut>

        <EMSParameters>

<ServerURL>tcp://xxxxxxxxxxxxxxxx.pharma.aventis.com:XXXX,tcp://xxxxxxxxxxxxxxxxx.pharma.aventis.com:XXX
X</ServerURL>

            <Username>admin</Username>

            <Password>"EMS_PWD"</Password>

        </EMSParameters>



        <!-- Uncomment to specify non-default TIBCO Hawk HMA RV parameters. Used only in case of EMS based
domain -->

        <!-- uncomment the following for cluster group configuration -->

    </AddMachine>

</Task>
```

3   POST INSTALLATION

3.1   INSTALL Binary

From the $TIBCO_PACKAGE

➢   Copy bin.zip to /apps/tibco/ and unzip (unzip bin.zip)

➢   Copy config.zip to /apps/tibco/xxxxxx/ and (unzip config.zip)

3.2   Configurations

➢   Copy deploy folders from /packages/CONFIG/

➢   JDBC files

o   Create the jdbc folder under /apps/tibco/xxxxx/tpcl/5.11/jdbc

o   Copy the jdbc files from packages

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3.3　Test and verifications

Cd /apps/tibco/bin

- ➢ Execute startAll.sh

- ➢ Execute statusAll.sh

- ✓ Verify all TIBCO process running

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Smith

Jones

CO2

H2O

3.3　Test and verifications

Cd /apps/tibco/bin

- ➢ Execute startAll.sh
- ➢ Execute statusAll.sh
- ✓ Verify all TIBCO process running

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