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IP - ITS EAI Platform - Installation Procedure - TIBCO BW 6.x

Reason for Revision

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Approval	ROBERT Cyrille	31 Aug 2016 14:15:59	I am approving this document
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Version	Date *(dd/mmm/yyyy)*	Modification
V1.0	01/03/2016	First version

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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 •	•

o **Related Documents**

Doc ID	Title
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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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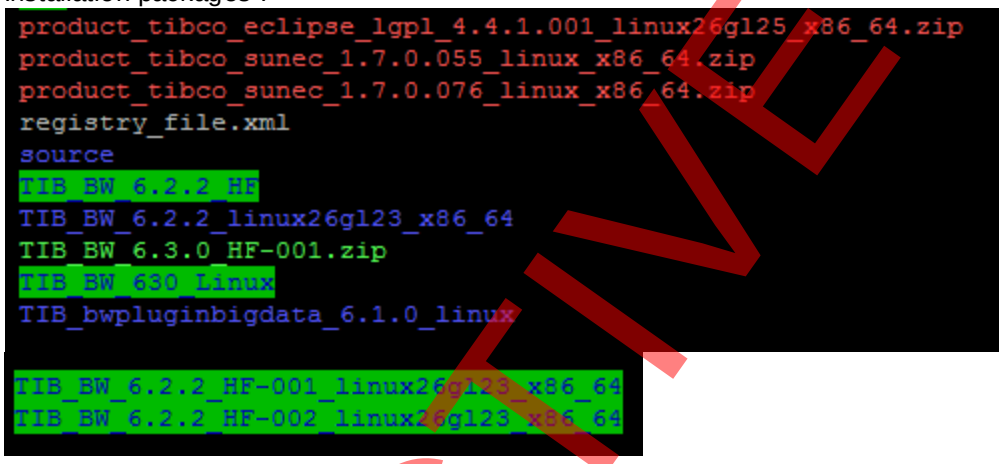
4. PREREQUISITES

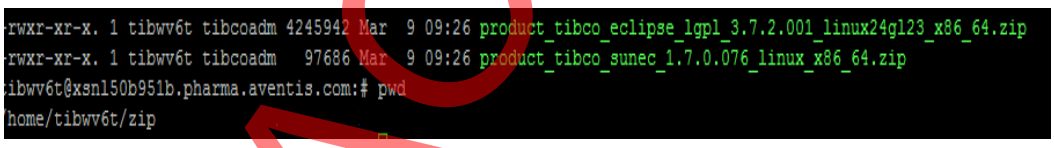
- Installation Account

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 :



- Copy the Oracle Elliptic curve in $HOME/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.
/apps/tibco/BW601t/	TIBCO Home directory
{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	**NAS share** for the EMS config files
{TIBCO_HOME}/ems/version/bin	EMS tibemsd config file (**tibemsd_<port>.conf**)

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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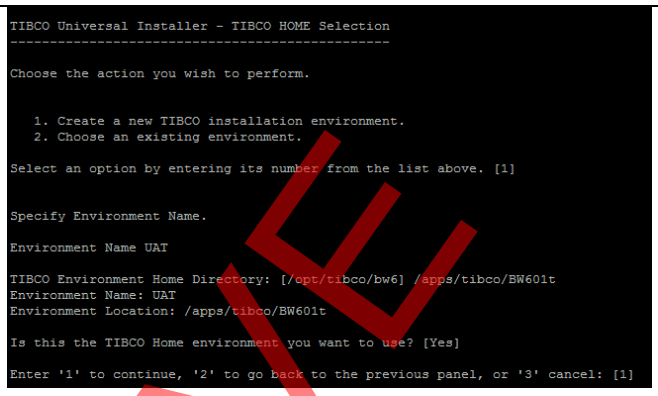
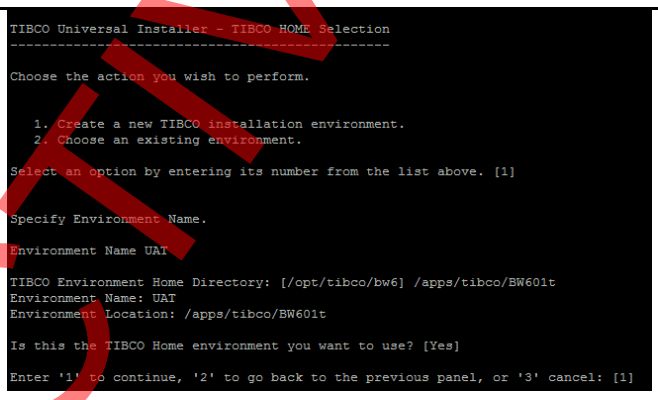
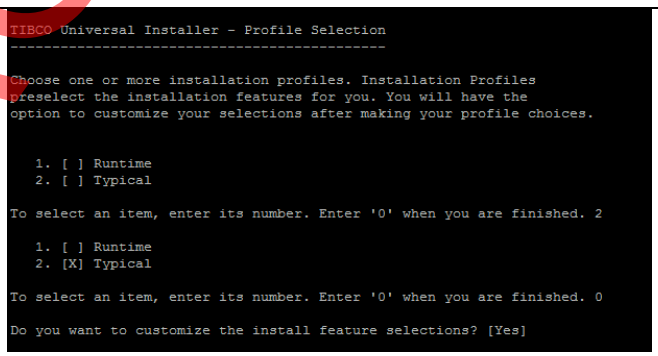
5.3. Installations BW6.x on Linux

5.3.1. Installation: TIBCO BW 6.2.2

Extract the package Execute : TIBCOUniversalInstaller-lnx-x86-64.bin	
Choose “1” and enter “ENV” “/apps/tibco/BWxxx/”	
“YES” and enter	

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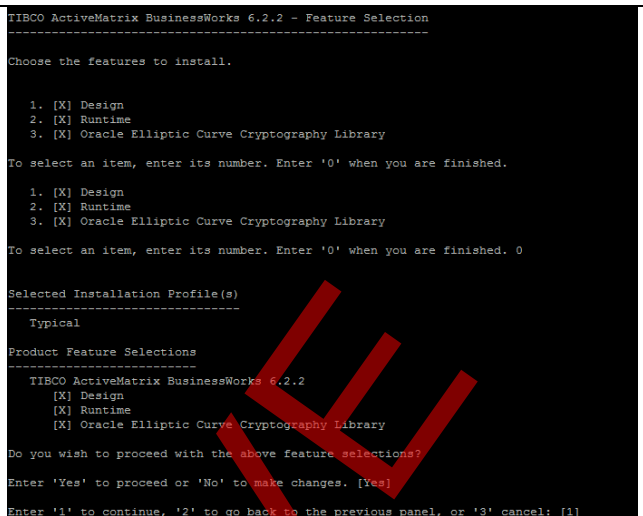
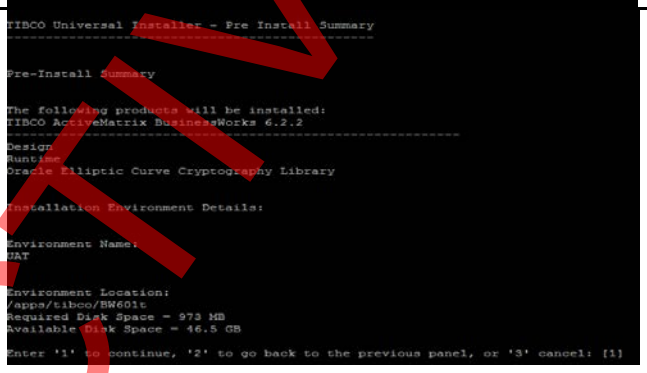
“1” enter	
Enter	

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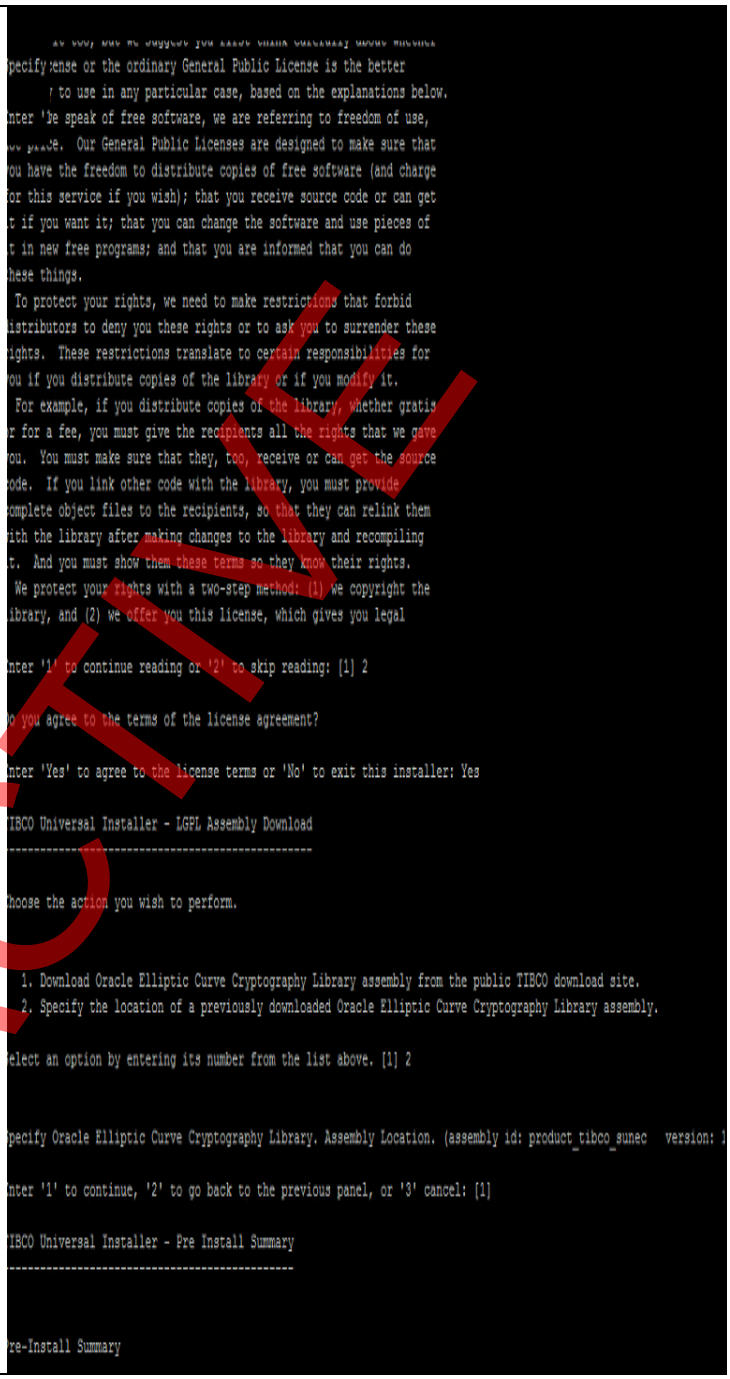
Specify the location of Oracle Elliptic curve in $HOME/zip	

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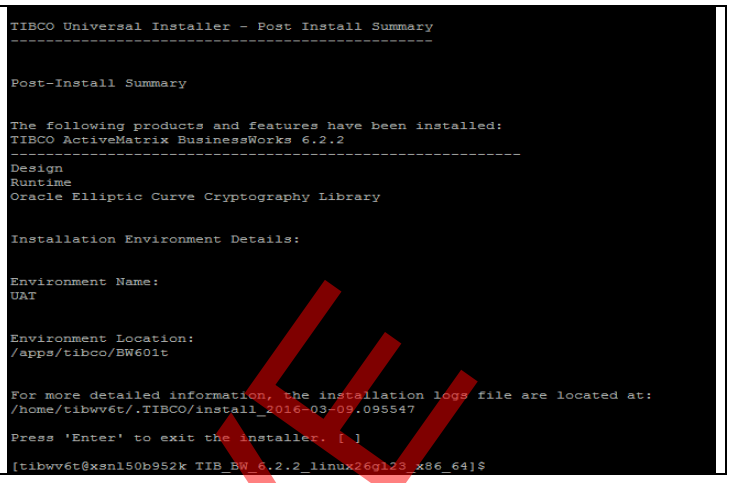
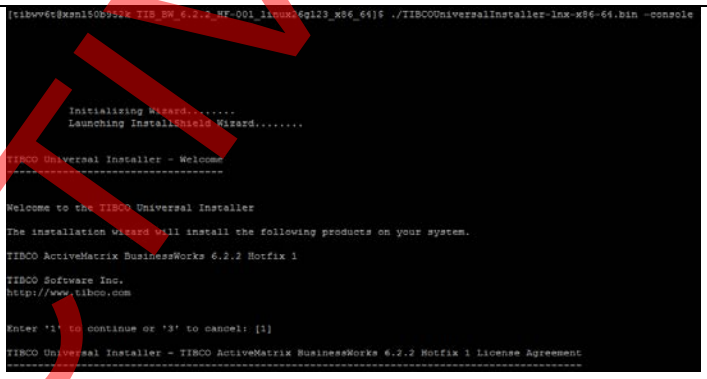
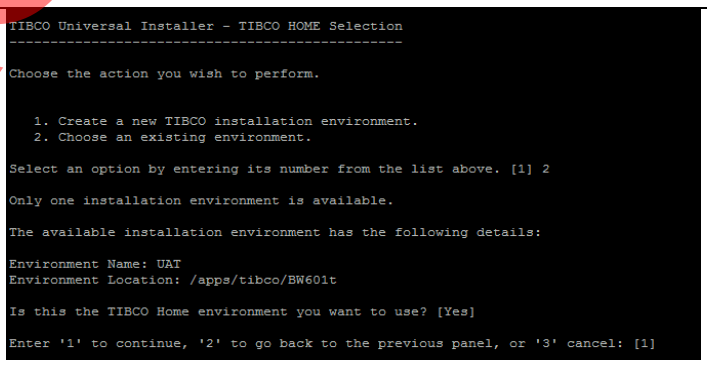
"Enter" and finish	

5.3.2. Installation: BusinessWorks 6.2.2 HOTFIX 1

Execute:TIBCOUniversalInstaller-x86-64.exe	
Choose the existing environment and Enter	

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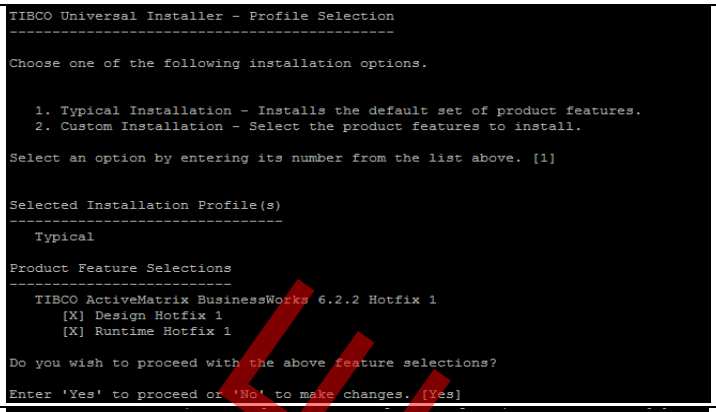
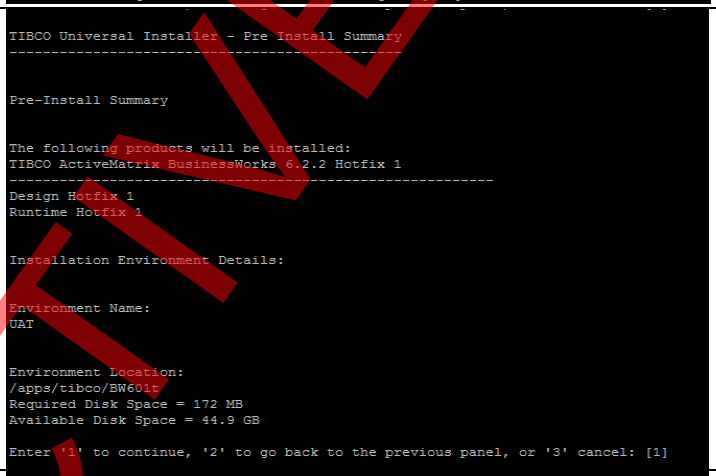
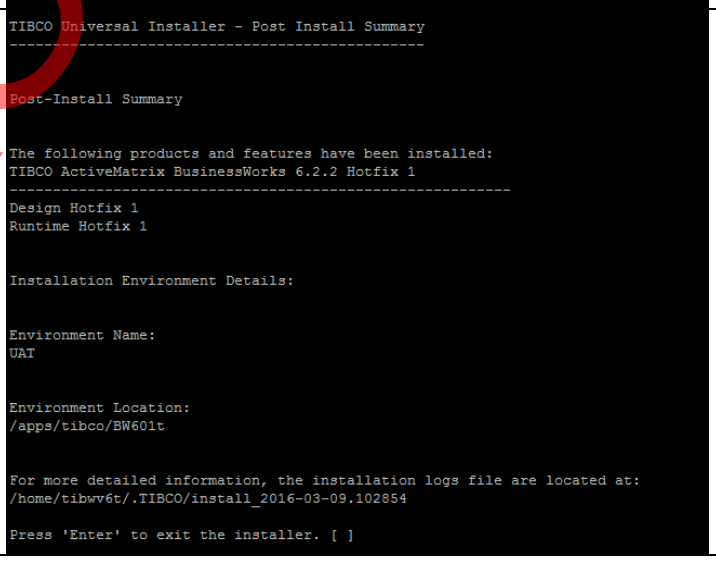
Enter	
Enter	
Finish	

5.3.3. Installation: Business Works 6.2.2 HOTFIX 2

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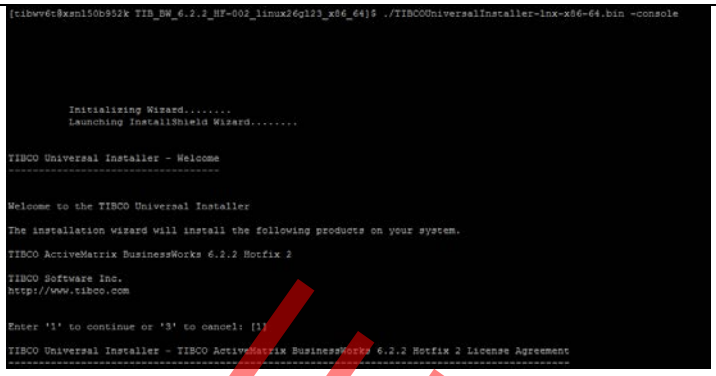
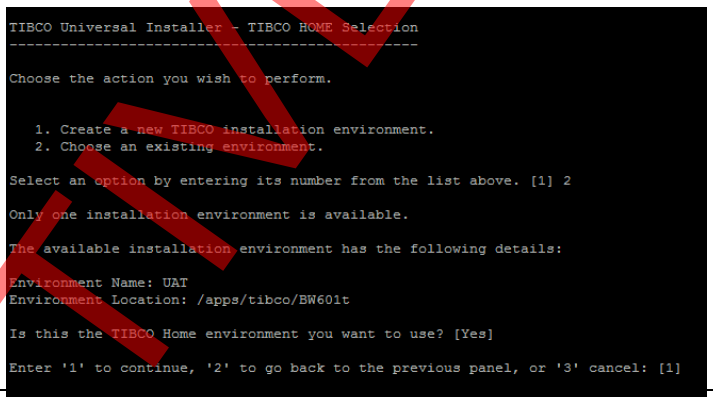
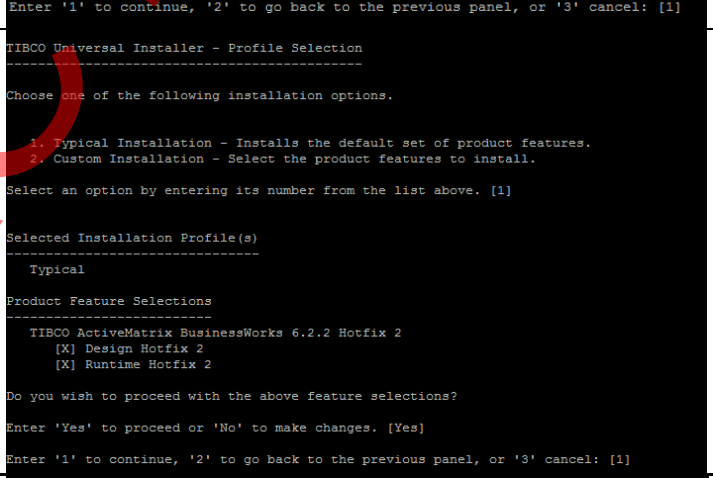
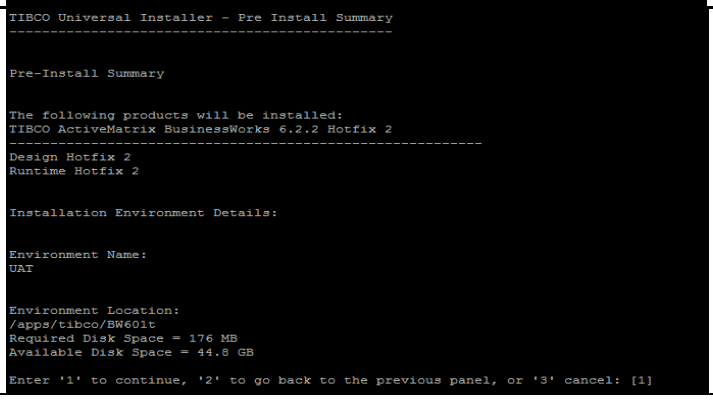
Execute : **TIBCOUniversalInstaller-x86-64.exe**	
Choose the existing environment and Enter	
Enter	
Enter	

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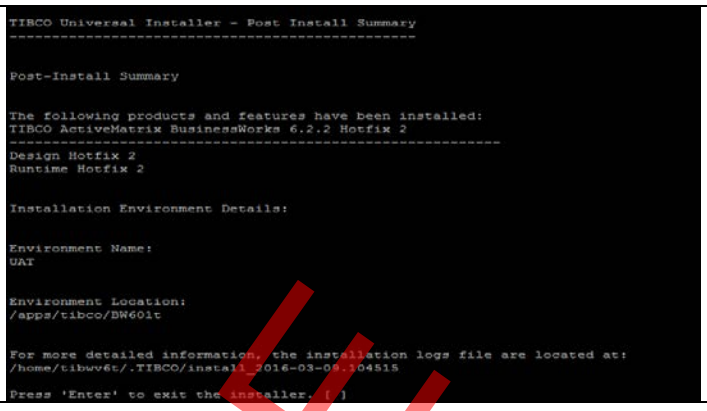
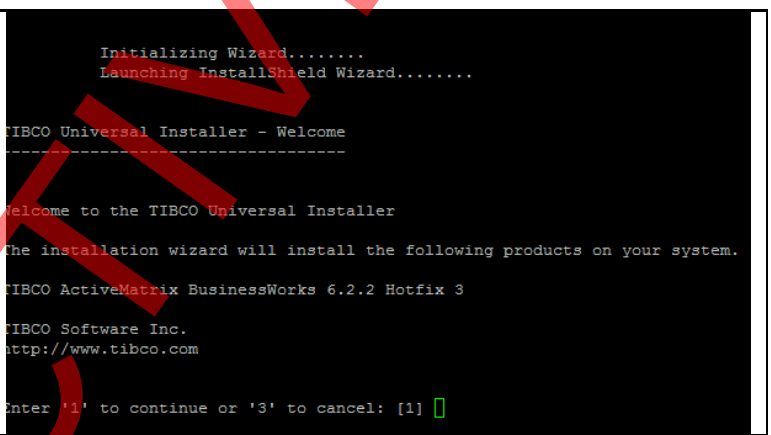
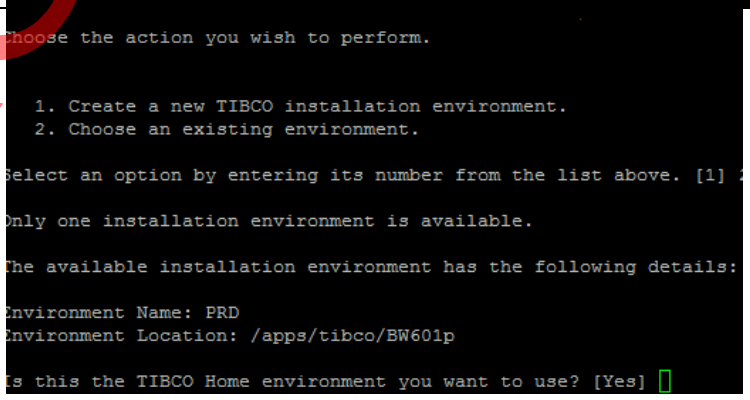
Finish	

5.3.4. Installation: Business Works 6.2.2 HOTFIX 3

Execute:TIBCOUniversalInstaller-x86-64.exe	
Choose the existing environment and Enter	

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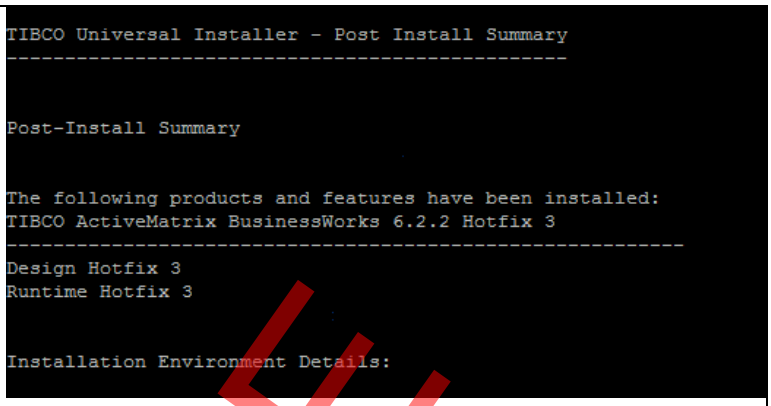
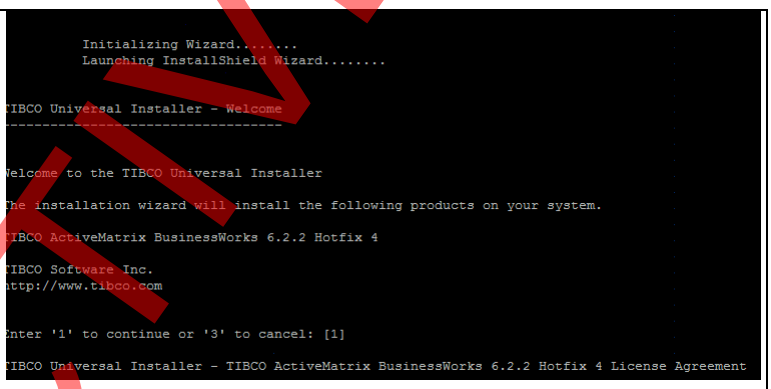
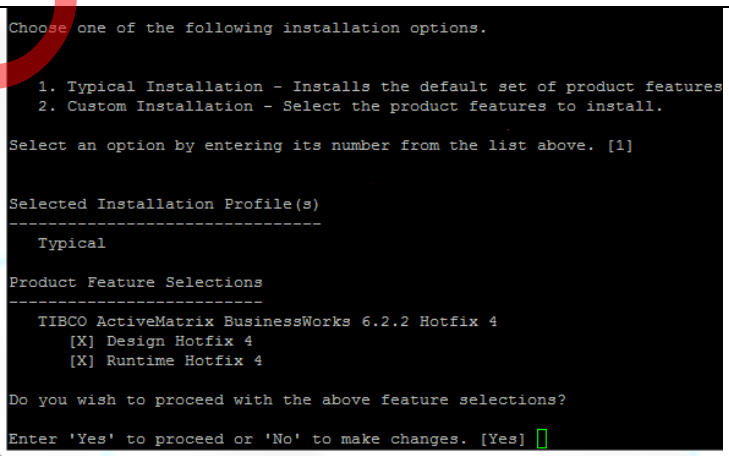
Finish	

5.3.5. Installation: Business Works 6.2.2 HOTFIX 4

Execute:TIBCOUniversalInstaller-x86-64.exe	
Choose the existing environment and Enter	

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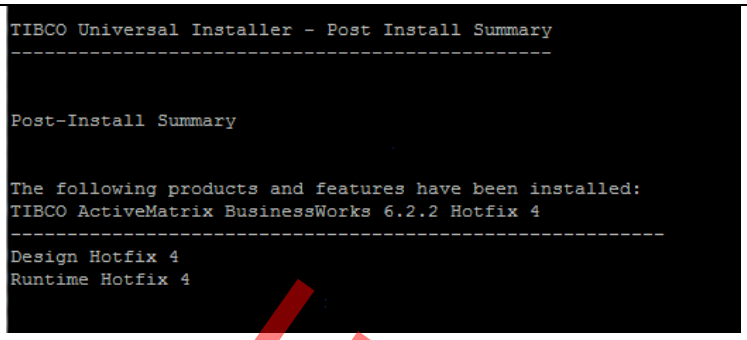
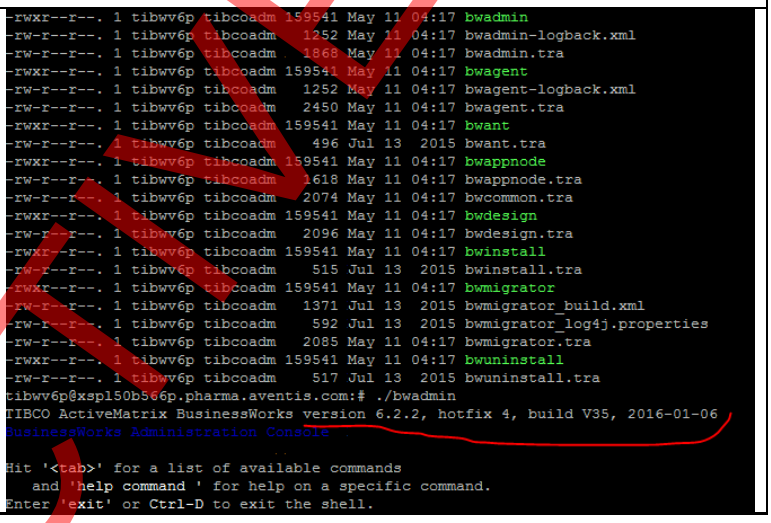
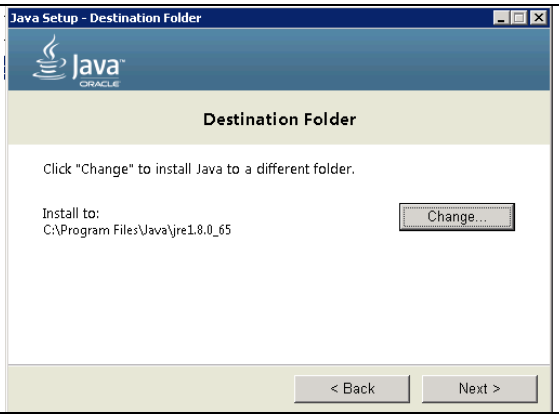
Finish	
Verification	

5.4. Installation: TIBCO TEA on Windows

5.4.1. Installation JAVA

Installation jre1.8.0_65	

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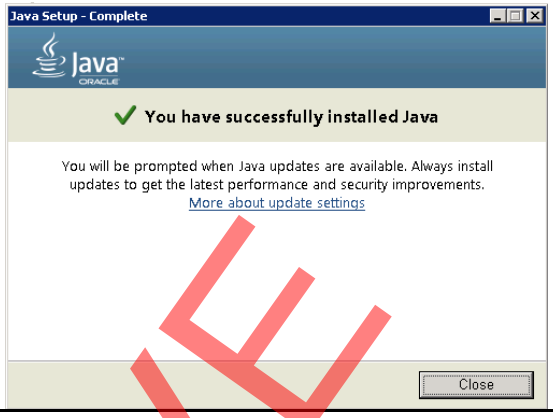
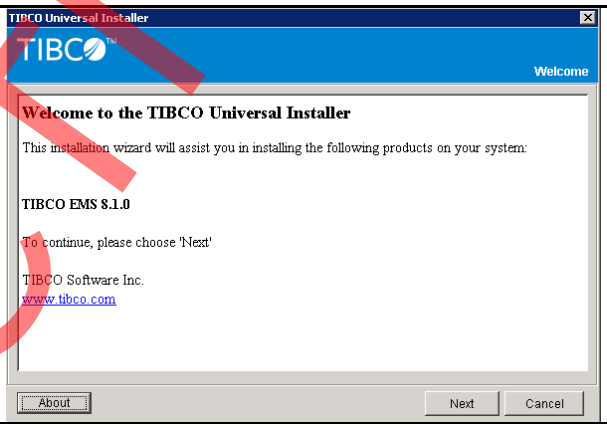
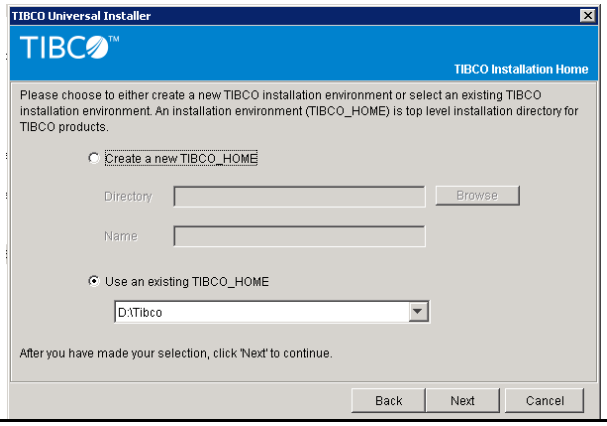
Finish	

5.4.2. Installation TIBCO EMS 8.1.0

Execute the installer	
TIBCO folder: d:/	

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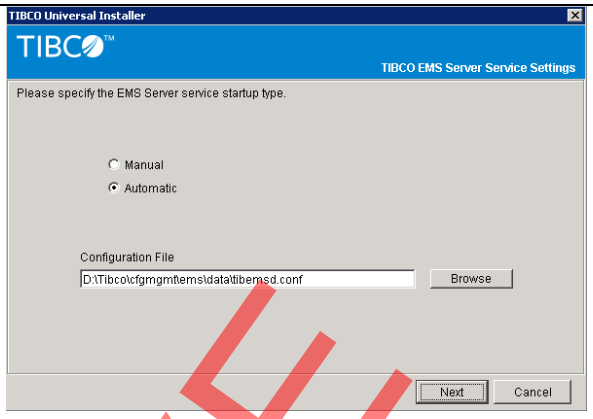
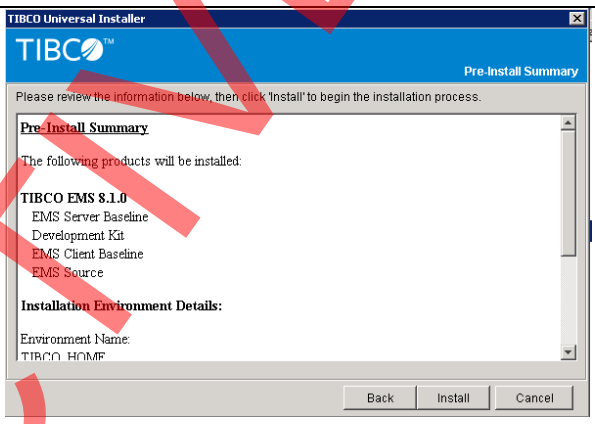
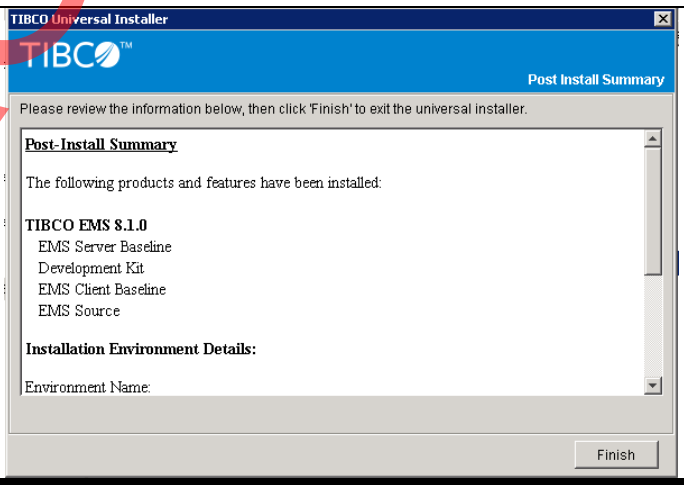
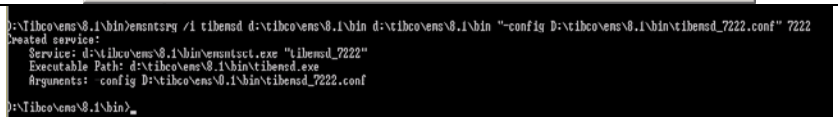
automatic	
install	
Finish	
Create the port number “7222”	 cd d:/tibco:ems/8.1/bin emsntsrg /i tibemsd d:\tibco\ems\8.1\bin d:\tibco\ems\8.1\bin "-config D:\tibco\ems\8.1\bin\tibemsd_7222.conf" 7222

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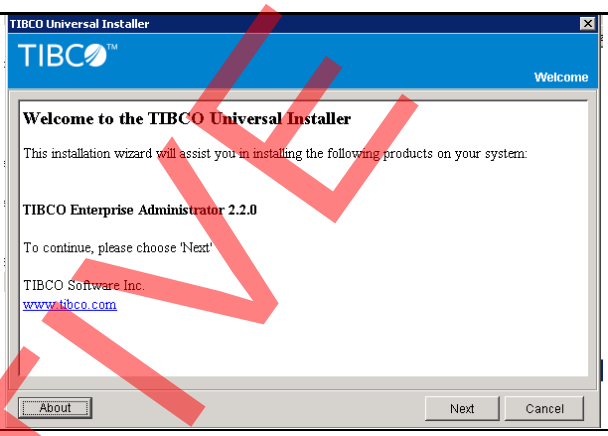
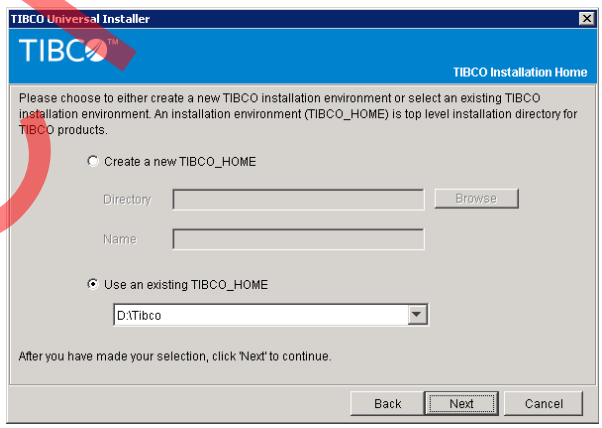
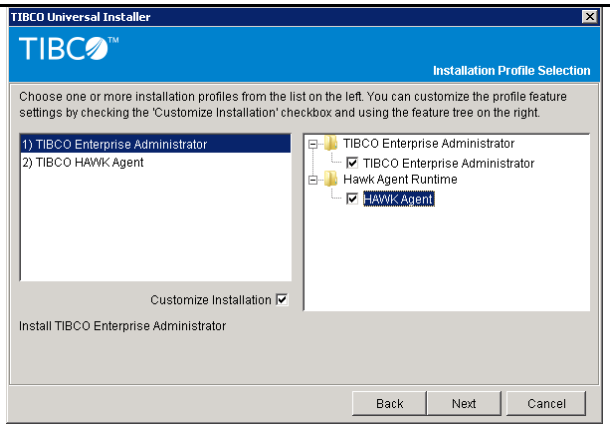
Start the EMS service	

5.4.3. Installation TIBCO TEA 2.2.0

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

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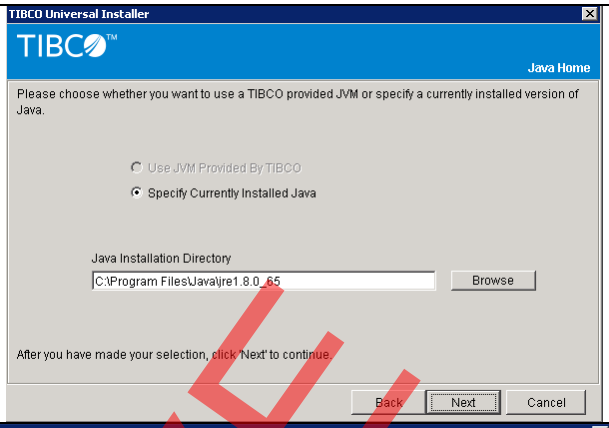
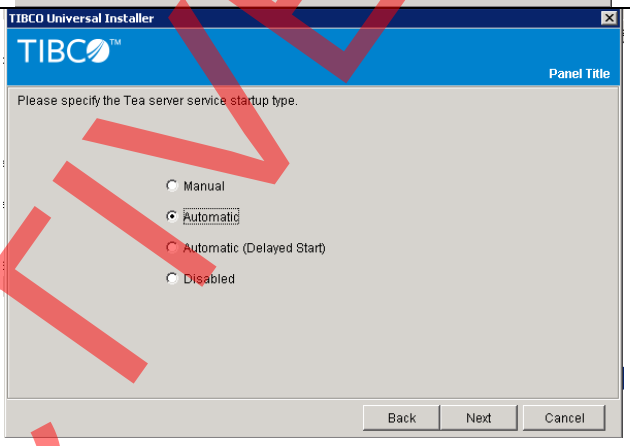
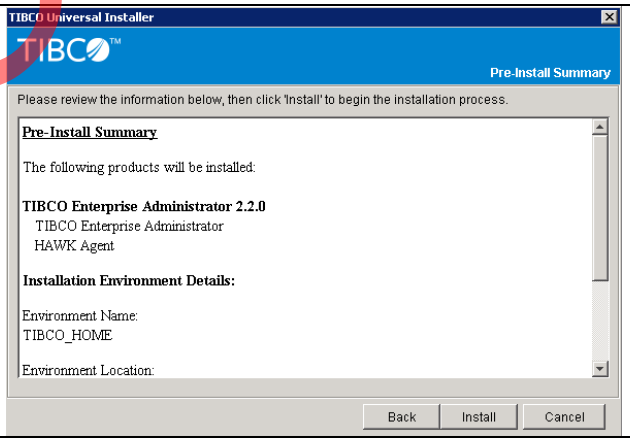
JAVA location	
"Automatic" and next	
Install	

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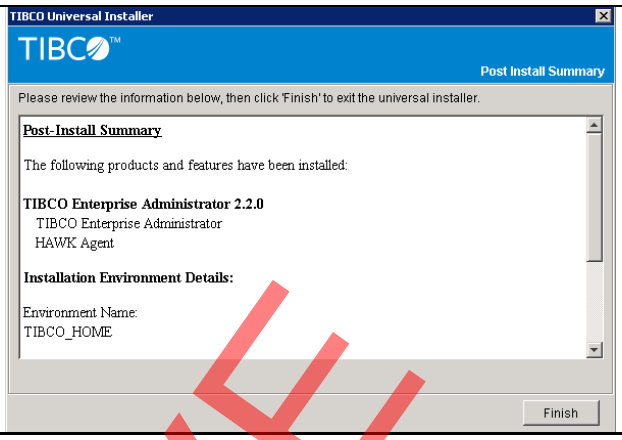
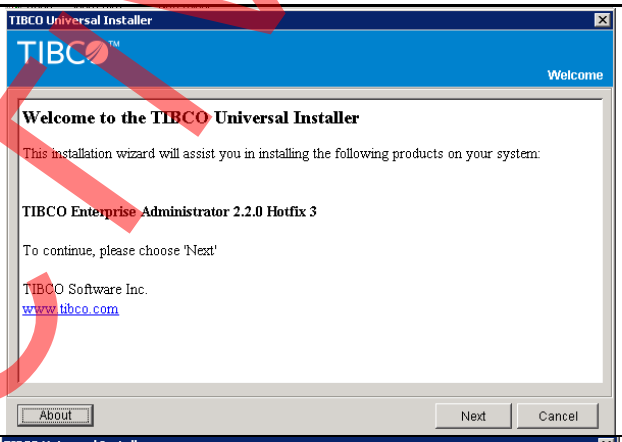
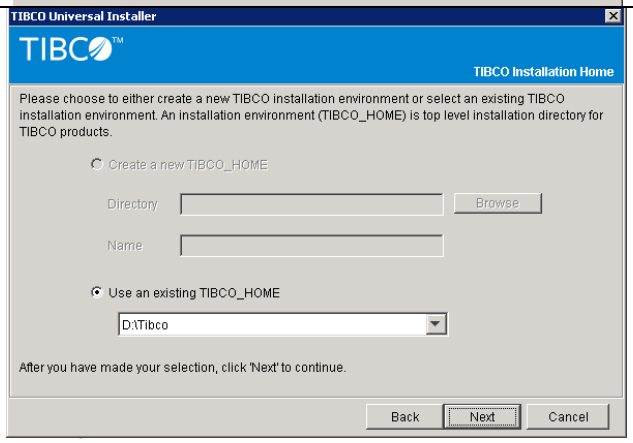
Finish	

5.4.4. Installation TIBCO TEA HOTFIX3

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

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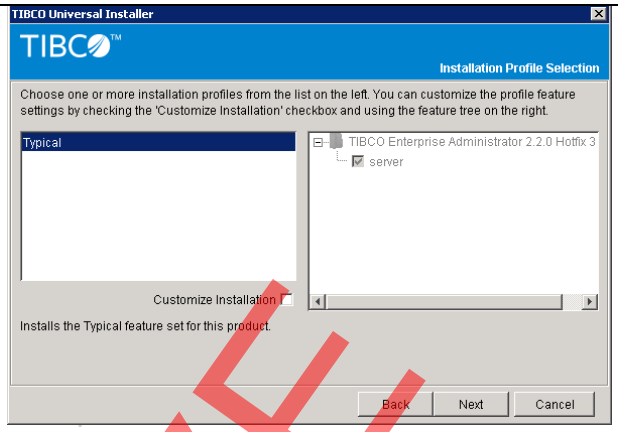
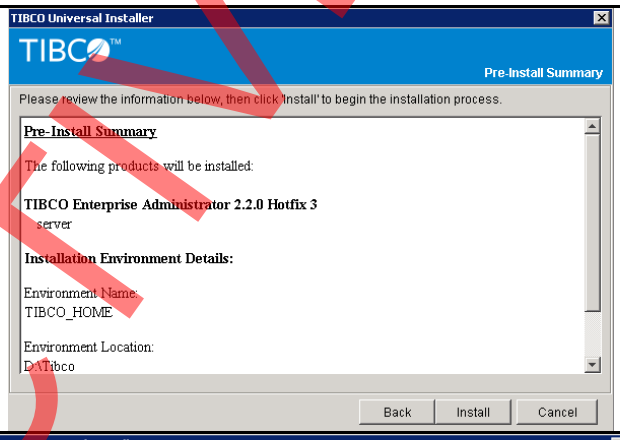
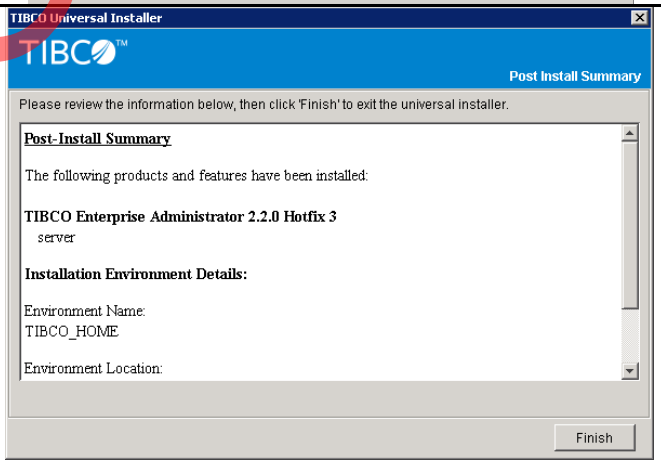
next	
Install	
Finish	

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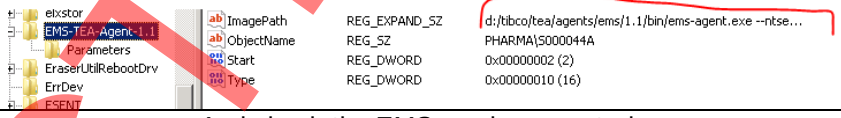
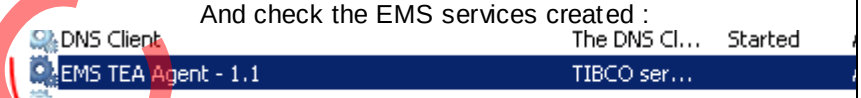
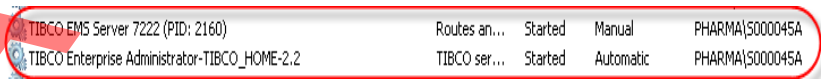
Create EMS TEA Agent : configuration	Modify the TEA config file in D:\tibco\tea\agents\ems\1.1\bin\ems-agent.tra *# For running TEA server as a windows service* *ntservice.name=EMS-TEA-Agent-%EMS_TEA_AGENT_VERSION%* *ntservice.displayname=EMS TEA Agent - %EMS_TEA_AGENT_VERSION%* *ntservice.starttype=automatic* *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* go to D:\tibco\tea\agents\ems\1.1\bin then give the command **ems-agent.exe –update** Verify in the registry 
Start TEA Services	And check the EMS services created :  And the others services 

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5.5. Post installation

5.5.1. BWAGENT Configuration

- bwagent_db.json
  - ➔ encryption the pwd for ems and oracle

  - ➔ update bwagent_db.json

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```
{
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: "#!kk5nqw NaP/xr1j3TqRZpSHHN4QG4drx+qZdHH8yKy3s=",
emsserverurl: "tcp://tibconatib601uat1.pharma.aventis.com:7222,tcp://tcp://tibconatib601uat2.pharma.aventis.com:7222",
emsusername: admin,
emsPassword: "#!eCfIZ/XHuk1EOeZwAK1qo1cQl0wgonWDo0gQC2NQzDU=",
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,
governancejmsqueuepdreceivername: "governance.de.bw.default"
}
```


- update bwagent.ini (ANNEXE)
- Copy jdbc driver “ojdbc6.jar” in /apps/tibco/BW601p/bw/6.2/system/lib/

```
[tibwv6t@xsnl50b951b bin]$ vi ../config/bwagent_db.json
[tibwv6t@xsnl50b951b 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@xsnl50b951b bin]$
```

5.5.2. Starting TEA Agents

```
tibwv6t@xsnl50b951b.pharma.aventis.com:# nohup bwagent >>/apps/tibco/BW601t/bw/6.2/logs/bwagent.log&
[1] 26951
```

```
tibwv6t@xsnl50b952k.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
  - Add “java.extended.properties=-Djava.security.egd=file:///dev/urandom”

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

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

bwadmin[admin]>
```

```
wadmin[admin]> enableautoregistration
IBCO-BW-ADMIN-CLI-500508: Successfully enabled auto registration with TEA server

wadmin[admin]> show agents

EA Server URL       : <unknown>
egistered TEA Agent : <none>
uto Registration     : on
ame                          State              Machine                          Version        ConfigState    MgmtPort                    PID
       Uptime
a6-bw02lp.pharma.aventis.com  Running            xspl50b565c.pharma.aventis.com   6.2.2          InSync         0.0.0.0:8079                40234
       0d 00:03:40

wadmin[admin]> registerteaagent http://tibconatib601prd2.pharma.aventis.com:8777/tea
IBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw02lp.pharma.aventis.com] with TEA Server.

wadmin[admin]> registerteaagent http://tibconatib601prd1.pharma.aventis.com:8777/tea
IBCO-BW-ADMIN-CLI-300010: Registered TEA Agent [na6-bw02lp.pharma.aventis.com] with TEA Server.

wadmin[admin]>  show agents

EA Server URL       : http://tibconatib601prd1.pharma.aventis.com:8777/tea
egistered TEA Agent : na6-bw02lp.pharma.aventis.com
uto Registration     : on
ame                          State              Machine                          Version        ConfigState    MgmtPort                    PID
       Uptime
a6-bw02lp.pharma.aventis.com  Running            xspl50b565c.pharma.aventis.com   6.2.2          InSync         0.0.0.0:8079                40234
       0d 00:05:59

wadmin[admin]>
```

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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
```

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

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

wadmin[admin]>
```

Also we create Domain using TEA Admin :

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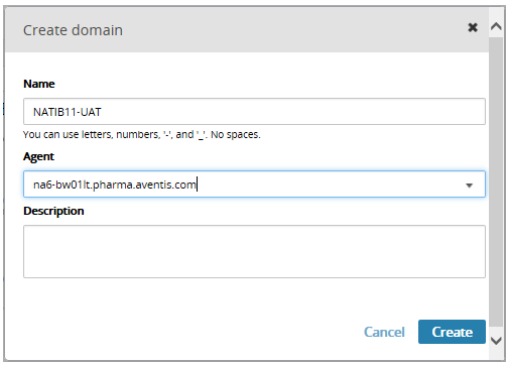


➔ create AppSpace from BW server :

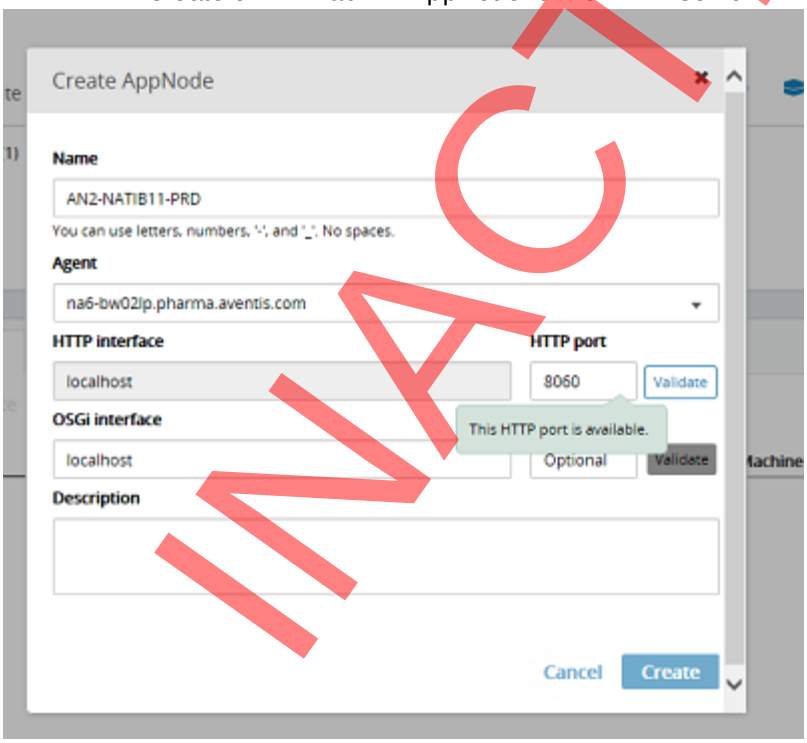
```
BCO-BW-ADMIN-CLI-300100: Domain [NATIB11-PRD] created.

admin[admin]> cd NATIB11-PRD

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

admin[admin@NATIB11-PRD]>
```

➔ Create on TEA admin AppNode or from BW server:



- 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

bwadmin[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
bwadmin[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.

bwadmin[admin@NATIB11-PRD/AS-NATIB11-PRD]>
```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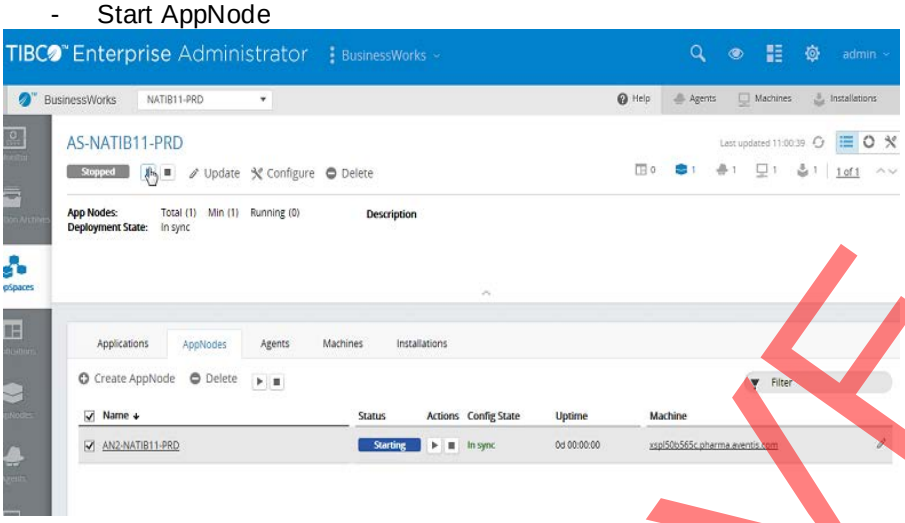
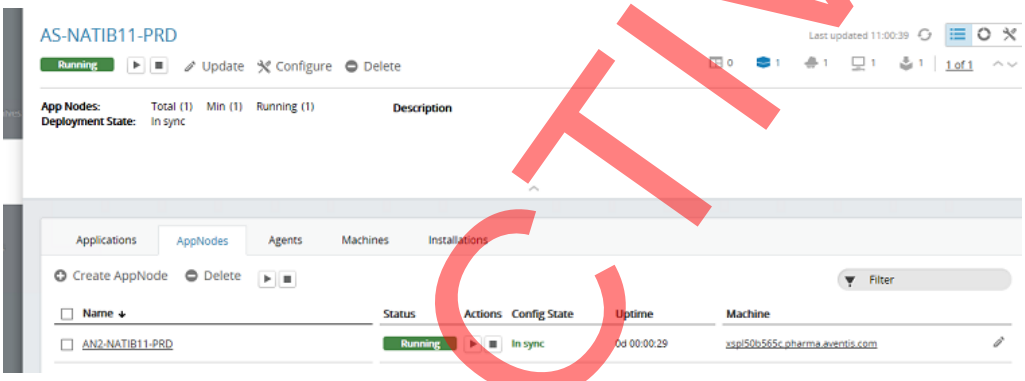
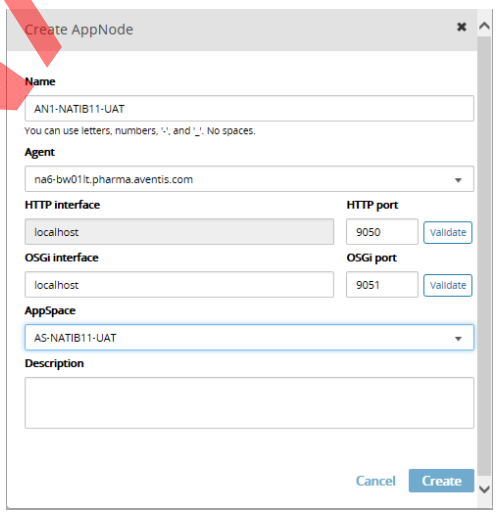
- Start AppNode





Create AppNod2



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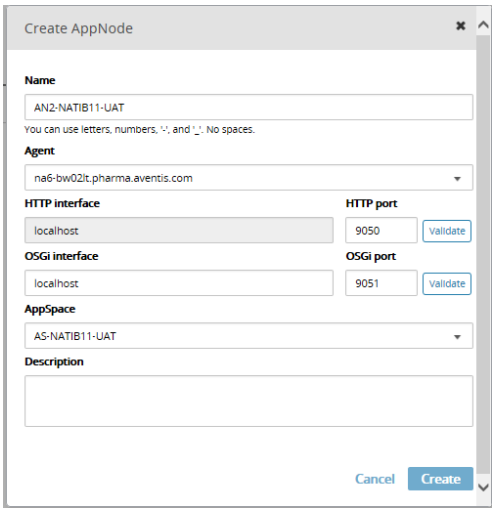
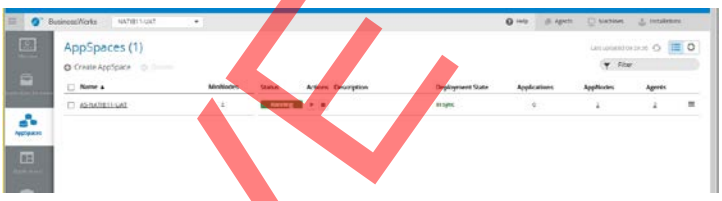
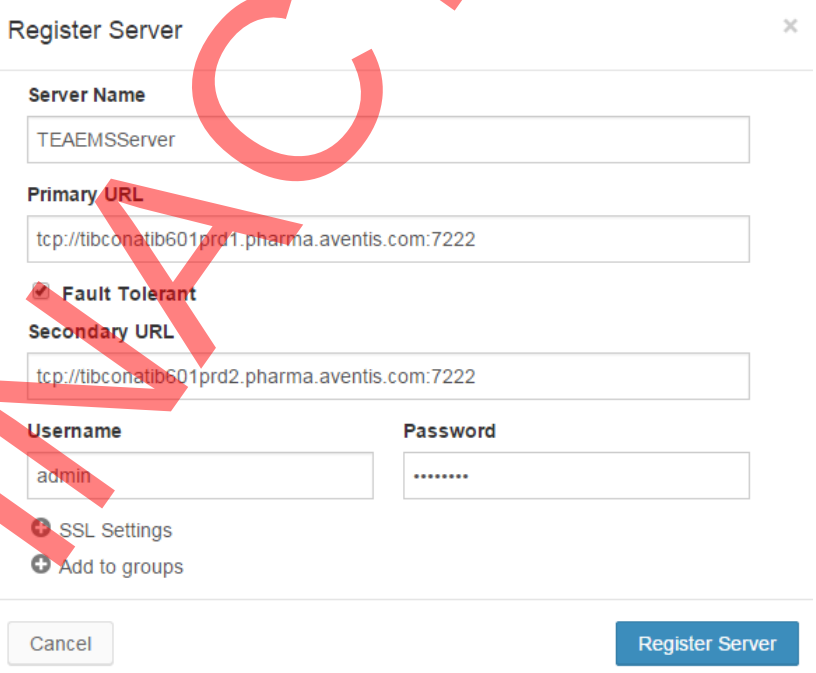




➔ EMS TEA Agent



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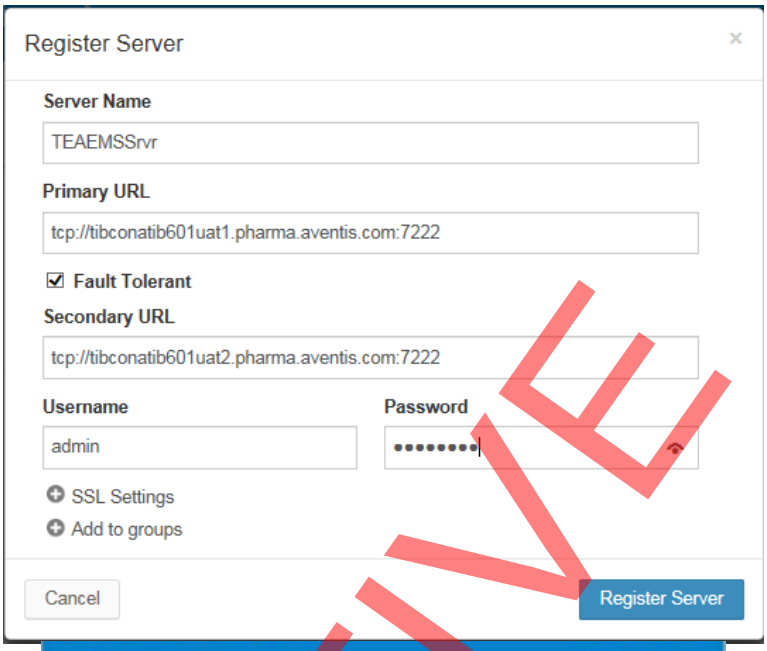

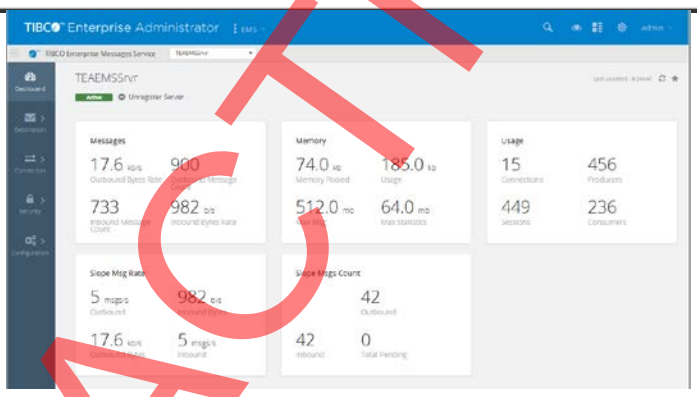

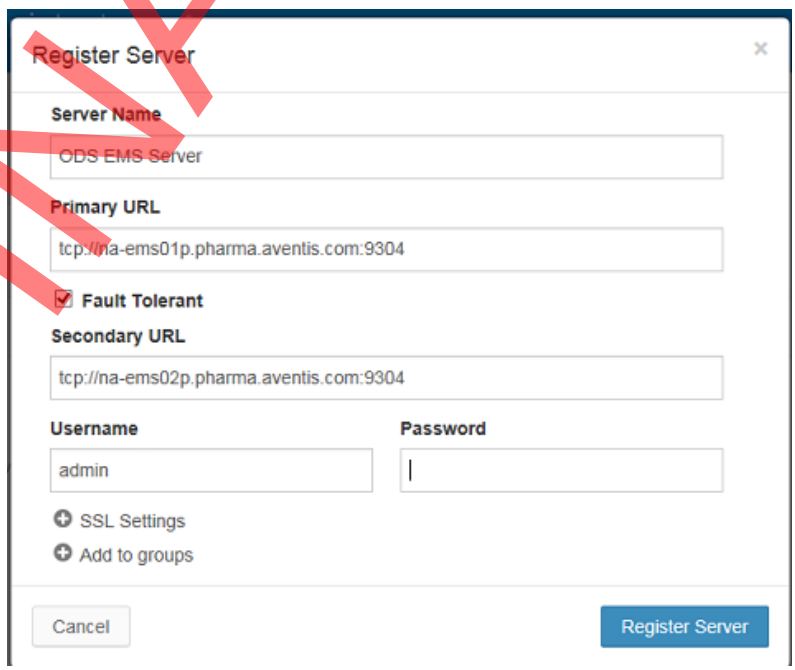

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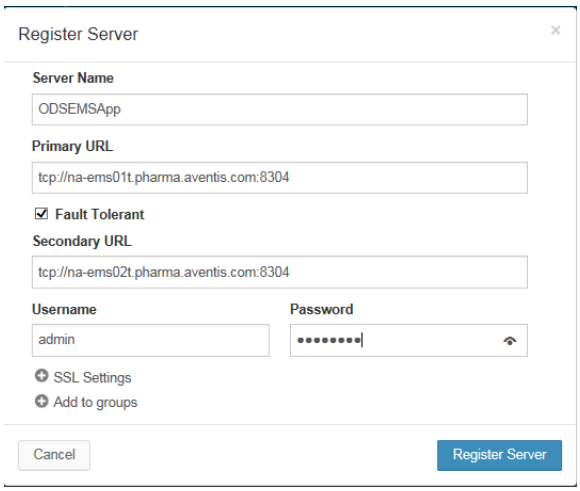

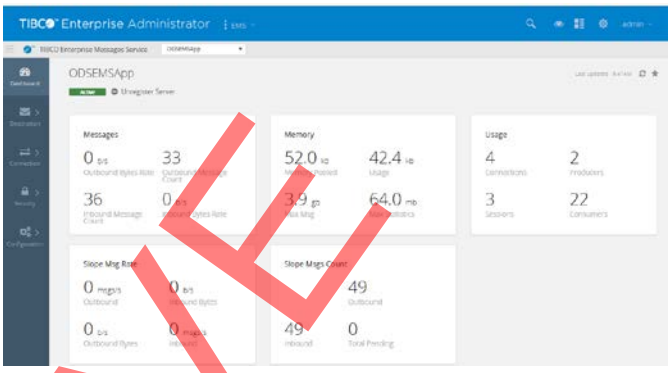

5.5.5. LDAP Configuration

5.5.5.1. VDS Certifiactes

On Windows TEA servers import the VDS certificates

5.5.5.2. Realm configuration

Using AD groups with PAM accounts

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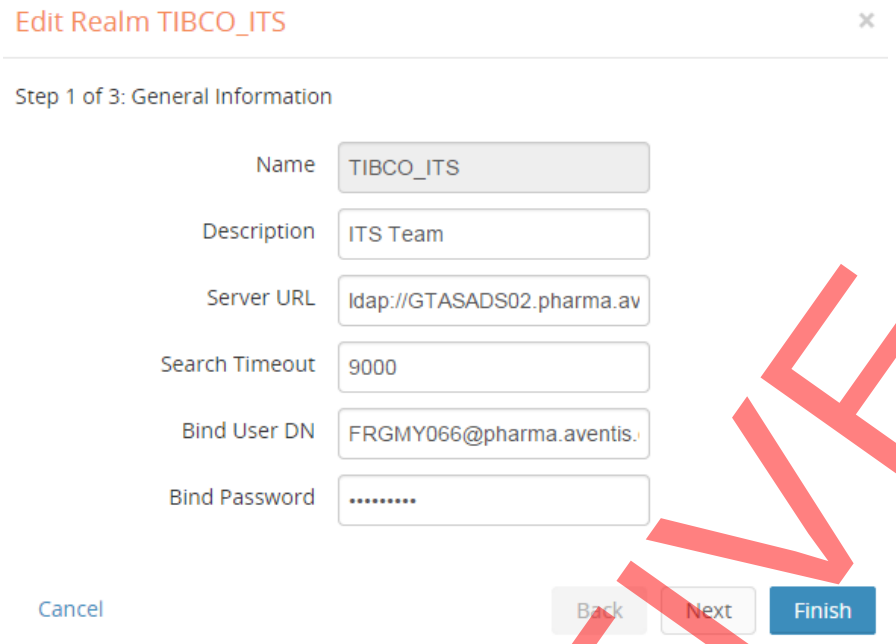
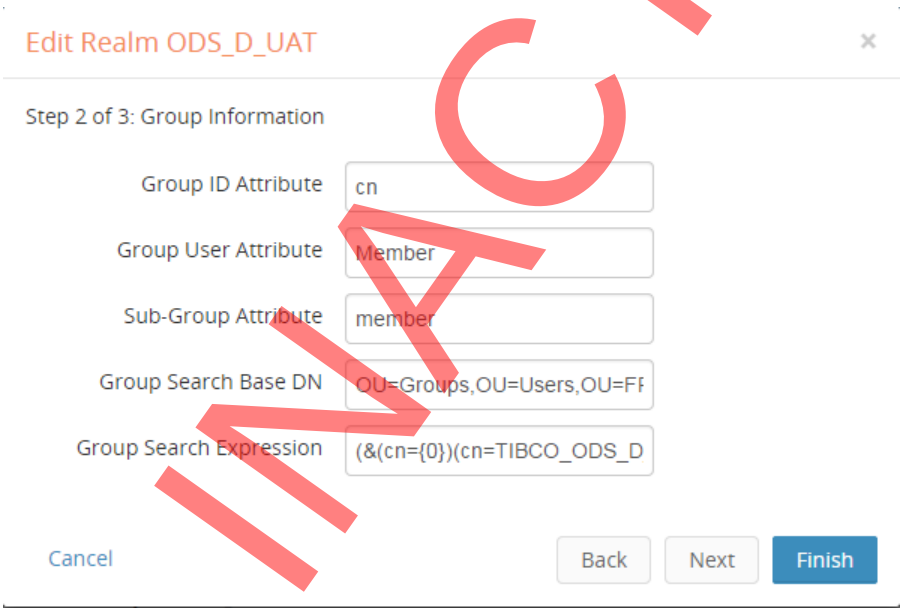


ldap://GTASADS02.pharma.aventis.com:389



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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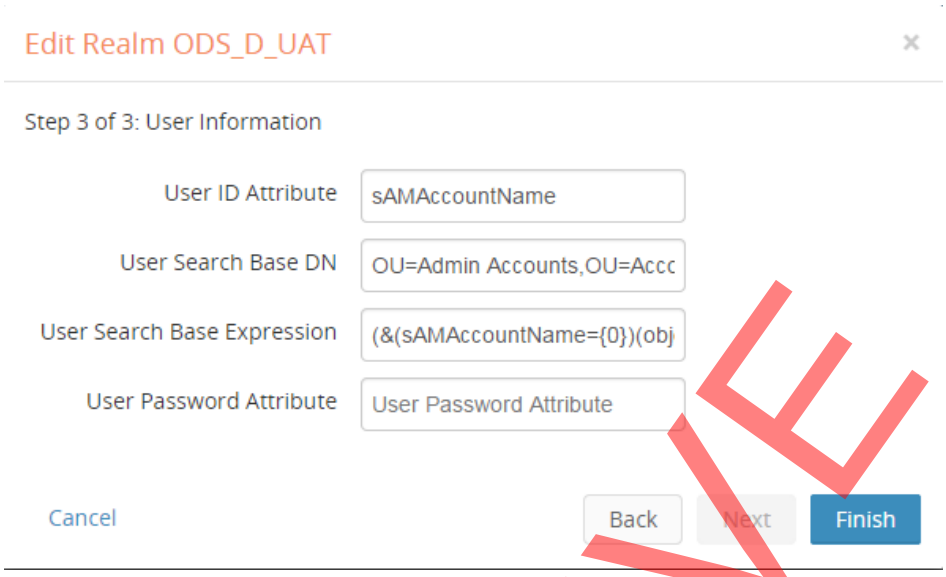
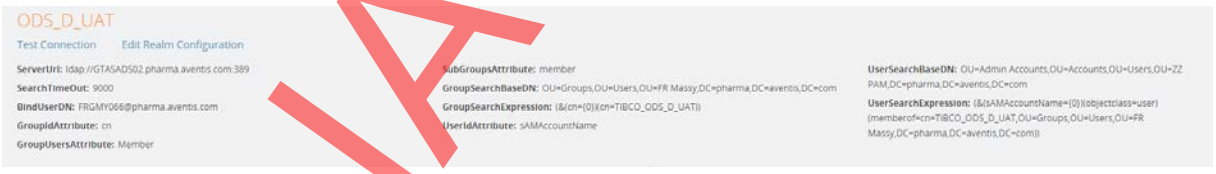


User ID Attribute : sAMAccountName

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))



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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-bw02lt.pharma.aventis.com


#---------------------------------------------------------------
# Section: Logging configuration.
#---------------------------------------------------------------
# logback Configuration file to be used by this agent
#logback.configurationFile=bwagent-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:bwadmindb
bw.agent.technology.dbems.db.connectionURL=jdbc:oracle:thin:@xsph10a039b.pharma.aventis.com:1526:O1T11512

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

# DB password
# Example: dbPassword=bwuser
bw.agent.technology.dbems.db.password=#!kk5nqwNaP/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/XHuk1EOeZwAK1qo1cQl0wgonWDo0gQC2NQzDU=

# EMS member queue
# Example: requestQueueName=bw6.admin.operations.queue.na6-bw02lt.pharma.aventis.com
bw.agent.technology.dbems.ems.requestQueueName=bw6.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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