JBEAM Installation Guide

Version 5.5.0

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1   Introduction

The purpose of this document is to explain the installation process of the JBEAM suite for ICD. This document, in a step by step format explains the deployment process of the following JBEAM components:-

1. PRE → Process Request Engine which is responsible to execute the JBEAM core.
2. Core-Comm → Core communication module responsible to transmit data to one and only one monitor-comm.
3. Monitor-Comm → Monitor communication module responsible to do handshakes with multiple core-comm.
4. Monitor-Services → Responsible to do handshakes with the desktop JBEAM UI application
5. JBEAM UI → The user interface for JBEAM.
6. Plug-ins → For database compatibility plug-ins are introduced for each java component.

The document explains how to install JBEAM as well as how to upgrade the existing JBEAM to a newer release.

MONITOR-COMM ⟩ CORE-COMM ⟩ PRE ⟩ MONITOR-SERVICES ⟩ JBEAM-UI ⟩ Deploy Project Specific Files ⟩

1.1   Pre-Requisites

In order to install all the above components following pre-requisites needs to be satisfied.

Environment	Developed	Minimum
Sun JAVA	1.6.0.14	1.6.0.14+
Oracle	10.2.0.4	10.2.0.4
OJDBC Driver	ojdbc14.jar	[1]Ojdbc14.jar
BIRT Report Runtime	3.7.2	3.7.2 or above http://download.eclipse.org/birt/downloads/

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[1] The driver must match to that of the database version. In other words, use the same JDBC driver that came along with Oracle database.

1.2 Installation Overview

There are in all 5 components of JBEAM. They are JBEAM Core, Core-Comm, Monitor-Comm, Monitor-Services and JBEAM UI. PRE and Core-Comm together is called the CORE installation of JBEAM. Whereas the Monitor-Services and Monitor-Comm together is called as the MONITOR installation. There are two installation considerations that must be considered before we commence the actual installation steps. They are namely One-Is-To-One and One-Is-To-Many. Each of these is explained below.

1.2.1 One-Is-To-One

When the MONITOR is configured to only one and one CORE then this installation is typically called as One-Is-To-One installation. The typical deployment diagram is as follows:
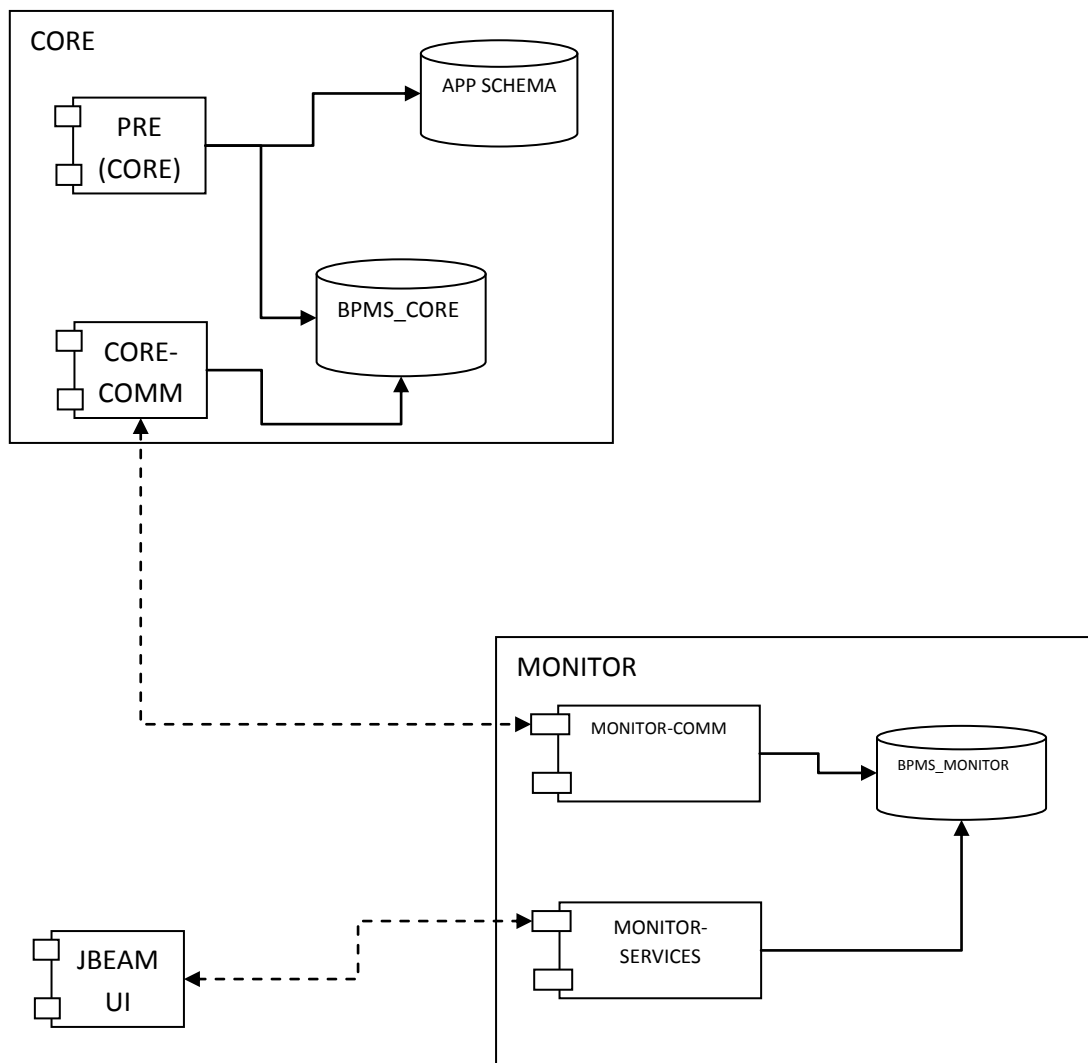
1.2.2 One-Is-To-Many

When the MONITOR is configured to more than one CORE then this installation is typically called as One-Is-To-Many installation. The typical deployment diagram is as follows:
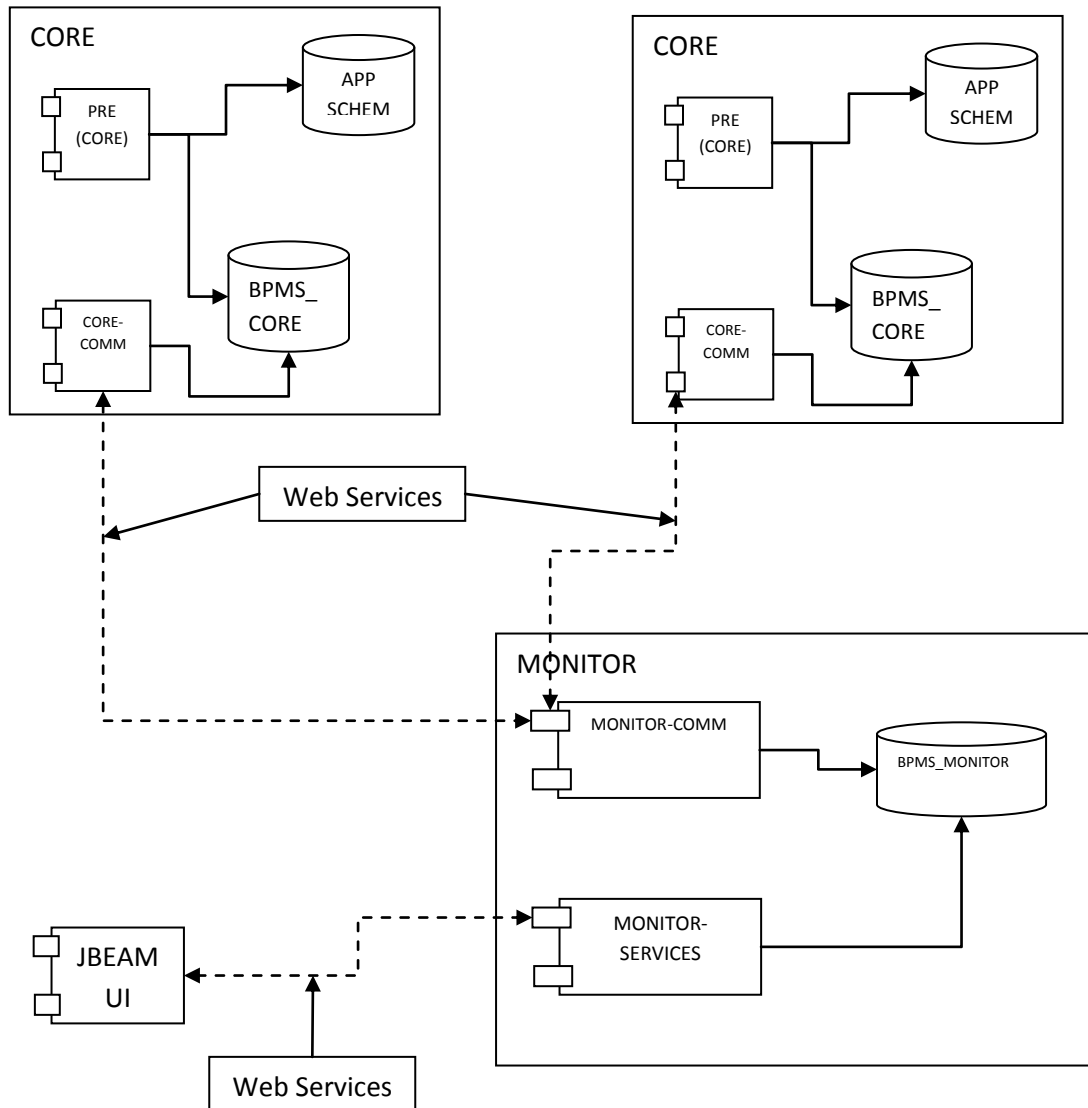
1.2.3 Considerations

In production it is recommended to have one MONITOR with one CORE but in non-production sites one MONITOR may talk with multiple CORE environments. The risk in having one MONITOR with multiple CORE is that if the MONITOR is down then the instructions cannot be transmitted to any CORE registered with it and vice-versa.

2   Install JBEAM

Over all installation of JBEAM consists of the installing following components. The arrow indicates which phase you are in and each phase is then sub divided into its own installation steps or activities that need to be performed.

2.1   MONITOR-COMM

The activities involved in installation of monitor-comm are as shown below. The following sections will guide you through the setup of monitor-comm.

2.1.1   Create OS User

Create OS user say 'jbeam'. We will use this user to install all the components of JBEAM. Also create a directory say 'jbeam'. We will install all our components in this directory.

2.1.2   Download

Download the file Distribution-zip (dist) (jbeam-monitor-comm-5.5.0-dist.zip) from the following Artifactory link. Create a directory 'monitor-comm' under the 'jbeam' directory created in step 2.1.1. Place the downloaded file in 'monitor-comm'.

Also download plug-in for monitor-comm based on database. Refer to 2.6.1 Download plug-ins.

In case the target OS is Unix/IBM AIX/SUN Solaris/LINUX FTP the zip file otherwise if the OS is Windows copy the zip file on to the jbeam directory.

2.1.3 Unzip / Extract

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Unzip the file that was downloaded in the previous step. It will create the following structure:
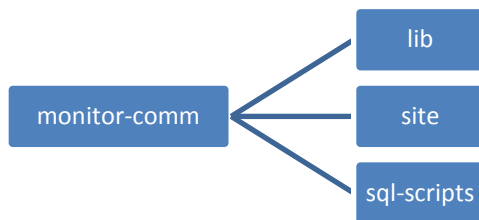
```
monitor-comm ── lib
             ── site
             ── sql-scripts
```

The parent folder consists of poolconfig.xml, log4j.properties and start and stop shell scripts and bat files. The site folder contains the Javadoc API, lib folder contains all the libraries used by the component and sql-scripts contain the SQL files that are required to do the initial setup of the component.

2.1.4 Update Properties

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

The poolconfig.xml file placed within the parent folder must be updated to reflect the correct database configuration that will be done in the next step. The properties such as user, password, url should be changed to the appropriate database schema setup.

2.1.5 Create Schema

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Create a blank schema say bpms_monitor.

| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | PLUGINS | Deploy Project Specific Files |

2.1.6 Execute SQLScripts

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Refer section 3.5.1 for execution of the scripts. As given in this section, directory paths must be created and should match the physical path. Following are the directory paths:

/jbeam/**purge/**

2.1.7 Start

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

> *Make sure that the jbeam user profile points to correct java home and the binary. If not change*

MS Windows:
1) Execute the start-monitor-comm.bat to start services in separate window.
2) Execute the monitor-comm-service.bat to start monitor-comm as Windows service.
   >monitor-comm-service.bat install

3) In case of upgradation of JBEAM, uninstall previous services and install latest as per step 2 above.

UNIX/ Linux:
Execute the shell script start-monitor-comm.sh

> *To stop execute the stop-monitor-comm.bat for Windows server or the shell script stop- monitor-comm.sh for Unix/Linux.*

| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | PLUGINS | Deploy Project Specific Files |

2.1.8 Verify

To verify, use nohup.out or logs/monitor-comm.log file.

| Create OS User | Download | Unzip | Update Properties | Create Schema | Execute SQL Scripts | Start | Verify |

Packaged On will change and will be higher than the one displayed below, though the version and the product name will be same.

<Wednesday Jan 18, 2012 01:44:19:611><NOTICE><main><Monitor-Comm>Product Name: "jbeam-monitor-comm" Version: "5.5.0" Packaged On "1326439120940"
<Wednesday Jan 18, 2012 01:44:20:929><INFO><main><com.stgmastek.monitor.comm.util.DAOFactory>To override the default CONFIG DAO implementations add the following system property and define your own class: jbeam-com.stgmastek.monitor.comm.server.dao.configdaoimpl=<fully qualified classname>. (Make sure that it is in the classpath as well)
<Wednesday Jan 18, 2012 01:44:21:049><INFO><main><com.stgmastek.monitor.comm.util.DAOFactory>To override the default BATCH DAO implementations add the following system property and define your own class: jbeam-com.stgmastek.monitor.comm.server.dao.batchdaoimpl=<fully qualified classname>. (Make sure that it is in the classpath as well)
<Wednesday Jan 18, 2012 01:44:24:434><NOTICE><main><Monitor-Comm>Setting the server's publish address to be https://172.16.209.93:10031/MonitorCommServices
<Wednesday Jan 18, 2012 01:44:24:434><NOTICE><main><Monitor-Comm>Starting services : MonitorCommServices
<Wednesday Jan 18, 2012 01:44:25:029><INFO><Thread-6><com.stgmastek.monitor.comm.util.OutBoundQueuePoller>No messages in the queue o_queue. Poller would poll again in next 15 seconds

| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | PLUGINS | Deploy Project Specific Files |

2.2   CORE-COMM

Installation of core-comm module consist of the following steps

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

2.2.1   Create OS User

> **Ignore this step if the OS user is already created and we are installing the core-comm component in the same OS.**

Create OS user say 'jbeam'. We will use this user to install all the components of JBEAM. Also create a directory say 'jbeam'. We will install all our components in this directory.

2.2.2   Download

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Download the file Distribution-zip (jbeam-core-comm-5.5.0-dist.zip) from the following Artifactory link. Create a directory 'core-comm' under the 'jbeam' directory created in step 2.2.1. Place the downloaded file in 'core-comm'.

Also download plug-in for core-comm based on database. Refer to 2.6.1 Download plug-ins.

> **In case the target OS is Unix/IBM AIX/SUN Solaris/LINUX FTP the zip file otherwise if the OS is Windows copy the zip file on to the jbeam directory.**

2.2.3   Unzip

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Unzip the jbeam-core-comm-5.5.0-dist.zip.
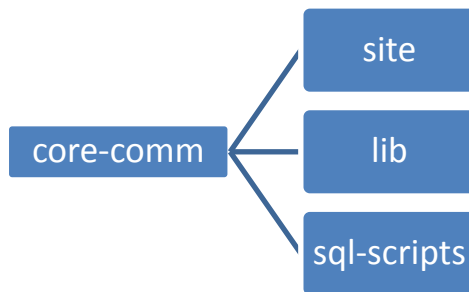
| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | Deploy Project Specific Files |

The above structure will get created. The parent folder consists of poolconfig.xml, log4j.properties and start and stop shell scripts and bat files. The site folder contains the Javadoc API, lib folder contains all the libraries used by the component and sql-scripts contain the SQL files that are required to do the initial setup of the component.

2.2.4 Update Properties

The poolconfig.xml file placed within the parent folder must be updated to reflect the correct database configuration that will be done in the next step. The properties such as user, password, URL should be changed to the appropriate database schema setup.

2.2.5 Create Schema

Create a blank schema say bpms_core.

2.2.6 Execute SQL Scripts

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

If you have executed the sql scripts in the PRE section then ignore the errors for tables process_request, process_request_schedule, process_req_params, schedule_event_calendar.

Refer section 3.5.1 for execution of the script. As given in this section directory paths must be created and should match the physical path. Following are the directory paths:

/jbeam/savepoint/

/jbeam/batch-logs/

/jbeam/reports/

/jbeam/purge/

2.2.7 Start

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Make sure that the jbeam user profile points to correct java home and the binary. If not change

Execute the start-core-comm.bat for Windows server otherwise execute the shell script start-core-comm.sh for Unix/Linux.

To stop execute the stop-core-comm.bat for Windows server or the shell script stop-core-comm.sh for Unix/Linux.

2.2.8 Verify

To verify, use nohup.out or logs/core-comm.log file.

| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | Deploy Project Specific Files |

Create OS User	Download	Unzip	Update Properties	Create Schema	Exeucte SQL Scripts	Start	Verify

Packaged On will change and will be higher than the one displayed below, though the version and the product name will be same.

```
<Thursday May 05, 2011 19:37:33:137><NOTICE><main><Core-Comm>Product Name: "JBEAM
Core Comm" Version: "V5.5.0" Packaged On "20110505 15:38:10"

<Thursday May 05, 2011
19:37:33:158><INFO><main><com.stgmastek.core.comm.util.DAOFactory>To override the
default CONFIG DAO implementations add the following system property and define
your own class: jbeam-com.stgmastek.core.comm.server.dao.configdaoimpl=<fully
qualified classname>. (Make sure that it is in the classpath as well)

<Wednesday Jan 18, 2012 01:50:57:130><NOTICE><main><Core-Comm>Product Name:
"jbeam-core-comm" Version: "5.5.0" Packaged On "1326438933869"

<Wednesday Jan 18, 2012
01:50:57:138><INFO><main><com.stgmastek.core.comm.util.DAOFactory>To override the
default CONFIG DAO implementations add the following system property and define
your own class: jbeam-com.stgmastek.core.comm.server.dao.configdaoimpl=<fully
qualified classname>. (Make sure that it is in the classpath as well)

<Wednesday Jan 18, 2012 01:51:02:350><NOTICE><main><Core-Comm>Setting the server's
publish address to be https://172.16.209.93:10032/CoreCommServices

<Wednesday Jan 18, 2012 01:51:02:350><NOTICE><main><Core-Comm>Starting services :
CoreCommServices

<Wednesday Jan 18, 2012 01:51:02:453><INFO><Thread-
5><com.stgmastek.core.comm.util.OutBoundQueuePoller>Total Messages in queue
waiting for transmission #00

<Wednesday Jan 18, 2012 01:51:02:453><INFO><Thread-
5><com.stgmastek.core.comm.util.BasePoller>No messages in the queue o_queue.
Poller would poll again in next 5 seconds
```

MONITOR-COMM	CORE-COMM	PRE	MONITOR-SERVICES	JBEAM-UI	Deploy Project Specific Files

2.3 PRE / JBEAM Core

Over all installation steps are provided below.

| Create OS User | Download | Unzip | Update Properties | Update Scripts | Create Schema | Exeucte SQL Scripts | Start | Verify |

2.3.1 Create OS User

> *Ignore this step if the OS user is already created and we are installing the core component in the same OS.*

| Create OS User | Download | Unzip | Update Properties | Update Scripts | Create Schema | Exeucte SQL Scripts | Start | Verify |

Create an OS user as 'jbeam'. This user will be the owner of all the components of JBEAM. Also, create a directory namely 'jbeam'. We will install all the components in this directory.

2.3.2 Download Release

| Create OS User | Download | Unzip | Update Properties | Update Scripts | Create Schema | Exeucte SQL Scripts | Start | Verify |

Download the file jbeam-core-5.5.0-Full-with-PRE30.zip from the Artifactory link. Create a directory 'PRE30' under the 'jbeam' directory created in step 2.3.1. **Place** the downloaded file in 'PRE30'.

Also download plug-in for jbeam-core based on database. Refer to 2.6.1 Download plug-ins.

> *In case, the OS is UNIX/LINUX/SUN SOLARIS/IBM AIX then FTP the zip otherwise if the OS is Windows then copy the file on to the jbeam directory.*

| MONITOR-COMM | CORE-COMM | PRE | MONITOR-SERVICES | JBEAM-UI | Deploy Project Specific Files |

2.3.3 Unzip

Create OS User → Download → Unzip → Update Properties → Update Scripts → Create Schema → Exeucte SQL Scripts → Start → Verify

Unzip the jbeam-core-5.5.0-Full-with-PRE30.zip under PRE30 folder. The following structure will get created.

```
                      site ──── pre
                      lib
PRE30  ◄──────────────resources
                      logs
                      requestfiles
```
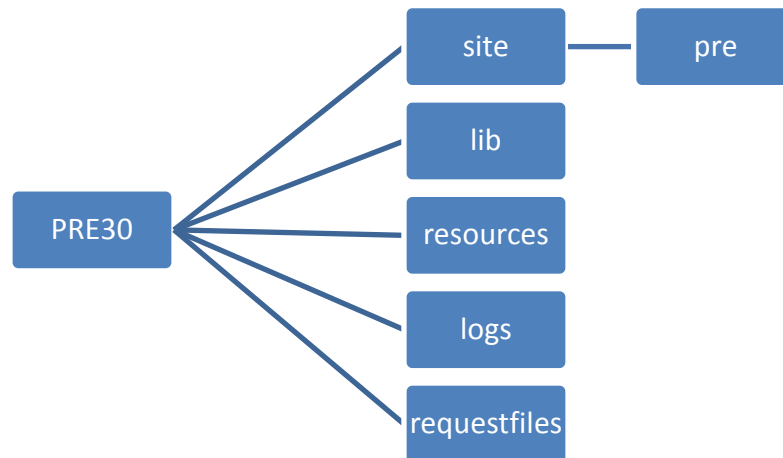
The site folder contains the javadoc associated with PRE. The lib folder contains all the desired library files of JBEAM, resources folder contains various property files for configuring PRE as well as JBEAM Core and the xml file for configuring the cluster. The base PRE30 directory also consists of start scripts, PRE-ChangeLog html, findbugs reports, PRE Readme htmls and PDF files for PRE.

Create folder 'batch-logs' under 'jbeam'.

Create folder 'savepoints' under 'jbeam'.

Create folder 'purge' under 'jbeam'.

Create folder 'reports' under 'jbeam'.

MONITOR-COMM → CORE-COMM → PRE → MONITOR-SERVICES → JBEAM-UI → Deploy Project Specific Files

2.3.4 Update Properties

Create OS User > Download > Unzip > Update Properties > Update Scripts > Create Schema > Exeucte SQL Scripts > Start > Verify

There are two types of property files namely the files that end with .properties extension as well as the files that end with .xml extension. There is a folder 'resources' where these configuration files are kept and one has to modify or update these files.

PRE 30 —— resources

2.3.4.1 Resources

The resources folder consist of the following files

prinit.properties

pr.properties

system.properties

jdbctype.properties

log4j.properties

mail.properties

No changes are required except for the property files system.properties and mail.properties unless there are special instructions from the project team.

2.3.4.2 system.properties

It has got three properties as described below. The one that is highlighted must be changed as per the value provided by the project team.

jbeam-com.stgmastek.core.dao.IAppDao.impl=<Change it to appropriate APP Dao implementation. Check with Project Team.>

e.g. For Billing, it would be :

jbeam-com.stgmastek.core.dao.IAppDao.impl=com.stgmastek.jbeam.billing.impl.BillingAppDao

MONITOR-COMM > CORE-COMM > PRE > MONITOR-SERVICES > JBEAM-UI > Deploy Project Specific Files

2.3.4.3 mail.properties

This file requires input for 5 properties as described below.

SMTPserver =<Change it to appropriate SMTP IP according to project.>

senderaddress=<Change it to appropriate email address according to project.>

This address will be used in jbeam to send emails regarding batch start/stop and other warnings.

e.g. for project 'ABC', it should be jbeam-abc@mastek.com. In production, it should be on client name, ie. jbeam@<client-name>.com

Identify the recipients for this mailer (TO).

Following will be the recipients who will get the emails from senderaddress.

recepientTO=<Change it to appropriate email addresses according to project.>

monitor.normal.recepientTO=<Change it to appropriate email addresses according to project.>

 monitor.critical.recepientTO=<Change it to appropriate email addresses according to project.>

2.3.4.4 poolconfig.xml

Create OS User → Download → Unzip → Update Properties → Update Scripts → Create Schema → Exeucte SQL Scripts → Start → Verify

The poolconfig.xml file defines the connection pooling properties. Please make sure that you do not change the pool name but change the URL, user and password properties to point to the correct database schema. The schema is explained below in create schema step. The maximum capacity defines the number of threads that can be spawned. Though the number of threads is ideally defined in pr.properties file, the maximum capacity must be equal to or more than that of the threads.

Do not change the pool names but just the properties.

MONITOR-COMM → CORE-COMM → PRE → MONITOR-SERVICES → JBEAM-UI → Deploy Project Specific Files

2.3.4.5 Hazelcast.xml

This file is used for defining cluster configuration of PRE. The following structure is the representation of the file.

```xml
<hazelcast>

    <group>

        <name>UniqueNamePerInstallation</name>

        <password>ToBeChanged</password>

    </group>

    <network>

    <port auto-increment="true">5701</port>

    <join>

        <multicast enabled="false">

            <multicast-group>224.2.2.3</multicast-group>

            <multicast-port>54327</multicast-port>

        </multicast>

        <tcp-ip enabled="true">

            <interface>127.0.0.1</interface>

        </tcp-ip>

    </join>

    <interfaces enabled="false">

        <interface>10.10.1.*</interface>

    </interfaces>

    …

    </network>

    …
```

This identifies the unique name for this installation. If you have two PRE's configured in a cluster mode then both the hazelcast.xml files group name and password must match.

Remember that the group name must always be unique across all the installations of PRE on that machine.

If tcp-ip is enabled then add all the participating server IP address here. Or if it is false then enable the multicast to true. Either of the tcp-ip or multicast should be enabled.

For configuring the *Hazelcast* to persist the data please go through the *Hazelcast* documentation on enabling the session persistence from the site www.hazelcast.com.

MONITOR-COMM → CORE-COMM → PRE → MONITOR-SERVICES → JBEAM-UI → Deploy Project Specific Files

2.3.5 Update Scripts

The shell scripts or if windows .bat files must be changed to make sure that SCHEDULER_HOME is pointing to that of the install directory of PRE.

2.3.6 Create Schema

Please ignore this step is the schema of bpms_core is already created using the step

Create a blank schema say bpms_core.

2.3.7 Execute SQL Scripts

Import the OBJECT_MAP and META_DATA scripts from project team and run in bpms_core schema.

Please ignore this section if the core-comm schema and sql scripts have been executed. This section is provided only for installing PRE.

Refer section 3.5.1 for execution of the script.

2.3.8 Start PRE

Create OS User → Download → Unzip → Update Properties → Update Scripts → Create Schema → Exeucte SQL Scripts → Start → Verify

> 📌 ***Make sure that the jbeam user profile points to correct java home and the binary. If not change***

Now that the setup is complete execute the shell scripts for UNIX/LINUX/AIX or execute bat files for windows.

startEng.sh or startEng.bat is used for starting the PRE.

stopEng.sh or stopEng.bat is used for stopping the PRE in a safe mode.

> 📌 ***We must run this shell script from the O.S owner which owns the jbeam folders. Before we start the PRE services.***

2.3.9 Verify

Create OS User → Download → Unzip → Update Properties → Update Scripts → Create Schema → Exeucte SQL Scripts → Start → Verify

Refer to the appendix section for details about verification. 4.1 PRE Verification

This completes the PRE or JBEAM core setup.

MONITOR-COMM → CORE-COMM → PRE → MONITOR-SERVICES → JBEAM-UI → Deploy Project Specific Files

2.4   Monitor Services

The overall process or steps for installation of monitor services are as given below.

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

2.4.1   Create OS User

Ignore this step if we are going to use the same OS user as created in section 2.1.1

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Create OS user say 'jbeam'. We will use this user as the owner of all components of jbeam. Also, create directory say 'jbeam' where we will install all our components.

2.4.2   Download

| Create OS User | Download | Unzip | Update Properties | Create Schema | Exeucte SQL Scripts | Start | Verify |

Download the file Distribution-zip (dist) (jbeam-monitor-services-5.5.0-dist.zip) from the following Artifactory link. Create a directory 'monitor-services' place it in the 'jbeam' directory created in step 2.4.1 . Place the downloaded file in 'monitor-services'.

Also download plug-in for monitor-services based on database. Refer to 2.6.1 Download plug-ins.

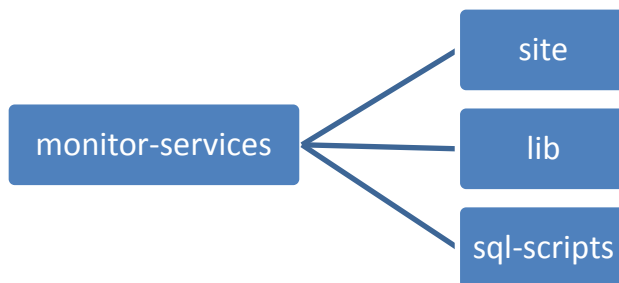**_In case, the OS is UNIX/LINUX/SUN SOLARIS/IBM AIX then FTP the zip otherwise if the OS is Windows then copy the file on to the jbeam directory._**

| PRE | CORE-COMM | MONITOR-COMM | MONITOR-SERVICES | JBEAM-UI | Deploy Project Specific Files |

2.4.3 Unzip or Extract

Unzip the jbeam-monitor-services-5.5.0-dist.zip.

The above structure will get created. The parent folder has got shell/bat scripts for starting of monitor-services and for stopping it. The site folder contains the API javadoc, lib folder contains all the libraries used by the component and sql-scripts contain the sql files that are required to do the initial setup of the component.

2.4.4 Update Properties

The poolconfig.xml file placed within the parent folder must be updated to reflect the correct database configuration that will be done in the next step. The properties such as user, password, url should be changed to the appropriate database schema setup.

2.4.5 Create Schema

> 📌 **_Please ignore this step if the bpms_monitor schema is already created._**

Create OS User	Download	Unzip	Update Properties	Create Schema	Exeucte SQL Scripts	Start	Verify

Create a blank schema say bpms_monitor.

2.4.6 Execute SQL Scripts

> 📌 **_Please ignore this step if the monitor-comm sql scripts are executed and directory path are created. By executing these the monitor-services configuration is also done with._**

Create OS User	Download	Unzip	Update Properties	Create Schema	Exeucte SQL Scripts	Start	Verify

Refer section 0 for execution of the scripts. As given in this section, directory paths must be created and should match the physical path. Following are the directory paths:

/jbeam/purge/

2.4.7 Start the Service

Create OS User	Download	Unzip	Update Properties	Create Schema	Exeucte SQL Scripts	Start	Verify

> 📌 **_Make sure that the jbeam user profile points to correct java home and the binary. If not change_**

Execute the bat file start-monitor-services.bat for Windows otherwise execute the shell script start-monitor-services.sh for Unix/Linux.

PRE	CORE-COMM	MONITOR-COMM	MONITOR-SERVICES	JBEAM-UI	Deploy Project Specific Files

📌   **To stop execute the stop-monitor-services.bat for Windows server or the shell script stop- monitor-services.sh for Unix/Linux.**

2.4.8 Verify

To verify, use nohup.out or logs/monitor-services.log file.

Create OS User ▸ Download ▸ Unzip ▸ Update Properties ▸ Create Schema ▸ Exeucte SQL Scripts ▸ Start ▸ **Verify**

Packaged On will change and will be higher than the one displayed below, though the version and the product name will be same.

<Wednesday Jan 18, 2012 01:47:37:045><NOTICE><main><Monitor-Services>Product Name: "jbeam-monitor-services" Version: "5.5.0" Packaged On "1326439298008"

<Wednesday Jan 18, 2012 01:47:37:055><INFO><main><com.stgmastek.monitor.ws.util.DAOFactory>To override the default CONFIG DAO implementations add the following system property and define your own class: jbeam-com.stgmastek.monitor.ws.server.dao.configdaoimpl=<fully qualified classname>. (Make sure that it is in the classpath as well)

<Wednesday Jan 18, 2012 01:47:38:523><INFO><main><com.stgmastek.monitor.ws.util.DAOFactory>To override the default MONITOR DAO implementations add the following system property and define your own class: jbeam-com.stgmastek.monitor.ws.server.dao.monitordaoimpl=<fully qualified classname>. (Make sure that it is in the classpath as well)

<Wednesday Jan 18, 2012 01:47:41:874><NOTICE><main><Monitor-Services>Server's published address is http://172.16.209.93:15265/MonitorServices

<Wednesday Jan 18, 2012 01:47:41:874><NOTICE><main><Monitor-Services>Started services : MonitorServices

PRE ▸ CORE-COMM ▸ MONITOR-COMM ▸ **MONITOR-SERVICES** ▸ JBEAM-UI ▸ Deploy Project Specific Files

2.5   JBEAM AIR Installation

MONITOR-COMM → CORE-COMM → PRE → MONITOR-SERVICES → JBEAM-UI → PLUGINS → Deploy Project Specific Files

The following steps are required to install the desktop based rich client JBEAM UI.

2.5.1   Download the JBEAM-5.5.0.air file.

Download → Install AIR → Install JBEAM → Configure Server

Download the file jbeam-5.5.0.air from the following SVN link and place it any directory on your machine ideally desktop so that it can easily relocated.

https://ind-mhp1v51lnx09.mastek.com/svn/ToolsRepository/Batch/Projects/03.Releases/Release-5.5.0

For QTP, download jbeam-5.5.0-QTP.air from above mentioned SVN link.

Download the Adobe AIR Installer file. The installer file can be downloaded from the following URL:-

http://get.adobe.com/air/

Save the file in a location say on the desktop.

PRE → CORE-COMM → MONITOR-COMM → MONITOR-SERVICES → JBEAM-UI → PLUGINS → Deploy Project Specific Files

Home / Downloads / Adobe AIR /

Adobe AIR

Adobe AIR 2.5.1 (12.09 MB)

Your system:Windows, English
Different operating system?

Learn more | System requirements | Distribute Adobe AIR
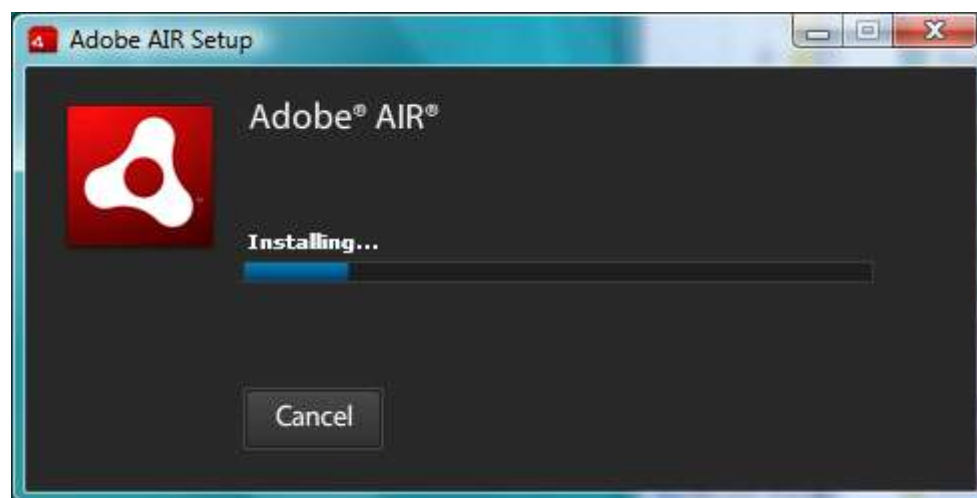
⬇ Download now

You may have to temporarily disable your antivirus software.
By clicking the Download Now button, you acknowledge you have read and agree to the Software Licensing Agreement.

NOTE: Please shutdown the Antivirus software (if required).

2.5.2 Install

Download > Install AIR > Install JBEAM > Configure Server

After the completion of the download, "double click" the file to start the installation:-

Adobe AIR Setup

Adobe® AIR®

Installing...

Cancel

PRE > CORE-COMM > MONITOR-COMM > MONITOR-SERVICES > JBEAM-UI > PLUGINS > Deploy Project Specific Files

2.5.3   Install Jbeam-5.5.0.AIR.

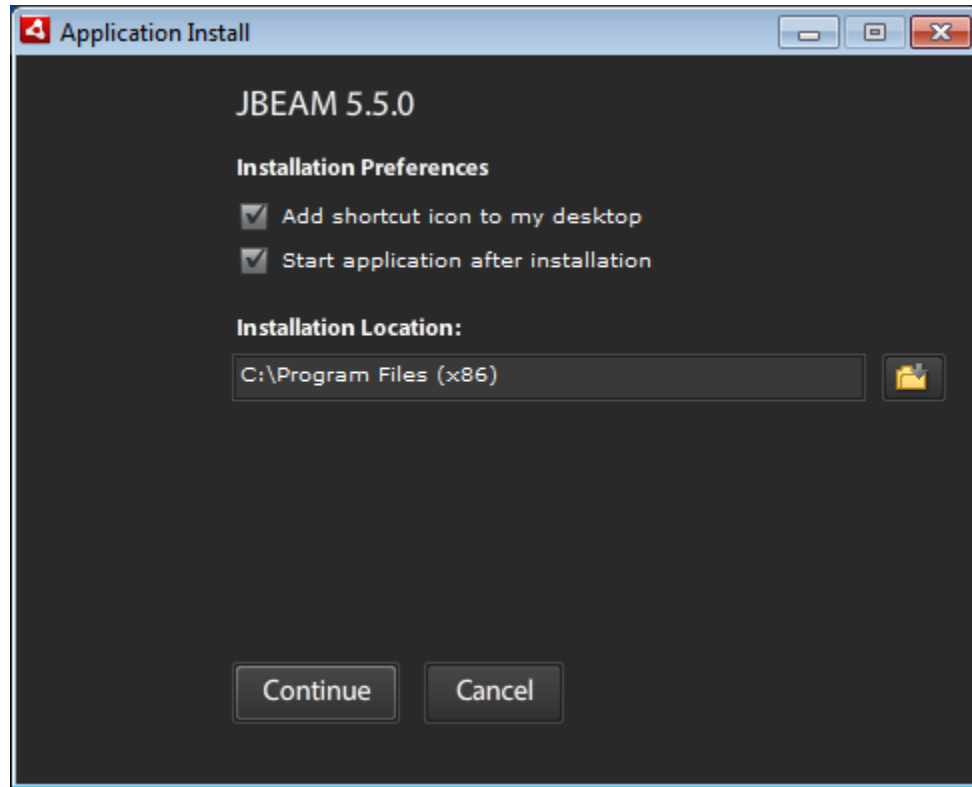| Download | Install AIR | Install JBEAM | Configure Server |

"Double click" the Jbeam-5.5.0.air file to start the installation. By default it will get installed within the c:\Program Files.
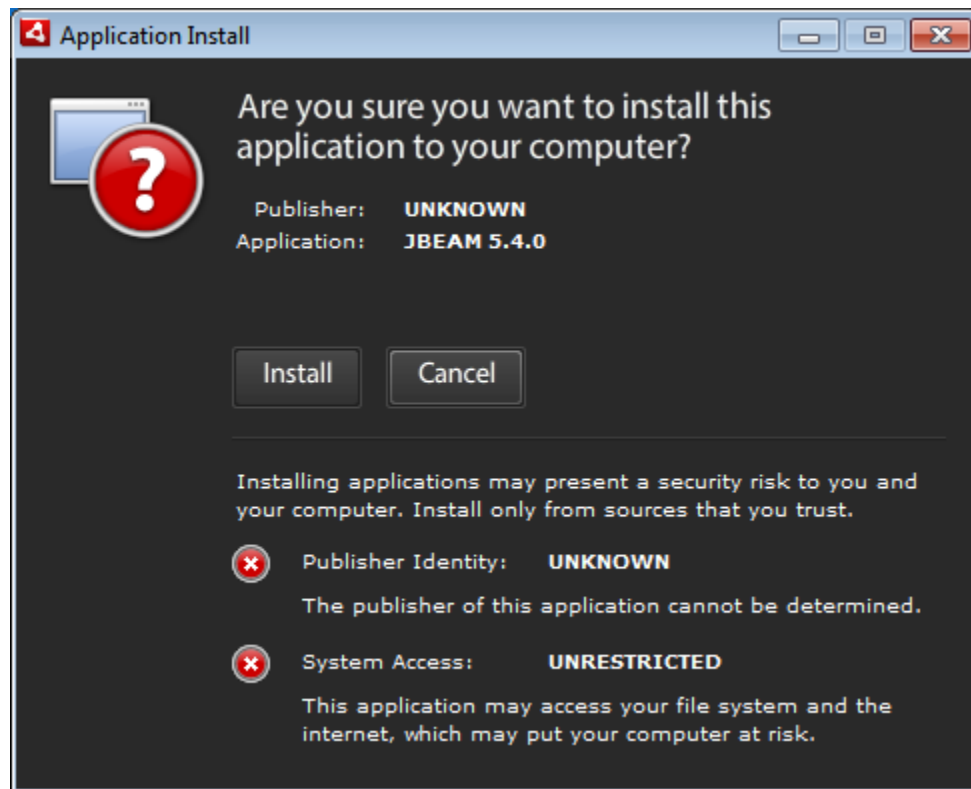
Click on 'Install' and the following screen will appear. Click on 'Continue' to start the installation.

| PRE | CORE-COMM | MONITOR-COMM | MONITOR-SERVICES | JBEAM-UI | PLUGINS | Deploy Project Specific Files |

The installation of JBEAM 5.5.0 should finish in less than a minute.

2.5.4 Configure the server.

Click on the link "Configure Server". It will open up the Add Server page.

The Add server page helps us to add a Jbeam server to the list. Click on the "Add" button after specifying the correct values for the following parameters:-
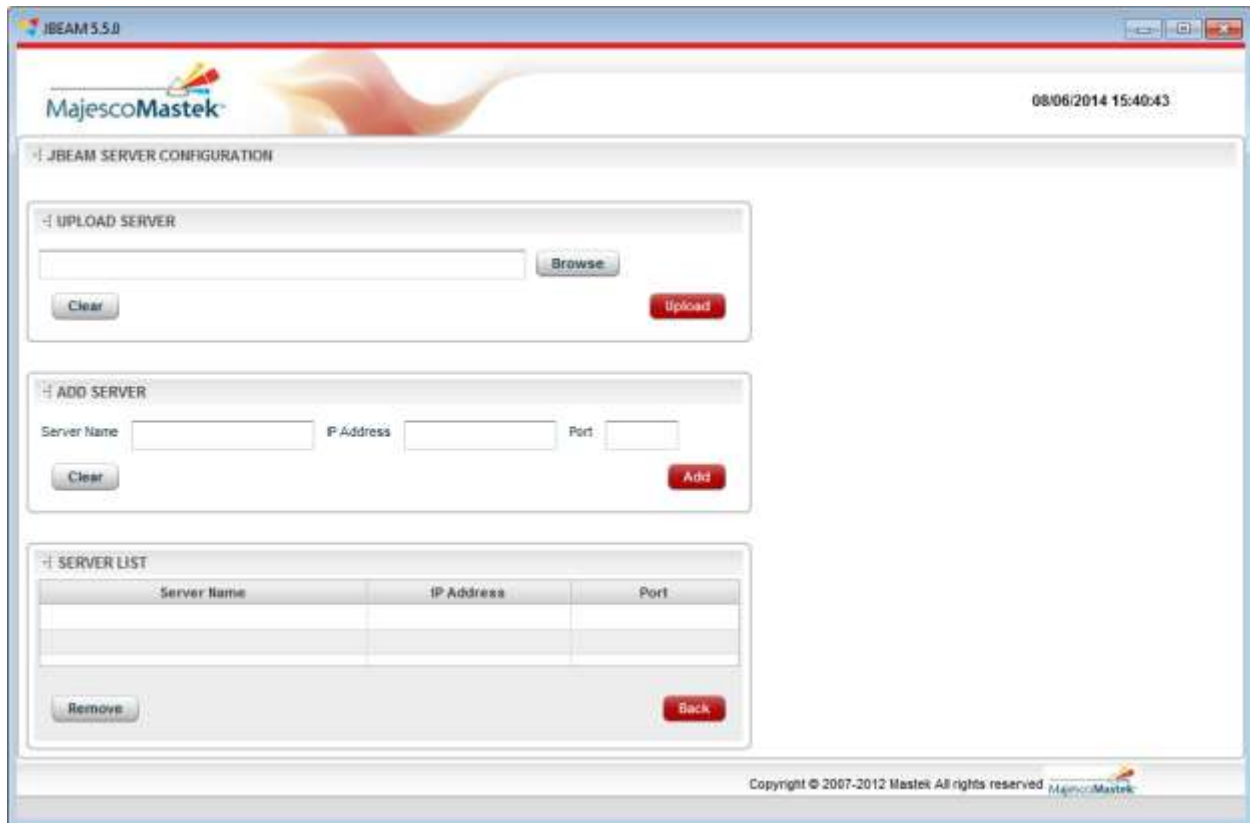
Server Name : Any unique name e.g. "STG DEMO"

IP Address : I.P address of the server on which Jbeam has been installed. (e.g. 172.16.209.165)

Port : 15235 (default port)

The IP address and the PORT should be same as published by the TIS team.

Download	Install AIR	Install JBEAM	Configure Server

Once the Jbeam server has been added to the list, we should now be able to connect to the server (select "Country POC" from the drop down) using the following credentials:-

Userid: jbeam

Password: test123

PRE	CORE-COMM	MONITOR-COMM	MONITOR-SERVICES	JBEAM-UI	PLUGINS	Deploy Project Specific Files

2.6 PLUG-INs

2.6.1 Download plug-ins

This release contains jbeam components with SQL server and PostGre Server compatibility along with Oracle. To implement the functionality plugins are provided. Refer to following table and download the plugin based on database and deploy in \lib folder of respective component.

	Oracle	SQL server	PostGre
Monitor-Comm	jbeam-monitor-comm-oracle-5.5.0.jar	jbeam-monitor-comm-mssql-5.5.0.jar	jbeam-monitor-comm-postgre-5.5.0.jar
Core Comm	jbeam-core-comm-oracle-5.5.0.jar	jbeam-core-comm-mssql-5.5.0.jar	jbeam-core-comm-postgre-5.5.0.jar
PRE	jbeam-core-oracle-5.5.0.jar	jbeam-core-mssql-5.5.0.jar	jbeam-core-postgre-5.5.0.jar
Monitor Services	jbeam-monitor-services-oracle-5.5.0.jar	jbeam-monitor-services-mssql-5.5.0.jar	jbeam-monitor-services-postgre-5.5.0.jar

This completes the JBEAM installation. Though remember that the framework has been installed now the project specific files must be deployed. Refer to the next section for further details.

2.7 Deploy Project Specific Resources

The following steps are defined as a precaution from the installation perspective and that these may or may not be accompanied during the installation. But it is necessary for the installation manager to ask the details to the project manager who requested to install JBEAM.

SQL Scripts → JAR files → Properties

2.7.1 SQL Scripts

The SQL scripts should be taken from the project team for any updates on the default values. Please publish the installation code to the project team and/or otherwise update the existing installation code from the given script file if that differs from the one used above.

2.7.2 JAR Files

Make sure that you request for any additional jar files from the project team and then deploy them in the PRE lib folder.

2.7.3 Properties

There might be additional properties that might be required to be added in the PRE properties or any other component of the JBEAM. Make sure that you ask for these values.

PRE → CORE-COMM → MONITOR-COMM → MONITOR-SERVICES → JBEAM-UI → PLUGINS → Deploy Project Specific Files

3   Upgrade from Previous Version

Specifically Highlighted

This section documents the procedure for upgrading the older versions namely 5.0.7 or 5.1.2 or 5.3.0 or 5.4.0 of JBEAM to 5.5.0. The following steps are involved in upgrading.

Download > Unzip > Update Properties > Exeucte SQL Scripts > Update Libraries > Install JBEAM UI > Start > Verify

3.1   Assumptions

- It is assumed that the OS user namely jbeam is already created. If it is different then please use that user instead of jbeam.

- It is assumed that folder jbeam is created and within which all the installations are carried out. If the folder name is different, then please make use of that folder.

- It is assumed that two schemas bpms_core and bpms_monitor (schema names can be different) are created for jbeam and has the table structures as required by previous version of jbeam.

3.2   Download

Download > Unzip > Update Properties > Exeucte SQL Scripts > Update Libraries > Install JBEAM UI > Start > Verify

jbeam-5.5.0.air **file must be passed on to the developer team for their individual desktop installation.**

In case the OS is UNIX/Linux/AIX/SOLARIS then ftp the downloaded files or in case of windows then copy the downloaded files and place them in jbeam directory.

links are given in following section 3.3

Download JBEAM components from the artifactory as given in following list:

1) jbeam-core-5.5.0-Full-With-PRE30

2) jbeam-monitor-comm-5.5.0

3) jbeam-core-comm-5.5.0

Download > Unzip > Update Properties > Exeucte SQL Scripts > Update Libraries > Install JBEAM UI > Start > Verify

4) jbeam-monitor-services-5.5.0 and

5) jbeam-5.5.0.air

3.3 Unzip or Extract

Unzip the downloaded files in respective folders as shown in the following table:

Component	Folder	Zip file
PRE	PRE30	jbeam-core-5.5.0-Full-with-PRE30.zip
Core Comm	core-comm	jbeam-core-comm-5.5.0-dist.zip
Monitor Comm	monitor-comm	jbeam-monitor-comm-5.5.0-dist.zip
Monitor services	monitor-services	jbeam-monitor-services-5.5.0-dist.zip

Create the above mentioned folders under existing jbeam folder. Move the earlier version components to backup.

Also download plug-ins for each component. Refer to 2.6.1 Download plug-ins.

3.4 Update Properties

3.4.1 Monitor-Comm

Update the properties of poolconfig.xml as per the earlier version of monitor-comm that was installed. Compare the shell scripts for start and stop of monitor comm for any changes with respect to old version. If differences found which are over and above the base script provided with 5.5.0 then make sure that those changes are copied over.

3.4.2 Core-Comm

Update the properties of poolconfig.xml as per the earlier version of core comm that was installed. Compare the shell scripts for start and stop of core comm for any changes with respect to old version.

If differences found which are over and above the base script provided with 5.5.0 then make sure that those changes are copied over.

3.4.3 Monitor-Services

Update the properties of poolconfig.xml as per the earlier version of monitor-services that was installed. Compare the shell scripts for start and stop of monitor services for any changes with respect to old version. If differences found which are over and above the base script provided with 5.5.0 then make sure that those changes are copied over.

3.4.4 PRE

Compare the shell scripts for start and stop of PRE from the previous installation and if there are any extra statements found then add them in the shell scripts.

3.4.4.1 Compare the properties file

Compare the property files for changes which are not present in the new property files such as prinit.properties, pr.properties, system.properties, jdbctype.properties, log4j.properties, mail.properties. If there is any new file not present in the current installation then copy over the same in the new environment and also make sure that corresponding entry is made in prinit.properties.

Compare the hazelcast.xml file and make sure that you make similar changes in the new installation to match that of old. If there are any additional properties found in new do not delete them as they would be required for the new upgrade.

3.4.4.2 Poolconfig.xml

Update the properties of poolconfig.xml as per the earlier version of PRE that was installed.

| Download | Unzip | Update Properties | Exeucte SQL Scripts | Update Libraries | Install JBEAM UI | Start | Verify |

3.5 Execute SQL Scripts

The SQL scripts include the DDL statements for tables, sequences and triggers. It is advised to check all the required objects if created successfully in respective schema. If any error comes while running the script, it should be reported to DBASupport@majescomastek.com / tsg_prod@mastek.com .

3.5.1 BPMS_CORE Schema

Get the scripts as given table below from core-comm directory. Connect to the schema bpms_core for execution of any of these scripts.

	Oracle (\sql-scripts)	SQL Server (\sql-server-scripts)
New Installation	Core_Complete.sql	SQLServer-Core_Complete.sql
Upgradation	Core_Incremental.sql	SQLServer-Core_Incremental.sql

The Core_Complete.sql script will provide prompts for required data. Keep the data ready and fill it accordingly. This will create the required tables, triggers, sequences and data. Check all the tables once after creation.

📌 **The data provided is sample data.**

📌 **Port can be any number above 10000 and should not conflict with existing ports on the machine**

Following is sample data required for this schema:

```
installationCode=STGBilling

      (The desired name of the installation maxLimit (10 char). Needs to be same in
      monitor schema)

Birt_Runtime_Logs_Path=/jbeam/birt-runtime-2_5_2/logs/

Critical_Email_Ids=Mandar.Vaidya@mastek.com

Notification_Group_Email_Ids=Mandar.Vaidya@mastek.com

High_Email_Ids=Mandar.Vaidya@mastek.com
```

```
Low_Email_Ids=Mandar.Vaidya@mastek.com
```

```
Medium_Email_Ids=Mandar.Vaidya@mastek.com
```

📌 ***The directory paths must be created and should match the physical path.***

```
Savepoints_Path=/jbeam/savepoint/
```

```
Batch_Logs_Path=/jbeam/batch-logs/
```

```
installation_IP_Port=172.16.210.46:11001
```

```
        (IP and port for core-comm / Installation_WS. Needs to be same in monitor
        schema)
```

```
monitor_Comm_IP_Port=172.16.210.46:11002
```

```
        (IP and port for monitor-comm / monitor_ws. Needs to be same in monitor schema)
```

```
birt_Runtime_ReportEngine_Path=/jbeam/birt-runtime-2_5_2/reportengine/
```

```
reports_Path=/jbeam/reports/
```

```
retain_Days=150
```

```
backup_Dir_Path=/jbeam/purge/
```

```
installation_Desc=STGBilling (Needs to be same in monitor schema)
```

```
ICD_End_Point_URL=http://172.16.210.46:8080
```

```
ICD_Service_UserId=csr1
```

```
ICD_Service_Password=icd123
```

Download → Unzip → Update Properties → Exeucte SQL Scripts → Update Libraries → Install JBEAM UI → Start → Verify

3.5.2 BPMS_MONITOR Schema

Download → Unzip → Update Properties → Exeucte SQL Scripts → Update Libraries → Install JBEAM UI → Start → Verify

Get the scripts as given table below from monitor-comm directory. Connect to the schema bpms_monitor for execution of any of these scripts.

	Oracle(\sql-scripts)	SQL Server (\sql-server-scripts)
New Installation	Monitor_Complete.sql	SQLServer-Monitor_Complete.sql
Upgradation	Monitor_Incremental.sql	SQLServer-Monitor_Incremental.sql

The Monitor_Complete.sql script will provide prompts for required data. Keep the data ready and fill it accordingly. This will create the required tables, triggers, sequences and data. Check all the tables, sequences and triggers after creation.

The data provided is sample data.

Port can be any number above 10000 and should not conflict with existing ports on the machine

Following is sample data required for this schema:

```
Installation_code=STGBilling

      (Needs to be same in core schema)

installation_desc=STGBilling

      (Needs to be same in core schema)

installation_Shortform=STGBilling (For providing sender address)

installation_IP_Port=172.16.210.46:11001

      (IP and port for core-comm / INSTALLATION_WS. Needs to be same in core schema)

monitor_Comm_IP_Port=172.16.210.46:11002

      (IP and port for monitor-comm / MONITOR_WS. Needs to be same in core schema)

monitor_Services_IP_Port=172.16.210.46:11550
```

Download → Unzip → Update Properties → Exeucte SQL Scripts → Update Libraries → Install JBEAM UI → Start → Verify

(IP and port for MONITOR_UI_WS to be used by JBEAM UI)

SMTP_Server=172.16.210.46

(IP address of working SMTP server)

purge_Dir_Path=/jbeam/purge/

Download → Unzip → Update Properties → Exeucte SQL Scripts → Update Libraries → Install JBEAM UI → Start → Verify

3.6 Update Libraries

3.6.1 PRE

Compare the old installation lib folder with that of the new one.

Do not copy the libraries that start with same name but have lower version numbers associated with it on to the new installation.

Do not copy files that have same names.

Copy all library files that do not match the above two criterions on to the new installation PRE30/lib folder. Example library files would be jbeam-impl.jar and coreprint.jar but not limited to these.

3.6.2 CORE-COMM / MONITOR-COMM / MONITOR-SERVICES

There is no need of copying any files unless the JDBC jar has been upgraded by the project team in the earlier version of all the above components. If that is the case then make sure that you copy over the old installations JDBC jar file on to the new one.

3.7 Install JBEAM UI

Uninstall any previous version of JBEAM UI. Remember to take a note of all the server configurations as you will have to re-configure the server after installation.

Follow the guidelines given in section 2.5.3 and 2.5.4.

3.8 Start

Download › Unzip › Update Properties › Exeucte SQL Scripts › Update Libraries › Install JBEAM UI › Start › Verify

Before we start the newly created instance, make sure that all of the old components of JBEAM are shutdown. Now the starting sequence of the new upgraded instance is as follows:

1. Monitor-Comm
2. Core-Comm
3. Monitor-Services
4. PRE

3.9 Verify

Download › Unzip › Update Properties › Exeucte SQL Scripts › Update Libraries › Install JBEAM UI › Start › Verify

Refer to the new installation section of this document for verify steps for each component to make sure that you must see in order to certify the upgrade is successful.

Download › Unzip › Update Properties › Exeucte SQL Scripts › Update Libraries › Install JBEAM UI › Start › Verify

4   Appendix

4.1   PRE Verification

The pre.log file will show something like the following. Note that the logger is set to INFO.

Specifically Highlighted

<Tuesday Oct 22, 2013 16:36:34:071><NOTICE><main><Engine>Product Name :Process Request Engine Product Version :30.2.0.0 Bundled On :1375160872297 Build Number :3832

<Tuesday Oct 22, 2013 16:36:34:081><INFO><main><Engine>Initializing Engine

<Tuesday Oct 22, 2013 16:36:34:081><FINEST><main><Engine>Redirecting System.out and System.err to log4j

<Tuesday Oct 22, 2013 16:36:34:082><INFO><main><Engine>CLASSPATH=D:\shantanu\jbeam-5.3.0\PRE30.2/lib/abdera-core-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/abdera-extensions-json-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/abdera-extensions-main-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/abdera-i18n-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/abdera-parser-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/activation-1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/ant-optional-1.5.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/aopalliance-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/aspectjrt-1.7.3.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/axiom-api-1.2.7.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/axiom-impl-1.2.7.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/backport-util-concurrent-3.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/bcprov-jdk16-1.46.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/com.ibm.icu-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/com.lowagie.text-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/com.majescomastek.stgsuite.icd.service.invoker-5.33.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-beanutils-1.7.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-beanutils-core-1.8.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-codec-1.3.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-collections-3.2.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-configuration-1.6.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-digester-1.8.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-exec-1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-httpclient-3.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-io-1.4.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-jxpath-1.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-lang-2.6.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-logging-1.1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-logging-api-1.0.4.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/commons-pool-1.5.5.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/cxf-bundle-2.2.10.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/cxf-bundle-jaxrs-2.2.9.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/cxf-rt-frontend-jaxrs-2.3.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/derby-

3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/dom4j-1.6.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/ehcache-core-2.4.5.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/flute-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/geronimo-activation_1.1_spec-1.0.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/geronimo-annotation_1.0_spec-1.1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/geronimo-javamail_1.4_spec-1.6.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/geronimo-servlet_2.5_spec-1.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/geronimo-stax-api_1.0_spec-1.0.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/hazelcast-2.1.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/hazelcast-client-2.1.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/ICDVO.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/icu4j-2.6.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/javax.wsdl-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb-api-2.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb-impl-2.1.13.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb-xjc-2.2.1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb-xjc.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb2-basics-0.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb2-basics-annotate-0.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb2-basics-runtime-0.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxb2-basics-tools-0.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jaxen-1.1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jbeam-commons-5.3.0-SNAPSHOT.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jbeam-core-5.3.0-SNAPSHOT.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jbeam-core-oracle-5.3.0-SNAPSHOT.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jbeamicd-impl-coreprint-billing-5.3.0-SNAPSHOT.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jbeamicd-impl-jobs-billing-5.3.0-SNAPSHOT.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jdbcpool-16.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jdom-1.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jettison-1.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-6.1.25.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-continuation-7.2.2.v20101205.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-http-7.2.2.v20101205.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-io-7.2.2.v20101205.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-server-7.2.2.v20101205.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jetty-util-6.1.25.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jra-1.0-alpha-4.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/js-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/jsr311-api-1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/log4j-1.2.16.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/mail-1.4.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/mysql-connector-java-5.1.25.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/neethi-2.0.4.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/odadesignapi.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/ojdbc14-10.2.0.4.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.bridge-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.css-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.dom-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.dom.svg-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.ext.awt-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.parser-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.pdf-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.svggen-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.transcoder-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.util-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.util.gui-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.batik.xml-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.commons.codec-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.xerces-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.xml.resolver-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.apache.xml.serializer-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.birt.runtime-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.core.contenttype-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.core.expressions-

3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.core.filesystem-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.core.jobs-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.core.runtime-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.apache.derby-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.apache.derby.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.console.profile-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.db.generic-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.dbdefinition.genericJDBC-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.oda-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.oda.consumer-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.oda.design-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.oda.flatfile-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.oda.profile-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.connectivity.sqm.core-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.hsqldb-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.hsqldb.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.ibm.db2.luw-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.ibm.db2.luw.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.ibm.informix-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.ibm.informix.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.msft.sqlserver-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.msft.sqlserver.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.mysql-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.mysql.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.oda.ws-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.oda.xml-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.oracle-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.oracle.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.postgresql-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.enablement.postgresql.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.modelbase.dbdefinition-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.modelbase.derby-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.modelbase.sql-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.datatools.modelbase.sql.query-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.emf-

3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.emf.common-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.emf.ecore-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.emf.ecore.change-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.emf.ecore.xmi-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.equinox.app-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.equinox.common-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.equinox.preferences-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.equinox.registry-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.osgi-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.osgi.services-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.eclipse.update.configurator-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.w3c.css.sac-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.w3c.dom.smil-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/org.w3c.dom.svg-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/oro-2.0.8.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/pre-30.2.0.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/pre-birt-plugin-1.1.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/saaj-api-1.3.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/saaj-impl-1.3.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/saaj.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/scriptapi.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/serializer-2.7.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/servlet-api-2.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/slf4j-api-1.6.1.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/slf4j-nop-1.7.5.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/Spi-5.16.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-aop-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-asm-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-beans-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-context-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-context-support-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-core-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-expression-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-jdbc-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-test-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-tx-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-web-2.5.6.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/spring-web-3.0.5.RELEASE.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/stax2-api-3.0.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/stg-birt-1.3.5.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/stg-commons-1.13.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/Tidy-3.7.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/truelicense-core-1.33.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/truelicense-xml-1.33.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/wsdl4j-1.6.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/wstx-asl-3.2.9.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xalan-2.6.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xercesImpl-2.6.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xml-apis-1.0.b2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xmlbeans-2.4.0.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xmlParserAPIs-2.6.2.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/XmlSchema-1.4.5.jar;D:\shantanu\jbeam-5.3.0\PRE30.2/lib/xom-1.0.jar;;;

<Tuesday Oct 22, 2013 16:36:34:097><INFO><main><Engine>Add ShutDown Hook ....

<Tuesday Oct 22, 2013 16:36:34:097><INFO><main><Engine>ShutDown Hook Added....

<Tuesday Oct 22, 2013 16:36:34:097><INFO><main><Engine>Initializing Connection Pool ....

<Tuesday Oct 22, 2013 16:36:34:109><INFO><main><stg.pr.engine.datasource.defaultimpl.PREDataSourceFactory>Initializing the DataSourceFactory...

<Tuesday Oct 22, 2013 16:36:34:684><DEBUG><main><jdbc.pool.CXMLManager>Reading attributes for pool #ST

<Tuesday Oct 22, 2013 16:36:35:954><DEBUG><main><jdbc.pool.CXMLManager>Pool Attributes read for pool #ST

<Tuesday Oct 22, 2013 16:36:35:955><DEBUG><main><jdbc.pool.CXMLManager>Reading attributes for pool #BATCH

<Tuesday Oct 22, 2013 16:36:35:958><DEBUG><main><jdbc.pool.CXMLManager>Pool Attributes read for pool #BATCH

<Tuesday Oct 22, 2013 16:36:35:958><DEBUG><main><jdbc.pool.CXMLManager>Reading attributes for pool #APPLICATION

<Tuesday Oct 22, 2013 16:36:35:960><DEBUG><main><jdbc.pool.CXMLManager>Pool Attributes read for pool #APPLICATION

<Tuesday Oct 22, 2013 16:36:35:961><INFO><main><stg.pr.engine.datasource.defaultimpl.PREDataSourceFactory>DataSourceFactory Initialized properly..

<Tuesday Oct 22, 2013 16:36:35:966><INFO><main><Engine>Initiating the cluster using the configuration from file D:/shantanu/jbeam-5.3.0/PRE30.2/resources/hazelcast.xml

<Tuesday Oct 22, 2013 16:36:42:623><INFO><main><Engine>Service ReportGenerator:com.mmpnc.pre.plugins.ReportServicemade available to the context..

<Tuesday Oct 22, 2013 16:36:42:623><NOTICE><main><Engine>Starting Web Services

<Tuesday Oct 22, 2013 16:36:42:625><INFO><Thread-4><WebServer>Acquiring Port #15004

<Tuesday Oct 22, 2013 16:36:42:629><INFO><main><Engine>Engine Initialized

<Tuesday Oct 22, 2013 16:36:42:629><NOTICE><Thread-4><WebServer>Web Server Started and is listening on 15004

<Tuesday Oct 22, 2013 16:36:42:629><INFO><main><Engine>Starting the Engine..

<Tuesday Oct 22, 2013 16:36:42:710><NOTICE><main><Engine>PRE is configured for cluster mode on 2 different machines.

<Tuesday Oct 22, 2013 16:36:42:710><NOTICE><main><Engine>Going into RUNNING mode.

<Tuesday Oct 22, 2013 16:36:42:738><DEBUG><main><Mailer>Setting default message footer

<Tuesday Oct 22, 2013 16:36:42:739><DEBUG><main><Mailer>Getting default message header

<Tuesday Oct 22, 2013 16:36:42:750><INFO><main><Mailer>0 emails loaded. Queueing emails..

<Tuesday Oct 22, 2013 16:36:42:750><INFO><main><Mailer>Emails queued for tranport.

<Tuesday Oct 22, 2013 16:36:42:751><INFO><main><Engine>Initializing JOB Monitor...

<Tuesday Oct 22, 2013 16:36:42:751><NOTICE><grpeng><Engine>Group Engine Not Started. To Start the group engine have the value of the groupengine property to ON

<Tuesday Oct 22, 2013 16:36:42:752><NOTICE><grpeng><Engine>Group Engine stopped.. Wait till PRE terminates.

<Tuesday Oct 22, 2013 16:36:42:754><NOTICE><main><Engine>Start Service Engine for Stand Alone Requests....

<Tuesday Oct 22, 2013 16:36:42:754><INFO><main><Engine>Starting StandAlone Engine ....

<Tuesday Oct 22, 2013 16:36:42:755><INFO><main><Engine>Getting JDBC Connection for the StandAlone Engine ....

<Tuesday Oct 22, 2013 16:36:42:754><NOTICE><JobMonitorThread><JobMonitor>Started...

<Tuesday Oct 22, 2013 16:36:42:755><DEBUG><main><stg.pr.engine.datasource.defaultimpl.PREDataSourceFactory>Fetching DataSource #ST

<Tuesday Oct 22, 2013 16:36:42:756><INFO><JobMonitorThread><JobMonitor>Will sleep for 2 minute(s).

<Tuesday Oct 22, 2013 16:36:42:763><INFO><main><JDBC.Pool[ST]>Using First-In-First-Out Algorithm

<Tuesday Oct 22, 2013 16:36:42:919><DEBUG><main><JDBC.Pool[ST]>Attempting number of #1 new JDBC Connections

<Tuesday Oct 22, 2013 16:36:43:248><DEBUG><main><JDBC.Pool[ST]>New Connection Created #oracle.jdbc.driver.T4CConnection@17b0b76

<Tuesday Oct 22, 2013 16:36:43:248><DEBUG><main><JDBC.Pool[ST]>Adding Connection to the pool #oracle.jdbc.driver.T4CConnection@17b0b76

<Tuesday Oct 22, 2013 16:36:43:249><DEBUG><main><JDBC.Pool[ST]>Initiate Self Check background process

<Tuesday Oct 22, 2013 16:36:43:251><INFO><main><JDBC.Pool[ST]>Pool will not be shrinked nor self checks will be initiated.

<Tuesday Oct 22, 2013 16:36:43:258><NOTICE><main><JDBC.Pool[ST]>Pool Created and initialized. Statstics Pool Started On,1382440002763, Connections High,0, Leaked ResultSet,0, Leaked Statements,0, Leaked Connections,0, Current Used Connections,0, Current Free Connections,1, Bad Connections Found,0, Current Waiters,0, Waiters High,0, Wait Time High,0, Total Wait Time,0, Average Connection Delay,328, Connections Total,1, Unavailable Connections,0, Unavailable Connections High,0, Unavailable Connections High Time,0, Used Memory,30042112, Total Memory,66715648, HeapMemoryUsed,30042112, HeapMemoryMax,1065484288, NonHeapMemoryUsage,20703624, NonHeapMemoryMax,100663296

<Tuesday Oct 22, 2013 16:36:43:259><DEBUG><main><JDBC.Pool[ST]>{0}Validating the Connection object.

<Tuesday Oct 22, 2013 16:36:43:364><DEBUG><main><JDBC.Pool[ST]>Connection found OK.