

# **intra-mart WebPlatform/AppFramework**

## **Version 6.1**

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### **Installation Guide**

**Fourth Edition**  
**31 January 2008**



**<< Revision History >>**

<b>Revised Date</b>	<b>Revised Content</b>
<b>2007/07/31</b>	<b>First Edition</b>
<b>2007/08/31</b>	<b>Second Edition</b> <ul style="list-style-type: none"><li>● The way of installation by compulsion and interactively was added to “3.2.1 Starting Up and Operating Installer”.</li><li>● Statements in “3.2.2.11 Restriction of Line Break Code” have been corrected.</li><li>● Literal error in “3.2.4 About License Registration” has been corrected.</li></ul>
<b>2007/10/19</b>	<b>Third Edition</b> <ul style="list-style-type: none"><li>● Contents were added to “3.2.2.6 Storage Service ”</li></ul>
<b>2008/01/31</b>	<b>Fourth Edition</b> <ul style="list-style-type: none"><li>● Fixed the literal error in the title of this document.</li><li>● Statements in “3.2.3.2.4.6 Installing into Server5” have been corrected.</li></ul>



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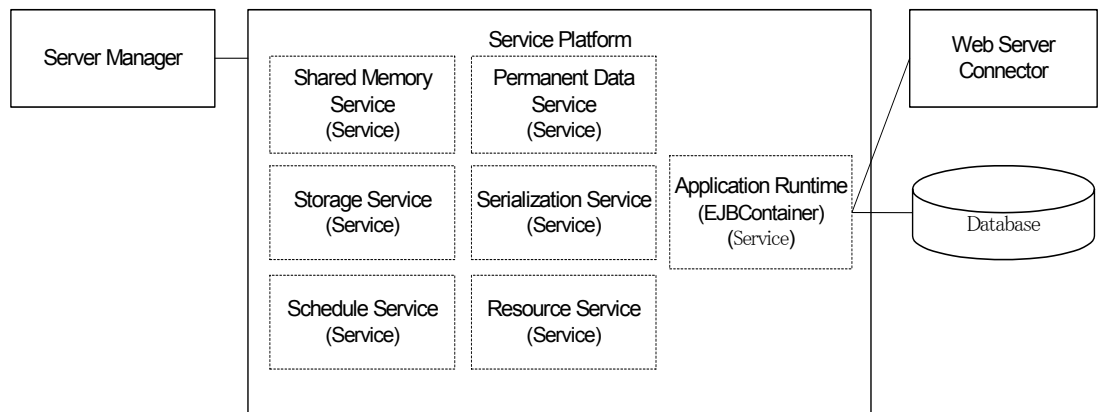
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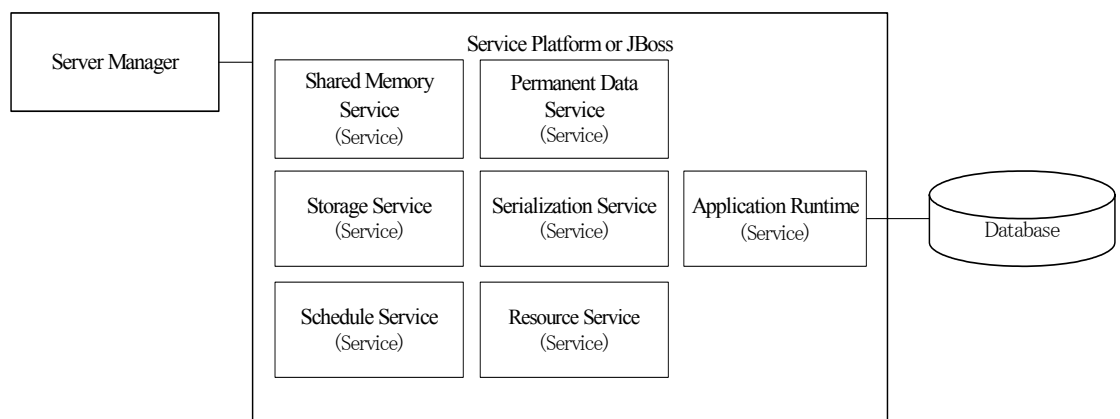
# 1 System Configuration

## 1.1 intra-mart WebPlatform (Resin)



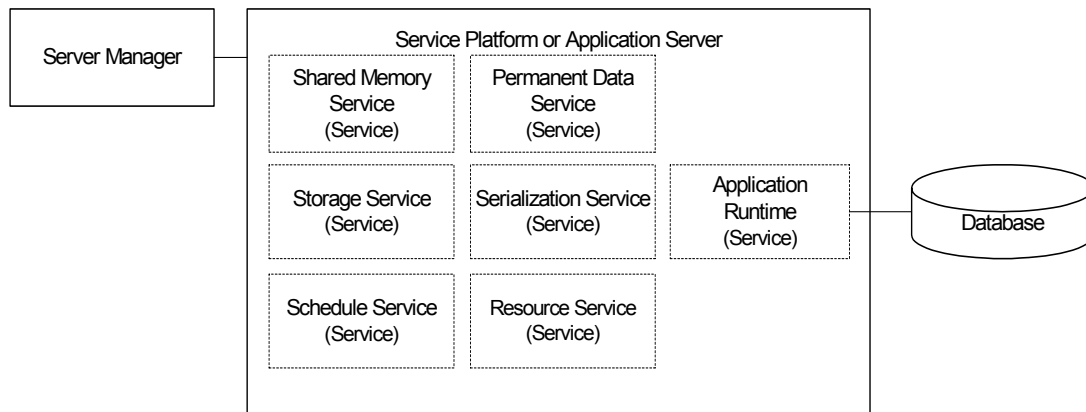
**intra-mart WebPlatform Ver6.1 (Resin)** is made up of 2 servers (Server Manager, Service Platform) and a Web Server Connector.

## 1.2 intra-mart WebPlatform (JBoss)



**intra-mart WebPlatform Ver6.1 (JBoss)** is made up of 2 servers (Server Manager, Service Platform).

### 1.3 intra-mart AppFramework



**intra-mart AppFramework Ver6.1** is made up of 2 servers (Server Manager, Service Platform).

### 1.4 intra-mart DebugServer

Debug Server is only for debugging used in intra-mart e-Builder.

Please refer to install guide of intra-mart e-Builder about a method to install Debug Server.

## 1.5 About Each Module

### ■ Server Manager

Server Manager manages the overall operational condition of Service Platform and its service groups.

The information will be sent to intra-mart Administrator (client's administration tool), that enables im-Administrator to remote-monitor. In addition, Server Manager also manages the license information.

### ■ Service Platform (each service will operate)

Service Platform is a platform that executes the following service groups. Server process corresponds to this.

### ■ Service (operate on JavaVM)

#### ◆ Application Runtime

This is an application program execution engine.

\*If the installation is done on a distributed system, other services cannot be installed on the Service Platform (in case of intra-mart WebPlatform) and Application Server (in case of intra-mart AppFramework), which are in charge of operating Application Runtime. (Please refer to “3.2.3 Operating Machine Configuration and Installation” for details.)

\*This Application Runtime executes a batch program that is scheduled to activate by Schedule Service.

\*Unique IDs are also created by Service Platform.

#### ◆ Shared Memory Service

This is a service that manages common memory.

The information management provided by this service is sessionless. There will be no data loss caused by timeout.

#### ◆ Permanent Data Service

This is a service that saves and manages data required for server operation.

Since this service save information in a file, it can restore and retrieve the data stored earlier at the next activation, even when the service has already been terminated.

#### ◆ Resource Service

This is a service that manages the sources of each presentation page and function container, which are required for intra-mart system operation and distribute necessary programs to Application Runtime.

#### ◆ Storage Service

This is a service that manages common file.

When using a distributed system with multiple numbers of Application Runtime, this service is employed to manage all uploaded files and system common files.

#### ◆ Serialization Service

This is a collection of functions to be utilized by the entire system.

This service provides lock control of applications.

◆ **Schedule Service**

This is a scheduling service for batch processing.

This service sends a request to Application Runtime to execute specific batch programs at the designated time. As a result, the batch programs will be executed by Application Runtime.

■ **Web Server Connector (In case of WebPlatform (Resin))**

It operates as an build-in module module on the WebServer.

■ **intra-mart Administrator (Operate on JavaVM)**

It operates on a client side, and manage each service group while communication the Server Manager.

It can start, stop, and configure the Server Manager and Service Platform.

In addition, it can manage them remotely from a different computer.

## 1.6 Glossary

intra-mart WebPlatform Ver6.1	<p>This is abbreviated as <b>IWP</b> hereafter.</p> <p>When using Resin as ApplicationServer, it is abbreviated as “<b>IWP (Resin)</b>”, and</p> <p>When using JBoss as ApplicationServer, it is abbreviated as “<b>IWP (JBoss)</b>”.</p> <p>A directory in which <b>IWP</b> installed is abbreviated as &lt;%im_path%&gt;.</p>
intra-mart AppFramework Ver6.1	<p>This is abbreviated as <b>AFW</b> hereafter.</p> <p>A directory in which <b>AFW</b> installed is abbreviated as &lt;%im_path%&gt;.</p>
intra-mart DebugServer Ver6.1	<p>This is abbreviated as <b>DS</b> hereafter.</p> <p>A directory in which <b>DS</b> is installed as &lt;%im_path%&gt;.</p>
intra-mart Server Manager	This is a server to administrate overall system. This is abbreviated as <b>imSM</b> .
intra-mart Service Platform	This is a server body to start service. This is abbreviated as <b>imSP</b> .
Application Runtime	This is execution engine of application and abbreviated as <b>AppRuntime</b> .
Shared-Memory Service	This is a service to manage common memory and abbreviated as <b>SharedMemSrv</b> .
Permanent-Data Service	This is a service to manage persistent data and abbreviated as <b>PermDataSrv</b> .
Resource Service	This is a service to manage program files of script development model and abbreviated as <b>ResourceSrv</b> .
Storage Service	This is a service to manage files and abbreviated as <b>StorageSrv</b> .
Serialization Service	This is a service of exclusive control function and abbreviated as <b>SerializeSrv</b> .
Schedule Service	This is a service to control start time of batch program and abbreviated as <b>ScheduleSrv</b> .
Web Server Connector	<p>This is a module to work together with WebServer and abbreviated as <b>WSC</b>.</p> <p>A directory in which <b>WSC</b> installed is abbreviated as &lt;%web_path%&gt;.</p>
intra-mart Administrator	This is a viewer to observe overall the system and abbreviated as <b>imAdmin</b> .

## 1.7 Prerequisites

In order to use this product, your system has to satisfy the system requirements described in release note.  
Please refer to the release note for details.

It is a prerequisite that both **IWP and AFW** run alongside while each interacts simultaneously with the database.  
(This Installation Guide will also explain how to connect with the database.)

## 1.8 How to Use Database

### ■ In case of using Oracle

The connection to Oracle can be established via JDBC.

In our company, JDBC driver's operation has been tested with Oracle JDBC Driver 10.2.0.1.0.

**(Notes) The installation of Oracle may change the version of Java Runtime.**

**Please take note to install Java Runtime after installing Oracle.**

### ■ In case of using Microsoft SQL Server 2005

The connection to Microsoft SQL Server 2005 can be established via JDBC.

In our company, JDBC driver's operation has been tested with Microsoft SQL Server 2005 JDBC Driver 1.1.

### ■ In case of using DB2

The connection to DB2 can be established via JDBC.

In our company, JDBC driver's operation has been tested with DB2 JDBC Driver (included with IBM DB2.9) Type 4.

### ■ In case of using PostgreSQL

The connection to PostgreSQL can be established via JDBC.

In our company, JDBC driver's operation has been tested with postgresql-8.2-505.jdbc3.jar.

## 2 Installation Flow

Please install this product according to the following procedure.

### 2.1 Creating Server Configuration Diagram

Create a server configuration diagram prior to the installation.

Please refer to “12 Appendix A intra-mart System Administration Sheet” (page 175) on how to create the server configuration diagram.

Reference		Page
3.1.1	Server configurationServer Configuration	17
エラー！ 参照元が 見つかり ません。	Operating Machine Configuration and Installation	エラー！ブッ クマークが定 義されていま せん。 - 62

### 2.2 Database Installation

Install the database to be used.

How to register table space and users with Oracle10g

Reference		Page
エラー！ 参照元が 見つかり ません。	Appendix D Creating Tablespace and Users in Oracle10g	エラー！ブッ クマークが定 義されていま せん。

### 2.3 Database Connection Driver Installation

Install the database connection driver.

	Reference	Page
Oracle	3.1.2.1 Oracle JDBC Driver Installation	Oracle
Microsoft SQL Server 2005	3.1.2.2 SQL Server 2005 JDBC Driver Installation	Microsoft SQL Server 2005
DB2	エラー！ 参照元が 見つかり ません。 DB2 JDBC Driver Installation	DB2
PostgreSQL	エラー！ エラー！参照元が見つかりません。 参照元が 見つかり ません。	PostgreSQL

### 2.4 Java Runtime Installation

Install Java Runtime to all the computers that run intra-mart.

Reference	Page
エラー！ エラー！ 参照元が見つかりません。 参照元が 見つかり ません。	エラー！ ブッ クマークが定 義されていま せん。

## 2.5 WebServer Installation

In case of using IWP (Resin), WebServer needs to be installed.

Install in a computer designated to be the WebServer.

When running intra-mart HttpServer which is included in Application Runtime, WebServer does not need to be installed.

Reference	Page
3.1.4 WebServer Installation	20



## 2.6 Application Server Installation

In case of using AFW, one of the following Application Servers needs to be installed.

Reference		Page
3.1.5.1	WebSphere Installatio	20
3.1.5.2	WebLogic	20

## 2.7 intra-mart Ver6.1Installation

Install intra-mart Ver 6.1 according to Server Configuration.

Reference		Page
3.2.1	Starting Up and Operating Installer	21
エラー！参照元が見つかりません。	Operating Machine Configuration and Installation	エラー！ブックマークが定義されていません。

## 2.8 Registering Web Server Connector

In case of using IWP (Resin), Web Server Connector needs to be registered.

Register Web Server Connector to WebServer.

If Application Runtime is run as HttpServer, Web Server Connector does not need to be registered.

### ■ Web Server Settings

Reference		Page
3.3.1	In case of In case of Apache 2	76
3.3.2	In case of In case of IIS6.0	79
エラー！参照元が見つかりません。	Round-robin Settings	エラー！ブックマークが定義されていません。

### ■ Other settings

Reference		Page
3.3.4.1	How To Change Alias	83
エラー！参照元が見つかりません。	Registering Self-Created Web Application	エラー！ブックマークが定義されていません。
エラー！参照元が見つかりません。	Changing URL of Login Page	エラー！ブックマークが定義されていません。

## 2.9 Setting up intra-mart WebPlatform(JBoss)

In case of using IWP (JBoss), when you change contents or re-compile a class, you have to make WAR file and deploy again.

Reference		Page
3.4	intra-mart WebPlatform (JBoss) Settings	88

## 2.10 Setting up Application Server

In case of using AFW, Application Server needs to be configured.

Reference		Page
3.5.1	WebSphere Settings	92
エラー！参照元が見つかりません。	エラー！参照元が見つかりません。s	エラー！ブックマークが定義されていません。

## 2.11 Setting up Database Connection

It is a prerequisite to use intra-mart Ver6.1 with a database.

intra-mart must be configured to get connected to a database.

Reference	Page
3.6.1 PreparationPreparation	136
エラー！ エラー！ 参照元が見つかりません。 Settings 参照元が 見つかり ません。	エラー！ ブッ クマークが定 義されていま せん。
3.6.3 data-source.xml Settings	139

## 2.12 Starting up intra-mart

### ■ Order of start-up and stop

Reference	Page
4.1.1 In case of In case of intra-mart WebPlatform (Resin)	141
4.1.2 In case of In case of intra-mart WebPlatform (JBoss)	141
4.1.3 In case of In case of intra-mart AppFramework	142

### ■ A way to start up and stop Server Manager/Service Platform

Reference	Page
4.2.1 Windows OS Environment	143
4.2.2 UNI Environment	147

### ■ How to startup and shutdown of JBoss

Reference	Page
4.3 How to startup and shutdown of JBoss	149

### ■ How to startup and shutdown of ApplicationServer

Reference	Page
4.4 How to startup and shutdown of ApplicationServer	149

## 2.13 Login to intra-mart

Launch a browser and access the intra-mart URL.

Reference	Page
5.1 Login as System Administrator	151
5.2 Creating Login Group	152
5.3 Importing Initial Data	156
エラー！ ログインとしてログイングループの管理者 参照元が 見つかり ません。	エラー！ ブッ クマークが定 義されていま せん。

## 2.14 Sample Data Input

Input intra-mart sample data.

Reference	Page
エラー！ Sample Data Input 参照元が 見つかり ません。	エラー！ ブッ クマークが定 義されていま せん。

## 3 Installation

### 3.1 Preparation

#### 3.1.1 Server Configuration

##### 3.1.1.1 Server Configuration Diagram

It is recommended to create the server configuration diagram prior to the installation.

IP address of each machine, port number of each Service Platform, and name of each service running on Service Platform must be clearly stated on the server configuration diagram.

Creating the server configuration diagram can simplify the installation procedure.

Please refer to “3.2.3 Operating Machine Configuration and Installation” on server configuration diagram.

#### 3.1.2 JDBC Driver Installation

If you use database in this product, you have to install JDBC driver.

- **In case of IWP (Resin)**

Suppose a directory, into which Service Platform that operates Application Runtime is installed, is called `<%im_path%>`, the installed JDBC driver must be placed under `<%im_path%>/lib`.

**\* JDBC driver must be installed to all computers that operate Application Runtime.**

- **In case of AFW and IWP (JBoss)**

JDBC driver installed must be added to the class path of Application Server in which Application Runtime runs.

**\* JDBC driver must be installed to all the computers with Application Server installed.**

##### 3.1.2.1 Oracle JDBC Driver Installation

**If you use Oracle in this product, you have to install.**

If it is already installed, there is no need for re-installation..

Oracle JDBC driver is distributed in Japan Oracle Homepage, below;

<http://otn.oracle.co.jp/software/tech/java/jdbc/index.html>

(As of 31/07/2007)

Download **Oracle JDBC Driver from the page and install it.**

Please refer to Oracle homepage for details.

\* In our company, JDBC driver's operation has been tested with Oracle JDBC Driver 10.2.0.1.0.

### 3.1.2.2 Microsoft SQL Server 2005 JDBC Driver Installation

**If you use Microsoft SQL Server 2005 in this product, you have to install.**

If it is already installed, there is no need for re-installation.

SQL Server 2005 Driver for JDBC can be downloaded from Microsoft Creator Network website.

It can be downloaded from

<http://www.microsoft.com/downloads/details.aspx?FamilyID=6d483869-816a-44cb-9787-a866235efc7c&DisplayLang=ja>

(As of 31/07/2007)

Download **Microsoft SQL Server 2005 JDBC Driver** from the page and install it.

Please refer to Microsoft Developer Network website for details

\* In our company, JDBC driver's operation has been tested with Microsoft SQL Server 2005 JDBC Driver 1.1.

### 3.1.2.3 DB2 JDBC Driver Installation

**DB2 JDBC Driver must be installed in order to use DB2 with this product.**

If it is already installed, there is no need for re-installation.

Install DB2 JDBC Driver Type4 attached to IBM DB2.

Please refer to DB2 Manual for details.

\* In our company, JDBC driver's operation has been tested with DB2 JDBC Driver (attached to IBM DB2 9) Type4.

### 3.1.2.4 PostgreSQL 8.2 JDBC Driver Installation

**PostgreSQL 8.2 JDBC Driver must be installed in order to use PostgreSQL 8.2 with this product.**

If it is already installed, there is no need for re-installation.

PostgreSQL JDBC Driver can be downloaded from PostgreSQL JDBC website.

It can be downloaded from <http://jdbc.postgresql.org/download.html> (As of 31/07/2007)

Download **PostgreSQL JDBC Driver** from the page and install it.

\* In our company, JDBC driver's operation has been tested with postgresql-8.2-505.jdbc3.

### 3.1.3 Java Runtime Installation

Install Java Runtime to all computers that are installed with Server Module.

If it has been already installed, there is no need for re-installation.

#### 3.1.3.1 Things to take note before Installation

##### 3.1.3.1.1 In case of using Oracle as database

In case of using Oracle as database, the installation of Oracle might cause changing the version of Java Runtime.

Please make sure to install Java Runtime after installing Oracle.

##### 3.1.3.1.2 In case of installing Solaris Java Runtime

Install necessary Solaris OS patches prior to the installation of Solaris Java Runtime.

If appropriate Solaris patches are not installed, it may not operate properly.

Java 2, Standard Version cluster patch for Solaris 10 OS can be downloaded from

<http://jp.sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access> (As of 31/07/2007)

Please refer to the website, from which Java Runtime is downloaded, for details.

#### 3.1.3.2 Installation Procedure

- (1) Download Java Runtime (Java™ 2 SDK, Standard Edition 1.5.0\_x). Java Runtime Installer can be downloaded from Sun Microsystems website.

<http://java.sun.com/j2se/1.5.0/ja/download.html> (As of 31/07/2007)

- (2) Install using the downloaded installer.

Please refer to Sun Microsystems website for installation details.

<http://java.sun.com/j2se/1.5.0/ja/install.html> (As of 31/07/2007)

- (3) Enter "**java-version**" in the command line and press Return key.

- (4) The installation is completed when the version information is displayed on the command line..

### 3.1.4 WebServer Installation

In case of using IWP (Resin), WebServer needs to be installed.

When running intra-mart HttpServer which is included in Application Runtime, WebServer needs not to be installed.

Install in a computer designated to be the WebServer.

- Apache2.0.x
- IIS6.0

Please refer to the WebServer manual and follow the proper installation procedure.

### 3.1.5 Application Server Installation

In case of using FWv5, Application Server needs to be installed.

Select one of the following Application Servers.

- IBM WebSphere Application Server Ver.6.1
- BEA Weblogic Server 10J

#### 3.1.5.1 WebSphere Installation

Extract and install WebSphere Application Server V6.1 from the WebSphere Application Server Installer.

\*Please refer to WebSphere Manual for details.

#### 3.1.5.2 WebLogic Installation

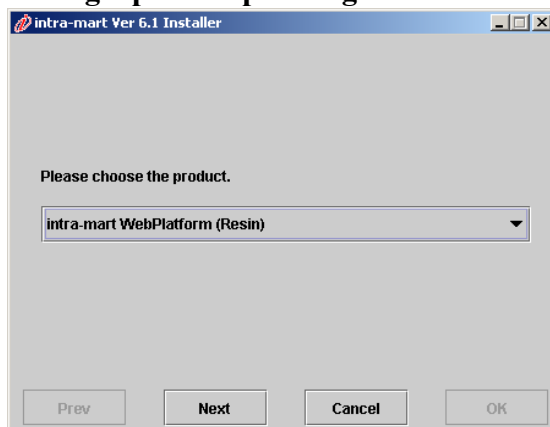
Extract and install BEA WebLogic Server10J from the WebLogic Server Installer.

\*Please refer to WebLogic Server Manual for details.



## 3.2 intra-mart Ver6.1 Installation

### 3.2.1 Starting Up and Operating Installer



Start-up and operation procedure of the installer should be as follows.

#### ■ Windows Environment

- (1) Check and confirm that there is a path after running the `java.exe` command
- (2) Use Explorer to go to the directory where the CD-ROM of this product is located.
- (3) Go to “intra-mart5¥install” directory.
- (4) Double-click **setup.jar** to start.
- (5) Installer screen will be displayed.
- (6) Configure the setting items on the Installer screen, and click on [Next] button. Repeat until step (7).
- (7) Lastly, the list of setting items will be displayed. If everything is OK, click on [OK] button.  
(If not, click on [Prev] button to re-configure)
- (8) The installation starts.

#### ■ UNIX OS Environment

- (1) Check and confirm that there is a path after running the `java` command.
- (2) On the console screen, go to the directory where the CD-ROM of the product is located.
- (3) Go to “intra-mart5/install” directory.
- (4) Enter “**java -jar ./setup.jar**” on the console.
- (5) Installer screen will be displayed.
- (6) Configure the setting items on the Installer screen, and click on [Next] button. Repeat until step (7).
- (7) Lastly, the list of setting items will be displayed. If everything is OK, click on [OK] button.  
(if not, click on [Prev] button to re-configure)
- (8) The installation starts.

**For UNIX OS environment such as Solaris or Linux, the Installer window will be displayed only when installed on a machine already running Xwindow.**

**If Xwindow does not startup, the installation will be done interactively on the console.**

If you install it in interactive mode, please add “**-con**” to the trail of start up command of installer.

**Example: `java -jar ./setup.jar -con`**

## 3.2.2 Installation of Directory Configuration

This section describes the installation of Directory Configuration.

### 3.2.2.1 Web Server Connector Directory Configuration

<%web\_path%>

— alert/	Alert Page Storage Directory
— applet/	Applet Storage Directory
— bpw/	BPW Storage Directory
— csjs/	Client-Side Java Script Storage Director
— css/	Cascading Style Sheet Storage Directory
— flash/	Flash File Storage Directory
— images/	Image Files Storage Directory
— img/	Image Files Storage Directory (for compatibility with old versions)
— maskat/	Maskat Storage Directory
— round_robin/	Web Server Connector (Embedded Module)
— skin/	Color Pattern Storage Directory
— table_maintenance/	Table Maintenance Storage Directory
— view_creator/	View_creator Storage Directory
— identification.properties	Version information file (You can confirm batch number applied to WSC.)

### 3.2.2.2 Server Manager Directory Configuration

<%im\_path%>

bin/	Server Module Execution File Storage Directory
manager.bat	Server Manager Boot Script File (for Windows)
manager.sh	Server Manager Boot Script File (for UNIX)
MgrService.exe	Service Module File (for Windows)
MgrService.ini	Service Initialization File (for Windows)
service/	ServiceManager Storage Directory (for Windows)
tools/	Tools Storage Directory
licedit.bat	License Registration Command File (for Windows)
licedit.sh	License Registration Command File (for UNIX)
conf/	Server Module Common Default File Storage Directory
imart.xml	intra-mart Basic Configuration File
system.xml	intra-mart System Configuration File
data-source.xml	Data Source Configuration File
access-security.xml	Access Security Configuration File
design/	Design-related Configuration File Storage Directory
i18n/	Internationalization-related Configuration File Storage Directory
message/	Message Files Storage Directory
mail/	Mail Delivery API Definition File Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
license/	License Information Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
specification/	Specification Information Storage Directory
work/	intra-mart Temporary Work Directory (created at the time of initialization)

### 3.2.2.3 Application Runtime Directory Configuration

<%im_path%>	
bin/	Server Module Execution File Storage Directory
server.bat	Server Platform Boot Script File (for Windows /IWP (Resin) only)
server.sh	Server Platform Boot Script File (for UNIX/IWP (Resin) only)
SrvService.exe	Service Module File (for Windows/IWP (Resin) only)
SrvService.ini	Service Initialization File (for Windows/IWP (Resin) only)
service/	Service Manager Storage Directory (for Windows)
conf/	Server Module Common Initialization File Storage Directory
http.xml	Regin Basic Configuration File (IWP (Resin) only)
imart.xml	intra-mart Basic Configuration File
datastore/	Application Common Master Configuration File Storage Directory
classes/	Class Files Storage Directory
doc/	Web Contents (JavaEE development Model Program) Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
native/	DLL Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
webapps/	Web-Application Archive's Storage Area (created at the time of initialization)
work/	intra-mart Temporary Work Directory (created at the time of initialization)

### 3.2.2.4 Shared Memory Service Directory Configuration

<%im_path%>	
bin/	Server Module Execution File Storage Directory
server.bat	Service Platform Boot Script File (for Windows)
server.sh	Service Platform Boot Script File (for UNIX)
SrvService.exe	Service Module File (for Windows)
SrvService.ini	Service Initialization File (for Windows)
service/	ServiceManager Storage Directory (for Windows)
conf/	Server Module Common Initialization File Storage Directory
imart.xml	intra-mart Basic Configuration File
classes/	Class Files Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
native/	DLL Storage Directory

### 3.2.2.5 Permanent Data Service Directory Configuration

<%im\_path%>

bin/	Server Module Common Initialization File Storage Directory
server.bat	Service Platform Boot Script File (for Windows)
server.sh	Service Platform Boot Script File (for UNIX)
SrvService.exe	Service Module File (for Windows)
SrvService.ini	Service Initialization File (for Windows)
service/	ServiceManager Storage Directory (for Windows)
conf/	Server Module Common Initialization File Storage Directory
imart.xml	intra-mart Basic Configuration File
classes/	Class Files Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
native/	DLL Storage Directory
treasure	intra-mart Data Storage Directory (created at the time of initialization)

### 3.2.2.6 Storage Service Directory Configuration

<%im_path%>	
bin/	Server Module Common Initialization File Storage Directory
server.bat	Service Platform Boot Script File (for Windows)
server.sh	Service Platform Boot Script File (for UNIX)
SrvService.exe	Service Module File (for Windows)
SrvService.ini	Service Initialization File (for Windows)
service/	ServiceManager Storage Directory (for Windows)
conf/	Server Module Common Initialization File Storage Directory
imart.xml	intra-mart Basic Configuration File
classes/	Class Files Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
native/	DLL Storage Directory
storage/	Storage Service Resource Storage Directory
bpw/	BPW Directory
database/	SQL to create index used for workflow Storage Directory
excel_template/	Template File for Process Definition Information Storage Directory
attach/	Attachment File at the Application Storage Directory
code_manager/	File for Process Code Storage Directory
portal/	Portal Directory
portals/	Portal Rayout Information Storage Directory
cache/	Cash Information of Portlet Storage Directory
system/	System Directory
basic/	Data for Log in Group Initialization Storage Directory
sample/	Sample Data Storage Directory
master/config/	Directory for import and export of application common master
template/calendar/	Storage Directory for <IMART type="calendar"> Template File
unit/	System Directory
mail/	Directory used for Module.mailpool
view_creator/	Directory for ViewCreator (Create source in arbitrary directory in storage/ by using source output function of ViewCreator)

### 3.2.2.7 Resource Service Directory Configuration

<%im_path%>	
bin/	Server Module Common Initialization File Storage Directory
server.bat	Service Platform Boot Script File (for Windows)
server.sh	Service Platform Boot Script File (for UNIX)
SrvService.exe	Service Module File (for Windows)
SrvService.ini	Service Initialization File (for Windows)
service/	ServiceManager Storage Directory (for Windows)
tools/	Tool Storage Directory
js2class.bat	JavaScript Compiler Command File (for Windows)
conf/	Server Module Common Initialization File Storage Directory
imart.xml	intra-mart Basic Configuration File
classes/	Class Files Storage Directory
lib/	intra-mart Server Module Common Library Storage Directory
log/	intra-mart Log Output Directory (created at the time of initialization)
native/	DLL Storage Directory
pages/	Page-Based Program Storage Directory
platform/src/	IWP/FWv5 Page-Based Program Storage Directory
bpw/	BPW Storage Directory
event_navigator/	Event Navigator Storage Directory
system/	System Configuration Page Storage Directory
template/	Template Page Storage Directory
tools/	Tool Page Storage Directory
wkf/	Old Workflow Module Storage Directory
setup.js	System Initialization Script File
source-config.xml	Source Configuration File
product/src/	intra-mart Application (such as intranet start pack)'s Page-Based Program Storage Directory
src/	Page-Based Programs Storage Directory (Created by Creator)
init.js	Initialization Script File

### 3.2.2.8 Serialization Service Directory Configuration

<%im_path%>		
bin/		Server Module Common Initialization File Storage Directory
server.bat		Service Platform Boot Script File (for Windows)
server.sh		Service Platform Boot Script File (for UNIX)
SrvService.exe		Service Module File (for Windows)
SrvService.ini		Service Initialization File (for Windows)
service/		ServiceManager Storage Directory (for Windows)
conf/		Server Module Common Initialization File Storage Directory
imart.xml		intra-mart Basic Configuration File
classes/		Class Files Storage Directory
lib/		intra-mart Server Module Common Library Storage Directory
log/		intra-mart Log Output Directory (created at the time of initialization)
native		DLL Storage Directory

### 3.2.2.9 Schedule Service Directory Configuration

<%im_path%>		
bin/		Server Module Common Initialization File Storage Directory
server.bat		Service Platform Boot Script File (for Windows)
server.sh		Service Platform Boot Script File (for UNIX)
SrvService.exe		Service Module File (for Windows)
SrvService.ini		Service Initialization File (for Windows)
service/		ServiceManager Storage Directory (for Windows)
conf/		Server Module Common Initialization File Storage Directory
imart.xml		intra-mart Basic Configuration File
classes/		Class Files Storage Directory
lib/		intra-mart Server Module Common Library Storage Directory
log/		intra-mart Log Output Directory (created at the time of initialization)
native/		DLL Storage Directory

### 3.2.2.10 Sample

If “Install Sample” is selected from the Installer, a sample directory file will also be installed in addition to the Directory Configuration mentioned above.



### 3.2.2.11 Restriction of Line Break Code

If you install intra-mart in Windows, line break code of files with following extension is LF.

- .xml
- .license
- .dtd
- .wsdd
- .wsdl

### 3.2.3 Operating Machine Configuration and Installation

This product can be run on various types of Machine Configuration.

In this section, the installation procedure will be explained based on various examples of Machine Configurations.

#### 3.2.3.1 Notes

The followings are the notes on input items necessary for the installation.

(\*1) When prompted for the address of **Server Manager or Service Platform**,  
be sure to enter the **IP address of the machine**.

If “localhost” is entered, intra-mart system will not operate.

(Example) **192.168.0.2**

(\*2) **Service Platform ID** is the **ID to uniquely identify** the intra-mart server.

**Assign an ID that is different from the other Service Platforms.**

If a duplicate ID is assigned, intra-mart system cannot operate properly.

In addition, the ID will be used by intra-mart Administrator for display purposes.

Acceptable character strings are **one-byte alphanumeric characters**, “\_ (underscore)”, “: (colon)”, and “.” (dot)” only.

As an example of Machine Configuration, “IP Address:Port Number” is used as a Service Platform ID.

(Example) **IP Address** into which Service Platform is installed: **192.168.0.2**

When the **Port Number** into which Service Platform is installed is **49150**,

**Service Platform ID : 192.168.0.2:49150**

(\*3) Change only the **IP Address** and **Port Number** of the **Application Runtime URL**, according to the settings of Web Server Connector.

Since **http://.../imart/HTTPActionEventListener** is the intra-mart settings, it is not necessary to change it under normal circumstances.

If the connection servlet’s name is changed at the time of the Application Runtime configuration, please change them accordingly, too.

(Example) Web Server’s **IP Address** : **192.168.0.1**

When the Web Server’s **Port Number** is: **8080**

Application Runtime URL will be

**http:// 192.168.0.1:8080 / imart/HTTPActionEventListener.**

(\*4) If **Oracle10g** is installed as standard setting, it will use the Port Number “**8080**” by default. As a result, should Application Runtime (including Standalone type) be installed in the same computer, the server may not be able to start up due to the conflict with the network’s Port setting.

During installation, please ensure that **the port numbers are not overlapped**.

(\*5) If you **establish multilingual system**, please select “**UTF-8**” as “**Server Module Character Code**” and “**Character Code to be transmitted to Web Browser**”.

(\*6) You can select JDK path included in Application Server or JDK path separately installed as JDK path to install **Application Runtime** in AFW.

### 3.2.3.2 Machine Configuration intra-mart WebPlatform (Resin)

In this chapter, the Machine Configuration shown below is the example used when the product is installed.

- |   |                        |
|---|------------------------|
| ■ OS  | : Windows              |
| ■ Server Module Character Code                    | : Windows-31J          |
| ■ Character Code to be transmitted to Web Browser | : Windows-31J          |
| ■ Product Type                                    | : IWP (Resin) Standard |

If installed to other type of OS, please select relevant character code for the OS.

(If you establish multilingual system, please select “UTF-8” as “**Server Module Character Code**” and “**Character Code to be transmitted to Web Browser**”.)

\* In case of distributed Machine Configuration (“Machine Configuration 3 – Machine Configuration 4” in the following example), you are not able to install other services on JBoss running the Application Runtime.

## 3.2.3.2.1 Machine Configuration 1

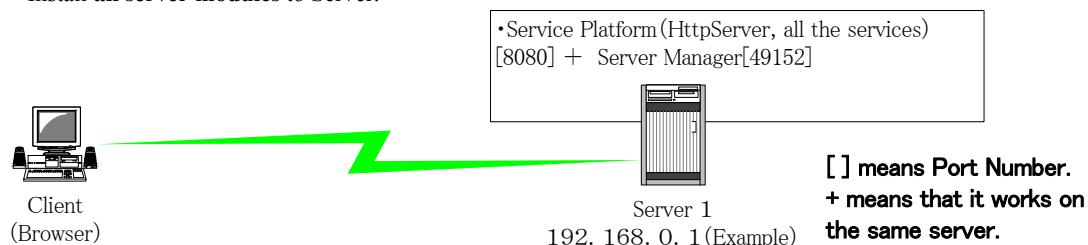
## ■ Running on a Single Server

Server Manager and Service Platform (all services) will be operated on the same server.

They will be operated using intra-mart HttpServer, which is included in Application Runtime.

Since intra-mart HttpServer is being used, there is **no need for Web Server Connector**.

Install **all server modules** to Server.



## 3.2.3.2.1.1 Installing into Server 1

## ■ Install all server modules

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Please proceed with the installation in the following procedure. (The following example is based on Windows, Standard version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module(y/n)?	y
Install web server connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	1
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	1
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.1 (*1)
Enter the Port Number to be used by HTTP Server	8080 (*4)
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.1:8080 (*2)
Enter Application Runtime URL	http://192.168.108.1:8080/imart/HTTP ActionEventListener
Default Heap Size of Service Platform (Xms) [MB] (Example:64)	64
Maximum Heap Size of Service Platform (Xmx) [MB] (Example:128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

In case of installing **Advanced Version** or **Enterprise version**, select "2: Advanced" or "3: Enterprise" for the

type of product to be installed.

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*4) and (\*5).

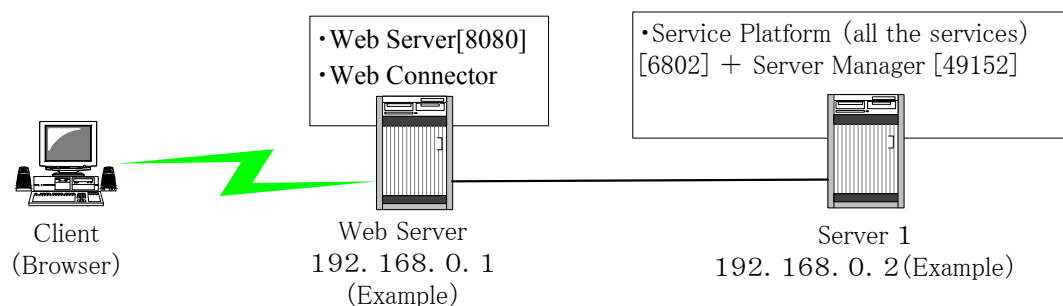
### 3.2.3.2.2 Machine Configuration 2

#### ■ Running on 2 Servers

**Server Manager and Service Platform (all services) will be operated within the same server.**

Install **Web Server Connector** on the Web Server.

Install **all server modules** to Server 1.



[ ] includes a port number.

+ means operating in the same server.

### 3.2.3.2.2.1 Installing into the Web Server

#### ■ Install Web Server Connector

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Please proceed with the installation in the following procedure. (The following example is based on Windows, Standard version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	n
Install Web Server Connector (y/n)?	y
Install IM-Administrator (y/n)?	n
Enter the installed location of Web Server Connector	Enter the full path (This location is referred to as “%web_path%”)
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Install sample (y/n)?	n
Is this configuration OK(y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

## 3.2.3.2.2.2 Installing into Server 1

## ■ Install all server modules.

- (1) Start up the Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module(y/n)?	y
Install web server connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	1
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	2
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.2 (*1)
Enter the Port Number to be used by Web Server Connector	6802
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.2:6802 (*2)
Enter Application Runtime URL	http://192.168.0.1:8080/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*3) and (\*5).

### 3.2.3.2.3 Machine Configuration 3

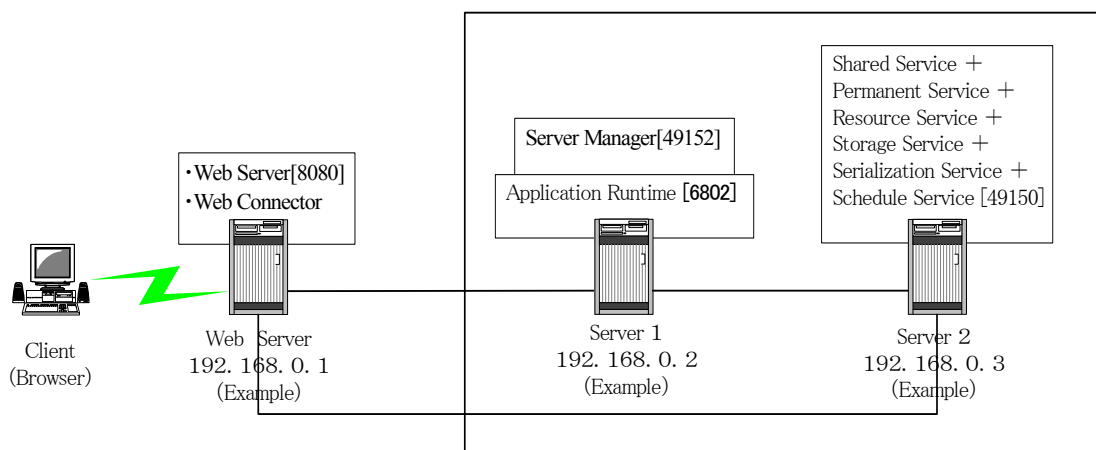
#### ■ Running on 3 Servers

Install **Web Server Connector** to the Web Server.

Install **Server Manager and Application Runtime** to Server 1.

Install **all other services** to Server 2.

\* Depending on the access frequency and the contents of application, Server 1 or 2 can be shared with DB server.  
In addition, it is possible to install Application Runtime as Web Server (HTTP Server).



[ ] means Port Number.

+ means that it works on the same server.

### 3.2.3.2.3.1 Installing into the Web Server

#### ■ Install Web Server Connector

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	n
Install Web Server Connector (y/n)?	y
Install IM-Administrator (y/n)?	n
Enter the installed location of Web Server Connector	Enter the full path (This location is referred to as “%web_path%”)
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Install sample (y/n)?	n
Is this configuration OK(y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

## 3.2.3.2.3.2 Installing into Server 1

## ■ Install Server Manager and Application Runtime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module(y/n)?	y
Install web server connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	1
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	2
Select the character code of Server Module. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Enter the host address	192.168.0.2 (*1)
Enter the Port Number to be connected to the Web Server Connector	6802
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.2:6802 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example:64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example:128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2) and (\*5).



### 3.2.3.2.3.3 Installing into Server 2

#### ■ Install all other services (except for Application Runtime)

- (1) Start up Installer. (Please refer to **3.2.1 Starting Up and Operating Installer** for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Enter the full path (This location is referred to as "%im_path%")	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	y
Install Permanent Data Service (y/n)?	y
Install Resource Service (y/n)?	y
Install Storage Service (y/n)?	y
Install Serialization Service (y/n)?	y
Install Schedule Service(y/n)?	y
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.3 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.2 (*1)
Enter the port number of Server Manager	49152
Enter Service Platform ID	192.168.0.3:49150 (*2)
Enter the URL of ApplicationRuntime	http://192.168.0.1:8080/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*3) and (\*5).

## 3.2.3.2.4 Machine Configuration 4

## ■ Running on 9 Servers

Install **Web Server Connector** to the Web Server.

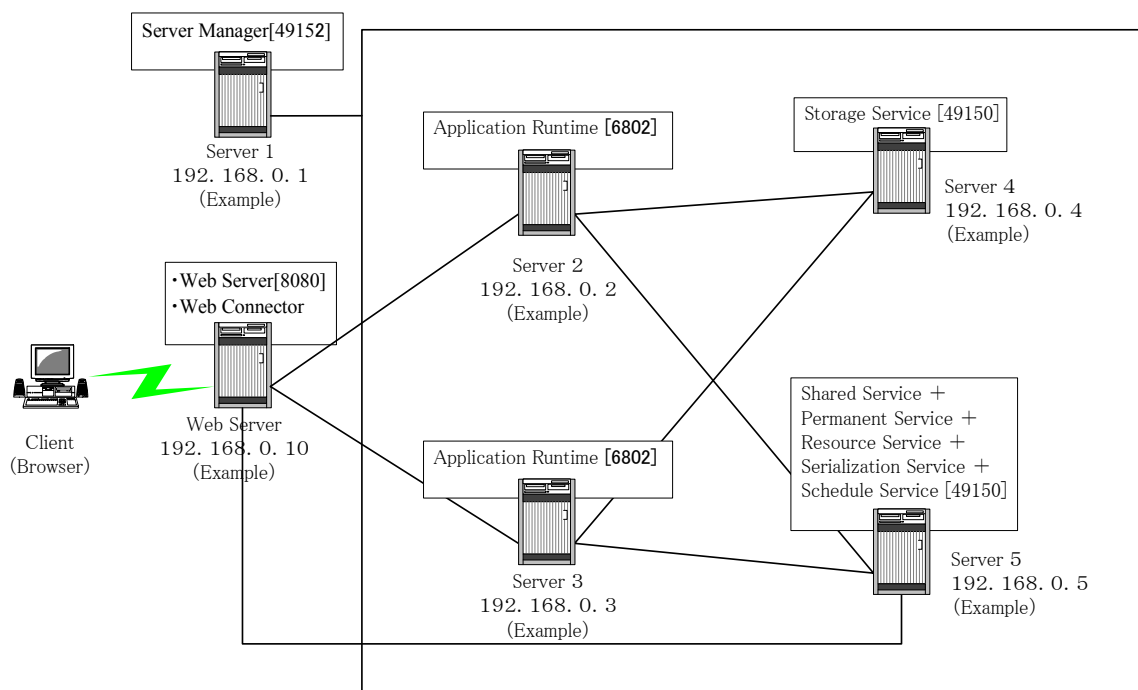
Install **Server Manager** to Server 1.

Install **Application Runtime** to Server 2.

Install **Application Runtime** to Server 3.

Install **Storage Service** to Server 4.

Install all the **other Services** to Server 5.



[ ] means Port Number.

+ means that it works on the same server.

### 3.2.3.2.4.1 Installing into the Web Server

#### ■ Install Web Server Connector

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	n
Install Web Server Connector (y/n)?	y
Install IM-Administrator (y/n)?	n
Enter the installed location of Web Server Connector	Enter the full path (This location is referred to as “%web_path%”)
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Install sample (y/n)?	n
Is this configuration OK(y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

### 3.2.3.2.4.2 Installing into Server 1

#### ■ Install Server Manager

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as “%im_path%”)
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	2
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the Port Number to be used by Server Manager	49152
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

## 3.2.3.2.4.3 Installing into Server 2

## ■ Install Application Runtime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	2
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the host address	192.168.0.2 (*1)
Enter the Port Number to be connected to the Web Server Connector	6802
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	APP:192.168.0.2:6802 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2) and (\*5).

### 3.2.3.2.4.4 Installing into Server 3

#### ■ Application Runtime Installation

- (1) Start up Installer. (Please refer to **3.2.1 Starting Up and Operating Installer** for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as “%im_path%”)
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	2
Select the character code of Server Module. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Enter the host address	192.168.0.3 (*1)
Enter the Port Number to be connected to the Web Server Connector	6802
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	APP:192.168.0.3:6802 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “**3.2.3.1 Notes**” about details of (\*1), (\*2) and (\*5).

## 3.2.3.2.4.5 Installing into Server 4

## ■ Install Storage Service

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	n
Install Permanent Data Service (y/n)?	n
Install Resource Service (y/n)?	n
Install Storage Service (y/n)?	y
Install Serialization Service (y/n)?	n
Install Schedule Service (y/n)?	n
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the host address	192.168.0.4 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.4:49150 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2) and (\*5).

### 3.2.3.2.4.6 Installing into Server 5

#### ■ Install the services (except for Application Runtime and Storage Service)

- (1) Start up Installer. (Please refer to **3.2.1 Starting Up and Operating Installer** for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	1
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install Web Server Connector (y/n)?	n
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	y
Install Permanent Data Service (y/n)?	y
Install Resource Service (y/n)?	y
Install Storage Service (y/n)?	n
Install Serialization Service (y/n)?	y
Install Schedule Service (y/n)?	y
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the host address	192.168.0.5 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.5:49150 (*2)
Enter the URL of ApplicationRuntime	http://192.168.0.1:8080/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “**3.2.3.1 Notes**” about details of (\*1), (\*2) and (\*5).

### 3.2.3.3 Machine Configuration of intra-mart WebPlatform (JBoss)

In this chapter, the Machine Configuration shown below is the example that is used when the product is installed.

- |   |                        |
|---|------------------------|
| ■ OS  | : Windows              |
| ■ Server modules' character code                      | : Windows-31J          |
| ■ Character code to be transmitted to the Web Server. | : Windows-31J          |
| ■ Type of products                                    | : IWP (JBoss) Standard |

If installed using other type of OS, please select relevant character code for the OS.

(If you establish multilingual system, please select “UTF-8” as “**Server Module Character Code**” and “**Character Code to be transmitted to Web Browser**”).

\* In case of distributed Machine Configuration (“Machine Configuration2 – Machine Configuration3” in the following example), you are not able to install other services on JBoss running the Application Runtime.

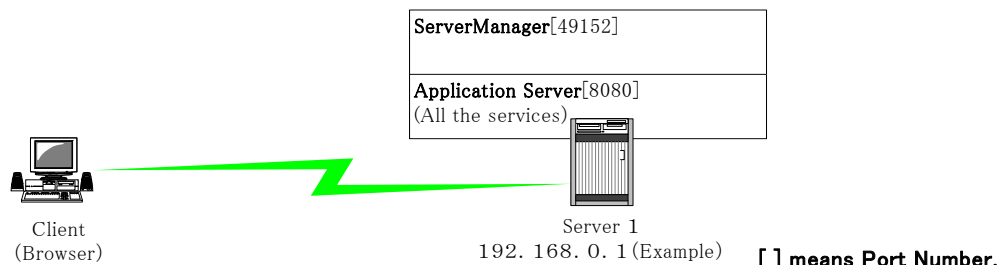
\*When installation of ApplicationRuntime is completed, installation of JBoss and creation of War file are also completed. (You can start up JBoss by exciting “**run -c imart**” command in <%JBoss\_path%/bin.) In case of using IWP (JBoss), when you change contents or re-compile a class, you have to make WAR file and deploy again.



### 3.2.3.3.1 Machine Configuration1

#### ■ Running on One Server

Install **Application Server** and **all services** to Server.



#### 3.2.3.3.1.1 Installing into Server 1

##### ■ Install all the Services

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	1
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the host address	192.168.0.1 (*1)
Enter the location of installation of JBoss	Enter the full path (This location is referred to as "%boss_path%")
Enter the Port Number to be used by JBoss	8080
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.1 (*2)
Enter Application Runtime URL	http://192.168.0.1:8080/imart/HTTPActionEventListener (*3)
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

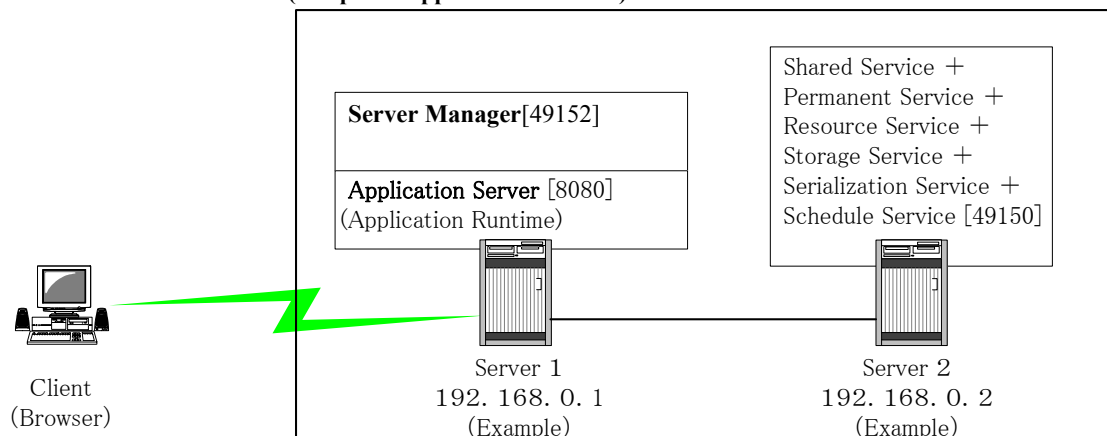
Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2), (\*3) and (\*5).

## 3.2.3.3.2 Machine Configuration2

## ■ Running on 2 Servers

Install **Application Runtime** and **Server Manager** to Server 1.

Install **all other services (except for Application Runtime)** to Server 2.



[ ] means Port Number

+ means that it works on the same server.

## 3.2.3.3.2.1 Installing into Server 1

## ■ Install Server Manager and ApplicationRuntime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module(y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	1
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the character code of Server Module. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Select the character code to be transmitted to the Web Server (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	1(*5)
Enter the host address	192.168.0.1 (*1)
Enter the location of installation of JBoss	Enter the full path(This location is referred to as "%jboss_path%")
Enter the Port Number to be used by JBoss	8080
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.1 (*2)

Install a sample (y/n)?	<b>n</b>
Register the following Start Menu	<b>intra-mart WebPlatform Ver6.1</b>
Is this configuration OK (y/n)?	<b>y</b>

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2) and (\*5).

### 3.2.3.3.2.2 Installing into Server 2

#### ■ Install all other services (except for Application Runtime)

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	<b>2</b>
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	<b>1</b>
Install Server Module(y/n)?	<b>y</b>
Install IM-Administrator (y/n)?	<b>y</b>
Enter the home directory of JDK	<b>Enter the full path</b>
Enter the location of installation	<b>Enter the full path (This location is referred to as “%im_path%”)</b>
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	<b>2</b>
Select the configuration of HTTP Server (1: Use intra-mart HTTP Server 2: Use Web Server Connector)?	<b>3</b>
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	<b>2</b>
Install Shared Memory Service (y/n)?	<b>y</b>
Install Permanent Data Service (y/n)?	<b>y</b>
Install Resource Service (y/n)?	<b>y</b>
Install Storage Service (y/n)?	<b>y</b>
Install Serialization Service (y/n)?	<b>y</b>
Install Schedule Service (y/n)?	<b>y</b>
Select the character code of Server Module. (1:Windows-31J 2:SJIS 3:EUC-JP 4:UTF8)?	<b>1(*5)</b>
Enter the host address	<b>192.168.0.2 (*1)</b>
Enter the Port Number to be used by Service Platform	<b>49150</b>
Enter the address of Server Manager	<b>192.168.0.1 (*1)</b>
Enter the Port Number of Server Manager	<b>49152</b>
Enter Service Platform ID	<b>192.168.0.2:49150 (*2)</b>
Enter the URL of ApplicationRuntime	<b>http://192.168.0.1:8080/imart/HTTPActionEventListener (*3)</b>
Default Heap Size of Service Platform (-Xms) [MB] (Example:64)	<b>64</b>
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example:128)	<b>128</b>
Install a sample (y/n)?	<b>n</b>
Register the following Start Menu	<b>intra-mart WebPlatform Ver6.1</b>
Is this configuration OK (y/n)?	<b>y</b>

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*3) and (\*5).

### 3.2.3.3.3 Machine Configuration3

#### ■ Running on 4 Servers

Install **Server Manager** to Server 1.

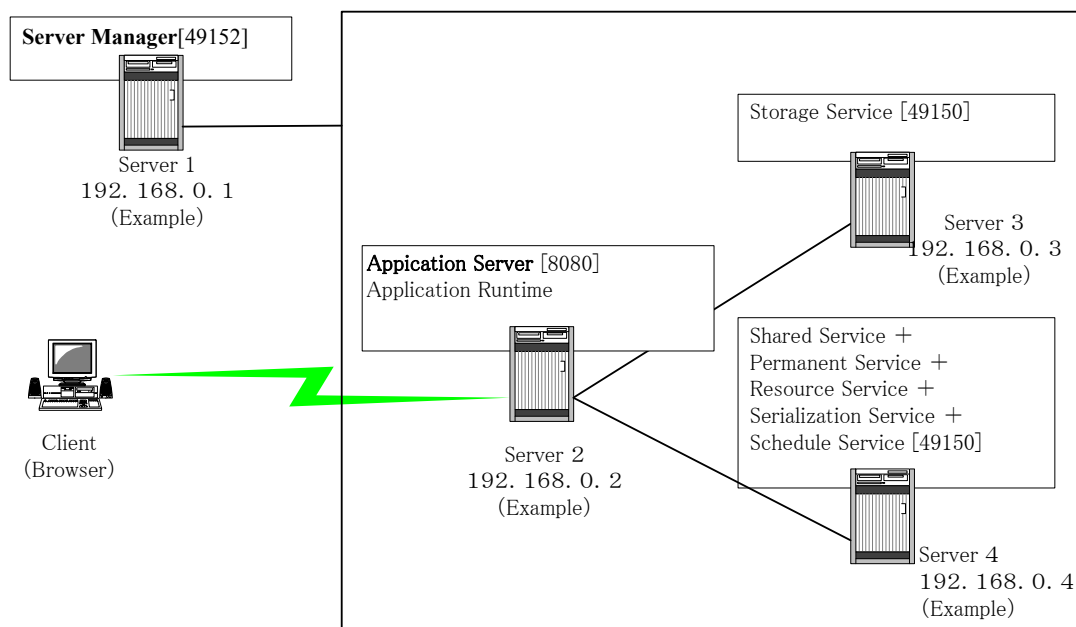
Install **Application Runtime** to Server 2.

Install **Storage Service** to Server 3.

Install all **other services** to Server 4.

\* If the utilization of Storage Service is low, it can be installed to Server 4.

\* Depending on the access frequency and the contents of application, Server 2 or 3 can be shared with DB server.



### 3.2.3.3.1 Installing into Server 1

#### ■ Install Server Manager

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	2
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the Port Number to be used by Server Manager	49152
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

## 3.2.3.3.2 Installing into Server 2

## ■ Install Application Runtime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the address of the host	192.168.0.2 (*1)
Enter the location of installation of JBoss	Enter the full path (This location is referred to as "%jboss_path%")
Enter the Port Number to be used by JBoss	8080
Enter the Port Number to be used by Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	APP:192.168.0.2 (*2)
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2) and (\*5).

### 3.2.3.3.3 Installing into Server 3

#### ■ Install Storage Service

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	n
Install Permanent Data Service (y/n)?	n
Install Resource Service (y/n)?	n
Install Storage Service (y/n)?	y
Install Serialization Service (y/n)?	n
Install Schedule Service (y/n)?	n
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the address of the host	192.168.0.3 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.3:49150 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2) and (\*5).

## 3.2.3.3.4 Installing into Server 4

## ■ Install all other services (except for Application Runtime and Storage Service).

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	2
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as “%im_path%”)
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	y
Install Permanent Data Service (y/n)?	y
Install Resource Service (y/n)?	y
Install Storage Service (y/n)?	n
Install Serialization Service (y/n)?	y
Install Schedule Service (y/n)?	y
Select the character code of Server Module. (1: Windows-31J 2: SJIS 3: EUC-JP 4: UTF8)?	1(*5)
Enter the host address	192.168.0.4 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.4:49150 (*2)
Enter Application Runtime URL	http://192.168.0.2:8080/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart WebPlatform Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*3) and (\*5).



### 3.2.3.4 intra-mart AppFramework Machine Configuration

In this chapter, the Machine Configuration shown below is the example that is used when the product is installed.

- OS : Windows
- Server modules' character code : Windows-31J
- Character code to be transmitted to the Web Server. : Windows-31J
- Type of products : AFW Standard

If installed using other type of OS, please select relevant character code for the OS.

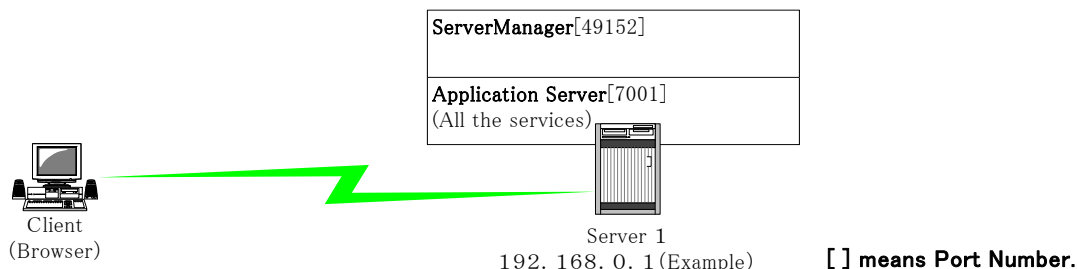
(If you **establish multilingual system**, please select **“UTF-8”** as **“Server Module Character Code”** and **“Character Code to be transmitted to Web Browser”**.)

\* In case of distributed Machine Configuration (“Machine Configuration2 – Machine Configuration3” in the following example), you are not able to install other services on JBoss running the Application Runtime.

## 3.2.3.4.1 Machine Configuration 1

## ■ Running on One Server

Install **Application Server** and **all services** to Server.



## 3.2.3.4.1.1 Installation into Server 1

## ■ Install all services

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path (*6)
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	1
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.1 (*1)
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.1 (*2)
Enter Application Runtime URL	http://192.168.0.1:7001/imart/HTTPActionEventListener (*3)
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

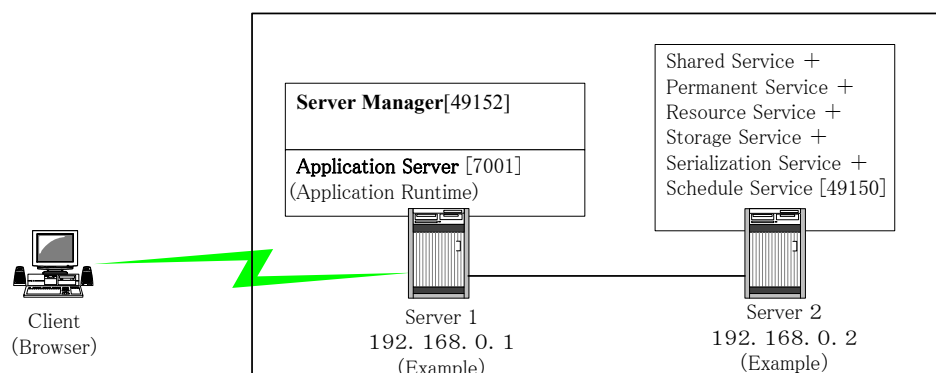
Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2), (\*3), (\*5) and (\*6).

### 3.2.3.4.2 Machine Configuration2

#### ■ Running on 2 Servers

Install **Application Runtime** and **Server Manager** to Server 1.

Install all **other services (except for Application Runtime)** to Server 2.



[ ] means Port Number.

+ means that it works on the same server.

#### 3.2.3.4.2.1 Installing into Server 1

##### ■ Install Server Manager and Application Runtime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path (*6)
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	1
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.1 (*1)
Enter the Port Number to be used by Server Manager	49152
Enter Service Platform ID	APP:192.168.0.1 (*2)
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2), (\*5) and (\*6).

## 3.2.3.4.2.2 Installing into Server 2

## ■ Install all other services (except for Application Runtime)

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	y
Install Permanent Data Service (y/n)?	y
Install Resource Service (y/n)?	y
Install Storage Service (y/n)?	y
Install Serialization Service (y/n)?	y
Install Schedule Service (y/n)?	y
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.2 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.2:49150 (*2)
Enter Application Runtime URL	http://192.168.0.1:7001/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2), (\*3) and (\*5).

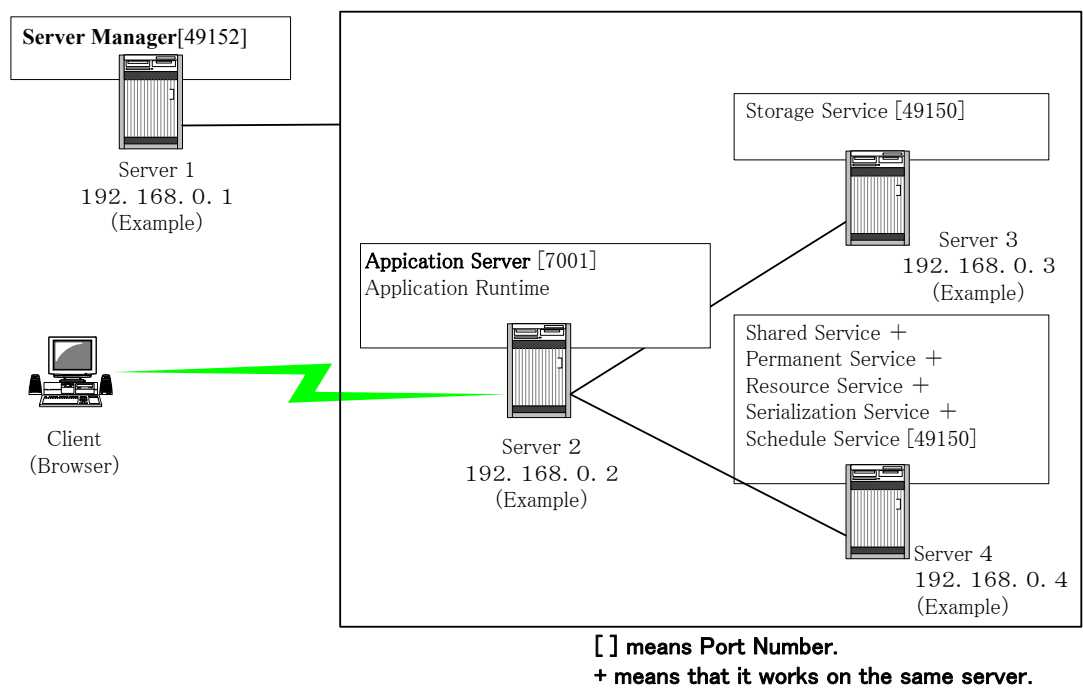
### 3.2.3.4.3 Machine Configuration3

#### ■ Running on 4 Servers

- Install **Server Manager** to Server 1.
- Install **Application Runtime** to Server 2.
- Install **Storage Service** to Server 3.
- Install all **other services** to Server 4.

\* If the utilization of Storage Service is low, it can be installed to Server 4.

\* Depending on the access frequency and the contents of application, Server 2 or 3 can be shared with DB server.



## 3.2.3.4.3.1 Installing into Server 1

## ■ Install Server Manager

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	2
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the Port Number to be used by Server Manager	49152
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*5).

### 3.2.3.4.3.2 Installing into Server 2

#### ■ Install Application Runtime

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path (*6)
Enter the location of installation	Enter the full path (This location is referred to as “%im_path%”)
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	1
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Select the character code to be transmitted to the Web Server (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.2 (*1)
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	APP:192.168.0.2 (*2)
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to “3.2.3.1 Notes” about details of (\*1), (\*2), (\*5) and (\*6).

## 3.2.3.4.3.3 Installing into Server 3

## ■ Install Storage Service

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows,
- (3) Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	n
Install Permanent Data Service (y/n)?	n
Install Resource Service (y/n)?	n
Install Storage Service (y/n)?	y
Install Serialization Service (y/n)?	n
Install Schedule Service (y/n)?	n
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.3 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.3:49150 (*2)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2) and (\*5).



## 3.2.3.4.3.4 Installing into Server 4

## ■ Install all other services (except for Application Runtime and Storage Service)

- (1) Start up Installer. (Please refer to 3.2.1 Starting Up and Operating Installer for details)
- (2) Proceed with the installation in the following procedure. (The following example is based on Windows, Standard Version)

Procedures	Inputs
Select the product to be installed. (1: intra-mart WebPlatform (Resin) 2: intra-mart WebPlatform (JBoss) 3: intra-mart AppFramework 4: intra-mart DebugServer)?	3
Select the type of product to be installed. (1: Standard 2: Advanced 3: Enterprise)?	1
Install Server Module (y/n)?	y
Install IM-Administrator (y/n)?	y
Enter the home directory of JDK	Enter the full path
Enter the location of installation	Enter the full path (This location is referred to as "%im_path%")
Select the configuration of Server Module. (1: Create standalone environment 2: Create distributed environment)?	2
Select the module to be installed. (1: Server Manager and Service Platform 2: Server Manager only 3: Service Platform only)?	3
Select a service of Service Platform (1: Application Runtime Service 2: Select other services)?	2
Install Shared Memory Service (y/n)?	y
Install Permanent Data Service (y/n)?	y
Install Resource Service (y/n)?	y
Install Storage Service (y/n)?	n
Install Serialization Service (y/n)?	y
Install Schedule Service (y/n)?	y
Select the character code of Server Module. (1: Windows-31J 2: Shift_JIS 3: EUC-JP 4: UTF-8)?	1(*5)
Enter the host address	192.168.0.4 (*1)
Enter the Port Number to be used by Service Platform	49150
Enter the address of Server Manager	192.168.0.1 (*1)
Enter the Port Number of Server Manager	49152
Enter Service Platform ID	192.168.0.4:49150 (*2)
Enter Application Runtime URL	http://192.168.0.2:7001/imart/HTTPActionEventListener (*3)
Default Heap Size of Service Platform (-Xms) [MB] (Example: 64)	64
Maximum Heap Size of Service Platform (-Xmx) [MB] (Example: 128)	128
Install a sample (y/n)?	n
Register the following Start Menu	intra-mart AppFramework Ver6.1
Is this configuration OK (y/n)?	y

Please refer to "3.2.3.1 Notes" about details of (\*1), (\*2), (\*3) and (\*5).

### 3.2.3.5 Other Machine Configuration

This product is designed to allow the various services to be set up on each machine in any way.

As long as the minimum services required are running, it can be operated regardless of which service is on which Service Platform.

#### ■ Number of Each Service Required for Operation

Web Server Connector×0~∞ (in case of IWP (Resin) only)

Server Manager×1

Application Runtime×1~∞ (In case of IWP (JBoss), Application Server)

Shared Memory Service×1~2

Permanent Data Service×1~2

Resource Service×1~2

Storage Service×1~2

Serialization Service×1~2

These services can have stand-by **Secondary Service**.  
(Please refer to “3.2.3.5.3 In Case of Setting Up Standby Unit for Each Service”)

Schedule Service×0~2 (if not used, there is no need for installation.)

#### ■ Number of Minimum Services Required for Operation

Server Manager×1

Application Runtime×1 (In case of IWP (JBoss), Application Server)

Shared Memory Service×1

Permanent Data Service×1

Resource Service×1

Storage Service×1

Serialization Service×1

The machine configuration explained by far is only with reference to the “**Machine Configuration Example**”.

It is possible to run with a different machine configuration other than those mentioned above.

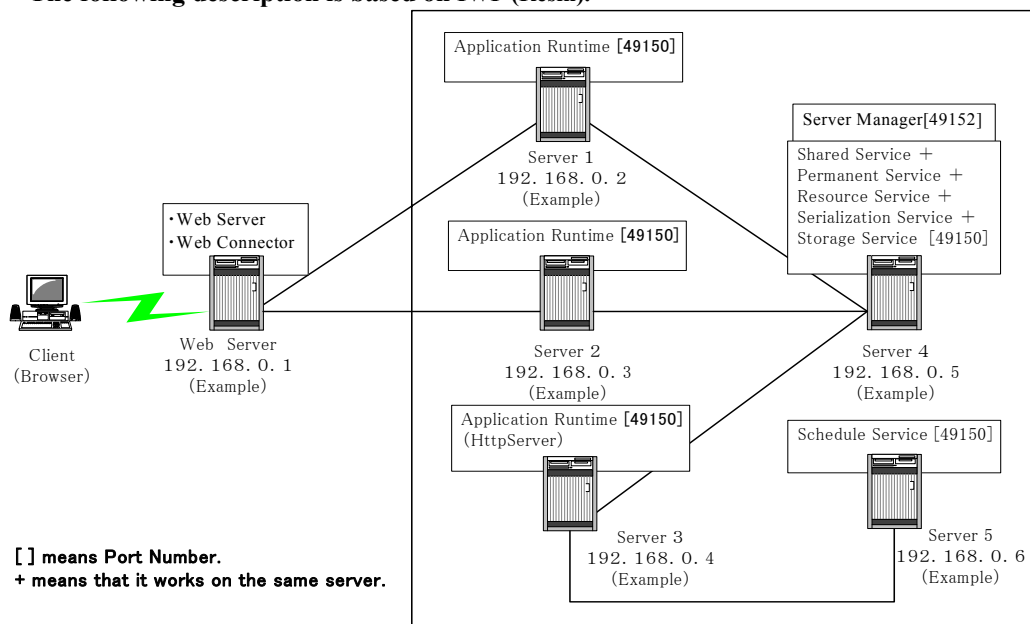
It is recommended to create a machine configuration diagram based on the machine configuration example, prior to the installation.

The point in creating the machine configuration diagram is to clearly state the IP address of each machine, port number of each Service Platform, and name of each service which run on Service Platform.

The installation process would be smooth, as long as the above-mentioned are clearly defined.

### 3.2.3.5.1 Server Configuration exclusive for Batch Program Execution

\* The following description is based on IWP (Resin).

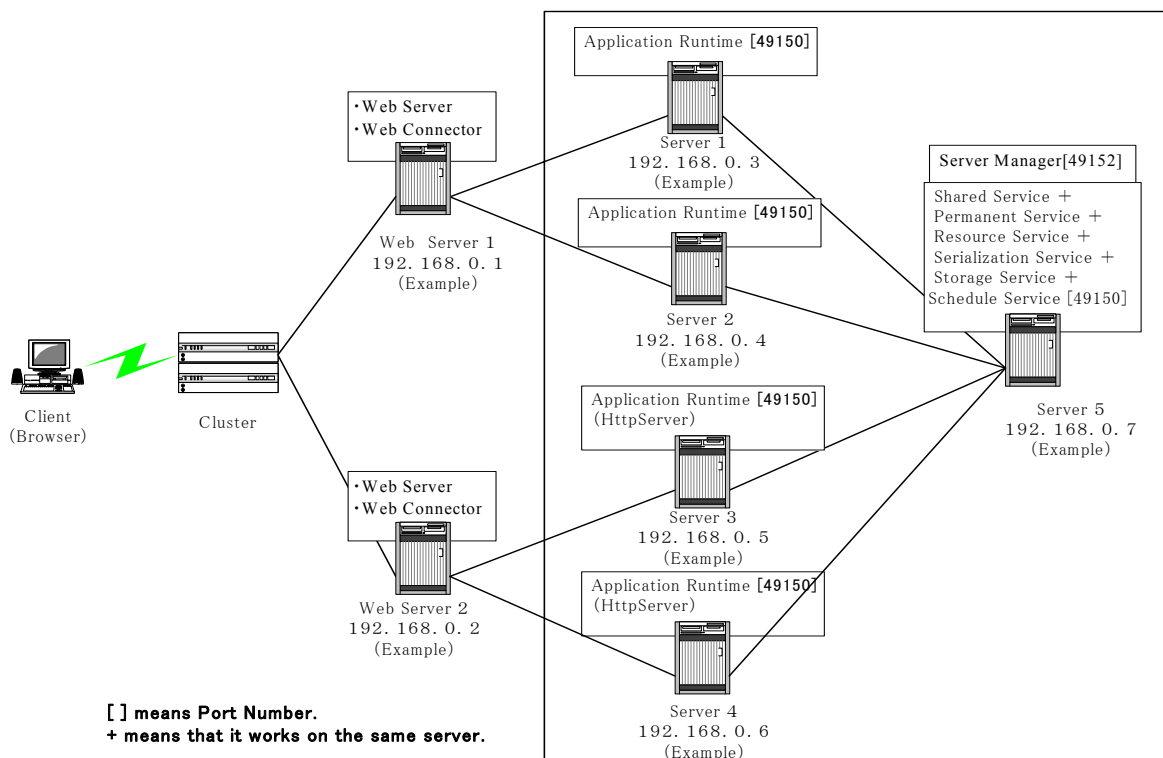


\* Designate the Server 3 exclusive for Batch Program Execution.

### 3.2.3.5.2 Web Server Distributed Configuration derived from Commercial Cluster Product.

\*The description here is applicable exclusively for IWP (Resin).

In this case, the session failover method may require using <Memory-to-RDB method>.



### 3.2.3.5.3 In Case of Setting up Standby Unit for Each Service

Each service may be setup to run a **secondary service**.

As a result, the secondary service can take over processing even if the primary service is down.

The above-mentioned examples of Machine Configuration have so far installed only one service (except for ApplicationRuntime) per machine. However, if the same service is installed in another server, that information will be reported to Server Manager, which will automatically set up that server as a secondary service.

The order of primary and secondary services should be:

the first service to be activated will be set as **primary**, while the one activated later will be **secondary**.

If the secondary service is set up with Permanent Data Service, Resource Service or Storage Service, a specified directory must be shared.

#### ■ How to Share Disk

“Shared Directory” in the table below is shared among multiple computers.

(Sharing will be done using network drive For Windows, and NFS or Samba in case of UNIX.)

In case of setting up a system that utilize **Fault Tolerance Function** by running the same service on a multiple number of machines, all services must be able to read and write the common data.

Service	Directory to be shared	Setting items on imart.xml
Permanent Data Service	<%im_path%>/treasure	intra-mart/platform/permanent/treasure-root
Resource Service	<%im_path%>/pages	intra-mart/platform/resource/jssp /source-path/.../ directory
Storage Service	<%im_path%>/storage	intra-mart/platform/storage/file-root

If the shared directory is located in a different directory from that of the service, the target directory can be changed.

Edit the settings file <%im\_path%>/conf/imart.xml, which is saved in each service’s target installation directory.

By specifying the directory with absolute path on each service’s “Settings Items on imart.xml ” shown above, it is possible to assign a specific directory as a data storage directory.

For example, by specifying the directory that is configured with network drive, it is possible to share the data with other computers.

\* As for the details on each settings item, please refer to the Settings Guide <Service & Platform>.

### 3.2.3.5.4 About Session Failover

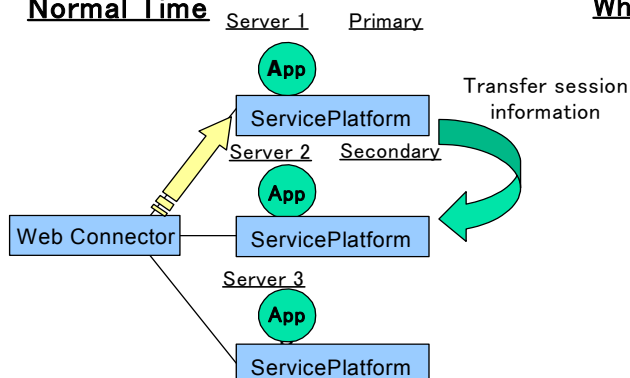
\* The description here is applicable exclusively for IWP (Resin).

By setting up a multiple number of Application Runtime, it is possible to have HttpSession (login session) fail-over.  
(\* Please refer to “How to Setup HttpSession Fault Tolerance” under <Http> section of Configuration Guide.)

There are 2 methods for session failover with IWP (Resin).

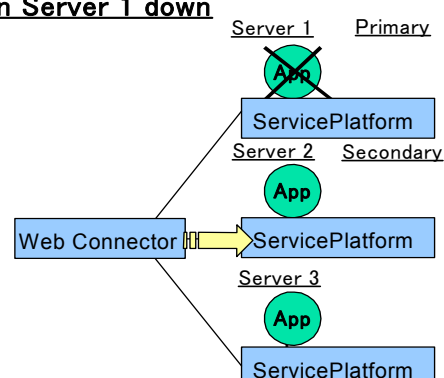
#### ■ Memory-to-Memory Method

##### Normal Time



The session information will be transferred from **Primary** server to **Secondary** server. For Server 1, Server 2 will be the secondary, while for Server 2, Server 3 will be the secondary, and for Server 3, Server 1 will be the secondary.

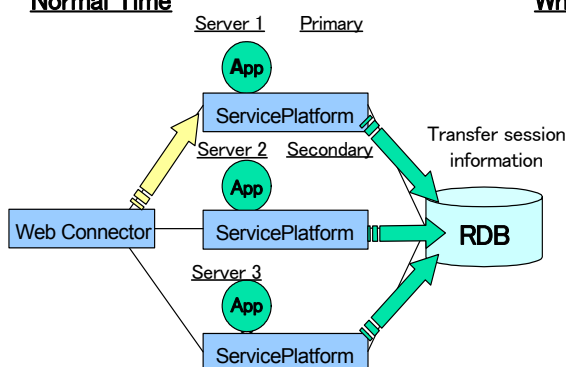
##### When Server 1 down



Once Server 1 is down, Web connector changes its access point to Server 2, with transferring the session information to Server 2 and makes it accessible like Server 1. However, if both Server 1 and 2 are down, the session information will be lost.

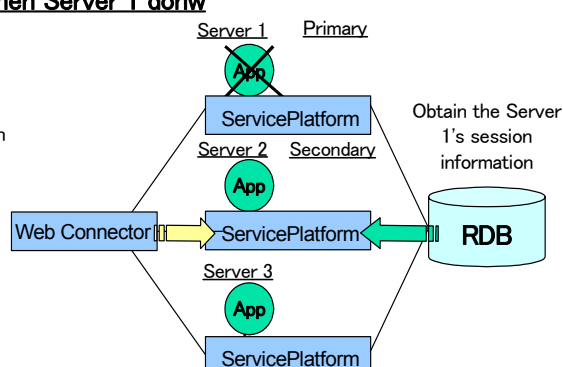
#### ■ Memory-to-RDB Method

##### Normal Time



The session information will be shared within RDB.

##### When Server 1 down



Once Server 1 is down, Web connector changes its access point to the Server 2. Server 2 will get Server 1's session information from RDB to make it accessible just like Server 1. Unlike **Memory-to-Memory Method**, even if Server 2 is also down, the session continues to be shared. However, due to the use of RDB, its response time will be slower.

### 3.2.4 About License Registration

Please follow the procedure below to register the license.

\* License registration is not required in case of using Trial version.

After registering the license, the entire Server needs to be rebooted.

The following description refers to the directory installed with Server Manager as <%im\_path%>.

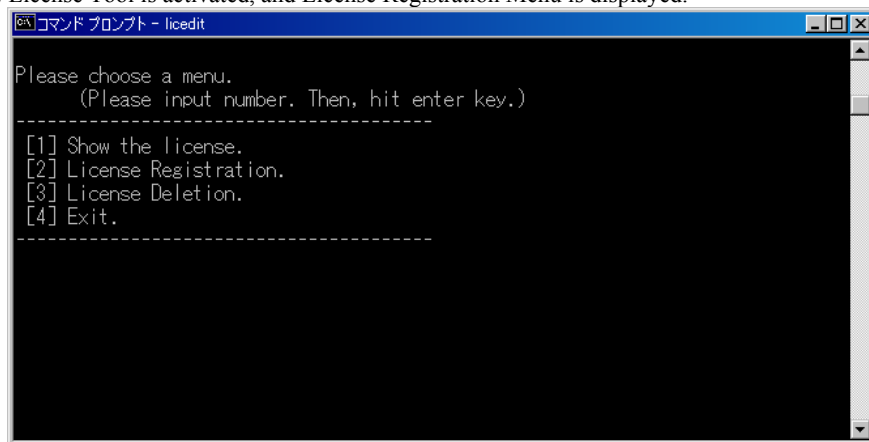
- (1) Go to <%im\_path%>/bin/tools and execute the following commands.

(Shut down Server Manager at this time.)

For Windows : **licedit.bat**

For UNIX : **licedit.sh**

- (2) License Tool is activated, and License Registration Menu is displayed.



- (3) Select [2] from the Menu and register License Key.

If it is registered correctly, the registered license should be displayed.

- (4) Select [1] from the Menu to browse License Tool.

- (5) Select [3] from the Menu to delete License Tool.

Please select a number of license key numbers to be deleted, while registered licenses are shown.

- (6) Select [4] from the Menu to end License Tool.

- (7) Reboot the entire Server.

That's all for post- installation license registration.

### 3.2.5 About Silent Mode of Installer

Installer of intra-mart includes “Silent Mode” to reproduce installation procedure. Below are procedures of installation by Silent Mode.

- (1) Output installation setting procedures into a file  
(Please refer to “3.2.5.1 Output installation setting into a file” for details)
- (2) Load the setting files and install them  
(Please refer to “エラー! 参照元が見つかりません。 Load the setting files” and install them for details)

#### 3.2.5.1 Output installation setting procedures into a file

When installer is started up, installation setting procedures can be saved by specifying option “-s **Setting file name**”.

- (1) Confirm whether java command has a path.
- (2) Copy iwp\_afw/install/setup.jar in this product CD-ROM in an adequate directory.
- (3) Move to a directory containing copied seup.jar in the console
- (4) Enter following command in the console

```
java -jar ./setup.jar -s Setting file name
```

\*Setting file name is specified by the relative path from a directory containing setup.jar.

- (5) Installer is activated (Install it in interactive mode in the console)
- (6) Input a value according to the instruction of installer.
- (7) At the end of the procedures, setting items are displayed. If it is OK for you, input “y”.
- (8) Installation is started.

Above mentioned installation procedures are output to the setting file.

#### 3.2.5.2 Load the setting files and install them

By specifying option “-f **setting file name**” at the installation, installation automatically starts according to the procedures which is set in “3.2.5.1 Output installation setting into a file”.

- (1) Move to a directory containing copied seup.jar in the console
- (2) Input following command in the console

```
java -jar ./setup.jar -f Setting file name
```

\*Setting file name is specified as the relative path from a directory containing setup.jar.

### 3.2.6 Interaction with Web Service (Axis)

The description in this chapter is applicable **exclusively for IWP (Resin)**.

The following description explains how to run Web Service server on IWP. As for the Web Service server, Axis provided by Apache Software Foundation will be used.

#### (Notes)

- The method employed here is a simplified version of the intra-mart and Axis interaction.
- Please refer to Axis website (<http://ws.apache.org/axis/>) for further details on Axis.

#### 3.2.6.1 Preparation

The followings are requirements

- intra-mart WebPlatform Ver6.1
- Apache Axis 1.4

##### 3.2.6.1.1 intra-mart WebPlatform Ver6.1

Prepare intra-mart WebPlatform Ver6.1 Installer.

##### 3.2.6.1.2 Apache Axis 1.4

- (1) Please download Axis 1.4 from the following URL.  
[http://www.apache.org/dyn/closer.cgi/ws/axis/1\\_4/](http://www.apache.org/dyn/closer.cgi/ws/axis/1_4/) (as of 31/07/2007)  
Assuming the downloaded file is “axis-bin-1\_4.zip”.
- (2) Expand the axis-bin-1\_4.zip file at any appropriate location using a Zip file extracting software. If the zip file is expanded into “C:\axis” directory in Windows, the result will be indicated as shown in “Diagram 3-1 Result of Axis Expansion”. In this guide, the Axis root directory (C:\axis\axis-1\_4, in this case) will be stated as <AXIS\_HOME>.

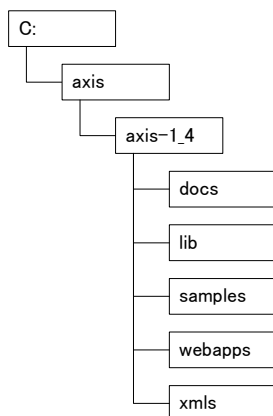


Diagram 3-1 Result of Axis Expansion



### 3.2.6.2 Installation

#### 3.2.6.2.1 intra-mart WebPlatform installation

Please install IWP so that it takes on the following environment. The details of installation method will be omitted here.

- Stand alone
- Use intra-mart HTTP server (do not use Web Server Connector)

In this guide, IWP's installation path will be stated as <IMART\_HOME>.

It is presumed that the context path of intra-mart Application Runtime is set as [/imart], while the port number of the server is [8080]. They should be same values to the ones when IWP is installed as default. If these values were changed, please change the contents of this section accordingly.

#### 3.2.6.2.2 Building in Axis

- (1) Check if IWP is terminated.
- (2) Copy the below files found in "<AXIS\_HOME>/webapps/axis" directory to be right under the "<IMART\_HOME>/doc/imart" directory.
  - ✧ EchoHeaders.jws
  - ✧ fingerprint.jsp
  - ✧ happyaxis.jsp
  - ✧ i18nLib.jsp
  - ✧ index.html
  - ✧ index.jsp
  - ✧ SOAPMonitorApplet.java
  - ✧ StockQuoteService.jws
- (3) Copy the "<AXIS\_HOME>/webapps/axis/WEB-INF/users.lst" file to be right under the "<IMART\_HOME>/doc/imart/WEB-INF" directory.  
(Reminder: **Do not copy web.xml**. If copied, BMv5 will not be able to start up properly.)
- (4) Copy the following directories under the "<AXIS\_HOME>/webapps/axis/WEB-INF" directory to be right under the "<IMART\_HOME>/doc/imart/WEB-INF" directory and overwrite the content of this directory.
  - ✧ classes
  - ✧ lib
- (5) Add the contents shown in "3-1 Editing web.xml" to <IMART\_HOME>/doc/imart/WEB-INF/web.xml.  
(This content can also be copied from <AXIS\_HOME>/webapps/axis/WEB-INF/web.xml.)

## List 3-1 Editing web.xml

```

:
<servlet>
  <servlet-name>AxisServlet</servlet-name>
  <display-name>Apache-Axis Servlet</display-name>
  <servlet-class>
    org.apache.axis.transport.http.AxisServlet
  </servlet-class>
</servlet>

<servlet>
  <servlet-name>AdminServlet</servlet-name>
  <display-name>Axis Admin Servlet</display-name>
  <servlet-class>
    org.apache.axis.transport.http.AdminServlet
  </servlet-class>
  <load-on-startup>100</load-on-startup>
</servlet>

<servlet>
  <servlet-name>SOAPMonitorService</servlet-name>
  <display-name>SOAPMonitorService</display-name>
  <servlet-class>
    org.apache.axis.monitor.SOAPMonitorService
  </servlet-class>
  <init-param>
    <param-name>SOAPMonitorPort</param-name>
    <param-value>5001</param-value>
  </init-param>
  <load-on-startup>100</load-on-startup>
</servlet>

:
:
<servlet-mapping>
  <servlet-name>AxisServlet</servlet-name>
  <url-pattern>/servlet/AxisServlet</url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>AxisServlet</servlet-name>
  <url-pattern>*.jws</url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>AxisServlet</servlet-name>
  <url-pattern>/services/*</url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>SOAPMonitorService</servlet-name>
  <url-pattern>/SOAPMonitor</url-pattern>
</servlet-mapping>

<!-- uncomment this if you want the admin servlet -->
<!--
<servlet-mapping>
  <servlet-name>AdminServlet</servlet-name>
  <url-pattern>/servlet/AdminServlet</url-pattern>
</servlet-mapping>
-->

:
:

```

```

<!-- currently the W3C havent settled on a media type for WSDL;
http://www.w3.org/TR/2003/WD-wsdl12-20030303/#ietf-draft
for now we go with the basic 'it's XML' response -->

```

```

<mime-mapping>
  <extension>wsdl</extension>
  <mime-type>text/xml</mime-type>
</mime-mapping>

```

```

<mime-mapping>
  <extension>xsd</extension>
  <mime-type>text/xml</mime-type>
</mime-mapping>

```

```

:

```

```

<welcome-file-list id="WelcomeFileList">
  <welcome-file>index.html</welcome-file>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>index.jws</welcome-file>
</welcome-file-list>

```

```

:

```

```

:

```

Please delete id attribute.

(when copied from <AXIS\_HOME>/webapps/axis/WEB-INF/web.xml)

### 3.2.6.2.3 Installation Confirmation

- (1) Start up IWP.
- (2) Access the following address on a web browser to check if Axis is installed on IWP.
- (3) (If the context path is "/imart") HThhttp://<hostTH name>:<port number>/imart/
- (4) If an error occurred, check if there are any errors in the content and correct accordingly. As for libraries with warning, please copy them to <IMART\_HOME>/doc/imart/WEB-INF/lib when necessary. This section ignores any warning.

### 3.2.6.3 Sample Execution

This section describes how to execute the sample attached to Axis.

#### 3.2.6.3.1 Prerequisites

The followings are the prerequisites for the use of the samples.

- Use a console different from IWP as a Web Service client.
- Web Service server and client are both on the same machine.
- JDK 1.4.2 or above version needs to be installed.

#### 3.2.6.3.2 Preparation

Add the following libraries on the console to the class path used by Java.

- <AXIS\_HOME>/lib/axis.jar
- <AXIS\_HOME>/lib/axis-ant.jar
- <AXIS\_HOME>/lib/commons-discovery-0.2.jar
- <AXIS\_HOME>/lib/commons-logging-1.0.4.jar
- <AXIS\_HOME>/lib/jaxrpc.jar
- <AXIS\_HOME>/lib/log4j-1.2.8.jar
- <AXIS\_HOME>/lib/saaj.jar
- <AXIS\_HOME>/lib/wsdl4j-1.5.1.jar

The batch files examples, which are to be added to the class paths of the libraries above in Windows, are shown in “List 3-2 Client Environment Settings”. Environment variables “JAVA\_HOME” and “MART\_HOME” represent installation paths <AXIS\_HOME> and <IMART\_HOME> respectively. Please modify according to the actual environment.

**List 3-2 Client Environment Settings**

```
set JAVA_HOME=C:\jdk1.4.2_08
set AXIS_HOME=C:\axis\axis-1_4
set IMART_HOME=C:\imart
set PATH=%JAVA_HOME%\bin
set AXIS_LIB=%AXIS_HOME%\lib
set IMART_LIB=%IMART_HOME%\bin
set CLASSPATH=.
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\axis.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\axis-ant.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\commons-discovery-0.2.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\commons-logging-1.0.4.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\jaxrpc.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\log4j-1.2.8.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\saaj.jar
set CLASSPATH=%CLASSPATH%;%AXIS_LIB%\wsdl4j-1.5.1.jar
```

Please make sure to do the above-mentioned configuration, when Web Service client is used on the console hereafter.

### 3.2.6.3.3 JWS File—Simple Deployment

This section describes the simplest deployment method.

The sample announces the class shown in “List 3-3 Web Service Sample (Calculator.java)” as Web Service.

(This source can also be found in <AXIS\_HOME>/samples/userguide/example2/Calculator.java.)

#### List 3-3 Web Service Sample (Calculator.java)

```
public class Calculator {
    public int add(int i1, int i2)
    {
        return i1 + i2;
    }

    public int subtract(int i1, int i2)
    {
        return i1 - i2;
    }
}
```

The registered Web Service will use this class to do simple addition and subtraction.

- (1) Check if IWP is terminated.
- (2) Copy the Java source file found in “List 3-3 Web Service Sample (Calculator.java)” to <IMART\_HOME>/doc/imart.
- (3) Change the copied file name to Calculator.jws.
- (4) Restart IWP.
- (5) Open “<AXIS\_HOME>/samples/userguide/example2/CalcClient.java” with text editor.
- (6) Modify and save the following section of CalcClient.java into an actual context path.

Before modification	String endpoint = "http://localhost:" + options.getPort() + "/axis/Calculator.jws";
After modification	String endpoint = "http://localhost:" + options.getPort() + "/imart/Calculator.jws";

- (7) Go to <AXIS\_HOME>/userguide/example2 on the console.  
Start up the command found in “List 3-5 Example of Simplified Deployment Execution” on the console and compile CalcClient.java. If it is successful, “CalcClient.class” file will be created.

#### List 3-4 Example of Simplified Deployment Execution

```
C:\axis\axis-1_4\samples\userguide\example2> javac CalcClient.java
C:\axis\axis-1_4\samples\userguide\example2>
```

- (8) Go to <AXIS\_HOME> on the console.
- (9) Start up the command such as “List 3-5 Example of Simplified Deployment Execution” on the console and check if the Web Service can be used from the client side.  
(The part described here as “-p8080” is the BMv5's HTTP server port.)

**List 3-5 Example of Simplified Deployment Execution**

```

C:\¥axis¥axis-1_4> java samples.userguide.example2.CalcClient -p8080 add 2 5
Got result : 7
C:\¥axis¥axis-1_4> java samples.userguide.example2.CalcClient -p8080 subtract 10 9
Got result : 1
C:\¥axis¥axis-1_4>

```

**(Notes)**

Web Service by JWS is meant to provide a simple Web service.

In this case, the class that is provided as Web Service is not able to use the package. Since the code is compiled at the time of execution, no error can be found until the deployment begins. In order to provide a high-end, commercial use Web Service, it is recommended to use a Java class that utilizes custom deployment.

**3.2.6.3.4 Custom Deployment—Introduction of WSDD**

This section describes a method that uses Web Service Deployment Descriptor (WSDD).

The Web Service registered here returns the character strings that were previously entered.

- (1) Check if IWP is terminated.
- (2) Check if MyService.class can be found in  
<IMART\_HOME>/doc/imart/WEB-INF/classes/samples/userguide/example.

If it does not, compile the source within <AXIS\_HOME>/samples/userguide/example3, and save it within the directory mentioned earlier. The content of MyService.java is shown in “List 3-6 MyServer.java”.

**List 3-6 MyServer.java**

```

package samples.userguide.example3;

public class MyService
{
    public String serviceMethod(String arg)
    {
        return arg;
    }
}

```

- (3) Restart IWP.
- (4) Check if “deploy.wsdd” file (WSDD file) exists within <AXIS\_HOME>/samples/userguide/example3.

The content of MyService.java is shown in “List 3-7 deploy.wsdd (Custom Deployment)”.

**List 3-7 deploy.wsdd (Custom Deployment)**

```
<deployment xmlns="http://xml.apache.org/axis/wsdd/"
  xmlns:java="http://xml.apache.org/axis/wsdd/providers/java">
  <service name="MyService" provider="java:RPC">
    <parameter name="className" value="samples.userguide.example3.MyService"/>
    <parameter name="allowedMethods" value="*" />
  </service>
</deployment>
```

- (5) Go to <AXIS\_HOME> on the console.
- (6) Run the command as shown in “List 3-8 Deployment Example by WSDD” on the console and deploy the Web Service from the client side. (Enter the 1st to 3rd line in one line)

**List 3-8 Deployment Example by WSDD**

```
C:\axis\axis-1_4> java org.apache.axis.client.AdminClient
                    -l http://localhost:8080/imart/services/AdminService
                    samples\userguide\example3\deploy.wsdd

[en]-(Processing file samples\userguide\example3\deploy.wsdd)
<Admin> [en]-(Done processing)</Admin>

C:\axis\axis-1_4>
```

- (7) Run the command as shown in “List 3-9 Deployment Example by WSDD” on the console and check if the Web Service can be activated from the client side. (Enter the 1st to 2nd line in one line)

**List 3-9 Deployment Example by WSDD**

```
C:\axis\axis-1_4> java samples.userguide.example3.Client
                    -l http://localhost:8080/imart/services/MyService "test me!"
You typed : test me!
C:\axis\axis-1_4>
```

### 3.3 WebServer Settings

The description in this chapter is applicable **exclusively for IWP (Resin)**.

Set the WebServer so that it can be used on IWP (Resin).

This configuration is required when round robin is used.

Please refer to the Configuration Guide <HTTP> for details on Web Server Connector and round robin.

In this chapter, the directory installed with Web Server Connector is expressed as `<%web_path%>`, and the directory installed with Service Platform to run Application Runtime is expressed as `<%im_path%>`.

■ **For UNIX OS, please give privileges to the following files and directories**

- ◆ Please **give write authority** to the “`<%web_path%>/log`” directory.
- ◆ Please **give read authority** to the “`<%web_path%>`”.
- ◆ Please **give write authority** to the directory into which each server module has been installed.

#### 3.3.1 In case of Apache 2

##### 3.3.1.1 Editing Apache 2's Configuration File (httpd.conf)

The following description uses “**imart**” as an alias name.

Please add the following code to the end of httpd.conf.

```
Alias /imart "<%web_path%>"

LoadModule caucho_module Path of Embedded Module

<IfModule mod_caucho.c>
ResinConfigServer IP address of AppRSrv Port number of AppRSrv
CauchoStatus false
</IfModule>
```

Please refer to the httpd.conf sample in the following directories.

OS	httpd.conf samples
Windows	<code>&lt;%web_path%&gt;/round_robin/win32/apache2/sample_httpd.conf</code>
UNIX	<code>&lt;%web_path%&gt;/round_robin/unix/apache2/sample_httpd.conf</code>

Embedded modules for Windows are available at the following location.

`<%web_path%>/round_robin/win32/apache2/mod_caucho.dll`

With UNIX OS, the embedded modules need to be compiled in the client's environment.

Compiled embedded modules can be obtained from the below URL.

Please check their requirements such as operating environment before use.

These compiled embedded modules are not included in customer support.

<http://www.intra-mart.jp/download/try/trylist2.html> (Trial Product Download)



### 3.3.1.2 Compilation of Built-In Module (UNIX OS)

The embedded module (mod\_caucho.so) needs to be compiled in the client's environment.

The following commands are required for compilation.

- gcc
- make
- ld

Check if the above-mentioned commands have a path. If they do not, please configure the environment so that these commands can be used.

Apache 2 needs to be [DSO Support](#).

If it is not DSO Support, please re-compile Apache 2 using DSO Support.

If “mod\_so.c” is displayed after executing the below command, Apache 2 is now DSO Support enabled.

```
unix> /usr/local/apache/bin/httpd -l
Compiled-in modules:
...
mod_so.c
...
```

The following is an example of how to re-compile Apache 2.

- Apache 2's source file can be download from Apache web site (<http://httpd.apache.org/>) via the file name “httpd-2.0.XX.tar.gz”.

The following is the expansion example of the source file.

**tar zxvf httpd-2.0.XX.tar.gz**

Once the file “httpd-2.0.XX-X.tar.gz” is expanded, a directory expressed as “httpd-2.0.XX” will be created. Apache 2's source is found in this directory.

Execute the following command from the directory which Apache 2 source is expanded.

```
unix> ./configure --prefix=< directory into which Apache2 is installed>> --enable-module=so
unix> make
unix> make install
```

In case of Solaris, additional flags are sometimes needed when Apache2 is configured. If link error occurs at loading Resin, add a flag to make DSO valid. Please refer to Apache2 document for details. Below is an example of configure.

```
unix> ./configure --prefix=< directory into which Apache2 is installed>> ¥
--enable-rule=SHARED_CORE ¥
--enable-rule=SHARED_CHAIN ¥
--enable-module=so ¥
--enable-module=most ¥
--enable-shared=max

unix> make
unix> make install
```

### ■ Embedded Module Compilation Procedure

Execute the following command.

```
unix> cd <%web_path%>/round_robin/source  
unix> ./configure --with-apache=<apache2 path>  
unix> make  
unix> make install
```

“mod\_cauchoso” will be created in the module directory of Apache 2 (properly, in the libexec and modules directories of Apache 2).

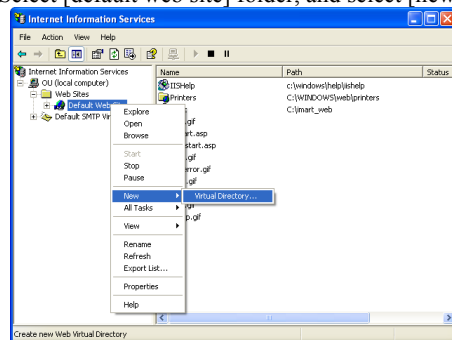
※ In case of HP-UX, it is created as mod\_caucho.sl.  
Please change the extension as **.so**.

Copy the “mod\_caucho.sp” to the following directory.

**<%web\_path%>/round\_robin/unix/apache2**

### 3.3.2 In case of IIS6.0

- (1) Start Internet Information Service (IIS) Manager up.
- (2) Select [default web site] folder, and select [new] - [virtual directory] by right click.

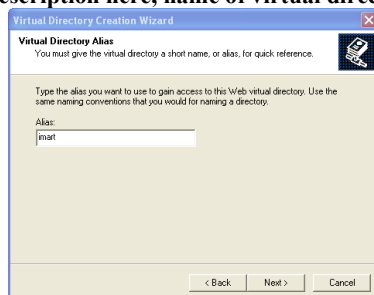


- (3) Click on [Next] button.



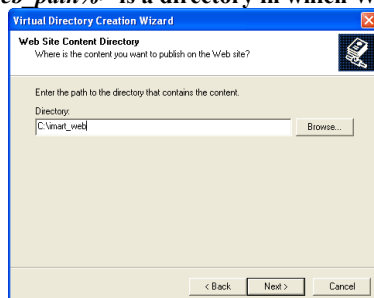
- (4) Input virtual directory and click on [Next] button.

**\*The description here, name of virtual directory is imart.**



- (5) Set <%web\_path%> as physical path and click on [Next] button.

**\*<%web\_path%> is a directory in which Web Server Connector is installed.**

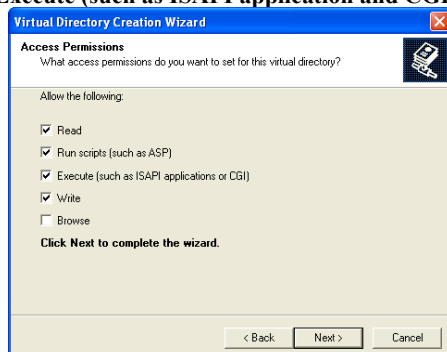


- (6) Check required access authority and click on [Next] button.

Be sure to check following two.

※ Read

※ Execute (such as ISAPI application and CGI)



\*If you do log output, please check **Write**.

\*Other settings are arbitrary.

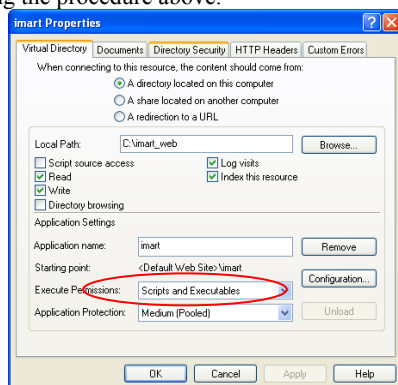
- (7) Click on [Complete] button.
- (8) Create a [scripts] directory in Web contents root (By default, C:\Inetpub).  
(If there is [scripts] directory, you do not have to create it.)

- (9) Copy following files into [scripts] directory.
- <%web\_path%>\round\_robin\win32\isapi\isapi\_srun.dll
  - <%web\_path%>\round\_robin\win32\isapi\resin.ini

- (10) Modify resin.ini as follows,

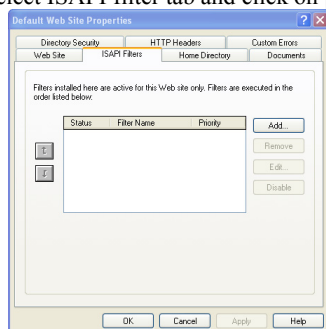
```
ResinConfigServer IP address of AppRuntime Port number of AppRuntime
CauchoStatus no
IISPriority high
```

- (11) Create [scripts] directory as a virtual directory of [Default Web Site].  
(Please repeat the procedures from (2) to (7). If it is already there, you do not have to create)
- (12) Set the Execute Permissions of virtual directory [scripts] as [Scripts and Executables] which is made by following the procedure above.

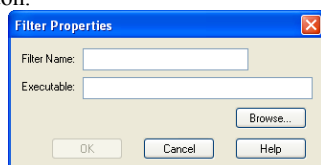


(13) Select [default Web site] and property by right click.

(14) Select ISAPI filter tab and click on [Add] button.



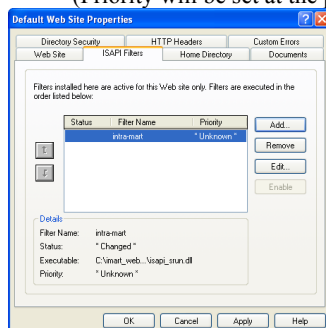
(15) Input “intra-mart” as [filter name], specify isapi\_srun.dll ,copied in (9) as [Executables] and click on [OK] button.



Confirm that the settings are as follows.

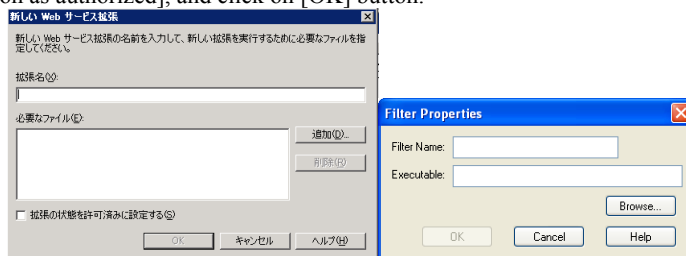
※ [Status] of ISAPI filter will be changed to [Alredy Read] when accessed by browser.

(Priority will be set at the point)



(16) Select Web service expansion and select [Add a new Web service] by right click.

(17) Input “intra-mart” as [Filter name], specify isapi\_srun.dll as [Executable], check [Set the status of expansion as authorized], and click on [OK] button.



### 3.3.3 Round-Robin Settings

This section describes how to configure round-robin in the following environment.

\* Please refer to “**Round-robin** in Configuration guide <HTTP>” for details.

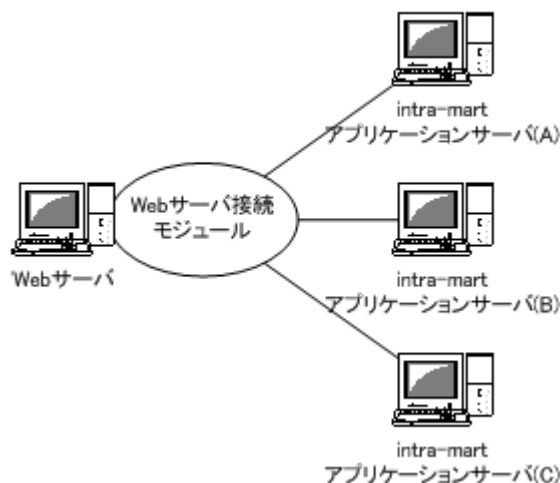


Diagram 3-1

#### 3.3.3.1 http.xml Settings

Add <sruntime> tag of <%im\_path%>/conf/http.xml.

```

<resin xmlns="http://caucho.com/ns/resin"
  xmlns:resin="http://caucho.com/ns/resin/core">
  . . .
  <server>
  . . .
    <cluster>
      <sruntime host="IP address of Server(A)" port="Port number of Server(A)" server-id="Server (A) ID"/>
      <sruntime host="IP address of Server(B)" port="Port number of Server(B)" server-id="Server(B) ID"/>
      <sruntime host="IP address of Server(C)" port="Port number of Server(C)" server-id="Server(C) ID"/>
    </cluster>
  . . .
  </server>
  . . .
</resin>
  
```

#### 3.3.3.2 httpd.conf(In case of Apache) and resin.ini(In case of IIS) Settings

Assign the value of ResinConfigServer in httpd.conf set in the “3.3.1.1 Editing Apache 2’s Configuration File (httpd.conf)” and “3.3.2 In case of IIS6.0” as the IP address and port number of any one of the Application Servers (A), (B), or (C). Here, the specified server <%im\_path%>/conf/http.xml <sruntime> tag settings will be referenced and the Web server will recognize the application server.

### 3.3.4 Other Settings

#### 3.3.4.1 How To Change Alias

This section describes how to change the alias from “imart” to “imv61”.

- (1) Edit the http.xml of Service Platform, on which all Application Runtimes are installed.  
(Please refer to “3.3.4.1.1 Changing http.xml’s Alias” for details)  
In case of round-robin, please change to the same alias on the Service Platform, on which all Application Runtimes are installed.  
**If the aliases are not same, round-robin will malfunction.**
- (2) Change the Web server settings.  
(Please refer to “3.3.4.1.2 Changing the Alias of Web Server” for details)
- (3) Edit the imart.xml of Service Platform, on which Schedule Service is installed.  
(Please refer to “3.3.4.1.3 Changing the URL of Destination Application Runtime during Schedule Service Execution” for details)
- (4) Edit the service property in case of using im-JavaEE Framework.  
(Please refer to “3.3.4.1.4 Changing the Service Property Alias” for details)

##### 3.3.4.1.1 Changing http.xml’s Alias

Please edit “resin/server/host/web-app” tag in http.xml.

- (1) Please do not edit the id of <web-app .... id="/">.
- (2) Please change the **id’s value** of the second <web-app id="/imart"> to “**imv61**”.  
Before editing : <web-app id="/imart" document-directory="imart">  
After editing : <web-app id="/imv61" document-directory="imart">

##### 3.3.4.1.2 Changing the Alias of Web Server

###### ■ In case of Apache 2.0

- (1) Edit the alias of “/imart” in httpd.conf.  
(Please refer to “3.3.1.1 Editing Apache 2’s Configuration File (httpd.conf)” for details)

Before editing : Alias /imart "<%web\_path%>"

After editing : Alias /imv61 "<%web\_path%>"

- (2) Restart Apache 2.0.

###### ■ In case of IIS 6.0

Set virtual directory name as “imv61” and configure the settings of “3.3.2 In case of IIS6.0” again.

#### 3.3.4.1.3 Changing the URL of Destination Application Runtime during Schedule Service Execution

Edit the “intra-mart/platform/service/scheduler/connection-url” tag of the conf/imart.conf directory where the Service Platform (in which Schedule Service is running) has been installed.

Before editing: <connection-url>http://192.168.108.1:8080/imart/HTTPActionEventListener<connection-url>

After editing : <connection-url>http://192.168.108.1:8080/imv61/HTTPActionEventListener<connection-url>

#### 3.3.4.1.4 Changing the Service Property Alias

The following operation is necessary only when configuring the “context.path” property with the "ServiceConfig.properties" file. Since this property is not recommended, it is not advisable to change anything under normal circumstances.

- (1) Edit the below portion of “<%im\_path%>/doc/imart/WEB-INF/classes/ServiceConfig.properties”.  
<%im\_path%> is the directory where the application server has been installed.

Before editing : context.path=/imart

After editing : context.path=/imv61

- (2) Restart all Service Platforms that has “http.xml” changed.



### 3.3.4.2 Registering Self-Created Web Application

This section describes how to deploy Web applications that includes servlet `HelloServlet.class` to `<%usr_path%>`.

The URL that invokes `HelloServlet.class` is `"/usr/hello"`.

As for the URL that invokes servlet, it is `"http://host name[:port]/usr/hello"`.

**(Notes)** `intra-mart's` unique API cannot be used by self-created applications.

- (1) Copy `HelloServlet.class` to `<%usr_path%>/WEB-INF/classes`.

If the servlets are consolidated in the jar file, copy it to `<%usr_path%>/WEB-INF/lib` instead.

- (2) Create `<%usr_path%>/WEB-INF/web.xml`, and edit it as shown below.

```
<web-app>
  <servlet>
    <servlet-name>hello-servlet</servlet-name>
    <servlet-class>HelloServlet</servlet-class>
    <load-on-startup/>
  </servlet>

  <servlet-mapping>
    <servlet-name>hello-servlet</servlet-name>
    <url-pattern>/hello</url-pattern>
  </servlet-mapping>
</web-app>
```

- (3) Map to a virtual directory. Add the below to the end of `"caucho.com/http-server/host"` tag of the `http.xml` of Service Platform, which runs Application Runtime.

```
<web-app id="usr" app-dir="<%usr_path%>" />
```

By writing `web-app`, the servlets under `"WEB-INF/classes"` of the actual mapped directory can be identified.

### 3.3.4.3 Changing URL of Login Page

Although a login page will be displayed by default from the following URLs, this section describes how to change the name.

Login Type	URL
System Administrator	<b>http:// Servername [:Port]/imart/system.admin</b>
Login Group Administrator	<b>http:// Servername [:Port]/imart/login group ID.manager</b>
General User (PC)	<b>http:// Servername [:Port]/imart/login group ID.portal</b>
General User (Mobile)	<b>http:// Servername [:Port]/imart/login group ID.mobile</b>

#### 3.3.4.3.1 System Administrator's Login Page

- `<%im_path%>/doc/imart/WEB-INF/web.xml`

Change the following section in web.xml:

```
<servlet-mapping>
  <servlet-name>SuperUserInitialServlet</servlet-name>
  <url-pattern>/system.admin</url-pattern>
</servlet-mapping>
```

as follows.

```
<servlet-mapping>
  <servlet-name>SuperUserInitialServlet</servlet-name>
  <url-pattern>/preferred name</url-pattern>
</servlet-mapping>
```

#### 3.3.4.3.2 Group Administrator's Login Page

- **Changing** `<%im_path%>/doc/imart/WEB-INF/web.xml`

Change the following section in web.xml:

```
<servlet-mapping>
  <servlet-name>GroupSuperUserInitialServlet</servlet-name>
  <url-pattern>/*.manager</url-pattern>
</servlet-mapping>
```

as follows;

```
<servlet-mapping>
  <servlet-name>GroupSuperUserInitialServlet</servlet-name>
  <url-pattern>/*.preferred name</url-pattern>
</servlet-mapping>
```

### 3.3.4.3.3 General Users' Login Page (PC)

#### ■ Changing <%im\_path%>/doc/imart/WEB-INF/web.xml

Change the following section in web.xml:

```
<servlet-mapping>
  <servlet-name>UserInitialServlet</servlet-name>
  <url-pattern>/*.portal</url-pattern>
</servlet-mapping>
```

as follows;

```
<servlet-mapping>
  <servlet-name>UserInitialServlet</servlet-name>
  <url-pattern>/* preferred name</url-pattern>
</servlet-mapping>
```

### 3.3.4.3.4 General Users' Login Page (Mobile)

#### ■ Changing <%im\_path%>/doc/imart/WEB-INF/web.xml

Change the following section in web.xml:

```
<servlet-mapping>
  <servlet-name>UserInitialServletForMobile</servlet-name>
  <url-pattern>/*.mobile</url-pattern>
</servlet-mapping>
```

as follows;

```
<servlet-mapping>
  <servlet-name>UserInitialServletForMobile</servlet-name>
  <url-pattern>/* preferred name</url-pattern>
</servlet-mapping>
```

## 3.4 intra-mart WebPlatform (JBoss) Settings

### 3.4.1 Operation prerequisites of IWP (JBoss)

The following requirements must be met in order to run IWP (JBoss).

- ◆ DataSource has already been registered in JBoss.
- ◆ The WAR file to be deployed exists
- ◆ “<% Server Manager’s root %>/conf/data-source.xml” has already been configured.

WAR files can be deployed once the above-mentioned requirements are met.

### 3.4.2 IWP (JBoss) Settings

URL to access to IWP (JBoss) is explained in /imart.

In this chapter, a directory in which Jboss is installed is expressed as <%JBoss\_path%>.

The deployment procedure of JBoss will be as follows.

- (1) Configure environment variables [JAVA\_HOME].  
(Please refer to “3.4.2.1 Environment Variables [ Environmental Variables [JAVA\_HOME] Setting”)
- (2) Creation of WAR file  
(Please refer to “3.4.2.2 Creation of WAR file”)
- (3) Data source settings  
(Please “3.4.2.3 Data Source Settings”.)
- (4) Deployment of WARfile  
(Please “3.4.2.4 Deployment of WAR File”.)

**\* When installation of Application Runtime is completed, installation of JBoss and creation of WAR are also completed. Above mentioned (2) can be omitted directly after the installation.**

**\* If you change contents and re-compile the class, creation and deployment of WAR file are necessary again.**

**\* There is no need to repeat (3) every time.**

### 3.4.2.1 Environmental Variables [JAVA\_HOME] Settings

Configure Environmental Variables [JAVA\_HOME].

### 3.4.2.2 Creating WAR File

Create WAR files of IWP (Resin).

If you change the contents or re-compile, this procedures are indispensable.

In this chapter, root directory of **AppRuntime** as `<%AppRuntime_path%>`.

- (1) Move to following directory in the console

`<%AppRuntime_path%>/bin`

- (2) Create WAR file by executing following command.

**zippack -o <WAR file name> <Context Root Path>**

[Example]

Windows : `zippack -o ../imart.war ../doc/imart`

UNIX : `zippack.sh -o ../imart.war ../doc/imart`

**By this command,**

**WAR file, “imart.war”, is created directly under `<%AppRuntime_path%>`.**

### 3.4.2.3 Data source setting

This chapter explains a configuration example when using PostgreSQL.

- (1) Editing postgres-ds.xml

Change `<%JBoss_path%>/server/imart/deploy/postgres-ds.xml` as follows.

```
.  
.   
.   
  
<jndi-name><%Data source Reference name%></jndi-name>  
<connection-url>jdbc:postgresql://<%Address of PostgreSQL%>:<%Port  
Number%>/<%Database name%></connection-url>  
<driver-class>org.postgresql.Driver</driver-class>  
<user-name> User Name for database connection </user-name>  
<password> User password for database connection </password>  
<metadata>  
  <type-mapping>PostgreSQL 8.0</type-mapping>  
</metadata>  
.   
.   
.
```

- (2) Deploy JDBC driver PostgreSQL in `<%JBoss_path%>/server/imart/lib`.

#### 3.4.2.4 WAR File Deployment

- (1) Deploy WAR file  
Deploy WAR file created in the procedure “3.4.2.2 Creation of WAR file” directly under `<%JBoss_path%>/server/imart/deploy/`.
- (2) Edit data-source.xml  
Edit `<% Server Manager root %>/conf/data-source.xml`.  
Please refer to “3.6.3 data-source.xml” for details.
- (3) Start up all the IWP (JBoss) servers.  
**【Important】 If Server Manager and Service Platform ( only in case of distributed system) is not started up, deployment cannot be implemented.**  
(\* Please refer to “4 Startup and Shutdown” on how to start up server manager and service platform.)
- (4) Start up JBoss.  
\* If you have already started up, restart it.

Move to `<%JBoss_path%>/bin` and start JBoss by executing following command.

***run -c imart*** 

[Example]

Windows	:	<code>run -c imart</code>
UNIX	:	<code>run.sh -c imart</code>

You can automatically finish deployment for these procedures.

## 3.5 Application Server Settings

The description in this chapter is applicable to **AFW only**.

### 3.5.1 WebSphere Settings

Set the AFW so that it can be used on WebSphere.

The following requirements must be met in order to run AFW on WebSphere.

- ◆ DataSource has already been registered in WebSphere
- ◆ The WAR file to be deployed exists
- ◆ `<% Server Manager root %>/conf/data-source.xml` has already been configured

WAR files can be deployed once the above-mentioned requirements are met.

#### 3.5.1.1 Reminders before Deployment

If “EUC-JP” is selected as character encode at the time of AFW installation, the character encoding settings must be changed before deployment.

Please implement the following procedure if “EUC-JP” is being used for either one of the following: [Character Encoding for Server Module] or [Character Encoding Sent to Web Browser].

- (1) Open “converter.properties” file, which is located where WebSphere is installed, using a text editor.
- (2) The settings value of “EUC-JP” within converter.properties should be [EUC-JP=Cp33722c] immediately after the installation.  
Please change this value to [EUC-JP=EUC-JP].

Change contents of[converter.properties]

```
Shift JIS=Cp943C
EUC-JP=EUC-JP
EUC-KR=Cp970
EUC_KR=Cp970
EUC-TW=Cp964
Big5=Cp950
GB2312=EUC_CN
ISO-2022-KR=ISO2022KR
```

- (3) Save “converter.properties” file

Now, the character encoding has been changed successfully.

For detailed information, please access IBM Japan’s “Technical Information” website:

<http://www-6.ibm.com/jp/software/websphere/developer/w40/v40hintstips.html>

(31/07.2007)



### 3.5.1.2 Example of WebSphere Application Server Deployment

The URL to access AFW is explained in “/imart”.

The following description uses **IBM WebSphere Application Server 6.1 (Windows version)** as an example.  
(Since the configuration method will differ in case of other revisions and editions of WebSphere, please consult the distributors or manufacturers of WebSphere for further enquiries.)

The deployment procedure of WebSphere Application Server will be as follows.

- (1) Create WAR file  
(Please refer to “3.5.1.2.1 Creating WAR File” for details)
- (2) Registering DataSource (JDBC) in WebSphere  
(Please refer to “3.5.1.2.2 Registering DataSource (JDBC) in WebSphere” for details)
- (3) Deploying WAR file  
(Please refer to “3.5.1.2.3 WAR File Deployment” for details)

**\* There is no need to repeat the process (2) every time.**

#### 3.5.1.2.1 Creating WAR File

Create WAR file for AFW.

This process is always required if the contents or class is re-compiled.

**<%im\_path%>** is the directory installed with Application Runtime.

- (1) Go to the following directory on the console screen.  
**<%im\_path%>/bin**

- (2) Execute the following command to create a WAR file.

**zippack -o <WAR File Name> <Context Root Path>**

[Example]

Windows	:	zippack -o ../imart.war ../doc/imart
UNIX	:	zippack.sh -o ../imart.war ../doc/imart

**By executing this command, a WAR file will be created as <%im\_path%>/imart.war.**

### 3.5.1.2.2 Registering Data Source (JDBC) in WebSphere

The following is an example on how to register DataSource

This section describes on Oracle, DB2, Microsoft SQL Server 2000, and PostgreSQL. Each DB is assumed to be pre-installed with JDBC driver.)

\* DataSource needs to be registered only once. It does not need to be repeated at every deployment.

#### 3.5.1.2.2.1 Login to Administration Console

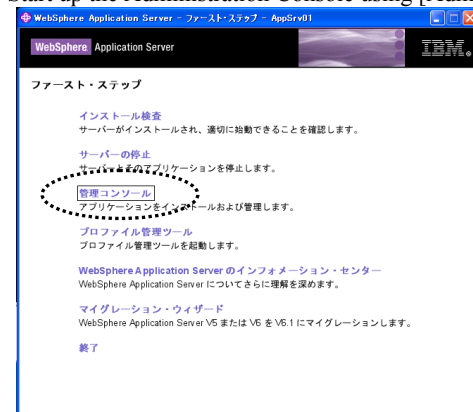
- (1) Start up “First Step” of WAS.



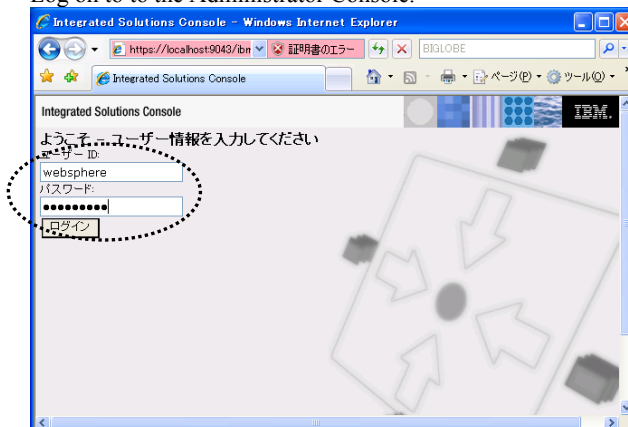
- (2) If WAS is down, start up WAS from [Server Startup] of “First Step”.



- (3) Start up the Administration Console using [Administration Console] of “First Step”.



- (4) Log on to the Administrator Console.

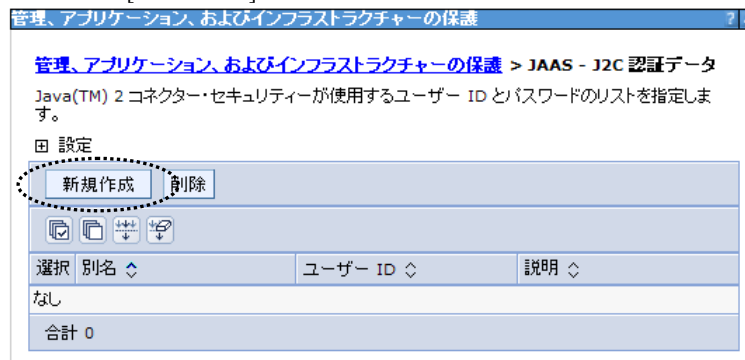


### 3.5.1.2.2.2 Configuring the DB User Information to get connected to the Database

- (1) Select [Authentication] - [Java Authentication and Authorization Service] - [J2C Authentication Data] under the [Security of administration, application and infrastructure].



- (2) Click on the [Create New] button.



- (3) Enter an alias (optional), DB user ID, and password, then click on [OK] button.

Here, the alias is set as “db\_user”.

This is the end of DB User Information registration.

### 3.5.1.2.2.3 JDBC Provider Settings

#### 3.5.1.2.2.3.1 In case of Oracle

- (1) Select [Resource] - [JDBC Provider] from the menu.



- (2) Click on the [Create New] button on the “JDBC Provider” page.

- (3) Configure [Database Type], [Provider Type], and [Implementation Type] and click on [Next] button.

**新規 JDBC プロバイダーの作成**

データベースのアクセスに必要な固有のベンダー JDBC ドライバー実装クラスをカプセル化する。JDBC プロバイダーの基本構成値を設定します。ウィザードで名前と記述のフィールドに値が入りますが、別の値を入力することができます。

有効範囲  
cells:im8138Node01Cell:nodes:im8138Node01:servers:server1

データベース・タイプ  
Oracle

プロバイダー・タイプ  
Oracle JDBC Driver

実装タイプ  
接続プール・データ・ソース

名前  
Oracle JDBC Driver

説明  
Oracle JDBC Driver

次へ 取り消し

Database type	Provider Type	Implementation Type
Oracle	Oracle JDBC Driver	Connection Pool Data Source

- (4) Configure a location of JDBC directory driver and click on [Next] button.

**新規 JDBC プロバイダーの作成**

JDBC プロバイダーの定義に WebSphere(R) Application Server が使用する、JDBC ドライバー・クラス・ファイルを表す環境変数を設定します。このウィザード・ページによってファイル名が表示されます。ファイルのディレクトリー・場所のみを指定します。JDBC ドライバーのファイル場所を入力するときには、完全なディレクトリー・パスを使用してください。例えば、Linux(TM) で、/home/db2inst1/sqllib/java のようになります。値が示されている場合、「次へ」をクリックしてその値をそのまま使用することができます。

クラスパス:  
\${ORACLE\_JDBC\_DRIVER\_PATH}/ojdbc14.jar

WebSphere 変数 \${ORACLE\_JDBC\_DRIVER\_PATH} として保管される "ojdbc14.jar" のディレクトリー・ロケーション  
C:\jdbc\_driver

前へ 次へ 取り消し

- (5) Check the configuration and click on [Complete] button.

Now, you can finish the configuration of JDBC provider.

**新規 JDBC プロバイダーの作成**

要約

アクションの要約:

オプション	値
有効範囲	cells:im8138Node01Cell:nodes:im8138Node01:servers:server1
JDBC プロバイダー名	Oracle JDBC Driver
説明	Oracle JDBC Driver
クラスパス	\${ORACLE_JDBC_DRIVER_PATH}/ojdbc14.jar
ディレクトリー・パス	C:\jdbc_driver
実装クラス名	oracle.jdbc.pool.OracleConnectionPoolDataSource

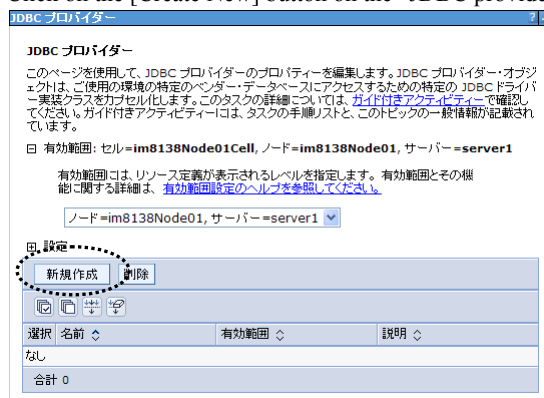
前へ 終了 取り消し

### 3.5.1.2.2.3.2 In case of DB2

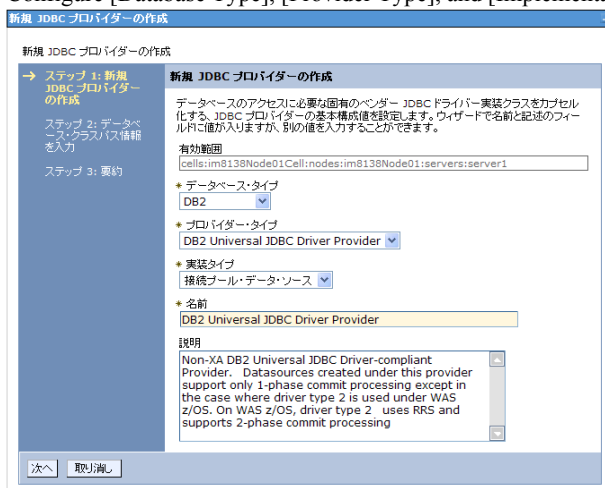
- (1) Select [Resource]- [JDBC provider] from menu.



- (2) Click on the [Create New] button on the “JDBC provider” page.



- (3) Configure [Database Type], [Provider Type], and [Implementation Type] and click on [Next] button.



Database type	Provider Type	Implementation Type
DB2	DB2 Universal JDBC Provider	Connection Pool Data Source

- (4) Configure a location of JDBC driver directory and click on [Next] button.

新規 JDBC プロバイダーの作成

新規 JDBC プロバイダーの作成

ステップ 1: 新規 JDBC プロバイダーの作成  
→ ステップ 2: データベース・クラスパス情報を入力  
ステップ 3: 要約

データベース・クラスパス情報を入力

JDBC プロバイダーの定義に WebSphere(R) Application Server が使用する、JDBC ドライバー・クラス・ファイルを表す環境変数を設定します。このウィザード・ページによってファイル名が表示されます。ファイルのディレクトリー・場所のみを指定します。JDBC ドライバーのファイル場所を入力するときは、完全なディレクトリー・パスを使用してください。例えば、Linux(TM) で、/home/db2inst1/sqllib/java のようになります。値が示されている場合、「次へ」をクリックしてその値をそのまま使用することができます。

クラスパス:

`${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc.jar`  
`${UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cu.jar`  
`${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cisuz.jar`

WebSphere 変数 `${DB2UNIVERSAL_JDBC_DRIVER_PATH}` として保管される "db2jcc.jar, db2jcc\_license\_cisuz.jar" のディレクトリー・ロケーション  
`C:\Program Files\IBM\WebSphere\AppServer\deploytool\itp\plugins\c`

ネイティブ・ライブラリー・パス

WebSphere 変数 `${DB2UNIVERSAL_JDBC_DRIVER_NATIVEPATH}` として保管されるディレクトリー・ロケーション

前へ 次へ 取り消し

- (5) Check the configuration and click on [Complete] button.

Now, you can finish the configuration of JDBC provider.

新規 JDBC プロバイダーの作成

新規 JDBC プロバイダーの作成

ステップ 1: 新規 JDBC プロバイダーの作成  
ステップ 2: データベース・クラスパス情報を入力  
→ ステップ 3: 要約

要約

アクションの要約:

オプション	値
有効範囲	cells:im8138Node01Cell:nodes:im8138Node01:servers:server1
JDBC プロバイダー名	DB2 Universal JDBC Driver Provider
説明	Non-XA DB2 Universal JDBC Driver-compliant Provider. Datasources created under this provider support only 1-phase commit processing except in the case where driver type 2 is used under WAS z/OS. On WAS z/OS, driver type 2 uses RRS and supports 2-phase commit processing
クラスパス	<code>\${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc.jar</code> <code>\${UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cu.jar</code> <code>\${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cisuz.jar</code>
<code>\${DB2UNIVERSAL_JDBC_DRIVER_PATH}</code>	C:\Program Files\IBM\WebSphere\AppServer\deploytool\itp\plugins\com.ibm.datatools.db2_1.0.0.v200607211720\driver
<code>\${UNIVERSAL_JDBC_DRIVER_PATH}</code>	null
ネイティブ・パス	<code>\${DB2UNIVERSAL_JDBC_DRIVER_NATIVEPATH}</code>
<code>\${DB2UNIVERSAL_JDBC_DRIVER_NATIVEPATH}</code>	
実装クラス名	com.ibm.db2.jcc.DB2ConnectionPoolDataSource

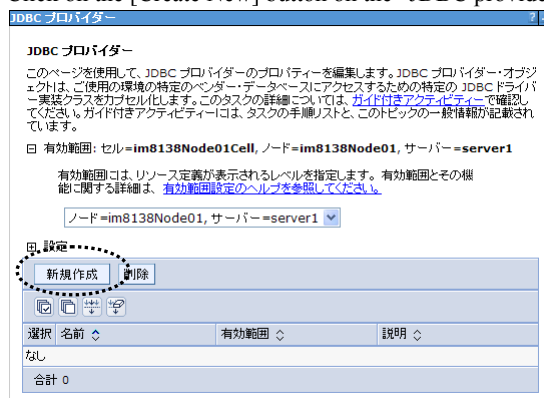
前へ 終了 取り消し

### 3.5.1.2.2.3.3 In case of Microsoft SQL Server 2000

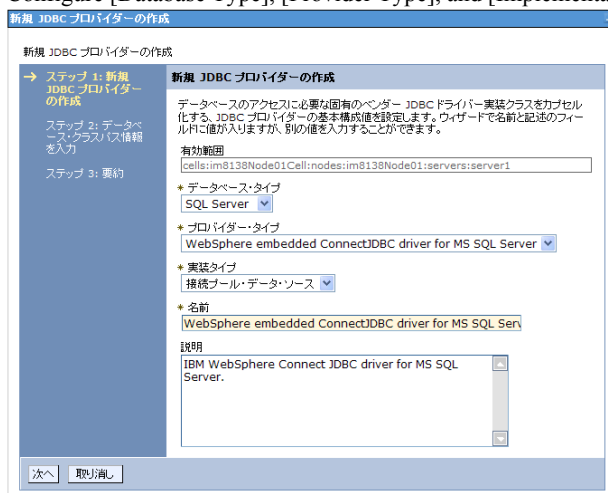
- (1) Select [Resource] – [JDBC Provider] from menu.



- (2) Click on the [Create New] button on the “JDBC provider” page.



- (3) Configure [Database Type], [Provider Type], and [Implementation Type] and click on [Next] button.



Database type	Provider Type	Implementation Type
SQL Server	WebSphere embedded ConnectJDBC driver for MS SQL Server	Connection Pool Data Source



- (4) Configure a location of JDBC driver directory and click on [Next] button.

新規 JDBC プロバイダーの作成

ステップ 1: 新規 JDBC プロバイダーの作成

→ ステップ 2: データベース・クラスパス情報を入力

ステップ 3: 要約

データベース・クラスパス情報を入力

JDBC プロバイダーの定義に WebSphere(R) Application Server が使用する、JDBC ドライバー・クラス・ファイルを表す環境変数を設定します。このウィザードによってファイル名が表示されます。ファイルのディレクトリー・場所のみを指定します。JDBC ドライバーのファイル・場所を入力するときは、完全なディレクトリー・パスを使用してください。例えば、Linux(TM) で、/home/db2inst1/sqllib/java のようになります。値が示されている場合、「次へ」をクリックしてその値をそのまま使用することができます。

クラスパス:

`${WAS_LIBS_DIR}/sqlserver.jar`  
`${WAS_LIBS_DIR}/base.jar`  
`${WAS_LIBS_DIR}/util.jar`  
`${WAS_LIBS_DIR}/spy.jar`

WebSphere 実数 `${WAS_LIBS_DIR}` として保管される "sqlserver.jar, base.jar, util.jar, spy.jar" のディレクトリー・ロケーション

前へ 次へ 取り消し

- (5) Check the configuration and click on [Complete] button.

Now, you can finish the configuration of JDBC provider.

新規 JDBC プロバイダーの作成

新規 JDBC プロバイダーの作成

ステップ 1: 新規 JDBC プロバイダーの作成

ステップ 2: データベース・クラスパス情報を入力

→ ステップ 3: 要約

要約

アクションの要約:

オプション	値
有効範囲	cells:im8138Node01Cell:nodes:im8138Node01:servers:server1
JDBC プロバイダー名	WebSphere embedded ConnectJDBC driver for MS SQL Server
説明	IBM WebSphere Connect JDBC driver for MS SQL Server.
クラスパス	<code>\${WAS_LIBS_DIR}/sqlserver.jar</code> <code>\${WAS_LIBS_DIR}/base.jar</code> <code>\${WAS_LIBS_DIR}/util.jar</code> <code>\${WAS_LIBS_DIR}/spy.jar</code>
ネイティブ・パス	
実装クラス名	com.ibm.websphere.jdbcx.sqlserver.SQLServerDataSource

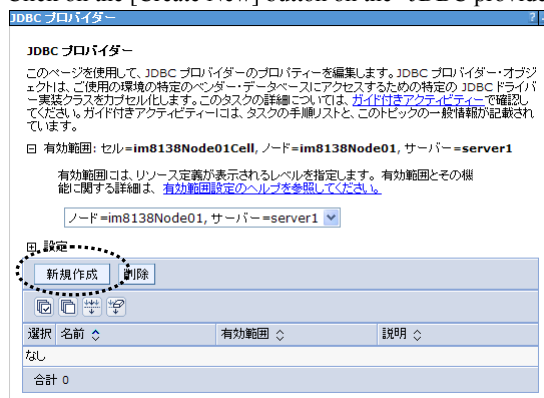
前へ 終了 取り消し

## 3.5.1.2.2.3.4 In case of PostgreSQL

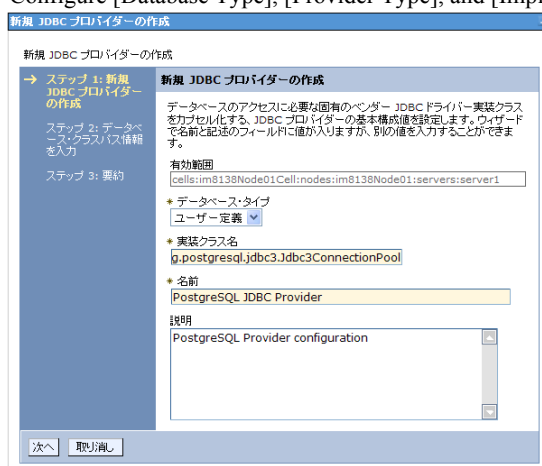
## (1) Select [Resource] – [JDBC provider]



## (2) Click on the [Create New] button on the “JDBC provider” page.



## (3) Configure [Database Type], [Provider Type], and [Implementation Type] and click on [Next] button.



Database Type	Implementation Class Name
User definition	org.postgresql.jdbc3.Jdbc3ConnectionPool

- (4) Specify absolute path name of driver, class and file, and click on [Next] button.

The screenshot shows the '新規 JDBC プロバイダーの作成' (New JDBC Provider Creation) wizard. The left sidebar indicates the current step is 'ステップ 2: データベース・クラスパス情報を入力' (Step 2: Enter database and classpath information). The main area is titled 'データベース・クラスパス情報を入力' and contains instructions: 'ユーザー定義の JDBC プロバイダーを構成するには、インストールした JDBC ドライバー・クラス・ファイルの絶対パス名を指定します。ファイルパス名は、ファイル名にのみ表示される WebSphere(R) 実数の値として入力します。パス区切り文字 (「/」や「\」など) は使用しないでください。クラスパス・エンタリーを区切るには、「Enter」を使用してください。' (To configure a user-defined JDBC provider, specify the absolute path name of the installed JDBC driver class file. The file path name is entered as a numeric value of WebSphere(R) that is only displayed in the file name. Do not use path separator characters (such as '/' or '\'). To separate classpath entries, use 'Enter'). Below the instructions, the 'クラスパス:' (Classpath) field contains the path 'C:\jdbc\_driver\postgres\postgresql-8.2-505.jdbc3.jar'. At the bottom are buttons for '前へ' (Previous), '次へ' (Next), and '取り消し' (Cancel).

- (5) Check the configuration and click on [Complete] button.

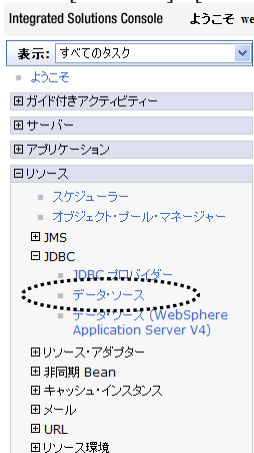
Now, you can finish the configuration of JDBC provider.

The screenshot shows the '新規 JDBC プロバイダーの作成' (New JDBC Provider Creation) wizard at the '要約' (Summary) step. The left sidebar indicates the current step is 'ステップ 3: 要約' (Step 3: Summary). The main area is titled '要約' and contains a table summarizing the configuration. The table has two columns: 'オプション' (Option) and '値' (Value). The rows are: '有効範囲' (Scope) with value 'cells:im8138Node01Cell:nodes:im8138Node01:servers:server1'; 'JDBC プロバイダー名' (JDBC Provider Name) with value 'PostgreSQL JDBC Provider'; '説明' (Description) with value 'PostgreSQL Provider configuration'; 'クラスパス' (Classpath) with value 'C:\jdbc\_driver\postgres\postgresql-8.2-505.jdbc3.jar'; and '実装クラス名' (Implementation Class Name) with value 'org.postgresql.jdbc3.Jdbc3ConnectionPool'. At the bottom are buttons for '前へ' (Previous), '終了' (Finish), and '取り消し' (Cancel).

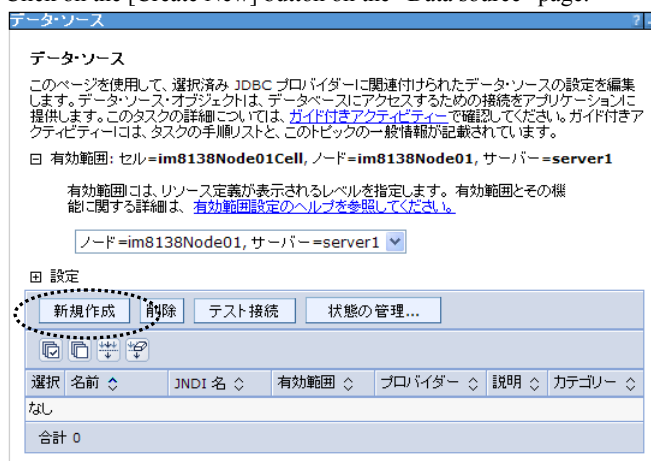
オプション	値
有効範囲	cells:im8138Node01Cell:nodes:im8138Node01:servers:server1
JDBC プロバイダー名	PostgreSQL JDBC Provider
説明	PostgreSQL Provider configuration
クラスパス	C:\jdbc_driver\postgres\postgresql-8.2-505.jdbc3.jar
実装クラス名	org.postgresql.jdbc3.Jdbc3ConnectionPool

## 3.5.1.2.2.4 Data Source Settings

- (1) Select [Resource] - [JDBC Provider] from the menu.

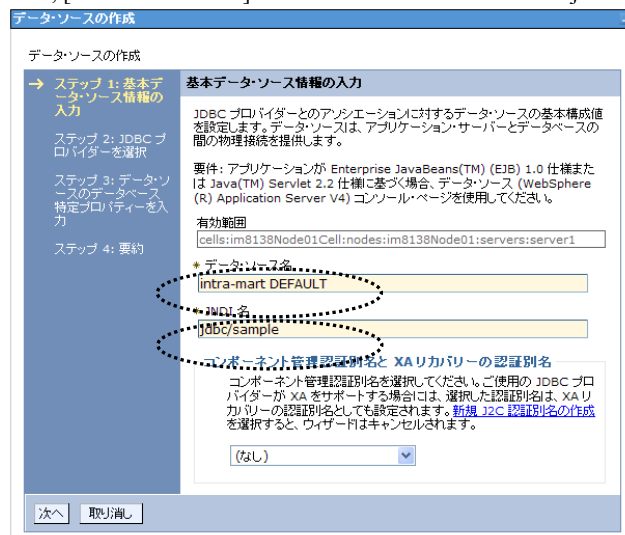


- (2) Click on the [Create New] button on the “Data source” page.



- (3) Enter any name in the [Datasource Name] field and [JNDI Name] to identify the data source, and click on [Next] button.

Here, [Datasource Name] as "intra-mart DEFAULT" and "jdbc/sample" as [JNDI name] are entered.



- (4) Select JDBC provider created in “3.5.1.2.2.3 JDBC Provider Settings” and click on [Next] button.

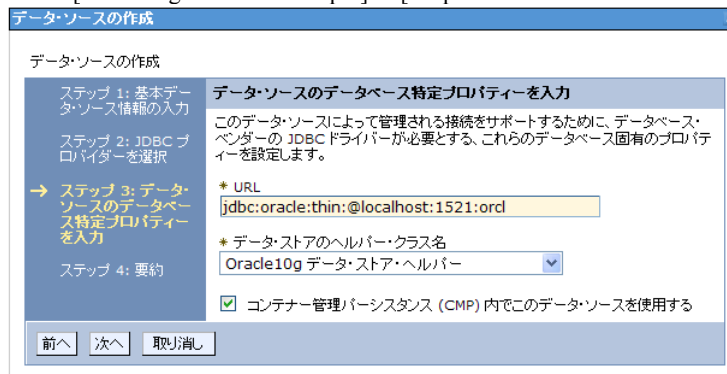


- (5) Input database-specific property of data source and click on [Next] button.

\*In case of Oracle

Input [URL] and [Helper and class name of data and store]

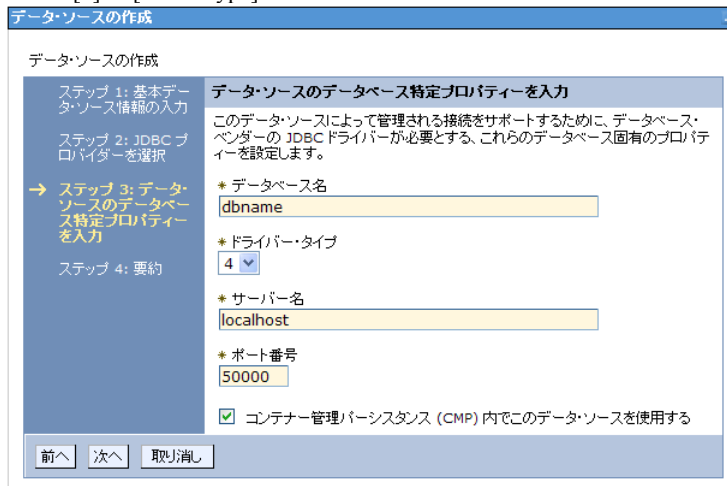
Select [Oracle10g Data Store Helper] as [Helper and class name of data and store].



\*In case of DB2

Input [Database name], [Driver type], [Server name] and [Port number].

Select [4] as [Driver type].



## ※ In case of SQL Server 2000

Input [Database name], [Server name] and [Port number].

データソースの作成

データソースの作成

ステップ 1: 基本データソース情報の入力  
ステップ 2: JDBC プロバイダーを選択  
→ ステップ 3: データソースのデータベース特定プロパティを入力  
ステップ 4: 要約

データソースのデータベース特定プロパティを入力

このデータソースによって管理される接続をサポートするために、データベースベンダーの JDBC ドライバーが必要とする、これらのデータベース固有のプロパティを設定します。

\* データベース名  
dbname

\* サーバー名  
localhost

\* ポート番号  
1433

☒ コンテナ管理バージョン (CMP) 内でこのデータソースを使用する

前へ 次へ 取り消し

## ※ In case of PostgreSQL

Input “com.ibm.websphere.rsadapter.GenericDataStoreHelper” as [Helper Class Name of Data and Store].

データソースの作成

データソースの作成

ステップ 1: 基本データソース情報の入力  
ステップ 2: JDBC プロバイダーを選択  
→ ステップ 3: データソースのデータベース特定プロパティを入力  
ステップ 4: 要約

データソースのデータベース特定プロパティを入力

ユーザー定義のデータソースに対して、データベースベンダーの JDBC ドライバーに必要なプロパティを指定します。必要なすべてのプロパティがこのウィザードページで求められない場合は、管理コンソールでカスタムプロパティとしてあとで構成します。データストアヘルパー・クラス・フィールドは通常、ドライバタイプに適したデフォルト値を表示します。ただし、一部のドライバ・インストールで、WebSphere(R) Application Server は、汎用のデータストアヘルパー・クラス名のみを提供します。特定の値を入力してください。そうでなければ、ウィザードの終了後にデータストアヘルパー・クラスを設定してください。管理コンソールでこの新規データソースの設定ページに進みます。

\* データストアのヘルパー・クラス名  
com.ibm.websphere.rsadapter.GenericDataStoreHelper

☒ コンテナ管理バージョン (CMP) 内でこのデータソースを使用する

前へ 次へ 取り消し

## (6) Check the configuration and click on [Complete] button.

データソースの作成

データソースの作成

ステップ 1: 基本データソース情報の入力  
ステップ 2: JDBC プロバイダーを選択  
ステップ 3: データソースのデータベース特定プロパティを入力  
→ ステップ 4: 要約

要約

アクションの要約:

オプション	値
有効範囲	cells:im8138Node01Cell:nodes:im8138Node01:servers:server1
データソース名	intra-mart DEFAULT
JNDI 名	jdbc/sample
コンポーネント管理の識別名	(なし)
既存 JDBC プロバイダーを選択	Oracle JDBC Driver
実装クラス名	oracle.jdbc.pool.OracleConnectionPoolDataSource
URL	jdbc:oracle:thin:@localhost:1521:orcl
データストアのヘルパー・クラス名	com.ibm.websphere.rsadapter.Oracle10gDataStoreHelper
コンテナ管理バージョン (CMP) 内でこのデータソースを使用する	true

前へ 終了 取り消し

### 3.5.1.2.2.5 Connecting Data Source with Database User.

- (1) Select [Resource]- [JDBC provider] from menu again, click a linkage of “intra-mart DEFAULT”.

- (2) Select “Component Administration Authentication Alias” set in “3.5.1.2.2.2 Configuration of DB users to be connected to database”.

### 3.5.1.2.2.6 Configuring custom property of datasource

- (1) Configuring custom property. Select [Additional property] – [Custom Property].  
(This is necessary when you use SQLServer2000 and PostgreSQL)

\* In case of SQL Server 2000

Click a linkage of [selectMethod].

データソース > intra-mart DEFAULT > カスタム・プロパティ

このページを使用して、構成するリソース・プロバイダーおよびリソース・ファクトリーに対してエンタープライズ情報システム (EIS) が必要とするカスタム・プロパティを指定します。例えば、多くのデータベース・ベンダーは、データベースにアクセスするデータソースについて追加のカスタム・プロパティを必要とします。

設定

選択	名前	値	説明	必要
<input type="checkbox"/>	selectMethod		Determine whether or not Microsoft SQL Server 'server cursors' are used for SQL queries. Values are 'cursor' or 'direct'. The default is 'direct'. See the DataDirect Connect JDBC driver documentation for more information.	false

Under Value, enter "Cursor" and click on [OK].

構成

一般プロパティ

\* 有効範囲  
cells:im8138Node01Cell:nodes:im8138Node01:servers:server1

☐ 必要

名前  
selectMethod

値  
Cursor

説明  
Determine whether or not Microsoft SQL Server 'server cursors' are used for SQL queries. Values are 'cursor' or 'direct'. The default is 'direct'. See the DataDirect Connect JDBC driver documentation for more information.

タイプ  
java.lang.String

適用 OK リセット 取り消し

\* In case of PostgreSQL

Configure [serverName],[databaseName] and[portNumber].

データソース

データソース > intra-mart DEFAULT > カスタム・プロパティ

このページを使用して、構成するリソース・プロバイダーおよびリソース・ファクトリーに対してエンタープライズ情報システム (EIS) が必要とするカスタム・プロパティを指定します。例えば、多くのデータベース・ベンダーは、データベースにアクセスするデータソースについて追加のカスタム・プロパティを必要とします。

設定

選択	名前	値	説明	必要
<input type="checkbox"/>	password			false
<input type="checkbox"/>	loginTimeout			false
<input type="checkbox"/>	logWriter			false
<input checked="" type="checkbox"/>	serverName	localhost		false
<input type="checkbox"/>	user			false
<input checked="" type="checkbox"/>	portNumber	5432		false
<input type="checkbox"/>	defaultAutoCommit			false
<input checked="" type="checkbox"/>	databaseName	dbname		false
<input type="checkbox"/>	prepareThreshold			false

合計 9

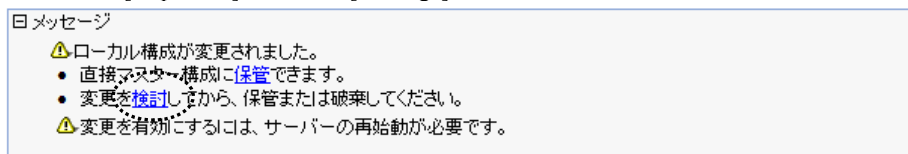
Because this uses GenericDataStoreHelper, following alert will displayed when using DB.

“Alert: GenericDataStoreHelper is used”

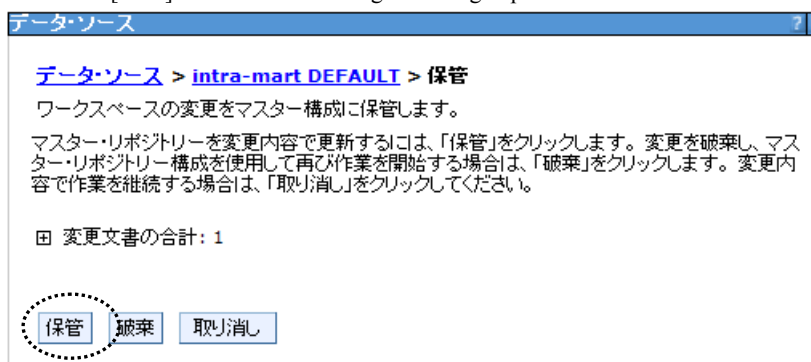


### 3.5.1.2.2.7 Saving Changes

- (1) Click on the [Inspection] link in the [Message] field.



Click on the [Save] button after checking the changed parts.



DataSource has been successfully registered in WebSphere.

### 3.5.1.2.3 WAR File Deployment

Register an intra-mart application on the WebSphere.

Prior to the deployment, please ensure that the following tasks have been all completed.

- AFW has already been installed
- WAR file has already been created
- WebSphere has already been installed
- DataSource has already been configured

Please refer to “3.5.1.2.2 Registering DataSource (JDBC) in WebSphere”.

- WAR file has not been deployed yet (If it has been deployed, delete it)

WAR file can be deployed once the above-mentioned operations have been completed

- (1) Edit data-source.xml

Edit “<% Server Manager’s root %>/conf/data-source.xml”.

Please refer to “3.6.3 data-source.xml” for details.

- (2) Start up all AFW servers.

**(Important) If Server Manager and Service Platform are not started up, deployment cannot be implemented.**

\* Please refer to “4 Startup and Shutdown” on how to start up servers.

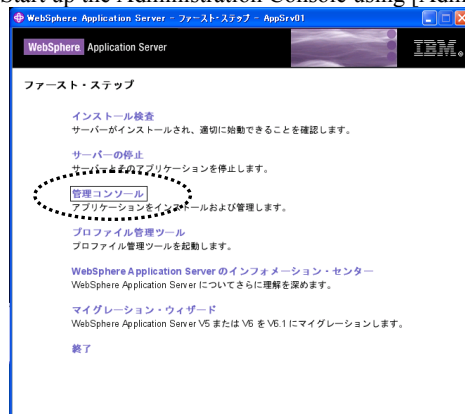
- (3) Start up “First Step” of WAS.



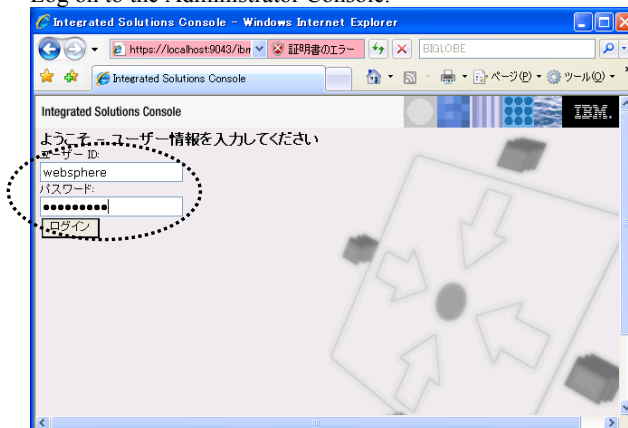
- (4) If WAS is down, start up WAS from [Server Startup] of “First Step”.



- (5) Start up the Administration Console using [Administration Console] of “First Step”.



- (6) Log on to the Administrator Console.



- (7) Select [Application] - [Install New Application] from the menu.



- (8) Configure [Path to New Application].

Input full path of imart.war in [absolute path] of [Remote file system].

アプリケーションインストールの準備

アップロードおよびインストールする EAR, WAR, JAR, または SAR モジュールを指定してください。

新規アプリケーションへのパス

☐ ローカル・ファイル・システム

絶対パス

☐ リモート・ファイル・システム

絶対パス

C:\imart\imart.war

参照...

コンテキスト・ルート

スタンドアロン Web モジュール (.war ファイル) および SIP モジュール (.sar ファイル) にのみ使用される

アプリケーションをどのようにインストールしますか?

☒ 追加情報が必要な場合のみプロンプトを出す。

☐ すべてのインストール・オプションおよびパラメータを表示する。

次へ 取り消し

- (9) Enter a context path in [Context Root] and click on [Next] button.

Here, [/imart] is entered.

アプリケーションインストールの準備

アップロードおよびインストールする EAR, WAR, JAR, または SAR モジュールを指定してください。

新規アプリケーションへのパス

☐ ローカル・ファイル・システム

絶対パス

☒ リモート・ファイル・システム

絶対パス

C:\imart\imart.war

参照...

コンテキスト・ルート

/imart

スタンドアロン Web モジュール (.war ファイル) および SIP モジュール (.sar ファイル) にのみ使用される

アプリケーションをどのようにインストールしますか?

☒ 追加情報が必要な場合のみプロンプトを出す。

☐ すべてのインストール・オプションおよびパラメータを表示する。

次へ 取り消し

- (10) Click on [Next] button.

新規アプリケーションのインストール

エンタープライズ・アプリケーションおよびモジュールのインストールのオプションを指定します。

ステップ 1: インストールオプションの選択

ステップ 2: モジュールをサーバーにマップ

ステップ 3: Web モジュール用の仮想ホストをマップ

ステップ 4: 完了

インストール・オプションの選択

ユーザーのアプリケーションの作成およびインストールに使用可能なさまざまなオプションを指定します。

☐ JavaServer Pages ファイルのプリコンパイル

アプリケーションをインストールするディレクトリ

☒ アプリケーションの配信

☐ バイナリー構成の使用

☐ Enterprise Bean のデプロイ

アプリケーション名

imart\_war

☒ リソース用の MBean の作成

☐ クラスの再ロードを有効にする

再ロード間隔 (秒)

☐ Web サービスのデプロイ

入力/警告/失敗の妥当性検査

警告

☐ プロセス組み込み構成

ファイル許可

すべてのファイルの読み取りを許可するが、書き込みは許可しない

実行可能なファイルの実行を許可

HTML およびイメージ・ファイルの読み取りを全員に許可

ファイルアクセス権の設定

.\*\dll=755#.\*\so=755#.\*\a=755#.\*\sl=755

アプリケーションビルド ID

Unknown

☐ リモート・リソースに対する組み込みディレクトリ・パスの許可

☐ リモート・リソースからの組み込みサービスの許可

次へ 取り消し

- (11) Click on [Next] button.

新規アプリケーションのインストール

エンタープライズ・アプリケーションおよびモジュールのインストールのオプションを指定します。

ステップ 1 インストール・オプションの選択

→ ステップ 2: モジュールをサーバーにマップ

ステップ 3 Web モジュール用の仮想ホストをマップ

ステップ 4 要約

モジュールをサーバーにマップ

アプリケーションに含まれるモジュールをインストールする。アプリケーション・サーバーやアプリケーション・サーバーのクラスターなどのターゲットを指定します。モジュールは同じアプリケーション・サーバー上にインストールすることも、複数のアプリケーション・サーバーに分散させることもできます。また、このアプリケーションに対する要求のルーターとして機能するターゲットとして、Web サーバーを指定します。各 Web サーバーのプラグイン構成ファイル (plugin-cfg.xml) は、経由して経路指定されるアプリケーションに基づいて生成されます。

クラスターおよびサーバー:

WebSphere:cell=im8138Node01Cell,node=im8138Node01,server=server1 適用

選択	モジュール	URI	サーバー
<input type="checkbox"/>	imart.war	imart.war;WEB-INF/web.xml	WebSphere:cell=im8138Node01Cell,node=im8138Node01,server=server1

前へ 次へ 取り消し

- (12) Click on [Next] button.

新規アプリケーションのインストール

エンタープライズ・アプリケーションおよびモジュールのインストールのオプションを指定します。

ステップ 1 インストール・オプションの選択

ステップ 2 モジュールをサーバーにマップ

→ ステップ 3: Web モジュール用の仮想ホストをマップ

ステップ 4 要約

Web モジュール用の仮想ホストをマップ

アプリケーションに含まれている Web モジュールのインストール先の仮想ホストを指定します。Web モジュールは、同一の仮想ホストにインストールすることも、いくつかのホストに分散させることもできます。

複数マッピングの適用

選択	Web モジュール	仮想ホスト
<input type="checkbox"/>	imart.war	default_host

前へ 次へ 取り消し

- (13) After checking the configuration, click on [Complete] button.

新規アプリケーションのインストール

エンタープライズ・アプリケーションおよびモジュールのインストールのオプションを指定します。

ステップ 1 インストール・オプションの選択

ステップ 2 モジュールをサーバーにマップ

ステップ 3 Web モジュール用の仮想ホストをマップ

→ ステップ 4: 要約

要約

インストール・オプションの要約

オプション	値
JavaServer Pages ファイルのプリコンパイル	はい
アプリケーションをインストールするディレクトリ	はい
アプリケーションの配付	はい
パイナリー構成の使用	はい
Enterprise Bean のデプロイ	はい
アプリケーション名	imart_war
リソース用の MBean の作成	はい
クラスの再ロードを有効にする	はい
再ロード間隔 (秒)	
Web サービスのデプロイ	はい
入力オフ/警告/失敗の妥当性検査	警告
プロセッサ組み込み構成	はい
ファイル許可	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
アプリケーションビルド ID	Unknown
リモート・リソースに対する組み込みデイスバッチの許可	はい
リモート・リソースからの組み込みサービスの許可	はい
セル/ノード/サーバー	<a href="#">ここをクリックする</a>

前へ 完了 取り消し

- (14) If “Application <imart\_war> has been successfully installed” is displayed, click on the [Inspection] link.

ADMA5005: アプリケーション imart\_war が WebSphere Application Server リポジトリに構成されました。

ADMA5053: インストール済みオプション・パッケージのライブラリー参照が作成されます。

ADMA5005: アプリケーション imart\_war が WebSphere Application Server リポジトリに構成されます。

ADMA5001: アプリケーション・バイナリーは C:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\wstempl-228498399\workspace\cells\im8138Node01Cell\applications\imart\_war.ear\imart\_war.ear に保管されます。

ADMA5005: アプリケーション imart\_war が WebSphere Application Server リポジトリに構成されます。

SECJ0400: アプリケーション imart\_war が appContextIDForSecurity 情報で正常に更新されました。

ADMA5011: アプリケーション imart\_war の一時ディレクトリーのクリーンアップが完了しました。

ADMA5013: アプリケーション imart\_war は正常にインストールされました。

アプリケーション imart\_war は正常にインストールされました。

アプリケーションを開始するには、最初にマスター構成への変更を保管する必要があります。

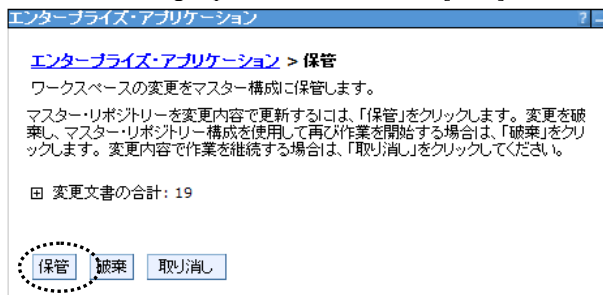
ローカル構成が変更されました。

- 直接マスター構成に保管できます。
- 変更を検討してから、保管または破棄してください。

インストール済みのアプリケーションで作業するには、「アプリケーションの管理」ボタンをクリックしてください。

[アプリケーションの管理](#)

- (15) Check the changed points and Click on the [Save] button.



WAR file has been successfully deployed.

## 3.5.2 WebLogic Settings

Configure AFW so that it can be used on WebLogic.

In order to operate AFW on WebLogic, the following requirements must be met.

- ◆ DataSource has already been registered with WebLogic
- ◆ The WAR file to be deployed already exists
- ◆ “<% Server Manager's root %>/conf/data-source.xml” has already been configured

WAR files can be deployed once the above-mentioned requirements are met.

### 3.5.2.1 Example of WebLogic Application Server Deployment

The URL for accessing AFW will be explained in “/imart”.

The following description uses **WebLogic10J (Windows version)** as an example.

(Since the configuration method will differ in case of other revisions and editions of WebLogic, please consult the distributors or manufacturers of WebLogic for further enquiries.)

The deployment procedure of WebLogic Application Server will be as follows.

- (1) Creating WAR file  
(Please refer to “3.5.2.1.1 Creating WAR” for details)
- (2) Registering the DataSource (JDBC) to WAR file.  
(Please refer to “3.4.2.1.2 Registering DataSource (JDBC) in WebLogic” for details)
- (3) Deploying WAR file  
(Please refer to “3.4.2.1.3 WAR File Deploy” for details)

**\* There is no need to repeat the process (2) every time.**

### 3.5.2.1.1 Creating WAR File

Create WAR file for AFW.

This process is always required if the contents or class is re-compiled.

`<%im_path%>` is the directory installed with Application Runtime.

- (1) Create weblogic.xml as follows.

```
<!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems, Inc.//DTD Web Application 8.1//EN"
"http://www.bea.com/servers/wls810/dtd/weblogic810-web-jar.dtd">

<weblogic-web-app>
  <container-descriptor>
    <filter-dispatched-requests-enabled>false</filter-dispatched-requests-enabled>
  </container-descriptor>
</weblogic-web-app>
```

- (2) Copy weblogic.xml into `<%im_path%>/doc/imart/WEB-INF`.

- (3) Go to the following directory on the console screen.

`<%im_path%>/bin`

- (4) Execute the following command to create a WAR file.

**zippack -o <WAR File Name> <Context Root Path>**

[Example]

Windows : zippack -o ..¥imart.war ..¥doc¥imart

UNIX : zippack.sh -o ../imart.war ../doc/imart

**By executing this command, a WAR file will be created as `<%im_path%>/imart.war`.**

#### 3.5.2.1.1.1 The way to restrict the infinite loop

Setting (1) and (2) of “3.5.2.1.1 Creating WAR file” is needed in order to restrict infinite loop. If you use AFW in WebLogic, be sure to make this configuration. This configuration must be made before creating the WAR file.

If filter processing of servlet is used in WebLogic Server, when you execute transfer or include by using request dispatcher, the request is re-done. As the result of this, infinite loop will occur.

In WebLogic Server 8.1 SP2 or later version, you can restrict the re-execution of the filter by adding “filter-dispatched-requests-enabled” configuration into weblogic.xml.

Reference URL: [http://edocs.beasys.co.jp/e-docs/wls/docs81/notes/resolved\\_sp02.html#1473934](http://edocs.beasys.co.jp/e-docs/wls/docs81/notes/resolved_sp02.html#1473934)



### 3.5.2.1.2 Registering DataSource (JDBC) in WebLogic

This section describes how to configure DataSource using administration console via an example.

(This section describes about Oracle, DB2, SQL Server, and PostgreSQL.)

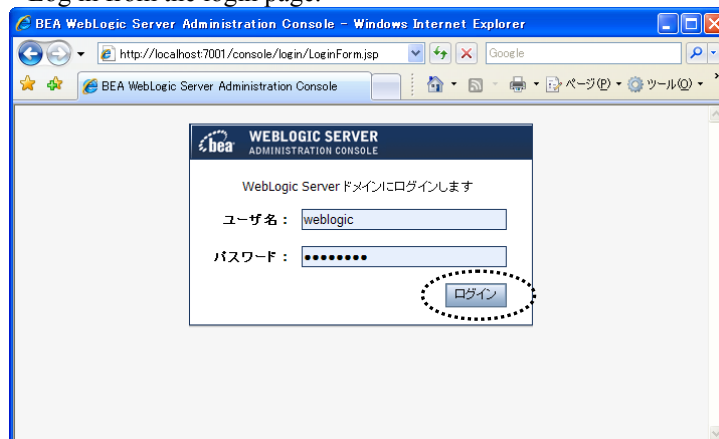
With regards to Oracle and SQL Server, there is an explanation about the use of BEA WebLogic Type 4 JDBC driver. About PostgreSQL, please install the driver by yourself.

\* DataSource needs to be registered only once. It does not need to be repeated at every deployment.

\* If a different JDBC driver is installed, please change the settings contents accordingly.

- (1) Start up WebLogicServer.
- (2) Open the administration console from the browser.  
(Example) HTTP://host:port number/console

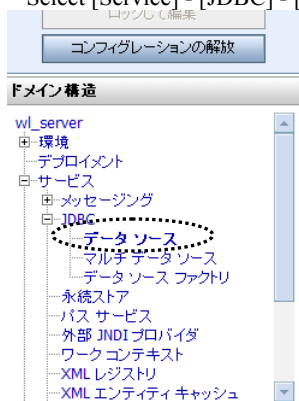
- (3) Log in from the login page.



- (4) Click on [Lock and Edit] in the left menu.



- (5) Select [Service] - [JDBC] - [Datasource] on the left menu.



- (6) In the [Outline of JDBC datasource] screen, click on [Create New] button.

**JDBC データソースの概要**

JDBC データソースは、JDBC 接続のプールを介したデータベース 接続を提供する JNDI ツリーにバインドされたオブジェクトです。アプリケーションから JNDI ツリーのデータソースをルックアップして、データソースからデータベース接続を借りることができます。

このページでは、このドメイン内に作成された JDBC データソース オブジェクトの概要を示します。

このテーブルのカスタマイズ

データソース (フィルタ処理されました - カラムがさらに存在します)

新規作成 削除

表示項目 1 - 1 / 1 前へ | 次へ

<input type="checkbox"/>	名前	JNDI 名	対象
<input type="checkbox"/>	examples-demo	examples-dataSource-demoPool	examplesServer

新規作成 削除

表示項目 1 - 1 / 1 前へ | 次へ

- (7) Create a new JDBC datasource. Here, the name of datasource is “intra-mart DEFAULT” and JNDI name is “jdbc-sample”.

Followings are description about configuration methods of each database.

## 3.5.2.1.2.1 In case of Oracle

- (1) Configure [Name], [JNDI Name], [Database Type] and [Database Driver], and click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**JDBC データ ソースのプロパティ**  
次のプロパティは、新しい JDBC データ ソースを識別するために使用されます。

新しい JDBC データ ソースの名前を指定してください。

名前: intra-mart DEFAULT

新しい JDBC データ ソースの JNDI 名を指定してください。

JNDI 名: jdbc-sample

データベースの種類を選択してください。

データベースの種類: Oracle

データベース接続の作成に使用するデータベースドライバを指定してください。

データベースドライバ: \*BEA's Oracle Driver (Type 4) Versions:9.0.1,9.2.0,10

戻る 次へ 完了 取り消し

Database Type	Database Driver
Oracle	*BEA's Oracle Driver (Type 4) Versions:9.0.1,9.2.0,10

- (2) Click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**トランザクション オプション**  
非 XA JDBC ドライバを使用して新しいデータ ソースにデータベース接続を作成します。

このデータ ソースでグローバル トランザクションをサポートするかどうかを選択してください。サポートする場合は、このデータ ソースのトランザクション プロトコルを選択してください。

☒ グローバル トランザクションのサポート

ロギング ラスト リソース (LLR) トランザクションの最適化を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。[2 フェーズ コミットのエミュレート] の代わりに使用することをお勧めします。

☐ ロギング ラスト リソース

JTA を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションへの参加をエミュレートできるようにする場合は、このオプションを選択します。このオプションは、ヒューリスティックな状況に耐えられるアプリケーションでのみ使用してください。

☐ 2 フェーズ コミットのエミュレート

1 フェーズ コミット トランザクション処理を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。このオプションを有効にすると、他のリソースはグローバル トランザクションに参加できません。

☒ 1 フェーズ コミット

戻る 次へ 完了 取り消し

- (3) Configure [Database Name], [Host Name], [Port], [Database User name] and [Password], and click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

接続プロパティ  
接続プロパティを定義します。

接続先のデータベース名を指定してください。

データベース名:

データベース サーバの名前または IP アドレスを指定してください。

ホスト名:

データベースへの接続に使用するデータベース サーバのポートを指定してください。

ポート:

データベース 接続の作成に使用するデータベース アカウントのユーザー名を指定してください。

データベース ユーザー名:

データベース 接続の作成に使用するデータベース アカウントのパスワードを指定してください。

パスワード:

パスワードの確認:

戻る 次へ 完了 取り消し

- (4) Implement [Configuration test] and click on [Next] button after confirming that connection test is successfully completed. (If you can not pass the test, review the configuration.)

新しい JDBC データ ソースの作成

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

データベース 接続のテスト  
データベースの可用性、および指定した接続プロパティをテストします。

接続プールでのデータベース 接続の作成に使用する JDBC ドライバ クラスの完全パッケージ名を指定してください。  
(このドライバ クラスは、デプロイ先のいずれかのサーバのクラスパスに含まれる必要があります。)

ドライバ クラス名:

接続先データベースの URL を指定してください。使用する JDBC ドライバによって、URL の書式が異なります。

URL:

データベース 接続の作成に使用するデータベース アカウントのユーザー名を指定してください。

データベース ユーザー名:

データベース 接続の作成に使用するデータベース アカウントのパスワードを指定してください。  
(注意: 安全なパスワード管理のために、パスワードは [プロパティ] フィールドではなく [パスワード] フィールドに入力してください。)

パスワード:

パスワードの確認:

データベース 接続の作成時に JDBC ドライバに渡すプロパティを指定してください。

プロパティ: 

```
user=db_user
portNumber=1521
SID=orcl
serverName=localhost
```

データベース 接続のテストに使用するテーブル名または SQL ステートメントを指定してください。

テスト対象のテーブル名: 

```
SQL SELECT 1 FROM DUAL
```

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

- (5) Check the destination of deployment of JDBC datasource, and click on [Complete].

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**対象の選択**  
新しい JDBC データ ソースのデプロイ先として、1つまたは複数の対象を選択できます。対象を選択しない場合でもデータ ソースは作成されますが、デプロイされません。その場合、後でデータ ソースをデプロイする必要があります。

サーバ

☒ examplesServer

戻る 次へ 完了 取り消し

- (6) Click on [Activation of the change] in the left menu.



Now, you have completed the registration of JDBC datasource successfully.

## 3.5.2.1.2.2 In case of DB2

- (1) Configure [Name], [JNDI Name], [Database Type] and [Database Driver], and click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**JDBC データ ソースのプロパティ**

次のプロパティは、新しい JDBC データ ソースを識別するために使用されます。

新しい JDBC データ ソースの名前を指定してください。

名前: intra-mart DEFAULT

新しい JDBC データ ソースの JNDI 名を指定してください。

JNDI 名: jdbc-sample

データベースの種類を選択してください。

データベースの種類: DB2

データベース接続の作成に使用するデータベースドライバを指定してください。

データベースドライバ: \*BEA's DB2 Driver (Type 4) Versions:7.X,8.X

戻る 次へ 完了 取り消し

Database type	Database Driver
DB2	*BEA's DB2 Driver (Type 4) Versions:7.X,8.X

- (2) Click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**トランザクション オプション**

非 XA JDBC ドライバを使用して新しいデータ ソースにデータベース接続を作成します。

このデータ ソースでグローバル トランザクションをサポートするかどうかを選択してください。サポートする場合は、このデータ ソースのトランザクション プロトコルを選択してください。

☒ グローバル トランザクションのサポート

ロギング ラスト リソース (LLR) トランザクションの最適化を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。[2 フェーズ コミットのエミュレート] の代わりに使用することをお勧めします。

☐ ロギング ラスト リソース

JTA を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションへの参加をエミュレートできるようにする場合は、このオプションを選択します。このオプションは、ヒューリスティックな状況に耐えられるアプリケーションでのみ使用してください。

☐ 2 フェーズ コミットのエミュレート

1 フェーズ コミット トランザクション処理を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。このオプションを有効にすると、他のリソースはグローバル トランザクションに参加できません。

☒ 1 フェーズ コミット

戻る 次へ 完了 取り消し

- (3) Configure [Database Name], [Host Name], [Port], [Database User name] and [Password], and click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

接続プロパティ  
接続プロパティを定義します。

接続先のデータベース名を指定してください。

データベース名:

データベース サーバの名前または IP アドレスを指定してください。

ホスト名:

データベースへの接続に使用するデータベース サーバのポートを指定してください。

ポート:

データベース接続の作成に使用するデータベース アカウントのユーザー名を指定してください。

データベース ユーザー名:

データベース接続の作成に使用するデータベース アカウントのパスワードを指定してください。

パスワード:

パスワードの確認:

戻る 次へ 完了 取り消し

- (4) Implement [Configuration test] and click on [Next] after confirming that connection test is successfully completed. (If you can not pass the test, review the configuration.)

新しい JDBC データ ソースの作成

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

データベース接続のテスト  
データベースの可用性、および指定した接続プロパティをテストします。

接続プールでのデータベース接続の作成に使用する JDBC ドライバ クラスの完全パッケージ名を指定してください。  
(このドライバ クラスは、デプロイ先のいずれかのサーバのクラスパスに含まれる必要があります。)

ドライバ クラス名:

接続先データベースの URL を指定してください。使用する JDBC ドライバによって、URL の書式が異なります。

URL:

データベース接続の作成に使用するデータベース アカウントのユーザー名を指定してください。

データベース ユーザー名:

データベース接続の作成に使用するデータベース アカウントのパスワードを指定してください。  
(注意: 安全なパスワード管理のために、パスワードは [プロパティ] フィールドではなく [パスワード] フィールドに入力してください。)

パスワード:

パスワードの確認:

データベース接続の作成時に JDBC ドライバに渡すプロパティを指定してください。

プロパティ: 

```
user=db_user
databaseName=db_name
serverName=localhost
batchPerformanceWorkaround=true
```

データベース接続のテストに使用するテーブル名または SQL ステートメントを指定してください。

テスト対象のテーブル名: 

```
SQL SELECT COUNT (*) FROM
SYSIBM.SYSTABLES
```

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

- (5) Check the destination of deployment of JDBC datasource, and click on [Complete].

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

対象の選択

新しい JDBC データ ソースのデプロイ先として、1 つまたは複数の対象を選択できます。対象を選択しない場合でもデータ ソースは作成されますが、デプロイされません。その場合、後でデータ ソースをデプロイする必要があります。

サーバ

☒ examplesServer

戻る 次へ 完了 取り消し

- (6) Click on [Activation of the change] in the left menu.



Now, you have completed the configuration of JDBC datasource successfully.



## 3.5.2.1.2.3 In case of SQL Server

- (1) Configure [Name], [JNDI Name], [Database Type] and [Database Driver], and click on [Next]

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**JDBC データ ソースのプロパティ**  
次のプロパティは、新しい JDBC データ ソースを識別するために使用されます。

新しい JDBC データ ソースの名前を指定してください。

名前: intra-mart DEFAULT

新しい JDBC データ ソースの JNDI 名を指定してください。

JNDI 名: jdbc-sample

データベースの種類を選択してください。

データベースの種類: MS SQL Server

データベース接続の作成に使用するデータベースドライバを指定してください。

データベースドライバ: \*BEA's MS SQL Server Driver (Type 4) Versions:7.0, 2000, 2005

戻る 次へ 完了 取り消し

Database type	Database driver
MS SQL Server	*BEA's MS SQL Server Driver (Type 4) Versions:7.0,2000,2005

- (2) Click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**トランザクション オプション**  
非 XA JDBC ドライバを使用して新しいデータ ソースにデータベース接続を作成します。

このデータ ソースでグローバル トランザクションをサポートするかどうかを選択してください。サポートする場合は、このデータ ソースのトランザクション プロトコルを選択してください。

☒ グローバル トランザクションのサポート

ロギング ラストリソース (LLR) トランザクションの最適化を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。[2 フェーズ コミットのエミュレート] の代わりに使用することをお勧めします。

☐ ロギング ラストリソース

JTA を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションへの参加をエミュレートできるようにする場合は、このオプションを選択します。このオプションは、ヒューリスティックな状態に耐えられるアプリケーションでのみ使用してください。

☐ 2 フェーズ コミットのエミュレート

1 フェーズ コミットトランザクション処理を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。このオプションを有効にすると、他のリソースはグローバル トランザクションに参加できません。

☒ 1 フェーズ コミット

戻る 次へ 完了 取り消し

- (3) Configure [Database Name], [Host Name], [Port], [Database User name] and [Password], and click on [Next] button.

新しい JDBC データソースの作成

戻る 次へ 完了 取り消し

接続プロパティ  
接続プロパティを定義します。

接続先のデータベース名を指定してください。

データベース名: db\_name

データベース サーバの名前または IP アドレスを指定してください。

ホスト名: localhost

データベースへの接続に使用するデータベース サーバのポートを指定してください。

ポート: 1433

データベース 接続の作成に使用するデータベース アカウントのユーザ名を指定してください。

データベース ユーザ名: db\_user

データベース 接続の作成に使用するデータベース アカウントのパスワードを指定してください。

パスワード: .....

パスワードの確認: .....

戻る 次へ 完了 取り消し

- (4) Implement [Configuration test] and click on [Next] after confirming that connection test is successfully completed. (If you can not pass the test, review the configuration.)

新しい JDBC データソースの作成

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

データベース接続のテスト  
データベースの可用性、および指定した接続プロパティをテストします。

接続ツールでのデータベース 接続の作成に使用する JDBC ドライバ クラスの完全パッケージ名を指定してください。  
(このドライバクラスは、デプロイ先のいずれかのサーバのクラスパスに含まれる必要があります。)

ドライバ クラス名: weblogic.jdbc.sqlserver.S

接続先データベースの URL を指定してください。使用する JDBC ドライバによって、URL の書式が異なります。

URL: jdbc:bea:sqlserver://localhost:1433

データベース 接続の作成に使用するデータベース アカウントのユーザ名を指定してください。

データベース ユーザ名: db\_user

データベース 接続の作成に使用するデータベース アカウントのパスワードを指定してください。  
(注意: 安全なパスワード管理のために、パスワードは [プロパティ] フィールドではなく [パスワード] フィールドに入力してください。)

パスワード: .....

パスワードの確認: .....

データベース 接続の作成時に JDBC ドライバに渡すプロパティを指定してください。

プロパティ: user=db\_user, portNumber=1433, databaseName=db\_name, serverName=localhost

データベース 接続のテストに使用するテーブル名または SQL ステートメントを指定してください。

テスト対象のテーブル名: SQL SELECT 1

コンフィグレーションのテスト 戻る 次へ 完了 取り消し

- (5) Check the destination of deployment of JDBC datasource, and click on [Complete].

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

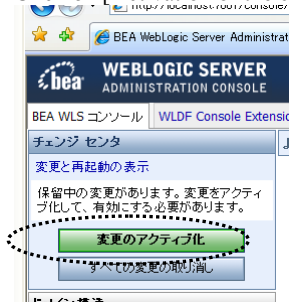
**対象の選択**  
新しい JDBC データ ソースのデプロイ先として、1つまたは複数の対象を選択できます。対象を選択しない場合でもデータ ソースは作成されますが、デプロイされません。その場合、後でデータ ソースをデプロイする必要があります。

**サーバ**

☒ examplesServer

戻る 次へ 完了 取り消し

- (6) Click on [Activation of the change] in the left menu.



- (7)

Now, you have completed the configuration of JDBC datasource successfully.

## 3.5.2.1.2.4 In case of PostgreSQL

- (1) Configure [Name], [JNDI Name], [Database Type] and [Database Driver], and click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**JDBC データ ソースのプロパティ**

次のプロパティは、新しい JDBC データ ソースを識別するために使用されます。

新しい JDBC データ ソースの名前を指定してください。

名前: intra-mart DEFAULT

新しい JDBC データ ソースの JNDI 名を指定してください。

JNDI 名: jdbc-sample

データベースの種類を選択してください。

データベースの種類: PostgreSQL

データベース接続の作成に使用するデータベースドライバを指定してください。

データベースドライバ: PostgreSQL's Driver (Type 4) Versions: Any

戻る 次へ 完了 取り消し

Database type	Database driver
PostgreSQL	PostgreSQL's Driver (Type 4) Versions: Any

- (2) Click on [Next] button.

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

**トランザクション オプション**

非 XA JDBC ドライバを使用して新しいデータ ソースにデータベース接続を作成します。

このデータ ソースでグローバル トランザクションをサポートするかどうかを選択してください。サポートする場合は、このデータ ソースのトランザクション プロトコルを選択してください。

☒ グローバル トランザクションのサポート

ロギング ラストリソース (LLR) トランザクションの最適化を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。[2 フェーズ コミットのエミュレート] の代わりに使用することをお勧めします。

☐ ロギング ラストリソース

JTA を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションへの参加をエミュレートできるようにする場合は、このオプションを選択します。このオプションは、ヒューリスティックな状況に耐えられるアプリケーションでのみ使用してください。

☐ 2 フェーズ コミットのエミュレート

1 フェーズ コミット トランザクション処理を使用してデータ ソースからの非 XA JDBC 接続がグローバル トランザクションに参加できるようにする場合は、このオプションを選択します。このオプションを有効にすると、他のリソースはグローバル トランザクションに参加できません。

☒ 1 フェーズ コミット

戻る 次へ 完了 取り消し

- (3) Configure [Database Name], [Host Name], [Port], [Database User name] and [Password], and click on [Next] button.

新しい JDBC データソースの作成

戻る 次へ 完了 取り消し

接続プロパティ  
接続プロパティを定義します。

接続先のデータベース名を指定してください。

データベース名: db\_name

データベース サーバの名前または IP アドレスを指定してください。

ホスト名: localhost

データベースへの接続に使用するデータベース サーバのポートを指定してください。

ポート: 5432

データベース接続の作成に使用するデータベース アカウントのユーザ名を指定してください。

データベース ユーザ名: db\_user

データベース接続の作成に使用するデータベース アカウントのパスワードを指定してください。

パスワード: .....

パスワードの確認: .....

戻る 次へ 完了 取り消し

- (4) Implement [Configuration test] and click on [Next] after confirming that connection test is successfully completed. (If you can not pass the test, review the configuration.)

新しい JDBC データソースの作成

コンフィギュレーションのテスト 戻る 次へ 完了 取り消し

データベース接続のテスト  
データベースの可用性、および指定した接続プロパティをテストします。

接続プールでのデータベース接続の作成に使用する JDBC ドライバ クラスの完全パッケージ名を指定してください。  
(このドライバ クラスは、デプロイ先のいずれかのサーバのクラスパスに含まれる必要があります。)

ドライバ クラス名: org.postgresql.Driver

接続先データベースの URL を指定してください。使用する JDBC ドライバによって、URL の書式が異なります。

URL: jdbc:postgresql://localhost

データベース接続の作成に使用するデータベース アカウントのユーザ名を指定してください。

データベース ユーザ名: db\_user

データベース接続の作成に使用するデータベース アカウントのパスワードを指定してください。  
(注意: 安全なパスワード管理のために、パスワードは [プロパティ] フィールドではなく [パスワード] フィールドに入力してください。)

パスワード: .....

パスワードの確認: .....

データベース接続の作成時に JDBC ドライバに渡すプロパティを指定してください。

プロパティ: user=db\_user

データベース接続のテストに使用するテーブル名または SQL ステートメントを指定してください。

テスト対象のテーブル名: SQL SELECT 1

コンフィギュレーションのテスト 戻る 次へ 完了 取り消し

- (5) Check the destination of deployment of JDBC datasource, and click on [Complete].

新しい JDBC データ ソースの作成

戻る 次へ 完了 取り消し

対象の選択

新しい JDBC データ ソースのデプロイ先として、1 つまたは複数の対象を選択できます。対象を選択しない場合でもデータ ソースは作成されますが、デプロイされません。その場合、後でデータ ソースをデプロイする必要があります。

サーバ

☒ examplesServer

戻る 次へ 完了 取り消し

- (6) Click on [Activation of the change] in the left menu.



- (7)

Now, you have completed the registration of JDBC datasource successfully.

### 3.5.2.1.3 WAR File Deployment

Register an intra-mart application on the WebLogic.

Please check if the following operations are completed before the registration.

- AFW has already been installed
- WAR file has been created
- WebLogic is installed.
- Data source configuration has been completed  
Please refer to “3.5.2.1.2 Register DataSource (JDBC) in WebLogic”.
- WAR file has not been deployed yet (If it has already been deployed, delete it).

Once the above-mentioned checks are completed, deploy the WAR file.

- (1) Edit data-source.xml.

Edit <% Server Manager root %>/conf/data-source.xml.

Please refer to “3.6.3 data-source.xml” for details.

- (2) Start up all servers with AFW.

**[Important] If Server Manager and Service Platform (in case of distribution environment) were not started up, deployment cannot be completed.**

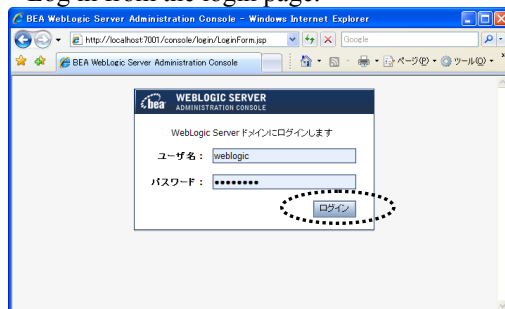
\* Please refer to “4 Startup and Shutdown” on starting servers.

- (3) Start up WebLogicServer.

- (4) Open administration console from a browser.

(Example) <http://hostname:port number/console>

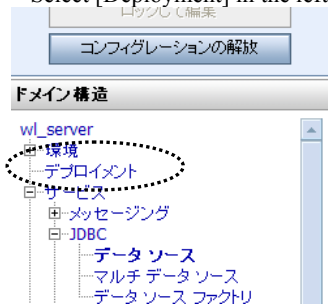
- (5) Log in from the login page.



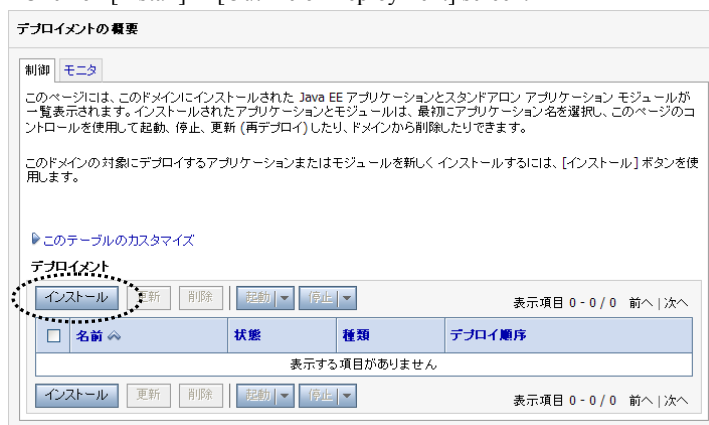
- (6) Click on [Lock and Edit] in the left menu.



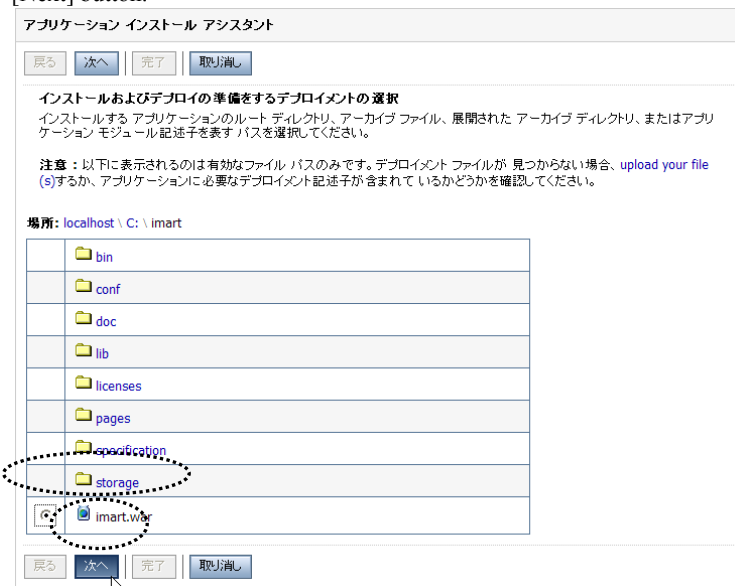
- (7) Select [Deployment] in the left menu.



- (8) Click on [Install] in [Outline of Deployment] screen.



- (9) Select imart.war which is created in “エラー! 参照元が見つかりません。WAR file Creation” and click on [Next] button.





- (10) Click on [Next] button.

アプリケーション インストール アシスタント

戻る 次へ 完了 取り消し

**対象指定スタイルの選択**  
対象は、このデプロイメントが実行されるサーバ、クラスタ、または仮想ホストです。アプリケーションの割り当てには、いくつかの方法があります。

☒ このデプロイメントをアプリケーションとしてインストールする  
アプリケーションとそのコンポーネントが同じ場所に割り当てられます。これは最も一般的な方法です。

☐ このデプロイメントをライブラリとしてインストールする  
アプリケーション ライブラリは、他のデプロイメントが共有できるデプロイメントです。ライブラリの参照元アプリケーションを実行するすべての対象でライブラリを使用できるようにする必要があります。

戻る 次へ 完了 取り消し

- (11) Click on [Next] button.

アプリケーション インストール アシスタント

戻る 次へ 完了 取り消し

**省略可能な設定**  
これらの設定は、変更することもデフォルトを受け入れることもできます。

— 全般 —  
このデプロイメントの名前を指定してください。

名前:

— セキュリティ —  
このアプリケーションに使用するセキュリティモデルを指定してください。

☒ DD のみ : デプロイメント記述子内に定義されたロールとポリシーのみを使用します。

☐ カスタム ロール : Administration Console 内に定義されたロールを使用します。デプロイメント記述子内に定義されたポリシーを使用します。

☐ カスタム ロールおよびポリシー : Administration Console 内に定義されたロールとポリシーのみを使用します。

☐ 詳細 : レルムのコンフィグレーション ページでコンフィグレーションしたカスタム モデルを使用します。

— ソースのアクセス可能性 —  
ソース ファイルをどのようにアクセス可能にするかを指定してください。

☒ デプロイメントの対象に定義されるデフォルトを使用  
推奨される選択。

☐ すべての対象にこのアプリケーションをコピーする  
デプロイ時に、アプリケーションが割り当てられる管理対象サーバにファイルが自動的にコピーされます。

☐ デプロイメントを次の場所からアクセス可能にする

場所:

すべての対象からアクセスされる、このアプリケーションのファイルの場所を指定してください。これは通常は共有ディレクトリです。この場所にアプリケーションのファイルが存在し、すべての対象からこの場所にアクセスできる必要があります。

戻る 次へ 完了 取り消し

- (12) Click on [Complete].

アプリケーション インストール アシスタント

戻る 次へ 完了 取り消し

選択項目を確認して [完了] をクリック  
デプロイメントを完了するには、[完了] をクリックします。完了するまでしばらくかかる場合があります。

— 追加コンフィグレーション —

このアプリケーションが正常に機能するには、追加コンフィグレーションが必要な場合があります。このアシスタントの完了後に、このアプリケーションのコンフィグレーションを確認しますか？

☒ はい、デプロイメントのコンフィグレーション画面に移動します。

☐ いいえ、後でコンフィグレーションを確認します。

— 概要 —

デプロイメント: C:\imart\imart.war

名前: imart

ステージング モード: 選択した対象に定義されるデフォルトを使用

セキュリティ モデル: DD のみ : デプロイメント記述子内に定義されたロールとポリシーのみを使用します。

このテーブルのカスタマイズ

対象の概要

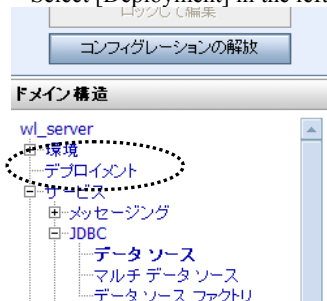
コンポーネント	対象
imart	examplesServer

戻る 次へ 完了 取り消し

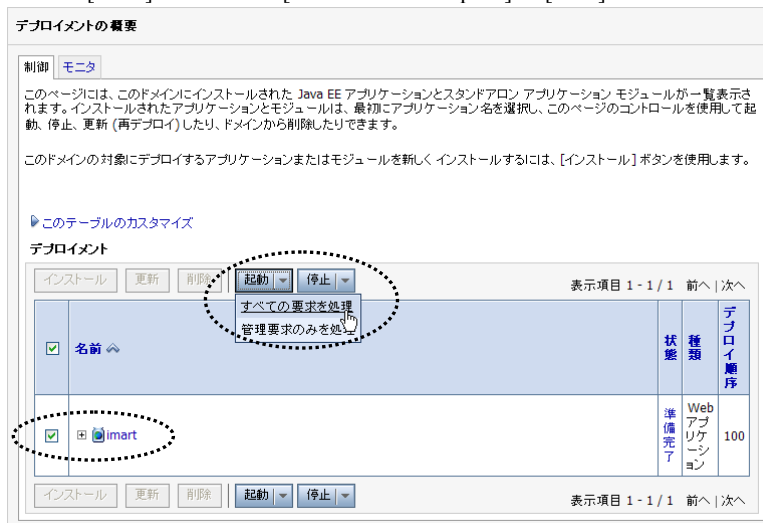
- (13) Click on [Activation of the change] in the left menu.



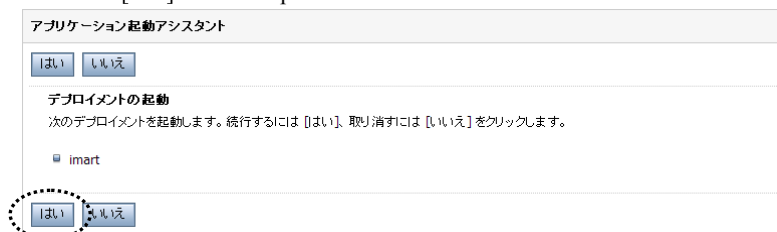
- (14) Select [Deployment] in the left menu.



- (15) Check [imart] and click on [Process all the request] of [Start] button.

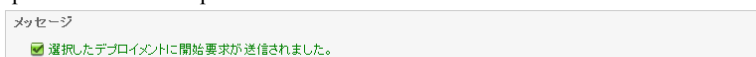


- (16) Click on [Yes] and start up.



If “java.lang.IllegalStateException: Server-Manager connect error: Network connection is closed.” occurred, make the starting procedures again.

If “starting request is transmitted to selected deployment” is displayed in the message box, deployment procedures are completed.



## 3.6 Database Connection Settings

intra-mart connects to Database via JDBC.

Please read the restrictions written on the “Release Note” attached to this product for details on various settings related to the database as well as precautions related to the connection to the database.

### 3.6.1 Preparation

Prepare an account on the database side of this product to get connected.

Also, make sure to reserve enough table space available for this product to save data.

**\* Notes when using Oracle**

Confirm whether **CREATE VIEW Authorization** is attached.

In Oracle Database 10g Release 2 environment, CONNECT role is assigned to only CREATE SESSION authorization but not other related authorizations. It is necessary to assign CREATE VIEW Authorization apparently.

“**Appendix D Creating Tablespace and Users in Oracle10g (P180)**” explains the way of tablespace and user registration. Please refer it.

**\* Notes when using Microsoft SQL Server**

It is recommended to configure collating sequence and create database with case sensitivity.

If character code is operated on “UNICODE”, change Column type [VARCHAR] of SQL file under “<% Storage Service root %>/system/basic/” to [NVARCHAR].

**\* Notes when using DB2**

Execute db2\_extention.sql in <% Root of Storage Service %>/bpw/database/ of the database.

If the above table space has already been created with page size of 32k or more, this step is not necessary.

This sql file creates C:\imartdb2\db2file.

Rewrite this file according to the situation and the system environment in which the table space is created using this file.

It is necessary that user needs to be using the connection DB2 when executing.

(The above is for Windows. If other OS is used, edit the file path to be created

([C:\imartdb2\db2file] in our example) accordingly.)

**\* Notes when using PostgreSQL**

NTT Data intra-mart has only tested operation using the database in which the character encoding is set to ‘UNICODE’.

### 3.6.2 http.xml settings

\* If you use **IWP (Resin)**, follow the procedures below.

- (1) Copy **JDBC driver file (jar or zip)** into `<%im_path%>/lib` directory in which Service Platform was installed in order to make Application Runtime run.
- (2) Edit `<% Application Runtime root %>/conf/http.xml`.

Set `<database>` tag in the `resin/server` tag of `http.xml` according to the database in use. (A sample is shown from the 180P the line of `http.xml`.)

Edit `<%root of Application Runtime%>/conf/http.xml`.

In the event of implementing round-robin, configure the service platform that has all the Application Runtime Installed.

#### ■ In case of Oracle

```
<database>
  <jndi-name><% Data Source Reference Name %></jndi-name>
  <driver>
    <type>oracle.jdbc.pool.OracleConnectionPoolDataSource</type>
    <url>jdbc:oracle:thin:@<% address of Oracle%>:<%Port Number%>:<%Name of Instance%>
  </url>
    <user> User Name for database connection </user>
    <password> User password for database connection </password>
  </driver>
  <prepared-statement-cache-size>8</prepared-statement-cache-size>
  <max-connections>20</max-connections>
  <max-idle-time>30s</max-idle-time>
</database>
```

#### ■ In case of IBM DB2 (Type4 JDBC Driver)

```
<database>
  <jndi-name><% Data Source Reference Name%></jndi-name>
  <driver>
    <type>com.ibm.db2.jcc.DB2Driver</type>
    <url>jdbc:db2://<% address of DB2%>:<%Port Number%>/<%Database name of DB2%>
  </url>
    <user> User Name for database connection </user>
    <password> User password for database connection </password>
  </driver>
  <prepared-statement-cache-size>8</prepared-statement-cache-size>
  <max-connections>20</max-connections>
  <max-idle-time>30s</max-idle-time>
</database>
```

■ In case of Microsoft SQL Server 2000

```
<database>
  <jndi-name><% Data Source Reference Name%></jndi-name>
  <driver>
    <type>com.microsoft.jdbc.sqlserver.SQLServerDriver</type>
    <url>jdbc:microsoft:sqlserver://<%Address          of          SQL          Server%>:<%Port
Number%>;DatabaseName=<%Database name%></url>
    <user> User Name for database connection </user>
    <password> User password for database connection </password>
    <init-param>
      <param-name>SelectMethod</param-name>
      <param-value>Cursor</param-value>
    </init-param>
  </driver>
  <prepared-statement-cache-size>8</prepared-statement-cache-size>
  <max-connections>20</max-connections>
  <max-idle-time>30s</max-idle-time>
</database>
```

■ In case of Microsoft SQL Server 2005

```
<database>
  <jndi-name><% Data Source Reference Name %></jndi-name>
  <driver>
    <type>com.microsoft.sqlserver.jdbc.SQLServerDriver</type>
    <url>jdbc:sqlserver://<%Address          of          SQL          Server%>:<%Port
number%>;DatabaseName=<%Database name%></url>
    <user> User Name for database connection </user>
    <password> User password for database connection </password>
    <init-param>
      <param-name>SelectMethod</param-name>
      <param-value>cursor</param-value>
    </init-param>
  </driver>
  <prepared-statement-cache-size>8</prepared-statement-cache-size>
  <max-connections>20</max-connections>
  <max-idle-time>30s</max-idle-time>
</database>
```

■ In case of PostgreSQL

```
<database>
  <jndi-name><% Data Source Reference Name %></jndi-name>
  <driver>
    <type>org.postgresql.Driver</type>
    <url>jdbc:postgresql://<%Address          of          PostgreSQL%>:<%Port
Number%>/<%DatabaseName%></url>
    <user> User Name for database connection </user>
    <password> User password for database connection </password>
  </driver>
  <prepared-statement-cache-size>8</prepared-statement-cache-size>
  <max-connections>20</max-connections>
  <max-idle-time>30s</max-idle-time>
</database>
```

### 3.6.3 data-source.xml Settings

Edit <% Server Manager root %>/conf/data-source.xml.

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

    <system-data-source>
        <connect-id>default</connect-id>
        <resource-ref-name>java:comp/env/<%Reference Name of Data Source%></resource-ref-name>
    </system-data-source>

    <group-data-source>
        <login-group-id>default</login-group-id>
        <resource-ref-name>java:comp/env/<%Reference Name of Data Source %></resource-ref-name>
    </group-data-source>

</data-source>
```

**(Example: in case of IWP (Resin))**

When the reference name of data source set in Chapter 3.6.2 “http.xml Settings” is “**jdbc/sample**”,

```
<resource-ref-name>java:comp/env/jdbc/sample</resource-ref-name>.
```

**(Example: in case of IWP (JBoss) )**

When the reference name of data source set in Chapter 3.4.2.3 “Datasource Settings” is “**jdbc/sample**”,

```
<resource-ref-name>java:jdbc/sample</resource-ref-name>.
```

**(Example: in case of using IBM WebSphere Application Server 6.1 in AFW)**

When the JNDI name of data source set in Chapter 3.5.1.2.4 “Datasource settings” is “**jdbc/sample**”,

```
<resource-ref-name>jdbc/sample</resource-ref-name>.
```

**(Example: in case of using BEA WebLogic Server 10 in AFW)**

When the reference name of data source set in Chapter 3.5.2.1.2 “Registering DataSource (JDBC) in WebLogic” is “**jdbc-sample**”,

```
<resource-ref-name>jdbc-sample</resource-ref-name>.
```

### 3.7 About JavaMail and JAF (Javabeans Activation Framework)

The following libraries are required in order to use API for sending mails, which is provided by intra-mart.

- JavaMail 1.2
- JAF(Javabeans Activation Framework) 1.0.1

The above libraries are also installed at the same time of installation of intra-mart. If you use intra-mart, it means you admit the above libraries' license. If you do not agree all of these clauses, delete all the JAR files.

The latest module can be downloaded from the URL below. (As of 31/07/2007)

JavaMail	<a href="http://java.sun.com/products/javamail/index.jsp">http://java.sun.com/products/javamail/index.jsp</a>
JAF	<a href="http://java.sun.com/products/javabeans/jaf/downloads/index.html">http://java.sun.com/products/javabeans/jaf/downloads/index.html</a>

Copy the extracted library to the directory below. If you implement round robin processing, copy them to Service Platform in which all the Application Runtime is installed.

<% Application Runtime root %>/doc/imart/WEB-INF/lib/

- activation.jar
- imap.jar
- mail.jar
- mailapi.jar
- pop3.jar
- smtp.jar



## 4 Startup and Shutdown

### 4.1 About the Order of Startup and Shutdown

#### 4.1.1 In case of intra-mart WebPlatform (Resin)

There will be some differences in the startup and shutdown order. Although the server should operate properly even if the appropriate order is not followed, there is a possibility that a network error may occur when Application Server (on which Application Runtime is running) starts up (The network error will be recorded in the error log).

■ **Startup Order for Servers (Recommended)**

- (1) Server Manager
- (2) Service Platform

■ **Shutdown Order for Servers (Recommended)**

- (1) Service Platform
- (2) Server Manager

#### 4.1.2 In case of intra-mart WebPlatform (JBoss)

There will be some differences in the startup and shutdown order, depending on the server structure (i.e. either standalone or distributed network system, etc.).

Although the server should operate properly even if the appropriate order is not followed, there is a possibility that a network error may occur when JBoss starts up (The network error will be recorded in the error log).

■ **In case of Standalone System**

**Startup Order for Servers (Recommended)**

- (1) Server Manager
- (2) JBoss(all the Service Platform)

**Shutdown Order for Servers (Recommended)**

- (1) JBoss(all the Service Platform)
- (2) Server Manager

■ **In case of Distributed Network System**

**Startup Order for Servers (Recommended)**

- (1) Server Manager
- (2) Service Platform
- (3) JBoss(Application Runtime)

**Shutdown Order for Servers (Recommended)**

- (1) JBoss(Application Runtime)
- (2) Service Platform
- (3) Server Manager

### 4.1.3 In case of intra-mart AppFramework

There will be some differences in the startup and shutdown order, depending on the server structure (i.e. either standalone or distributed network system, etc.).

Although the server should operate properly even if the appropriate order is not followed, there is a possibility that a network error may occur when Application Server (on which Application Runtime is running) starts up (The network error will be recorded in the error log).

#### ■ In case of Standalone System

##### Startup Order for Servers (Recommended)

- (1) Server Manager
- (2) Application Server(all the Service Platform)

##### Shutdown Order for Servers (Recommended)

- (1) Application Server(all the Service Platform)
- (2) Server Manager

#### ■ In case of Distributed Network System

##### Startup Order for Servers (Recommended)

- (1) Server Manager
- (2) Service Platform
- (3) Application Server (Application Runtime)

##### Shutdown Order for Servers (Recommended)

- (1) Application Server (Application Runtime)
- (2) Service Platform
- (3) Server Manager

## 4.2 How to Startup and Shutdown of Server Manager / Service Platform

### 4.2.1 Windows Environment

#### 4.2.1.1 Starting up from Start Menu

When installation is done on Windows, the menu to start Server will be added in the command prompt.

- **In case of IWP (Resin)**  
 [Start Menu] - [Program] - [intra-mart WebPlatform Ver6.1]  
     intra-mart Server Manager  
     intra-mart Service Platform
- **In case of IWP (JBoss)**  
 [Start Menu] - [Program] - [intra-mart WebPlatform Ver6.1]  
     intra-mart Server Manager  
     intra-mart Service Platform (Only with distributed system)
- **In case of AFW**  
 [Start Menu] - [Program] - [intra-mart AppFramework Ver6.1]  
     intra-mart Server Manager  
     intra-mart Service Platform (Only with distributed system)

The following batch file is the actual start menu.

```
Server Manager      : %path installed with server%\¥bin¥manager.bat
Service Platform   : %path installed with server%\¥bin¥server.bat
```

Though there is no need to edit each .bat file with this product, please edit .bat file of each server when start-up command of each server needs to be changed.

Startup of Server Manager is completed when [Server-Manager started offer of service] is displayed on the command prompt.

Startup of Service Platform is completed when [Service-Platform started offer of service] is displayed on the command prompt.

To stop, press [Ctrl+C] key at the command prompt.

#### 4.2.1.2 When Running as Windows Service

It is possible to register each server (Server Manager and Service Platform) as a Windows service program.

##### 4.2.1.2.1 Notes

- In case of operation as Window's service, the server may stop by log-out after starting the service. In order to prevent this, configure each server as follows.

Add `-Xrs` option to `"intra-mart/platform/java/server/command/option"` in the `<%im_path%/conf/imart.xml`.

First, start up each server using command prompt immediately after installation, then check if it operates properly. And then register the service (Please refer to "4.2.1.2.3 Converting Server into Service" for details).

- It is recommended to run using command prompt during program development.  
(It will be useful to solve problems, since error messages will be outputted on command prompt)

#### 4.2.1.2.2 Starting up intra-mart ServiceManager

Use **intra-mart ServiceManager** to register each server as a Windows service program.

When intra-mart is installed on Windows, the startup menu of **intra-mart ServiceManager** will be added.

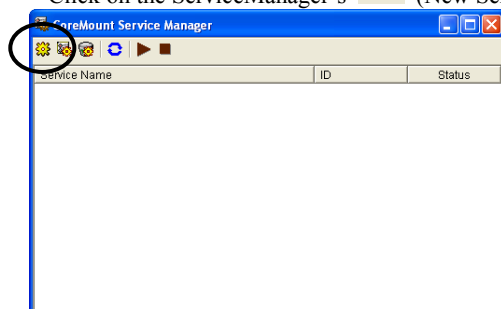
Please start up intra-mart Service Manager using the following startup menu.


- **In case of IWP**  
[Start menu ] - [program] - [intra-mart WebPlatform Ver6.1] - [Admin Tools]  
intra-mart ServiceManager
- **In case of AFW**  
[Start menu ] - [Program] - [intra-mart AppFramework Ver6.1] - [Admin Tools]  
intra-mart ServiceManager

### 4.2.1.2.3 Converting Server into Service

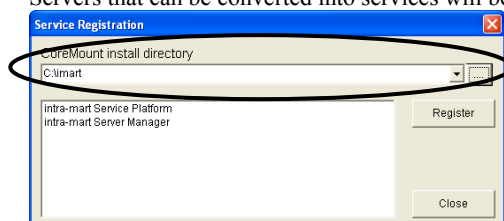
After starting up intra-mart ServiceManager, please convert the server into a service in the following manner.

- (1) Click on the ServiceManager's  (New Service Registration) button.

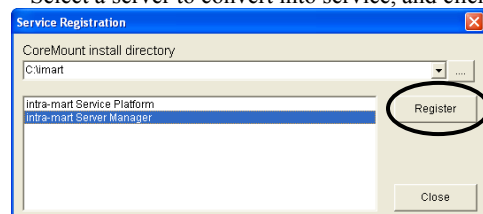


- (2) Enter the path where the server is installed into [intra-mart Install Directory].  
(Click on the  button to select from the directory.)

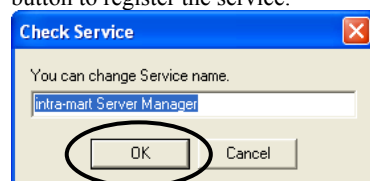
Servers that can be converted into services will be displayed.



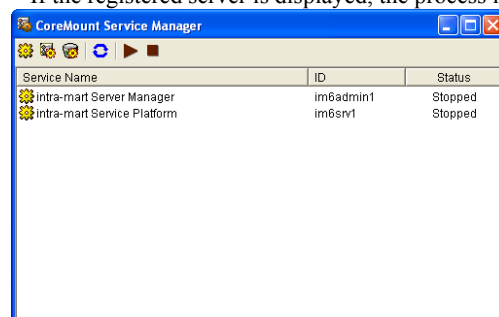
- (3) Select a server to convert into service, and click on the [Register] button.



- (4) "Check Service" page will be displayed. Please change the service name if required. Click on the [OK] button to register the service.



- (5) If the registered server is displayed, the process is completed.



#### 4.2.1.2.4 Setting file of Service Activation

Setting files to make intra-mart operate as a service of Windows are prepared as follows.

- ServerManager's Setting file of Service Activation
  - <%im\_path%>/bin/MgrService.ini
- ServicePlatform's Setting file of Service Activation
  - <%im\_path%>/bin/SrvService.ini

Setting items of setting file of Service Activation are as follows.

Setting items	Explanation
<b>jdk_home</b>	Home directory of JDK
<b>class</b>	Start up class
<b>options</b>	Java activation option
<b>log</b>	Log output option

##### 4.2.1.2.4.1.1 About setting item "jdk\_home"

Operation about "**jdk\_home**" is as follows.

- In case of configuring **jdk\_home** in setting file of Service Activation  
By using <%Setting directory of **jdk\_home**%>/bin/java.exe, Windows service is started up.
- If the setting of **jdk\_home** in setting file of service activation is omitted, OS environment variable "**JAVA\_HOME**" is regarded as home directory of JDK.
- If OS environment variable "**JAVA\_HOME**" is not configured, current JDK home directory is obtained from the registry.

##### 4.2.1.2.4.1.2 Log output option

When intra-mart is started up in Windows service, the log is output as follows.

##### 4.2.1.2.4.1.2.1 ServerManager Log file

Log file	Explanation
<%im_path%>/log/MgrService/environment.log	Environmental log when starting service
<%im_path%>/log/MgrService/stderr.log	Log of standard error when starting up
<%im_path%>/log/MgrService/stdout.log	Log of standard output when starting up(*1)

##### 4.2.1.2.4.1.2.2 ServicePlatform Log file

Log file	Explanation
<%im_path%>/log/SrvService/environment.log	Environmental log when starting service
<%im_path%>/log/SrvService/stderr.log	Log of standard error when starting up
<%im_path%>/log/SrvService/stdout.log	Log of standard output when starting up(*1)

(\*1) stdout.log is output only when configuring a setting item, "**log**", of setting file of service activation as "**true**".

## 4.2.2 UNIX OS Environment

### 4.2.2.1 When Operating on Shell

#### 4.2.2.1.1 Startup / Termination of Server Manager

Start up shell.

Go to <%im\_path%/bin and execute the following command.

***manager.sh*** 

If a message [Server-Manager started offer of service] is displayed on the command prompt, start-up is completed.

\* The message will be displayed only when system log output is enabled (enabled by default).

**(Notes) The start command file (manager.sh) available at the time of installation is a sample.  
It must be changed according to the environment.**

Press [Ctrl+C] key on shell to terminate.

#### 4.2.2.1.2 Startup / Termination of Service Platform

Start up shell.

Go to <%im\_path%/bin and execute the following command.

***server.sh*** 

If a message [Service-Platform started offer of service] is displayed on the command prompt, start-up is completed.

\* The message will be displayed only when system log output is enabled (enabled by default).

**(Notes) The start command file (server.sh) available at the time of installation is a sample.  
It must be changed according to the environment.**

Press [Ctrl+C] key on shell to terminate.

#### 4.2.2.2 In case of Background Execution

It is possible for each server (Server Manager, Service Platform) to execute in the background.

##### 4.2.2.2.1 Notes

- First, start up each server using shell immediately after installation. After checking that it operates properly, implement the following background execution.  
(Please refer to “4.2.2.2.2 Background Execution of Server Manager” and “4.2.2.2.3 Background Execution of Service Platform” for details)
- It is recommended to run it using shell during the program development.  
(It will be useful in solving problems, since error messages will be output on shell)
- Every shell file example will have an **example of start command** for background execution written in **comment (#)**. For background execution, please use it by changing with reference to the **comments (#)**.

##### 4.2.2.2.2 Background Execution of Server Manager

<%im\_path%/bin directory contains the following files.

**manager.sh** (shell file sample)

\* Since manager.sh is a sample of background execution,

Please make use of it by changing its file name and content according to the system environment.

##### ■ How to Start Up (Example)

Start : **manager.sh start**

Stop : **manager.sh stop**

##### 4.2.2.2.3 Background Execution of Service Platform

<%im\_path%/bin directory contains the following files.

**server.sh** (shell file sample)

\* server.sh is a sample of background execution,

Please make use of it by changing its file name and content according to the system environment.

##### ■ How to Start Up (Example)

Start : **server.sh start**

Stop : **server.sh stop**



## 4.3 How to Start up and Shutdown of JBoss

JBoss needs to be started up only when using intra-mart WebPlatform (JBoss).

When you start up JBoss, both Server Manager and ServicePlatform (only in case of distributed system) also need to be started up

In this chapter, a directory in which JBoss is installed is expressed as `<%JBoss_path%>`.

To start JBoss, go to `<%JBoss_path%>/bin` and execute following command.

```
run -c imart 
```

[Example]

Windows	:	run -c imart
UNIX	:	run.sh -c imart

To stop JBoss, go to `<%JBoss_path%>/bin` and execute following command.

```
shutdown -S 
```

[Example]

Windows	:	shutdown -S
UNIX	:	shutdown.sh -S

## 4.4 How to Startup and Shutdown of Application Server

If you use AFW, Application Server needs to be started up.

(Application Server means WebSphere and WebLogic.)

Application Runtime can be started up on Application Server. When starting Application Runtime, both Server Manager and ServicePlatform (only in case of distributed system) also need to be started up.

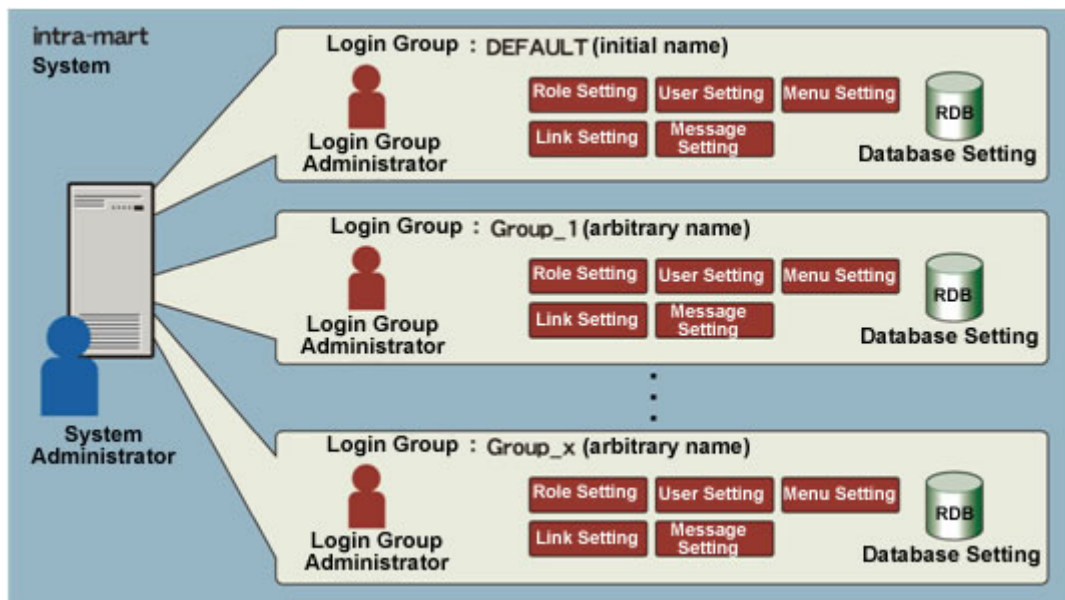
Please refer to the manual of each Application Server on how to start up and shut down them.

### 4.4.1 How to Setup Headless Mode

Since some OS without X11 such as UNIX do not support graphics, you can not use normal graph module in this case. However, if Java VM supporting headless mode is used, it is possible to display graph module or work flow even in non-graphic environment by setting Java environment variable “`java.awt.headless`” as true.

## 5 Login to intra-mart

In intra-mart Ver6.1, each user group who share the system is called “Login Group”, and its administrator is called “Login Group Administrator”. And “System Administrator” is in charge of overall control of these “Login Group” and “Login Group Administrator”.



In this chapter, the steps to login intra-mart as Login Group Administrator are explained.

- (1) Login as System Administrator  
(Please refer to Chapter 5.1 “Login as System Administrator” for details.)
- (2) Create Login Group  
(Please refer to Chapter 5.2 “Creating Login Group” for details.)
- (3) Import Initial Data  
(Please refer to Chapter 5.3 “Importing Initial Data” for details.)
- (4) Login as Login Group Administrator  
(Please refer to Chapter 5.4 “Login as Login Group Administrator” for details.)

- Please refer to the following guides enclosed in this product for further understanding on intra-mart.
  - Tutorial guide
  - Administrator Guide
  - Programming Guide

## 5.1 Login as System Administrator

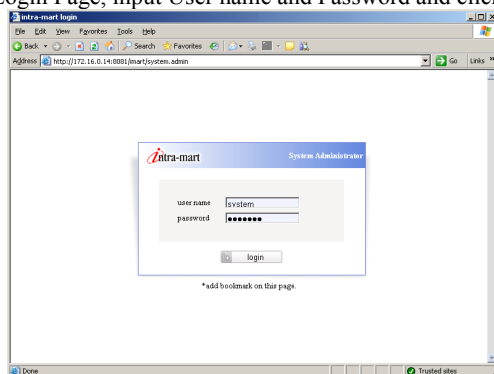
The following steps are for System Administrator to login to intra-mart.

- (1) Issue URL as below from the browser.

**http:// Host Name: Port Number / Alias Name / system.admin**

(e.g.) http://hostname:8080/imart/system.admin

- (2) On Login Page, input User name and Password and click on [Login] button.



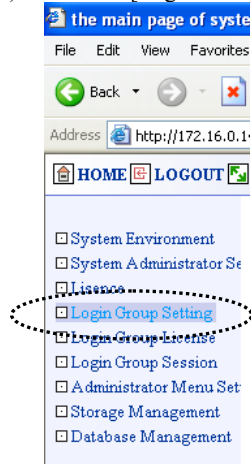
Right after the installation, User name and Password of System Administrator are set as follows.

User name	system
Password	manager

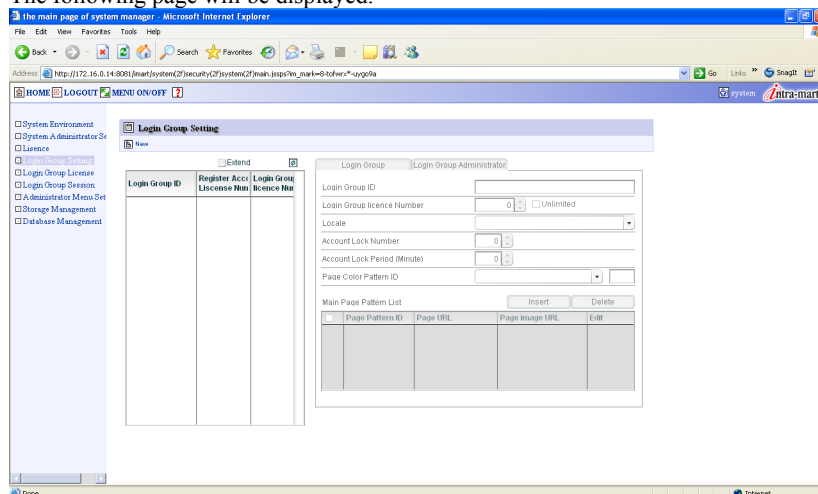
After Login, the following page will be displayed.

## 5.2 Creating Login Group

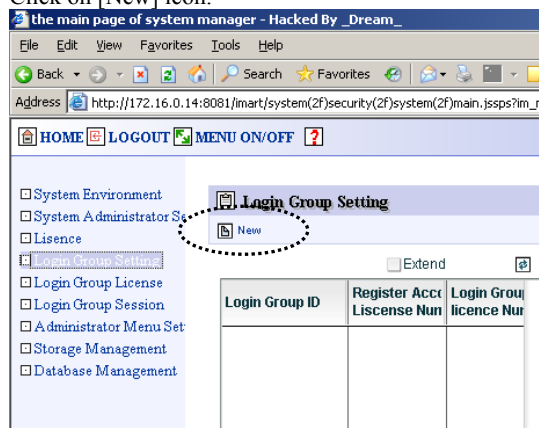
- (1) Select [Login Group Setting] Menu.



The following page will be displayed.



- (2) Click on [New] icon.



- (3) Input “Login Group ID”.

This is same as the setting of “data-source/group-data-source/login-group-id” in <% Server Manager root %>/conf/data-source.xml.

Input “default” here.

Login Group Administrator

Login Group ID(\*) default

Login Group licence Number 0 ☐ Unlimited

Locale

Account Lock Number 0

Account Lock Period (Minute) 0

Page Color Pattern ID

Main Page Pattern List Insert

- (4) Input “Login Group License Number”.

Login Group Administrator

Login Group ID(\*) default

Login Group licence Number 5 ☐ Unlimited

Locale

Account Lock Number 0

Account Lock Period (Minute) 0

Page Color Pattern ID

Main Page Pattern List Insert

- (5) Click on [Login Group Administrator] Tab.

Login Group Administrator

Login Group ID(\*) default

Login Group licence Number 0 ☐ Unlimited

Locale

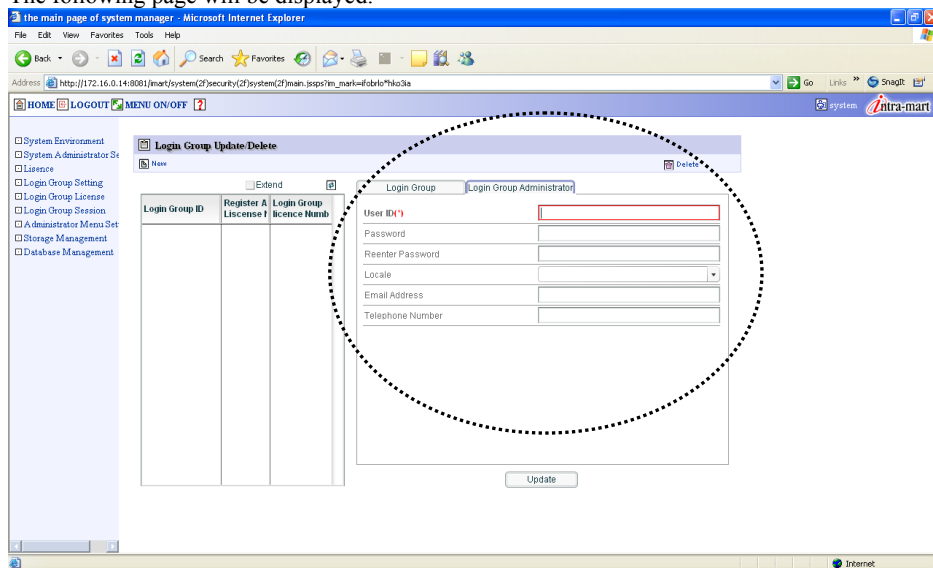
Account Lock Number 0

Account Lock Period (Minute) 0

Page Color Pattern ID

Main Page Pattern List Insert

The following page will be displayed.



- (6) Input "User ID", "Password", and "Reenter Password".

Here, input "groupmaster" as User ID and Password.

- (7) Click on [Register] button.

- (8) Click on [OK] button.

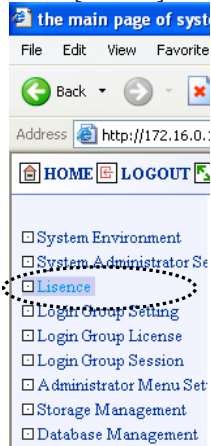
The screenshot shows the 'New Login Group' dialog box. It has a 'Login Group' tab and a 'Login Group Administrator' tab. The 'Login Group' tab is active, showing fields for 'User ID(\*)', 'Password', and 'Reenter Password'. The 'User ID' field contains 'groupmaster'. A confirmation dialog box is overlaid on top, asking 'Are you sure do you want to register?' with 'OK' and 'Cancel' buttons. The 'OK' button is circled with a dashed line.

Registration of Login Group is completed when the following page is displayed.

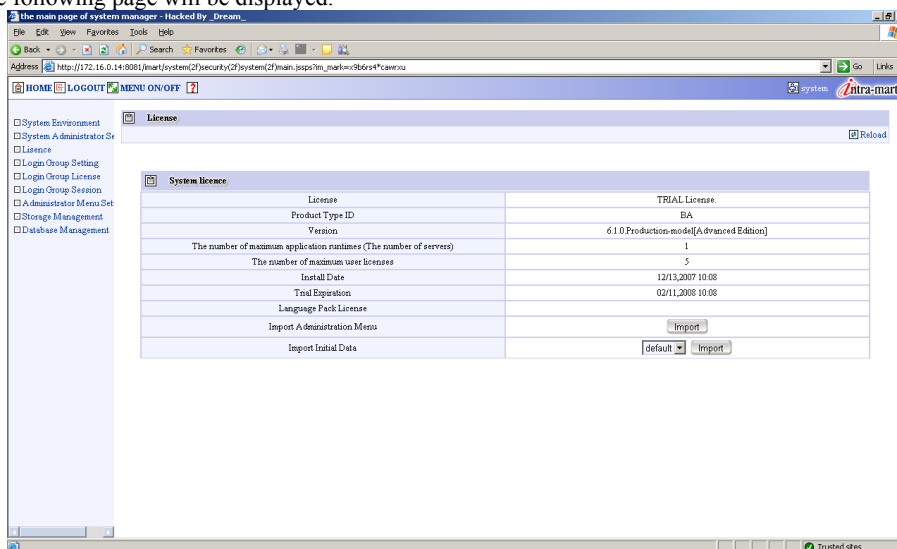
The screenshot shows the 'New Login Group' dialog box. It has a 'Login Group' tab and a 'Login Group Administrator' tab. The 'Login Group' tab is active, showing fields for 'Login Group ID', 'Login Group licence Number', and 'Locale'. The 'Login Group ID' field contains 'default'. The 'Login Group licence Number' field contains '5'. A confirmation dialog box is overlaid on top, displaying 'Registered successfully.' with an 'OK' button.

## 5.3 Importing Initial Data

- (1) Select [License] menu.



The following page will be displayed.



- (2) In the combo box of [Import Initial Data] column, select the Login Group to be imported.  
Here, select "default".

Install Date	12/13,2007 10:08
Trial Expiration	02/11,2008 10:08
Language Pack License	
Import Administration Menu	Import
Import Initial Data	default Import



(3) Click on [Import] button.

Install Date	12/13,2007 10:08
Trial Expiration	02/11,2008 10:08
Language Pack License	
Import Administration Menu	
Import Initial Data	<div> <input type="button" value="Import"/> </div> <div> <input type="button" value="default"/> <input type="button" value="Import"/> </div>

Importing of initial data is completed when the following page is displayed.

System licence/Initial data importResult	
<a href="#">Back to License Screen</a>	
Item	Result
Create Table (Database)	Create table successfully. system/basic/appCreateTable.sql system/basic/logCreateTable.sql system/basic/bpwCreateTable.sql system/basic/itemCreateTable.sql system/basic/portalCreateTable.sql system/basic/vcCreateTable.sql system/basic/tmCreateTable.sql
Role	Data imported completely. system/basic/init-role.xml system/basic/init-role_en.xml system/basic/init-role-bpw.xml system/basic/init-role-bpw_en.xml
Account	Data imported completely. system/basic/init-account.xml system/basic/init-account_en.xml
Menu	Data imported completely. system/basic/init-menu.xml system/basic/init-menu_en.xml system/basic/init-menu-item.xml system/basic/init-menu-item_en.xml system/basic/init-menu-portal.xml system/basic/init-menu-portal_en.xml system/basic/init-menu-bpw.xml system/basic/init-menu-bpw_en.xml
Calendar	Data imported completely. system/basic/init-calendar.xml system/basic/init-calendar_en.xml
Batch	Data imported completely. system/basic/init-batch-bpw.xml system/basic/init-batch-bpw_en.xml system/basic/init-batch-master.xml system/basic/init-batch-master_en.xml
Access Controller	Data imported completely. system/basic/init-access-controller.xml system/basic/init-access-controller_en.xml
Create Record (Database)	Data imported completely. system/basic/appInsert.sql system/basic/appInsert_en.sql system/basic/bpwInsert.sql system/basic/portalInsert.sql system/basic/itemInsert.sql system/basic/itemInsert_en.sql
Extended Import (Program)	Data imported completely. bpw/init.js system/init/distribute_batch_config.js system/init/import_vc_data4log.js

## 5.4 Login as Login Group Administrator

The following steps are for Login Group Administrator to login to intra-mart.

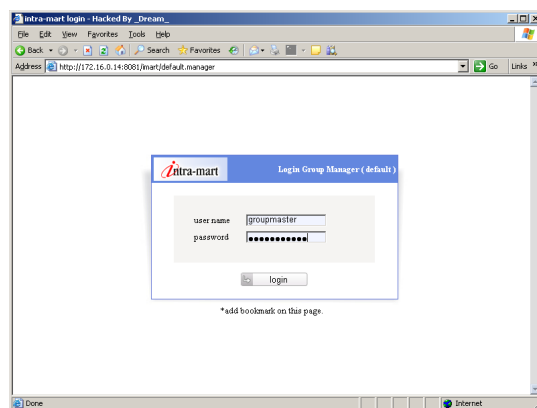
- (1) Issue URL as below from the Browser.

**http:// Host Name: Port Number / Alias Name / Login group ID.manager**

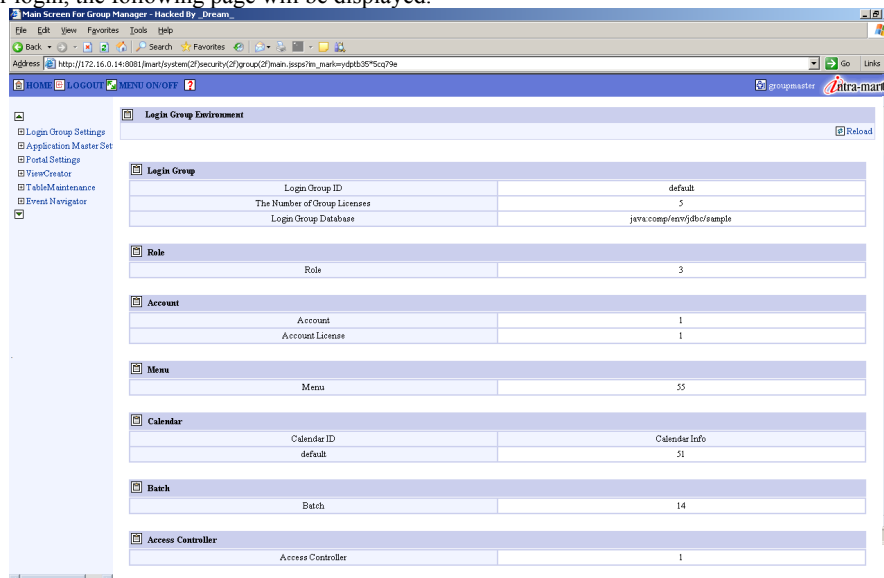
(e.g.) http://hostname:8080/imart/default.manager

- (2) On the Login Page, input the User name and Password then click on [Login] button.

Here, input the User name and Password of Login Group Administrator as set in “5.2. Creating Login Group (6)”.



After login, the following page will be displayed.



■ **Creating User Program**

◆ **In case of Script Development Model**

Create “.html” file and “.js” file under <%im\_path%>/pages/src (in which Resource Service is installed) and then register ([Login Group Administration] - [Menu] - [Menu Setting] of Login Group Administrator.) at the Menu Setting Page.

◆ **In case of JavaEE Development Model**

Create JSP file under <%im\_path%>/doc/imart.

Create servlet and other Java classes under <%im\_path%>/doc/imart/WEB-INF/classes and “.jar” file under <%im\_path%>/doc/imart/WEB-INF/lib.

These files placed under “.../classes” or “.../lib” will be automatically added to the class path.

\* Please refer to the separate volume, “Programming Guide (Script Development Model)” and “Programming Guide (JavaEE Development Model)” for more details.

## 6 Using the Management Tool “intra-mart Administrator”

Intra-mart Administrator can manage remotely from any computer even if that computer is not running the Server Module.

\* Please refer to the separate volume, “Administrator Guide” for details.

### 6.1 Start Up intra-mart Administrator

#### 6.1.1 Windows Environment

Execute on the computer in which intra-mart Administrator is installed.

When installation is done on Windows, the Start Menu is added in the command prompt.

■ In case of IWP

Intra-mart Administrator of [Start menu] - [Program] - [intra-mart WebPlatform Ver6.1] - [Admin Tools]

■ In case of AFW

Intra-mart Administrator of [Start menu] - [Program]- [intra-mart AppFramework Ver6.1] - [Admin Tools]

The batch file below contains the Start Menu.

**intra-mart Administrator** : <%im\_path%>/bin/admin.bat

Login Page is displayed upon startup.

Server Host	Specify address of computer where Server Manager is installed.
Server Port	Port Number of Server Manager (Default: 49152)
Password	intramart (Initial Setting)

With the above, login can be completed.

Please change password (optional) from the Menu after login.

## 6.1.2 UNIX OS Environment

It can be used only on machines where Xwindow is loaded.

Execute on the computer where intra-mart Administrator is installed.

Start another Shell.

Go to <%im\_path%/bin and execute the following command.

***admin.sh*** 

Login Page will be displayed upon startup.

Server Host	Specify address of computer where Server Manager is installed.
Server Port	Port Number of Server Manager (Default: 49152)
Password	intramart (Initial Setting)

With the above, login can be completed.

Please change password (optional) from the Menu after login.

## 7 Sample Data Input

Inputting sample data into intra-mart would help further understanding the whole image of using intra-mart.

### 7.1 Notes

In order to input sample data, “Install Sample” needs to be selected upon installation.

Sample data must be input into where is no data.

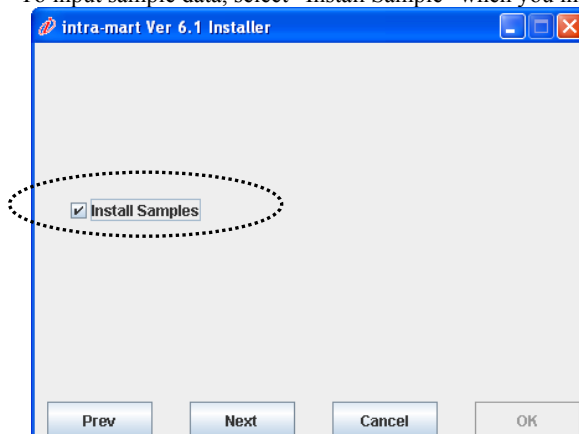
(Directly after installing this product or after creating login group)

If inputting sample data after the operation, data might be broken.

If you would like to input sample data after the operation, create a new login group for sample or install this product in different environment and input sample data there.

### 7.2 Setting for Installation

To input sample data, select “Install Sample” when you install intra-mart.

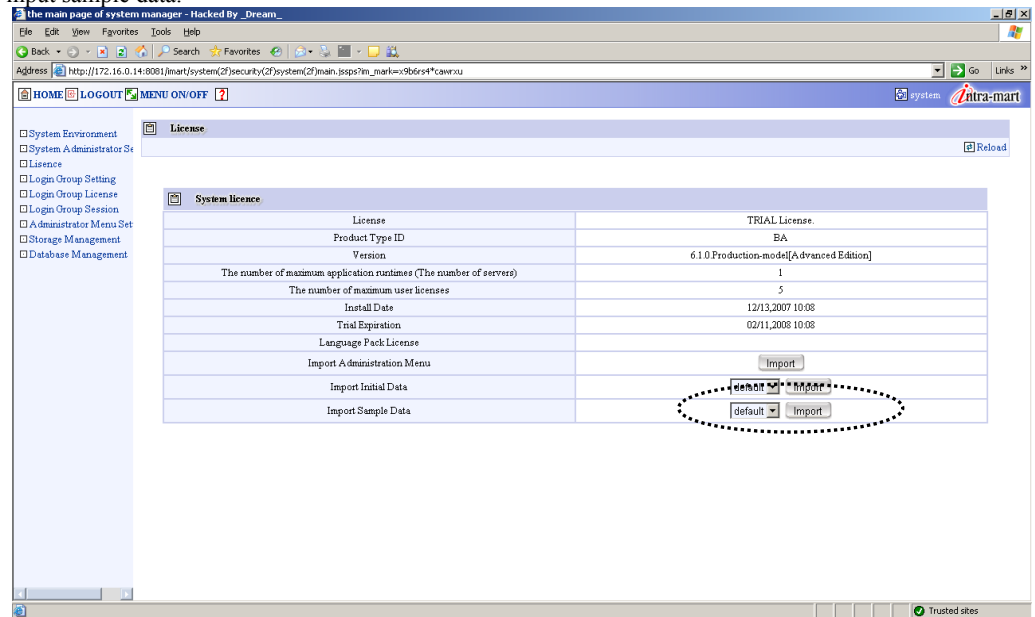


## 7.3 Importing Sample Data

\* Sample data is installed only if you need it.

Demo data such as Login User, Role, Organization and Workflow are included in the sample.

- (1) Login to intra-mart as System Administrator
- (2) From the Menu, go to [License] page, select Login Group to be imported and click on [Import] button to input sample data.



- (3) From now on, Sample Application can be operated.

\* Please refer to Chapter 3 of “Programming Guide Script Development Model” as well as Chapter 3 of “Programming Guide JavaEE Development Model” for details on Sample application. (Both of them are separated volumes).

## 8 Data migration from Ver6.0 to Ver6.1

Basic configuration of intra-mart ver6.1(**IMv6.1**) is so different from other inter-mart products (ver1.x,ver2.x,ver3.x,ver4.x,ver5.x,ver6.0a and intra-mart application which runs on each intra-mart) that it is impossible to maintain each IMv6.1 and other.

Customers who use intra-mart ver6.0 (**IMv6.0**) can migrate the system information to **IMv6.1** by this chapter's data migration procedures.

**(Important)** Before you migrate data, confirm whether the latest patch file of IMv6.0 is installed.

If not, it is impossible to make data migration properly.

In this chapter, data migration of system data, portal data, ViewCreator data and workflow data from **IMv6.0** to **IMv6.1** is explained.

(Programs and data which you create should be individually migrated.)

### 8.1 Notes for Data Migration

In order to install **IMv6.1**, be sure to obey the following conditions.

If you can not satisfy all the conditions, the operation causes errors, and re-install is needed.

It is possible that inconsistency or lost will be occur in data in the database.

Pay attention to this point.

- (1) Before the migration, back up the database data and confirm that you can restore the system if some disorders happen.
- (2) If you use the same machine, install with paying attention to the following point.
  - **Do not install IMv6.1 in the directory which is used by other intra-mart product.**  
→ Install it in a new directory.
- (3) **IMv6.1** must be in the situation only that its license is registered.
  - **Be sure to make initial startup according to the migration steps.**  
**If you start a server after the installation, you can not migrate data properly.**  
→ In this case, you have to re-install.
- (4) License registration of IMv6.1 should be as strict as IMv6.0 or not as strict as IMv6.0.  
Please refer to “3.2.4 About License Registration” about the way to register the license.
- (5) If you migrate workflow data, all the processes should be terminated. (If data under application is migrated, data inconsistency would happen)



(6) If you use character code “**UNICODE**” as Microsoft SQL Server, change column type [**VARCHAR**] of following SQL file to [**NVARCHAR**].

- <% Storage Service root %>/system/basic/logCreateTable.sql
- <% Storage Service root %>/system/basic/tmCreateTable.sql
- <% Storage Service root %>/migration/v60\_to\_v61\_migration\_system.sql
- <% Storage Service root %>/migration/v60\_to\_v61\_migration\_bpw.sql
- <% Storage Service root %>/migration/v60\_to\_v61\_migration\_view\_creator.sql

## 8.2 Outline of Migration Procedure

Data migration procedures are as follows.

- (1) Back up database data
- (2) Export account data from **IMv6.0**
- (3) Install **IMv6.1**
- (4) License registration of **IMv6.1**
- (5) Migration of setting files(1)
  - i) Copy data migration module
  - ii) Copy data migration file
  - iii) Migrate StorageService contents related to portal.
- (6) Configure database connection
- (7) Start up **IMv6.1**
- (8) Create login group
- (9) Migration of setting files (2)
  - i) Migrate StorageService contents related to workflow
- (10) Import initial data via data migration module
- (11) Import account data

## 8.3 Backup of DB data

Before the migration, back up the database data and confirm that you can restore the system if some disorders happen. About the backup of database data, please follow the backup procedures of each database products (Refer the manuals attached to your database).

## 8.4 Exporting Account Data from IMv6.0

(Note) This procedure is taken for each registered login group.

- (1) Log in **IMv6.0** as Login Group Administrator.
- (2) Select in the menu [Login group administration] - [Access Security Information Input and Output] - [Export].
- (3) Check [Account] in the right frame, specify the file name to be output in [File] and click on [Export] button.
- (4) Check if data is output to specified file.

\* If there are several login groups, please pay attention to that each login name of output file does not overlap.

\* You do not have to export role, menu, calendar and batch information.

\* Please refer to following file about the data format.

`<% IMv6.0 ServerManager Root Directory %>/specification/dtd/account_6_0.dtd`

## 8.5 IMv6.1 Installation

Install **IMv6.1** according to install guide.

(At this point, do not start intra-mart.)

## 8.6 IMv6.1 License Registration

Resister the license of **IMv6.1**.

License registration of **IMv6.1** needs to be as strict as IMv6.0 or not as strict as **IMv6.0**.

Please refer to “**3.2.4 About License Registration**” about the way to register the license.

## 8.7 Migration of Configuration Files (1)

### 8.7.1 Copying Data Migration Module

Copy “iwp\_afw/migration/v60\_to\_v61/licenses/im\_migration\_v60\_to\_v61.iar” included in CD-ROM of this product to <% IMv6.1 ServerManager Root Directory %>/licenses Directory.

### 8.7.2 Copying Data Migration Files

“iwp\_afw/migration/v60\_to\_v61/storage/migration/”Directory of CD-ROM of this product includes data migration file (.xml and .sql file).

Copy these files to <% IMv6.1 StorageServiceRoot Directory %>/storage/migration/ Directory.

- (6) If you use character code “UNICODE” as Microsoft SQL Server, change column type [VARCHAR] of copied SQL files to [NVARCHAR].

### 8.7.3 Migration of StorageService Contents Regarding to Portal

Copy “<% IMv6.0 StorageService Root Directory %>/portal/portals/” Directory to IMv6.1 without changing directory structure.

## 8.8 Database Connection Settings

Set up database of **IMv6.1**. (Set up as operating **IMv6.0**)

Please refer to “3.6 Database Connection Settings” about database connection settings.

## 8.9 Startup IMv6.1

Start up **IMv6.1**.

Please refer to “4 Startup and Shutdown” about the startup of **IMv6.1**.

## 8.10 Creating Login Group

Create a login group about **IMv6.1** Create a login group same as the ones when operating **IMv6.0**.

Please refer to “5.2 Creating Login Group” about the creation of login group.

## 8.11 Migration of Configuration File (2)

### 8.11.1 Migration of StorageService contents regarding to workflow

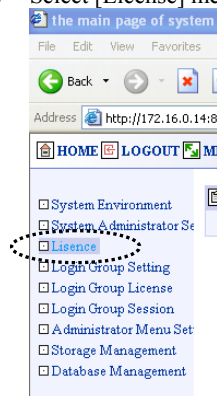
Copy following directories into IMv6.1 without changing directory structure.

- “<% IMv6.0 StorageServiceRoot Directory %>/bpw/attach/”Directory
- “<% IMv6.0 StorageServiceRoot Directory %>/bpw/code\_manager/”Directory

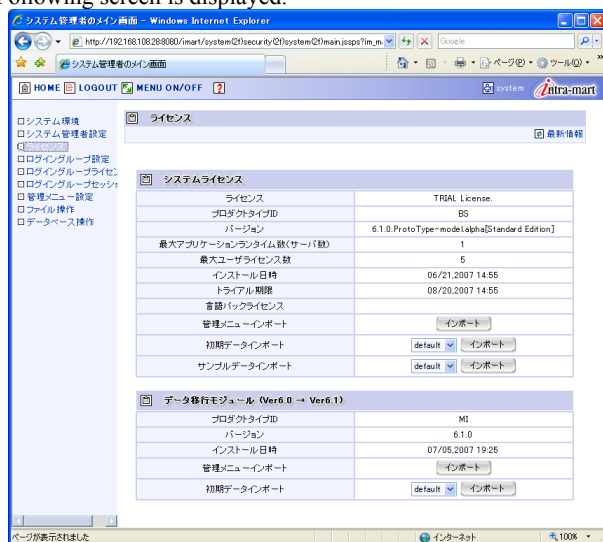
## 8.12 Importing initialization data by data migration module

(1) Log in as System Administrator

(2) Select [License] menu.



Following screen is displayed.



- (3) Select login group to be imported in the combo box of [Initial Data Import] in “Data Migration Module (Ver6.0 → Ver6.1)” and select “default”.

データ移行モジュール (Ver6.0 → Ver6.1)	
プロダクトタイプID	MI
バージョン	6.1.0
インストール日時	07/05,2007 19:25
管理メニューインポート	<input type="button" value="インポート"/>
初期データインポート	default <input type="button" value="インポート"/>

- (4) Click on [Import] button.

データ移行モジュール (Ver6.0 → Ver6.1)	
バージョン	6.1.0
インストール日時	07/05,2007 19:25
管理メニューインポート	<input type="button" value="インポート"/>
初期データインポート	default <input type="button" value="インポート"/>

If the screen below is shown, initial data import by data migration module is completed.

データ移行モジュール (Ver6.0 → Ver6.1)/初期データインポート結果	
<a href="#">ライセンス画面へ戻る</a>	
項目	結果
テーブル作成(データベース)	テーブル作成に成功しました。 system/basic/logCreateTable.sql system/basic/tmCreateTable.sql migration/v60_to_v61_maigration_system.sql migration/v60_to_v61_maigration_bpw.sql migration/v60_to_v61_maigration_view_creator.sql
ロール	インポートしませんでした。
アカウント	インポートしませんでした。
メニュー	インポートが成功しました。 migration/v60_to_v61_menu.xml migration/v60_to_v61_menu-bpw.xml
カレンダー	インポートしませんでした。
バッチ	インポートが成功しました。 system/basic/init-batch-master.xml migration/v60_to_v61_batch-bpw.xml
アクセスコントローラ	インポートが成功しました。 system/basic/init-access-controller.xml
レコード作成(データベース)	インポートしませんでした。
拡張インポート(プログラム)	インポートが成功しました。 system/init/distribute_batch_config.js

## 8.13 Importing Account Data

(Notes) This procedure is taken by each registered login group.

- (1) Log in **IMv6.1** as Login Group Administrator.
- (2) Select in the menu [Login group administration] - [Access Security Information Input and Output] - [Import].
- (3) Check [Account] in the right frame, specify the file name, which is created in “8.4 Exporting account data from IMv6.0”, as [File] and click on [Import] button.  
(Select “standard” as “category” combo box”)
- (4) Confirm whether account data is properly reflected.

(Note 1) A lot of system resources are consumed in order to import large amount of data such as account information.

It is recommended to divide the importing amount into about 5000 for one time. (It takes a few minutes or half an hour to process importing)

In case of importing 5000 users, each of Application Runtime and Permanent Data Service needs 64MB as `-Xms` (startup memory of JAVA) and 128MB as `-Xmx`.

\*Startup memory of each service (Java process) can be configured by using administration tool (intra-martAdministrator). If changing the startup memory, restart each service.

## 9 Reconstructing intra-mart environment

### 9.1 Changing JDK

Change JDK path described in following files.

#### 9.1.1 Windows Environment

Directory	File (number of lines)
<%im_path%>/bin	admin.bat(1)
	manager.bat(1)
	server.bat(2)
	srvcom.bat(1)
	zippack.bat(1)
<%im_path%>/bin/tools	licedit.bat(1)
	js2class.bat(1)
<%im_path%>/conf	imart.xml(337, 362)

#### 9.1.2 UNIX OS Environment

Directory	File (number of lines)
<%im_path%>/bin	admin.sh(16)
	manager.sh(16)
	server.sh(16)
	srvcom.sh(16)
	zippack.sh(16)
<%im_path%>/bin/tools	licedit.sh(1)
<%im_path%>/conf	imart.xml(337, 362)

## 9.1.3 Sample

### 9.1.3.1 Sample of imart.xml modification

- Before modification

```
<intra-mart>
<platform>
.
.
<java>
  <home>C:/jdk1.5.0_08</home>
  <server>
    .
    .
    <command>
      <exeFile>C:/jdk1.5.0_08/bin/java</exeFile>
      <option>-cp %SYSTEMCLASSPATH% -Xms%XMS% -Xmx%XXM% -Djava.awt.headless=true</option>
      <argument/>
    </command>
  </server>
  .
  .
</java>
.
.
```

- After modification

```
<intra-mart>
<platform>
.
.
<java>
  <home>C:/jdk1.5.0_12</home>
  <server>
    .
    .
    <command>
      <exeFile>C:/jdk1.5.0_12/bin/java</exeFile>
      <option>-cp %SYSTEMCLASSPATH% -Xms%XMS% -Xmx%XXM% -Djava.awt.headless=true</option>
      <argument/>
    </command>
  </server>
  .
  .
</java>
.
.
```



### 9.1.3.2 Sample of .bat file modification

- Before

```
"C:/jdk1.5.0_08/bin/java" -cp C:/imart/bin/imart.jar -Xms16m -Xmx128m jp.co.intra_mart.bin.server.  
ServerController %1 %2 %3 %4 %5 %6 %7 %8 %9
```

- After

```
"C:/jdk1.5.0_12/bin/java" -cp C:/imart/bin/imart.jar -Xms16m -Xmx128m jp.co.intra_mart.bin.server.  
ServerController %1 %2 %3 %4 %5 %6 %7 %8 %9
```

### 9.1.3.3 Sample of .sh file modification

- Before

```
## Please set the installation path of JDK.  
JAVA_HOME=C:/jdk1.5.0_08  
export JAVA_HOME
```

- After

```
## Please set the installation path of JDK.  
JAVA_HOME=C:/jdk1.5.0_12  
export JAVA_HOME
```

## 9.2 Changing IP Address

Change addresses described in “<%im\_path%>/conf/imart.xml” and “<%im\_path%>/conf/http.xml”.

Please refer to “Setting Guide (service)” and “Setting Guide (HTTP)” for details.

File	Line number	Tag name
imart.xml	3	intra-mart/administration/host/address
	9	intra-mart/platform/host/id intra-mart/platform/host/address
	282	intra-mart/platform/service/scheduler/connection-url
http.xml	75	resin/server/http/server-id
	96	resin/server/cluster/srun/server-id resin/server/cluster/srun/host

\* Only if you use IWP (resin), http.xml can be changed.

\* It is recommended to change “intra-mart/platform/host/id” of imart.xml, “resin/server/http/server-id” and “resin/server/cluster/srun/server-id” of http.xml although it is not indispensable.

## 9.3 Changing Port Number

Change port numbers in “<%im\_path%>/conf/imart.xml” and “<%im\_path%>/conf/http.xml”.

Please refer to “Setting Guide (service)” and “Setting Guide (HTTP)” for details.

File	Line number	Tag name
imart.xml	4	intra-mart/administration/network/port
	9	intra-mart/platform/host/id
	10	intra-mart/platform/network/port
	282	intra-mart/platform/service/scheduler/connection-url
http.xml	75	resin/server/http/server-id resin/server/http/port
	96	resin/server/cluster/srun/server-id resin/server/cluster/srun/port

\*Only if you use IWP (resin), http.xml you need to change.

\*Although it is not indispensable, it is recommended to change “intra-mart/platform/host/id” of imart.xml, “resin/server/http/server-id” and “resin/server/cluster/srun/server-id” of http.xml.

# 10 Installation of Extensions and Applications

This chapter is based on the assumption that IWP (JBoss) and AFW are used.

## 10.1 Installation of Extensions and Applications

Please install extensions and applications to a directory where IWP (JBoss) and AFW are installed.

## 10.2 Recreation and Re-registration of imart.war

In this chapter, root directory of **AppRuntime** is expressed as `<%AppRuntime_path%>`.

imart.war includes the contents of `<%AppRuntime_path%>/doc/imart`.

If extensions or applications were installed, imart.war must be recreated or re-registered.

Please follow the procedure below.

- (1) Execute **zippack.bat** (windows) or **zippack.sh** (UNIX OS) under `<% AFW installation path %>%bin`.  
All the files under `<% AFW installation path %>%doc` will be stored in imart.war.

- (2) After creating imart.war, deploy WAR file again.  
Please refer to the table below about the way to deploy WAR file.

Reference		Page
3.4	intra-mart WebPlatform (JBoss) Settings	88
3.5.1	WebSphere Settings	92
3.5.2	WebLogic Settings	112

# 11 Uninstallation

---

## 11.1 When Operating on Command Prompt

If it is still running, stop it by using [Ctrl+C] key.

- **In case of IWP (Resin)**

Delete Web Server Connector's registered information from the Web server.

Delete the installed directories <%web\_path%> and <%im\_path%>.

- **In case of IWP (JBoss)**

Delete JBoss.

Delete the installed directory <%im\_path%>.

- **In case of AFW**

Delete registered information about AppFramework of Application Server

Delete the installed directory <%im\_path%>.

## 11.2 When Operating as Service

If it is still running, stop it using intra-mart ServiceManager.

Delete each server from the service of intra-mart ServiceManage.

- **In case of IWP (Resin)**

Delete Web Server Connector's registered information from the Web server.

Delete the installed directories <%web\_path%> and <%im\_path%>.

- **In case of IWP (JBoss)**

Delete JBoss.

Delete the installed directory <%im\_path%>.

- **In case of AFW**

Delete registered information about AppFramework of Application Server

Delete the installed directory <%im\_path%>.

## 11.3 Windows Environment

Delete the intra-mart's start menu, which is registered in the Windows' start menu.

Please delete the following directories.

C:\Documents and Settings\<%User ID at the time of installation%\Start Menu\Program\intra-mart  
WebPlatform Ver6.1

\* The above-mentioned description refers to the directory when IWP is installed with default values.

\* The location of the directory will differ if 1) AFW is installed, or when the registered name of the start menu is changed at the time of IWP or AFW installation.



# 12 Appendix A intra-mart System Administration Sheet

## intra-mart System Administration Sheet

\* Draw a circle around the appropriate fields.

Web Server (IWP only)	Web Server	Apache , IIS
	Version	
	Host Name (FQDN)	
Application Server	Application Server	Resin , JBoss , WebSphere , WebLogic
	Version	
	Host Name (FQDN)	
Java VM(JDK)	Version	
Database	Class	ORACLE, MS-QLServer, IBM DB2, PostgreSQL
	Database Version	
	Network Database Name	
	Maximum Number of Connectors	
	Topology	Native (JDBC THIN Connection)
	Above-mentioned Connection Driver Version	
SMTP Server	Host Name (FQDN)	
intra-mart	System Administrator ID/Password	system / *****
	Login Group ID	
	Login Group Administrator User ID/Password	
	intra-mart Application Name	
	intra-mart Version	
WWW Server Machine Specifications	CPU Class and Number	
	Memory	
	Hard Disk	
intra-mart Server Machine Specifications (If it is the same machine with WWW server, do not need to enter)	CPU Class and Number	
	Memory	
	Hard Disk	
DB Server Machine Specifications (If it is the same machine with WWW server, do not need to enter)	CPU Class and Number	
	Memory	
	Hard Disk	
Client PC	Model (roughly)	
	Installed Browser	Netscape Navigator, Internet Explorer
	Installed Browser's Version	

- \* As for the version, please record down the detailed revision number.
- \* Please memorize the password without writing it down on this sheet. If it is written down, make sure to keep this sheet under strict control.
- \* Please describe the server structure diagram to be used.
- \* Please key in the location where WebServerConnector (IWP (Resin) only) and each intra-mart server module (such as Application Runtime) are installed.
- \* If possible, please write the IP address of each server and communication port number used by each server module.

**System Structure**



# 13 Appendix B Installation Trouble Shooting

---

Installation trouble shooting is described in “**intra-mart WebPlatform/AppFramework ver6.1 Error Guide**”.  
Please refer to it together with following notes.

## 13.1 Notes

If the operation of the screen is unstable, clear the cash of the browser make it compare the document in the server every time, and restart the browser.

In the other case, if login screen is not displayed properly after installation, installation and adequate configuration are not completed. Please make followings sure.

- Startup information is output to % [Application Runtime] path % /log/platform/system.logfile.→Is there error message related to the fundamental problems?
- Does the directory in which intra-mart is installed overlap on the directly in which other [each service] is installed?
- If it takes much time to start up [Application Runtime],  
→Please check the startup condition of server by IM-Administrator tool.
- Are [Service Manager] and [each Service] installed and started up?
- Have IP address and port number (of Listen Port) been already used by the other company's products or something?
- Are there any mistakes about IP address and port number of each settings ?

If you cannot solve the problems even with checking above all, it may be due to inadequate installation or configuration. This version is a so sensitive product that you might solve the problems with re-installation more quickly. Please pay attention to this point.

# 14 Appendix C Tips on Startup and Operation (to ensure operational stability)

---

## 14.1 After Operation Startup

- Make sure to setup the checking period of operation status after starting any operations.  
This period is required because the “access pattern”, “usage status and “operation status (environment)” can only be assessed after starting actual operations.
  - ◆ Examples of information obtained
    - Access traffic (average, peak time, etc.), CPU usage, and throughput <sup>\*1</sup>
    - Process Statistics (Which processes are executed, how often they are executed, etc.)<sup>\*2</sup>
    - JavaVM memory usage (time-series JavaVM internal memory utilization, FullGC incidence rate, etc.)<sup>\*3</sup>
- Reconfigure or restructure the environment based on the information obtained from the operation status checking period.  
Based on the obtained information, configure the environment and programs such as “OS” and “JavaVM”.
  - ◆ Example of Environment Configuration
    - Consider adding on hardware depending on CPU operating rate or throughput.
    - Consider changing the programs in order to increase the efficiency of frequently-used processes.
    - If the memory utilization rate or FullGC incidence rate (recurrence interval) is high, consider minimizing memory utilization by changing the programs, or reducing FullGC incidence rate by configuring the JavaVM parameter setting (-Xms, -Xmx, etc.)<sup>\*4</sup>. Also, consider adding more memory if the memory capacity is insufficient.

## 14.2 Operation

- Make sure to set up the checking period of operation status regularly.  
This period is required to check the “access pattern”, “usage status”, and “operation status (environment)” regularly.
  - ◆ Examples of information obtained
    - Same as above “After Operation Startup”.
- Reconfigure or restructure the environment based on the information obtained from regular operation status checking period.  
Based on the obtained information, configure the environment and programs such as “OS” and “JavaVM”.
  - ◆ Example of Environment Configuration
    - Same as above “After Operation Startup”.

## 14.3 Remarks

\*1 Access traffic data (mean, peak time, etc.) is obtained by using access log. CPU utilization rate is obtained by using top command or performance monitor. Throughput is measured by the actual accesses.

\*2 Gather process statistics data by using access log and program log.

\*3 Gather JavaVM memory usage (time-series JavaVM internal memory utilization) data by using the memory log of intra-mart Administrator. FullGV incidence rate is obtained by using memory log of intra-mart Administrator (where usable memory is drastically increasing) or by JavaVM parameter-verbose:gc, etc.

\*4 In the case of FullGC, all the processes other than GC processing will stop at regular time intervals (from a few seconds to 20 – 30 minutes at a time), reducing the incidence of FullGC to at most once a day.

In order to minimize the effect of FullGC during operation, limit the occurrence of FullGC in the nighttime. (Consider reactivating FullGC during the nighttime.)

Please refer to Sun Java web site “<http://java.sun.com>” for more details on JavaVM parameters.

## 15 Appendix D Creating Tablespace and Users in Oracle10g

Use of database is a precondition for intra-mart. To use Oracle as DBMS on intra-mart, it is necessary to assign rights to the dedicated intra-mart Users at least.

The following diagrams show how to create tablespace and users as well as to assign rights in Oracle10g.

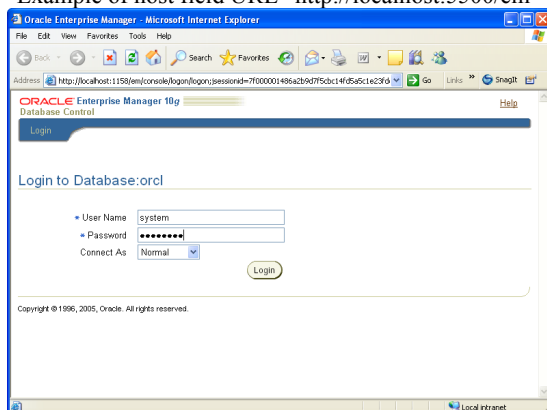
\* The following procedure is for temporary use during system trial and development. For normal office use, please set the tablespace after estimating the DB capacity of the database of other tablespaces, etc.

### 15.1 Creating Tablespace

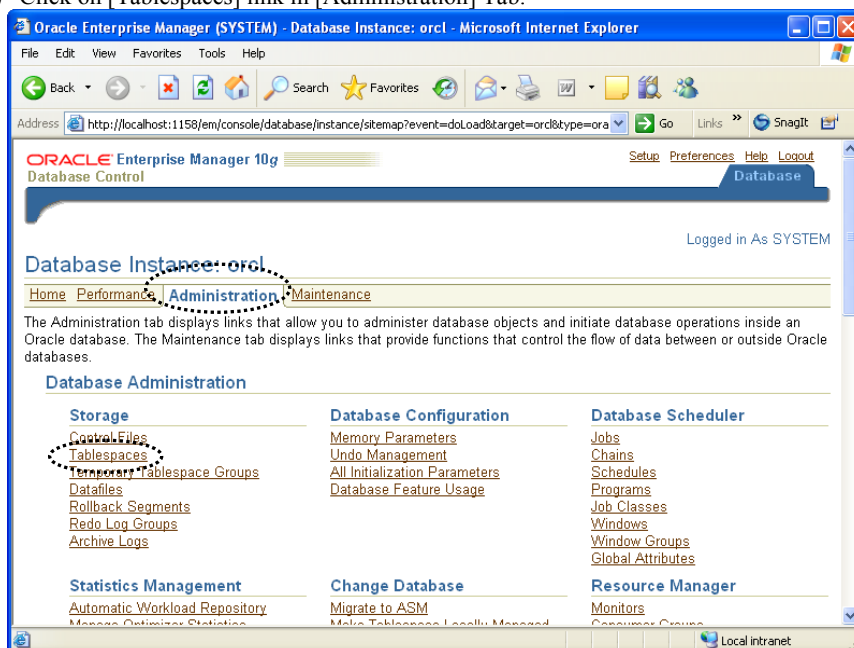
Create tablespace to store the data created by individual users.

- (1) Display Login Page of ORACLE 10g Enterprise Manager and connect to the database using Administrative Rights.

Example of host field URL “http://localhost:5500/em”



- (2) Click on [Tablespaces] link in [Administration] Tab.



(3) Click on [Create] button.

Oracle Enterprise Manager (SYSTEM) - Tablespaces - Microsoft Internet Explorer

Database Instance: orcl > Tablespaces

Logged in As SYSTEM

Object Type: Tablespace

Search

Select an object type and optionally enter an object name to filter the data that is displayed in your results set.

Object Name:

Go

By default, the search returns all uppercase matches beginning with the string you entered. To run an exact or case-sensitive match, double quote the search string. You can use the wildcard symbol (%) in a double quoted string.

Selection Mode:

Buttons: Edit View Delete Actions Add Datafile **Create**

Select	Name	Size (MB)	Used (MB)	Used (%)	Free (MB)	Status	Datafiles	Type	Extent Management	Segment Management
<input checked="" type="radio"/>	EXAMPLE	100.0	77.4	77.4	22.6	✓	1	PERMANENT	LOCAL	AUTO
<input type="radio"/>	SYSAUX	240.0	234.2	97.6	5.8	✓	1	PERMANENT	LOCAL	AUTO
<input type="radio"/>	SYSTEM	480.0	477.2	99.4	2.8	✓	1	PERMANENT	LOCAL	MANUAL
<input type="radio"/>	TEMP	20.0	0.0	0.0	20.0	✓	1	TEMPORARY	LOCAL	MANUAL
<input type="radio"/>	UNDOTBS1	30.0	0.4	1.5	29.6	✓	1	UNDO	LOCAL	MANUAL
<input type="radio"/>	USERS	5.0	3.2	63.8	1.8	✓	1	PERMANENT	LOCAL	AUTO

Total Size (MB) 875.0  
Total Used (MB) 792.4  
Total Free (MB) 82.6

Database | Setup | Preferences | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.  
About Oracle Enterprise Manager 10g Database Control

(4) Type tablespace name in [Name] and click on [Add] button.

Oracle Enterprise Manager 10g - Create Tablespace - Microsoft Internet Explorer

Database Instance: orcl > Tablespaces > Create Tablespace

Logged in As SYSTEM

Buttons: Show SQL Cancel OK

General | Storage

Name:

Extent Management

☒ Locally Managed  
☐ Dictionary Managed

Type

☒ Permanent  
☐ Set as default permanent tablespace  
☐ Temporary  
☐ Set as default temporary tablespace  
☐ Undo  
Undo Retention Guarantee ☐ Yes ☒ No

Status

☒ Read Write  
☐ Read Only  
☐ Offline

Datafiles

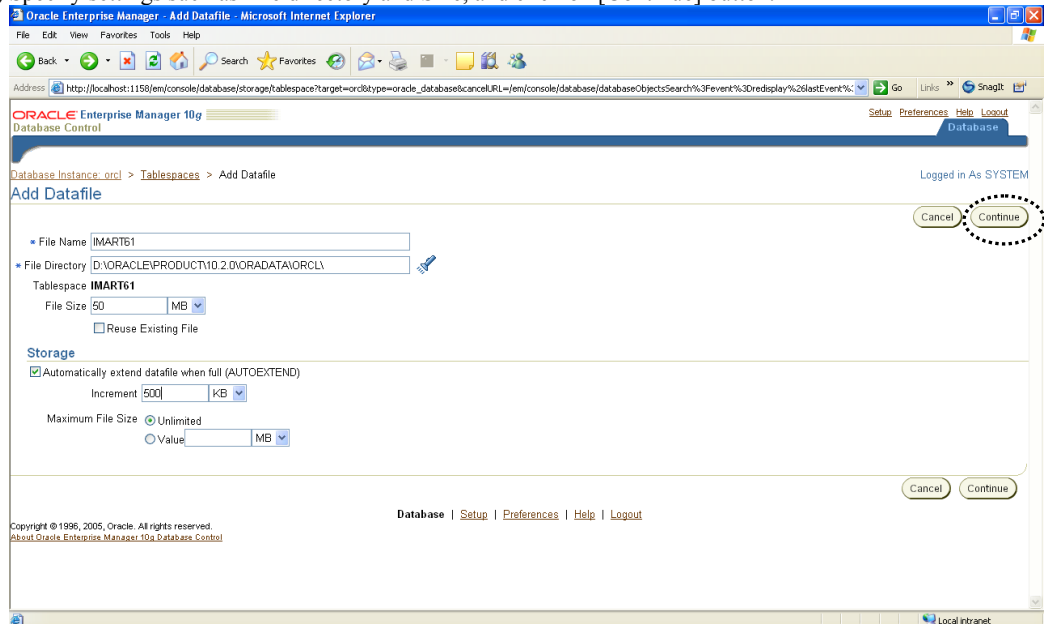
☐ Use bigfile tablespace  
Tablespace can have only one datafile with no practical size limit.

Select Name Directory

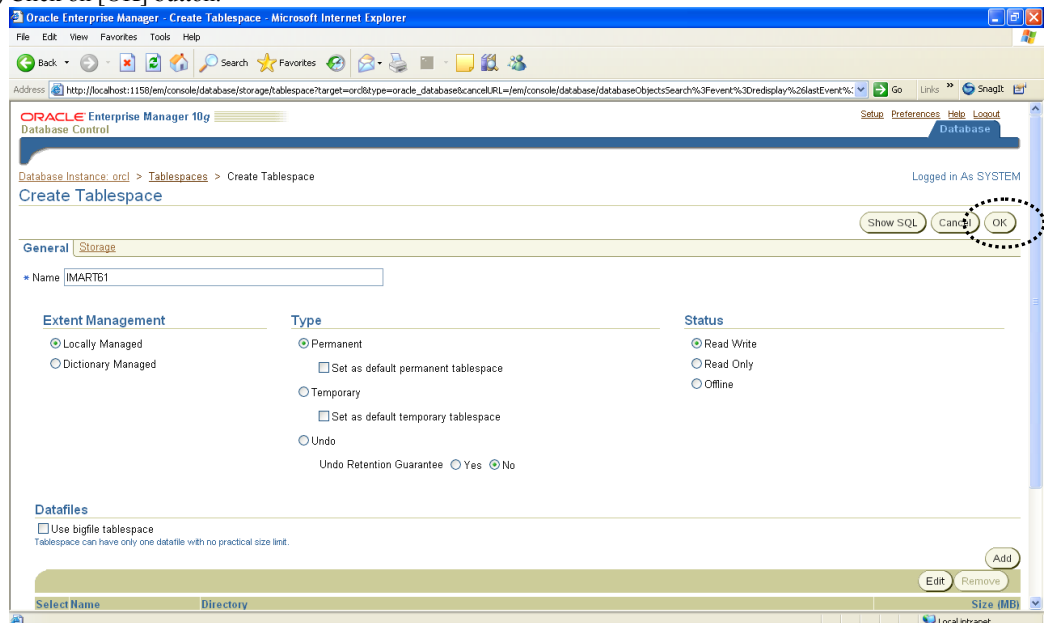
No items found

Buttons: Add

- (5) Specify settings such as File directory and Size, and click on [Continue] button.



- (6) Click on [OK] button.



It is successful if the message, “Object has been created in good order,” is displayed.

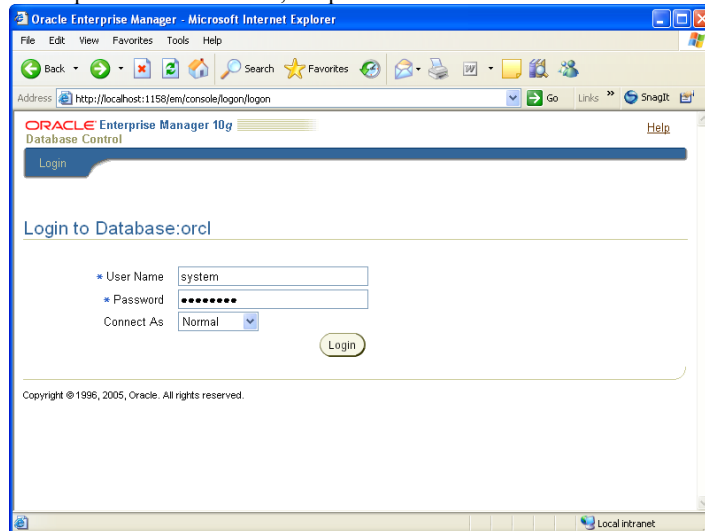
Please refer to the topic, “Creating, Editing and Deleting Tablespace”, available in Oracle Enterprise Manager Online Help.

## 15.2 Creating Users

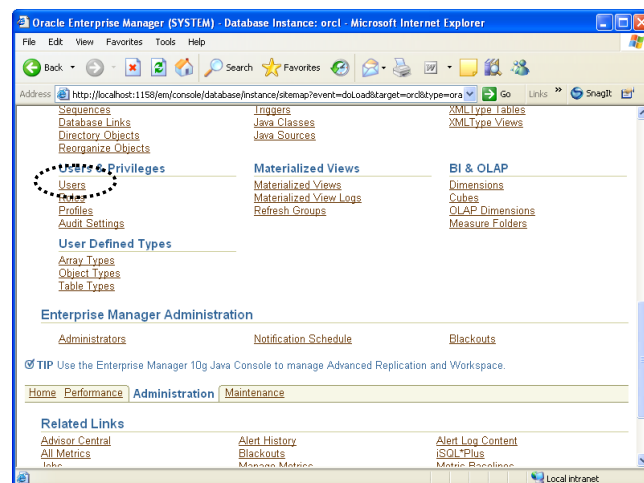
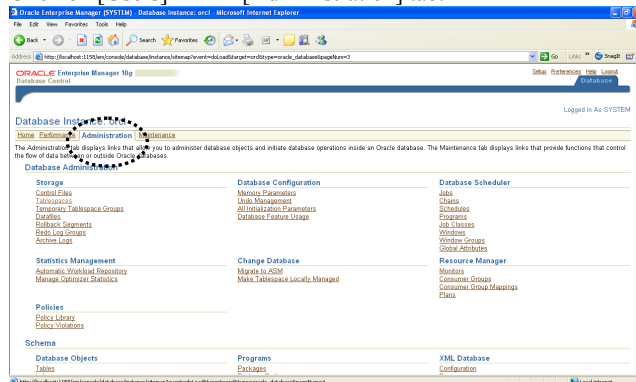
Create Oracle User to be used by intra-mart

- (1) Display the Login Page of ORACLE 10g Enterprise Manager and connect to the database with Administrative Rights.

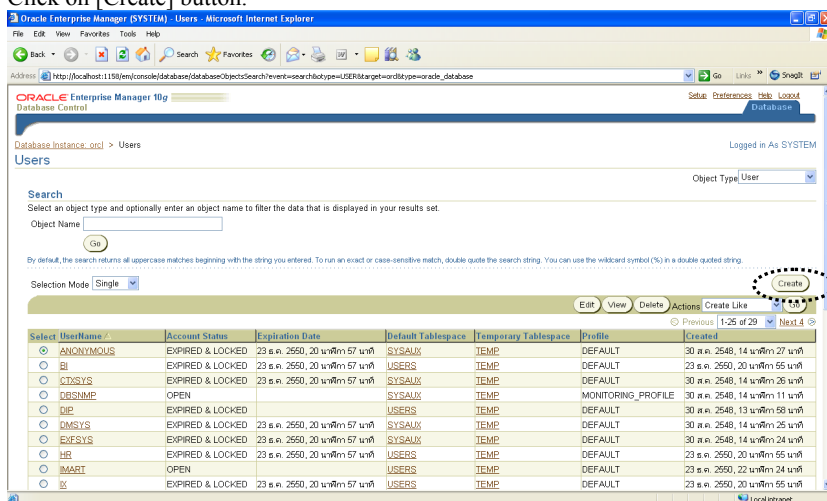
Example of host field URL, "http://localhost:5500/em"



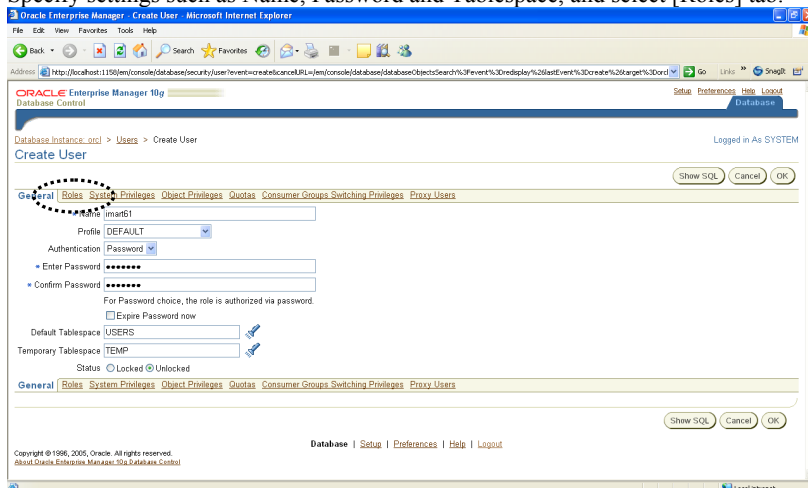
- (2) Click on [Users] link in [Administration] tab.



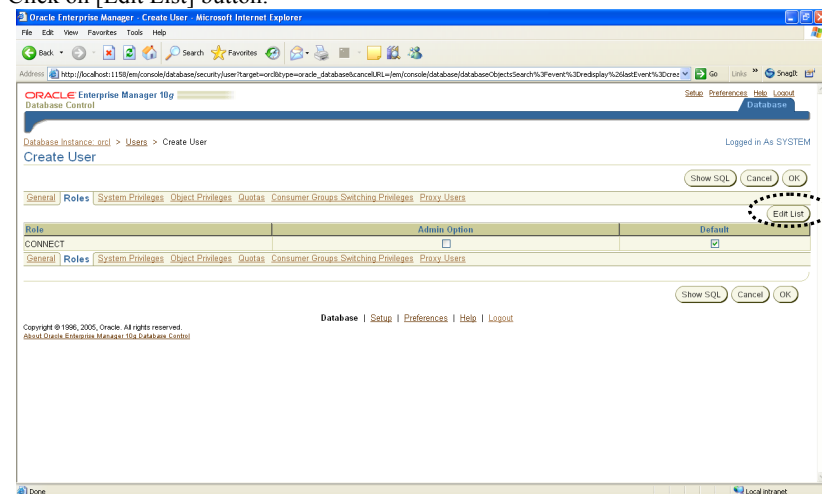
- (3) Click on [Create] button.



- (4) Specify settings such as Name, Password and Tablespace, and select [Roles] tab.

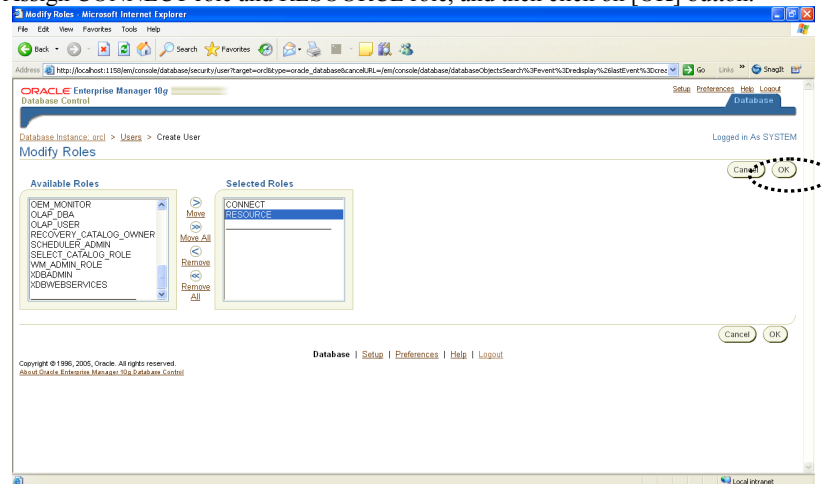


- (5) Click on [Edit List] button.

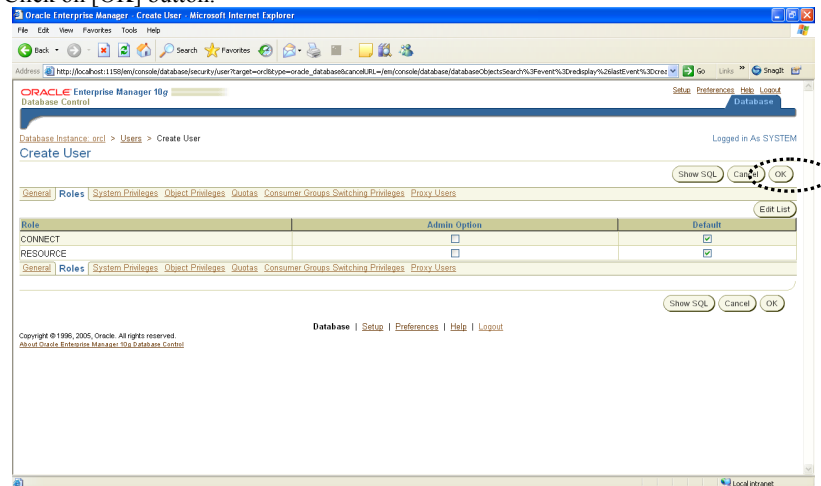




- (6) Assign CONNECT role and RESOURCE role, and then click on [OK] button.



- (7) Click on [OK] button.



It is successful if the message, “Object has been created in good order,” is displayed.

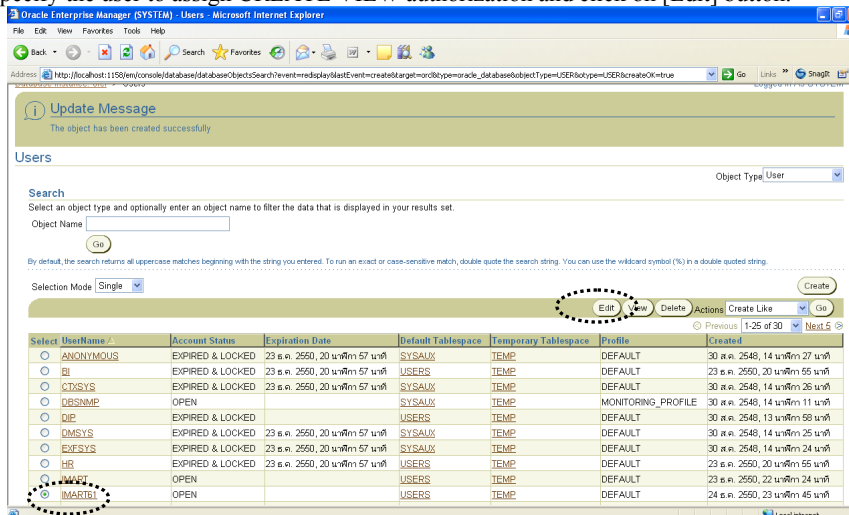
Please refer to the topic, “Creating, Editing and Deleting Database User”, available in Oracle Enterprise Manager Online Help.

## 15.2.1 Oracle Database 10g Release2 Environment

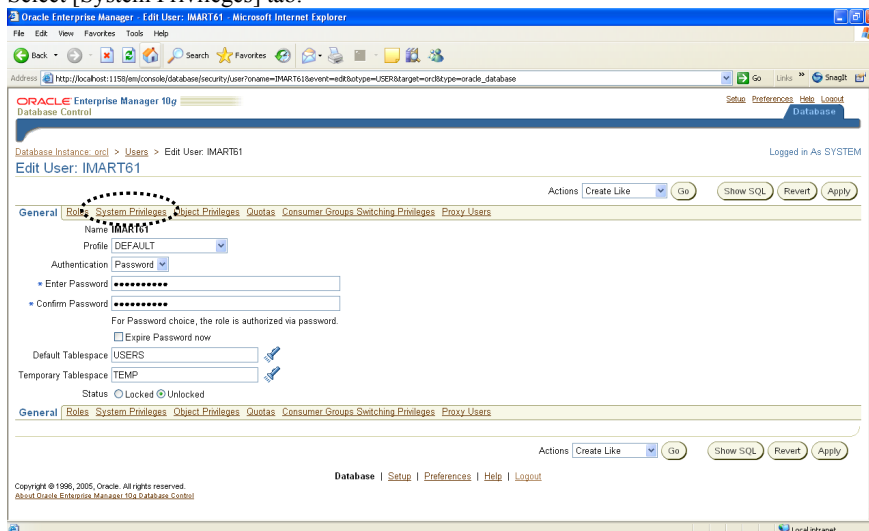
CREATIVE VIEW authorization is necessary to use intra-mart.

In case of Oracle Database 10g Release 2 environment, CONNECT role is assigned to only CREATE SESSION authorization but not other related authorizations. It is necessary to assign CREATE VIEW Authorization apparently.

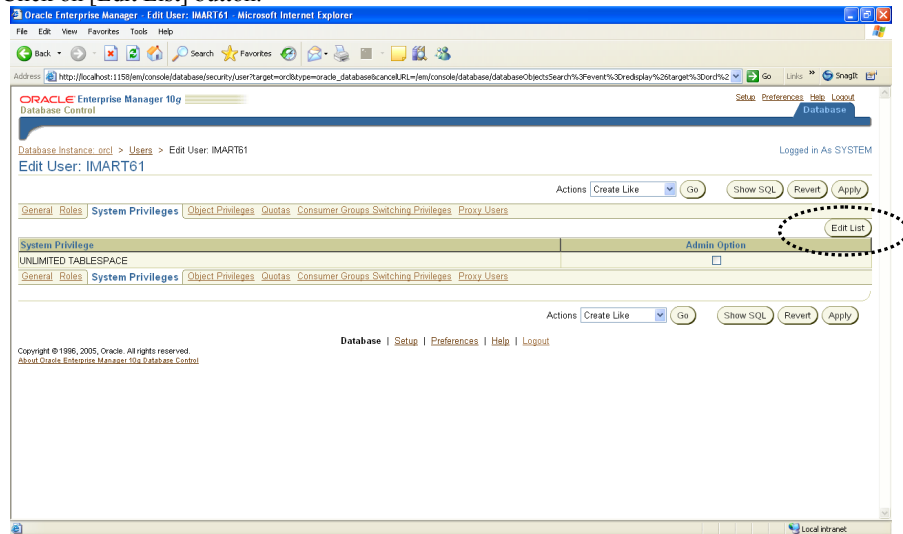
- (1) Specify the user to assign CREATE VIEW authorization and click on [Edit] button.



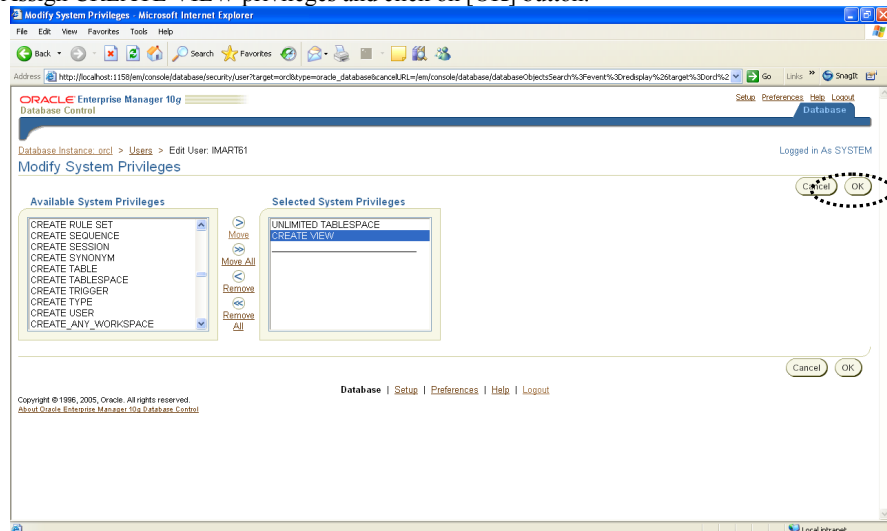
- (2) Select [System Privileges] tab.



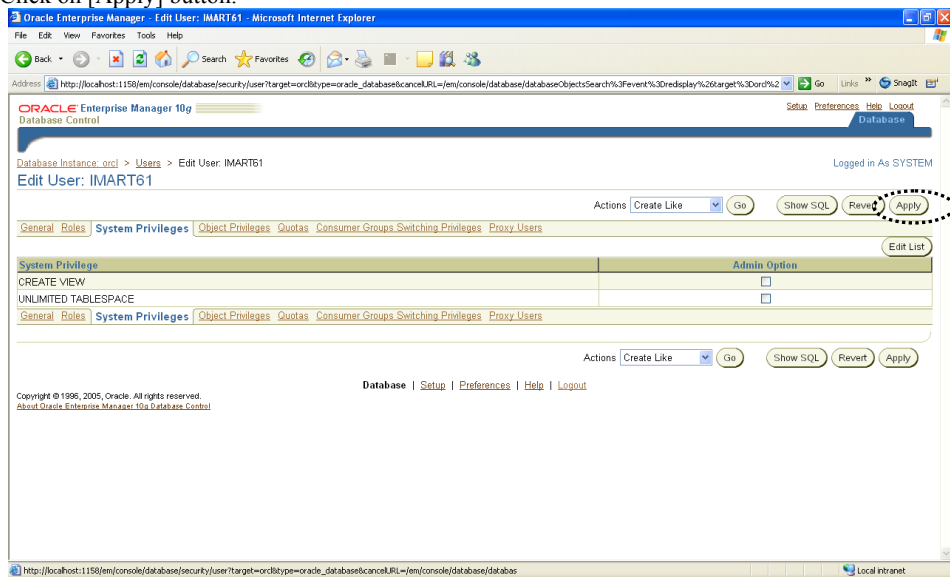
(3) Click on [Edit List] button.



(4) Assign CREATE VIEW privileges and click on [OK] button.



- (5) Click on [Apply] button.



If “User XXXX is properly changed” is shown, the procedures are completed successfully.

**intra-mart WebPlatform／AppFramework Version6.1**  
**Installation Guide**

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