Revision information

Revision date	Revision contents
2014-01-01	Initial version

Index

Introduction

Purpose of this document

IM-BIS for Accel Platform (here onwards referred as IM-BIS) setup procedure is described in this document.

Pre-requisites

The system requirements mentioned in release note should be met.

Refer "IM-BIS for Accel Platform Release note (Japanese)" for details.

Target readers

The following are the target users.

- Person performing IM-BIS for Accel Platform setup

Glossary

The directory in which Resin is installed is abbreviated as %RESIN_HOME%.
The directory in which Apache HTTP Server is installed is abbreviated as %APACHE_HOME%.
The directory to be used as Storage is abbreviated as %STORAGE_PATH%.
The directory in which static contents are placed while using Web server is abbreviated as %WEB_PATH%.

Server configuration

About server configuration

IM-BIS is a module which operates on intra-mart Accel Platform.
Refer the "Server configuration" section of "intra-mart Accel PlatformSetup guide" for details.

Setup Guide
Various installations/setting changes
INITIAL VERSION 2014-01-01

Perform the following installations and settings required in IM-BIS setup.

Installation and setting of Database

Refer to items in "Installation and settings of Database" of "intra-mart Accel Platform setup guide" for details.

Procure JDBC driver

Refer to items of "Procure JDBC driver" of "intra-mart Accel PlatformSetup guide" for details.

Installation and settings of IM-BIS for Accel Platform (Windows version)

Standalone configuration

Installation of Resin (Windows version)

Refer to the items of "Installation of Resin (Windows version)" of "intra-mart Accel Platform Setup guide" for details.

Installation of Apache Cassandra

Refer to items of "Installation of Apache Cassandra " of "Cassandra administrator guide (Japanese)" for details.

> **Note**
>
> Install Apache Cassandra when using IMBox notification of BAM function in the versions after IM-BIS for Accel Platform 2013 Spring.
> Refer to " IM-BIS Business manager guide" for the details of BAM functions.

Installation of wkhtmltopdf (Windows version)

Refer to items of "Installation of wkhtmltopdf (Windows version)" of "IM-FormaDesigner for Accel Platform Setup guide" for details.

Change settings

Refer to the items of "Change settings" of " intra-mart Accel Platform Setup guide" for details.

Distributed configuration

Installation of Resin (Windows version)

Refer to the items of "Installation of Resin (Windows version)" of "intra-mart Accel Platform Setup guide" for details.

Installation of Apache HTTP Server 2.2.x (Windows version)

Refer to items of "Apache HTTP Server 2.2.x (Windows version)" of "intra-mart Accel PlatformSetup guide" for details.

Installation of Internet Information Services（IIS）

Refer to items of "Internet Information Services（IIS）" of "intra-mart Accel PlatformSetup guide" for details.

Installation of Apache Cassandra

Refer to items of "Installation of Apache Cassandra " of "Cassandra administrator guide (Japanese)" for details.

> **Note**
>
> Install Apache Cassandra when using IMBox notification of BAM function in the versions after IM-BIS for Accel Platform 2013 Spring.
> Refer to " IM-BIS Business manager guide" for the details of BAM functions.

Installation of wkhtmltopdf (Windows version)

Refer to items of "Installation of wkhtmltopdf (Windows version)" of "IM-FormaDesigner for Accel Platform Setup guide" for details.

Change settings

Refer to the items of "Change settings" of " intra-mart Accel Platform Setup guide" for details.

Installation and setting of IM-BIS for Accel Platform (Linux version)

Standalone configuration

Installation of Resin (Linux version)

Refer to "Installation of Resin (Linux version)" of "intra-mart Accel Platform Setup guide" for details.

Installation of Apache Cassandra

Refer to items of "Installation of Apache Cassandra " of "Cassandra administrator guide (Japanese)" for details.

> **Note**
>
> Install Apache Cassandra when using IMBox notification of BAM function in the versions after IM-BIS for Accel Platform 2013 Spring.
> Refer to " IM-BIS Business manager guide" for the details of BAM functions.

Installation of wkhtmltopdf (Linux version)

Refer to items of "Installation of wkhtmltopdf (Linux version)" of "IM-FormaDesigner for Accel Platform Setup guide" for details.

Change settings

Refer to the items of "Change settings" of " intra-mart Accel Platform Setup guide" for details.

Distributed configuration

Installation of Resin (Linux version)

Refer to "Installation of Resin (Linux version)" of "intra-mart Accel Platform Setup guide" for details.

Installation of Apache HTTP Server 2.2.x

Refer to items of "Apache HTTP Server 2.2.x (Linux version)" of "intra-mart Accel PlatformSetup guide" for details.

Installation of Apache Cassandra

Refer to items of "Installation of Apache Cassandra " of "Cassandra administrator guide (Japanese)" for details.

> **Note**
>
> Install Apache Cassandra when using IMBox notification of BAM function in the versions after IM-BIS for Accel Platform 2013 Spring.
> Refer to " IM-BIS Business manager guide" for the details of BAM functions.

Installation of wkhtmltopdf (Linux version)

Refer to items of "Installation of wkhtmltopdf (Linux version)" of "IM-FormaDesigner for Accel Platform Setup guide" for details.

Change settings

Refer to the items of "Change settings" of " intra-mart Accel Platform Setup guide" for details.

Create IM-BIS for Accel Platform configuration file

Create project and select module

Items

- **im-Juggling**
- **Installation of im-Juggling**
- **Create new project**

im-Juggling

im-Juggling is an environment creation tool by which module management of war file can be executed.
Use this tool and perform installation and patch application.

> **Warning**
>
> It is required to connect to the internet to use im-Juggling .

Installation of im-Juggling

From the directory included in the product, expand im-Juggling according to the environment at an arbitrary path.

> **Warning**
>
> Repository data used in im-Juggling is also used in product version.
> Use the repository data when deploying to any path.

> **Note**
>
> im-Juggling in product version is set such that the repository data included by default can be browsed.
>
> When browsing (obtaining module) repository data through internet,
> start im-Juggling
> after deleting **repositories.local** file under the directory deployed before initial startup of im-Juggling .

Create new project

1. Run **juggling.exe** which is immediately below the expanded directory.

2. When started for the first time, "Terms of license agreement" is displayed at the time of initial startup.
   Select "Agree" and click "OK".

3. Dashboard is displayed.
   Select "Create new project".
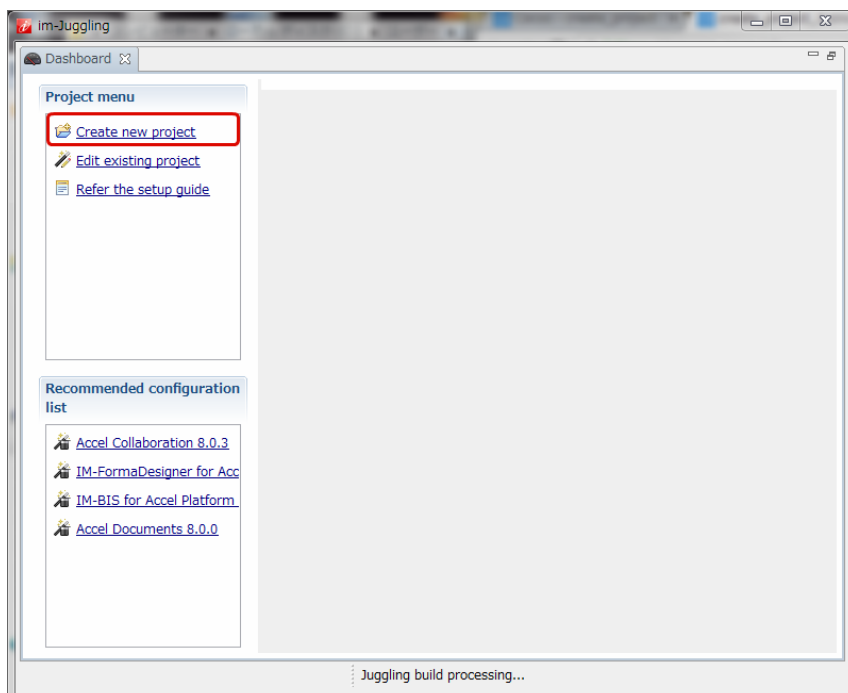
4. Enter a single byte alphanumeric project name in "Project name" in the wizard screen displayed as pop up.
   Click "Next" after entering it.
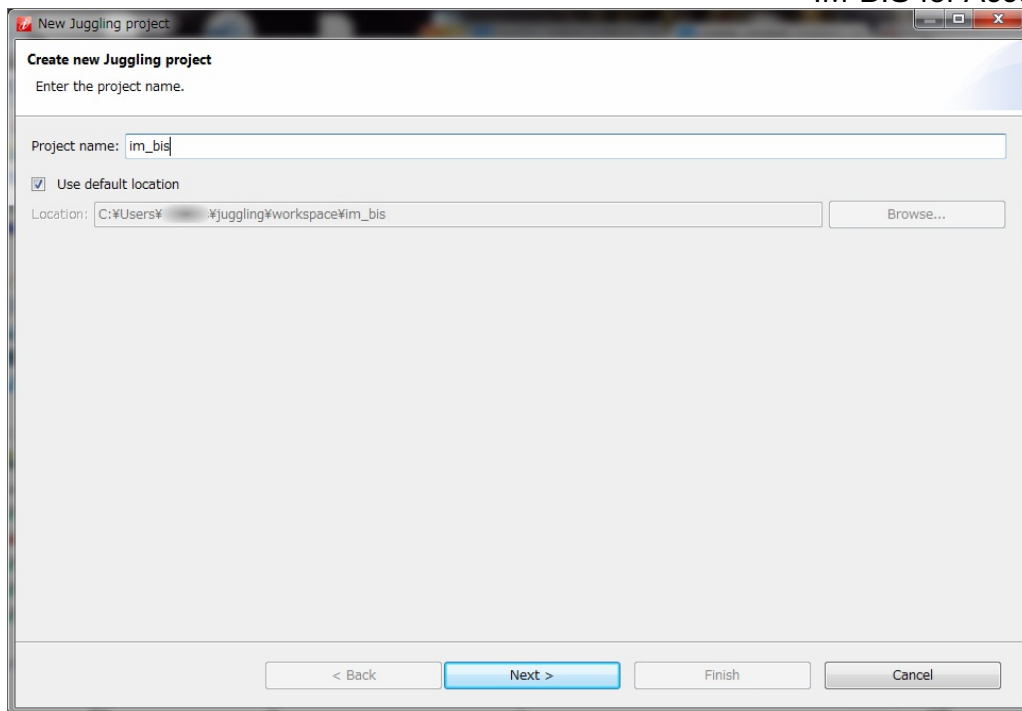
5. Select the product and version to be used.
   Click "Next" after selecting it.
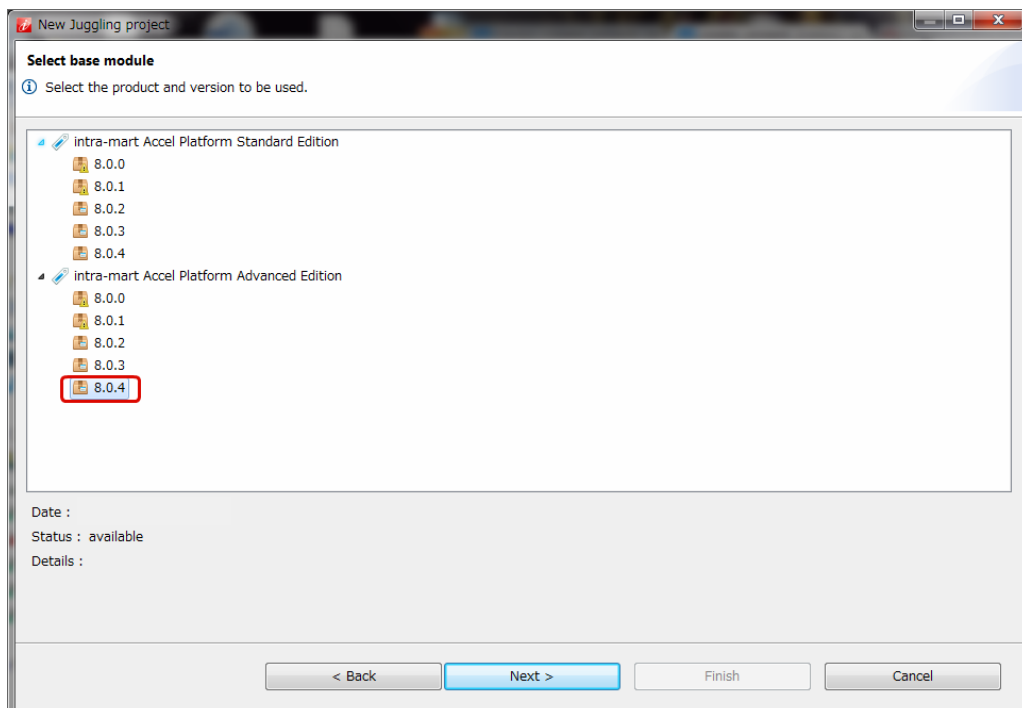
> **Note**
>
> It is recommended to use the latest version when multiple versions are displayed in the same product.

> **Note**
>
> When repository data cannot be browsed normally,
> check whether the browse destination of repository is set correctly (check is enabled)
> from "Settings" - " im-Juggling " - "Module repository" at the right end of toolbar in im-Juggling window.

6. Select IM-BIS for Accel Platform and IM-FormaDesigner for Accel Platform as the application to be used.
   Click "Next" after selecting it.
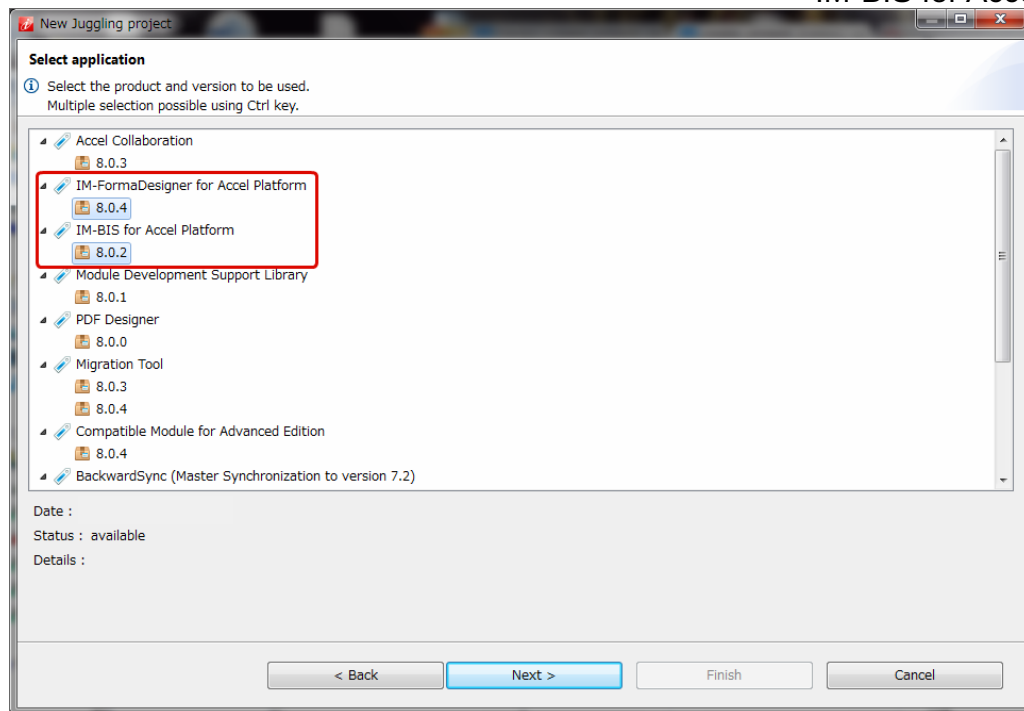
> **Note**
>
> Refer each setup guide when using Jaspersoft and OpenRules .

7. Select the additional resources (Configuration file etc.) for the platform to be used.
   Click "Next" after selecting it.
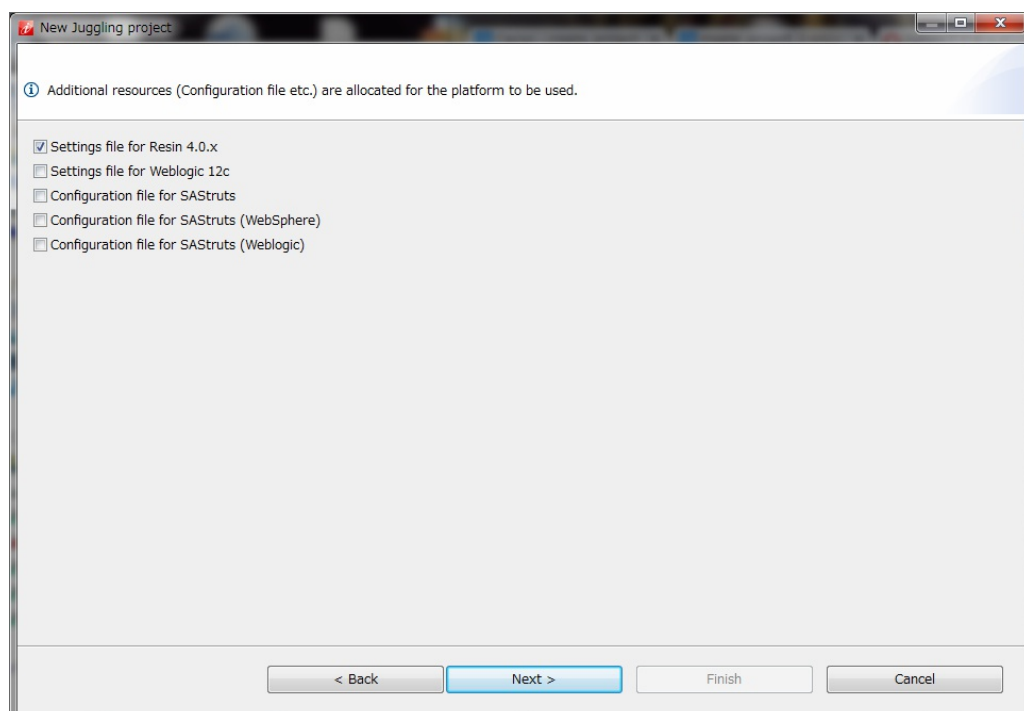
8. Finally, click "Finish".

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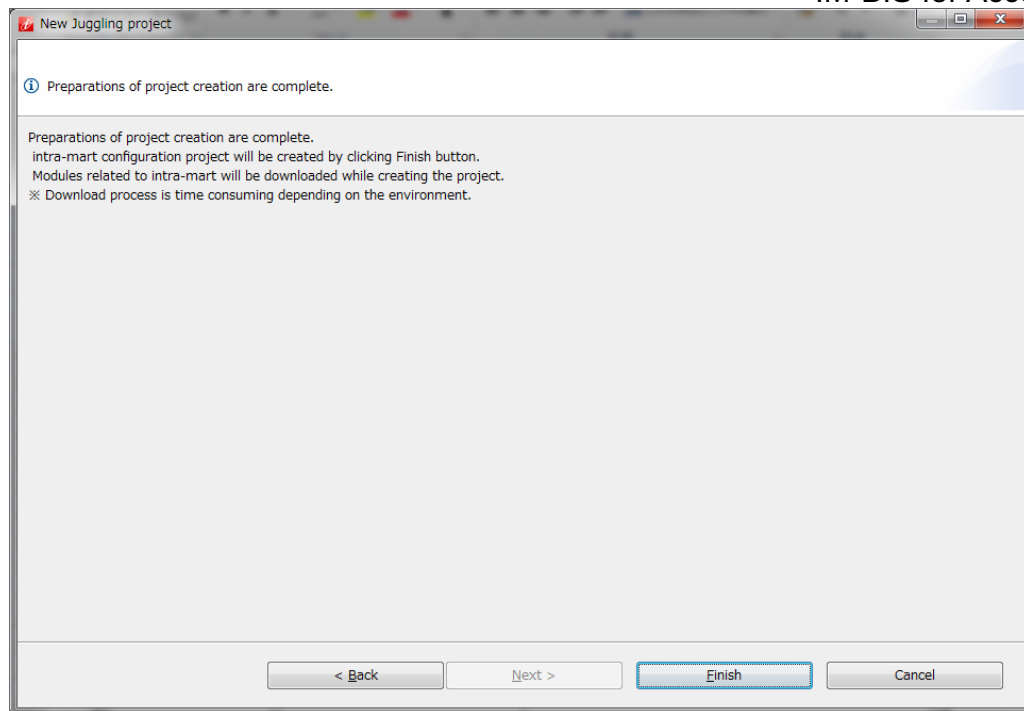
9. The following screen is displayed when the project creation process is performed and it is complete.
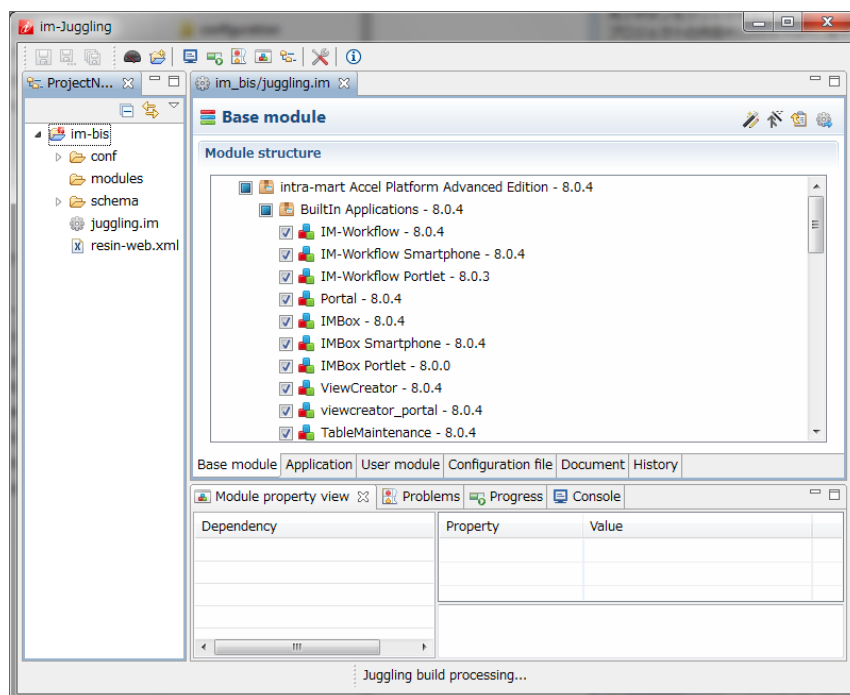
10. Click the "Application" tab, confirm that IM-FormaDesigner for Accel Platform is displayed and move to the next procedure.
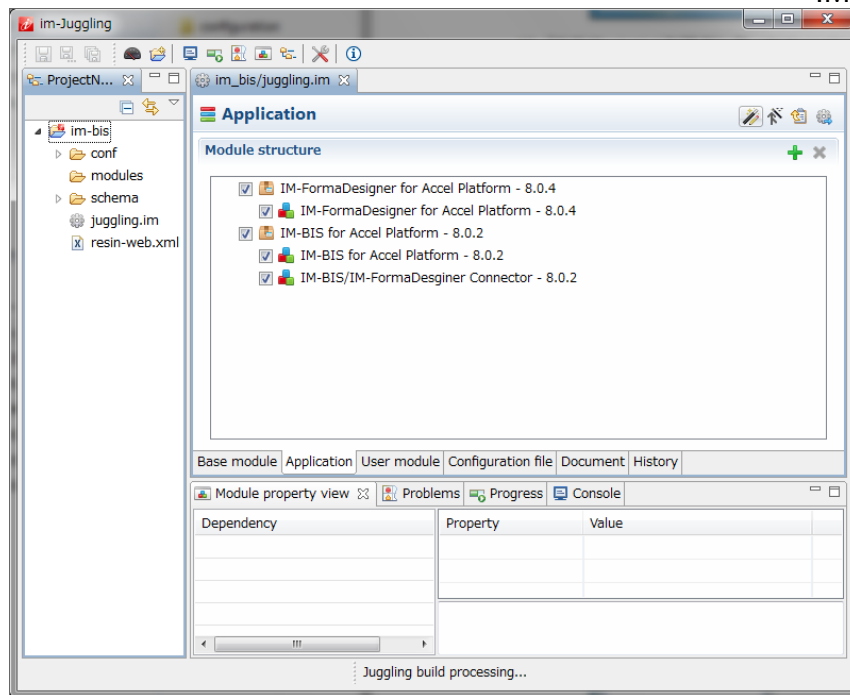
Note

In case an error message is displayed on the top of the screen

There is dependency in module unit and application unit.
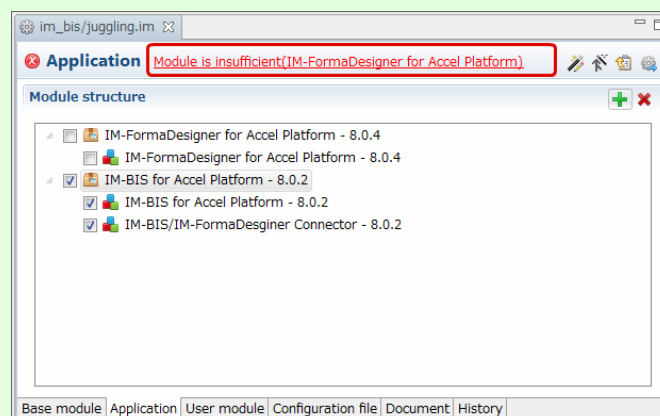
Required settings can be added by the following procedure.

1. Click the message.
2. Click "OK" on the "Resolve dependency" screen.

Update module

- "Update module" should be performed when using the version prior to IM-BIS for Accel Platform 2013 Spring. Refer to " intra-mart Accel Platform Setup guide (Japanese)" for procedure.

Edit configuration file

Edit the following configuration files to use IM-BIS for Accel Platform .

Datasource

Refer "Edit configuration file" section of "intra-mart Accel Platform Setup guide" for details.

Storage

Specify the path to be used as Storage area. It should be set appropriately since it is the area where the information created in IM-FormaDesigner for Accel Platformis saved.

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1. Open <(Project name)/conf/storage-config.xml> file in "ProjectNavigator" by double clicking and select "Source" tab.

2. Set the Storage area path in <storage-config>/<storage-info>/<root-path-name>.

> <root-path-name>/tmp/storage</root-path-name>

> **Note**
>
> **In case of multiple tenants**
>
> Set the Storage area for number of tenants.
>
> Set the storage area to be used for each tenant.

Forma-config

Item
• **Change the settings of toolkit**
• **IM-FormaDesigner, a setup of the database of IM-BIS (data type)**

Change the settings of toolkit

In order to use screen items with functions upgraded according to external linkage function of IM-BIS 2013 Summer, it is necessary to change the toolkit contents of configuration file.

1. Open <(Project name)/forma-config.xml> in "ProjectNavigator" by double clicking and select the "Source" tab.
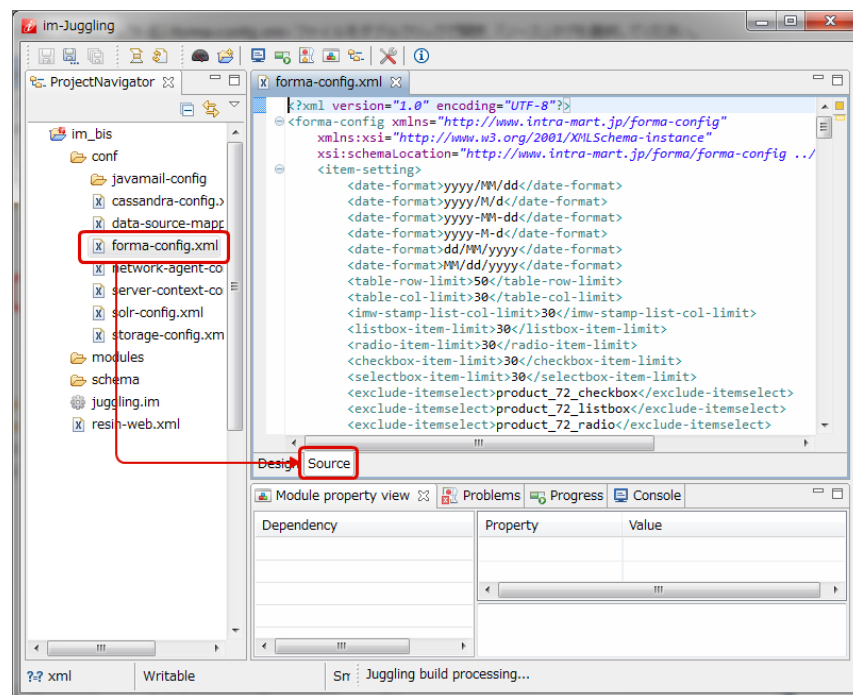
2. Replace the source contents in the extracted XML file after downloading the following link destination file.

Configuration file for IM-BIS
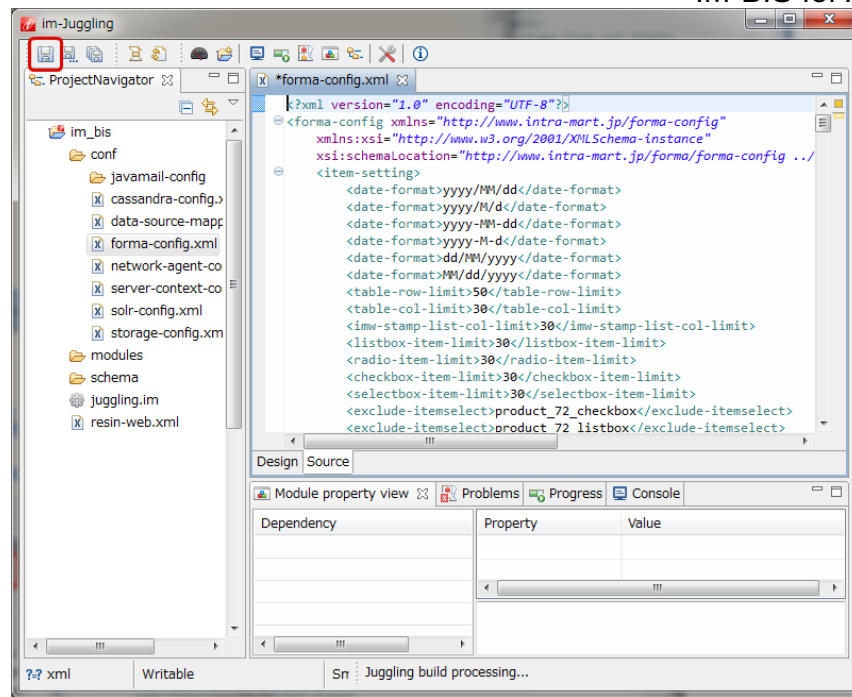
3. Finally save and end the toolkit operations.
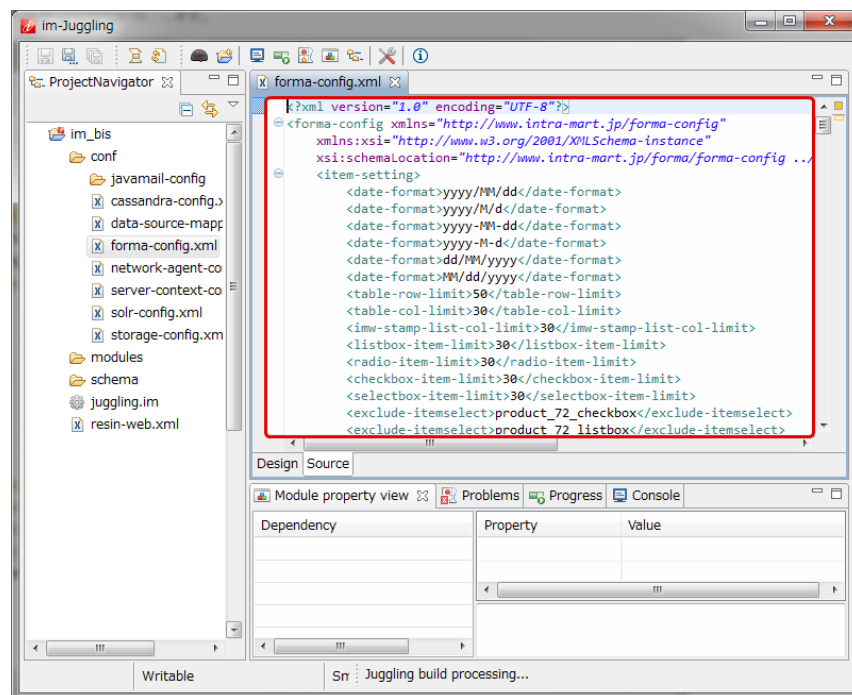
Note

This procedure is implemented when installing new IM-BIS 2013 Summer as well as when updating IM-BIS 2013 Summer.

IM-FormaDesigner, a setup of the database of IM-BIS (data type)

Refer to items of "Forma-config" of " IM-FormaDesigner for Accel Platform Setup guide" for details.

Note

If the configuration file does not exist in the tree in "ProjectNavigator"

1. Double click <(Project name)/juggling.im> file.
2. Click the "Configuration file" tab.
3. Select the target configuration file and click "Export" on the right side.
4. Double click and edit the file displayed in the tree in "ProjectNavigator".

> **Note**
>
> Refer the documents of each application for the configuration files in the module selected in each application.

Export war file
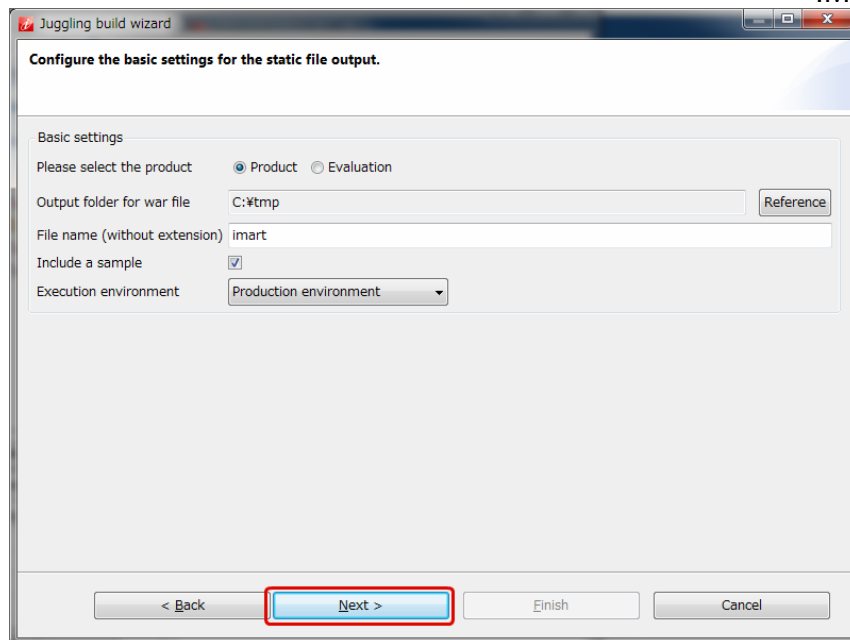
1. Open <juggling.im> file and click "Build wizard" icon on top right.
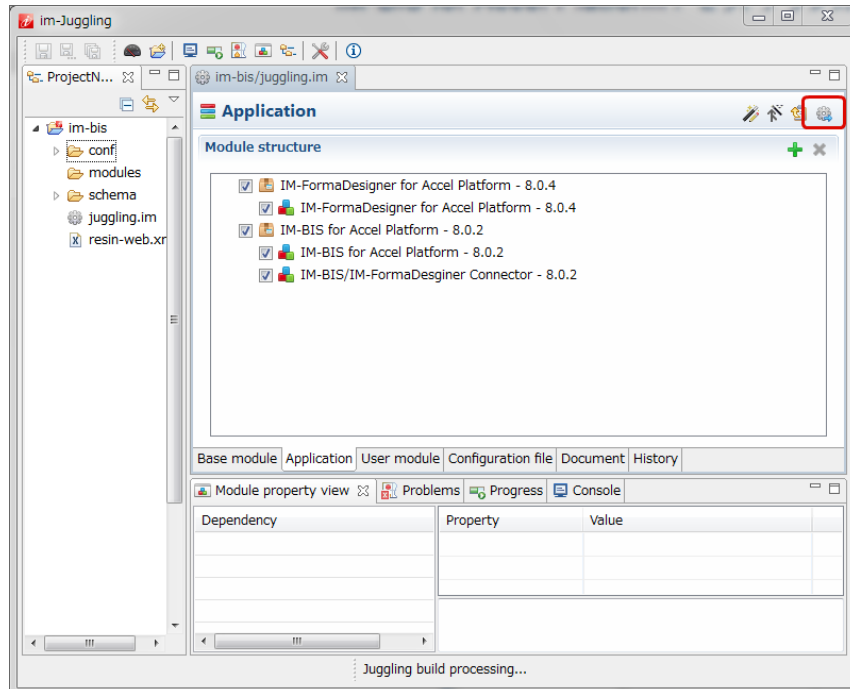
2. Select target server on the "Select the server product" screen and click "Next".
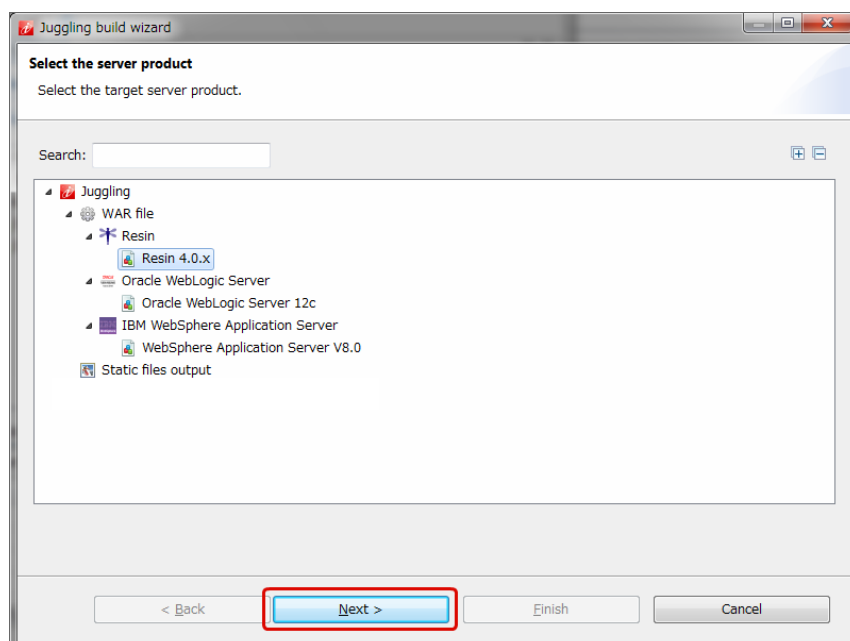
3. Perform the settings on the "Basic settings" screen and click "Next".

Please select the product

- Product version

    Select this for the customers who have purchased the license.

- Evaluation version

    This is the evaluation version.
    Purchase the license for using regularly.

Include a sample

Insert the sample data when check is ON. Use it while installing sample application of IM-FormaDesigner for Accel Platform .

Execution environment

- Unit test environment

    Shows unit test environment.
    Assumes the case when JUnit etc. is used.
    Performance is not considered.

- Combination test environment

    Shows integration test environment.
    Assumes the test environment in which IDE is used.
    Assumes the environment which is generally used.
    This is basic operation environment.

- Integrated test environment

    Shows integration test environment.
    Assumes the integration test environment that uses the original execution environment (AP server).
    The usage of this environment immediately after cutover etc. is also assumed.

- Production environment

    Shows operating environment.
   This is operating environment where performance is considered.

> **Warning**
>
> In "Output folder for war file", specify the folder for which the user has authorization for execution.

4. Check the contents on the "License review" screen, select "Agree to the provisions of usage conditions." if you agree and click "Next".
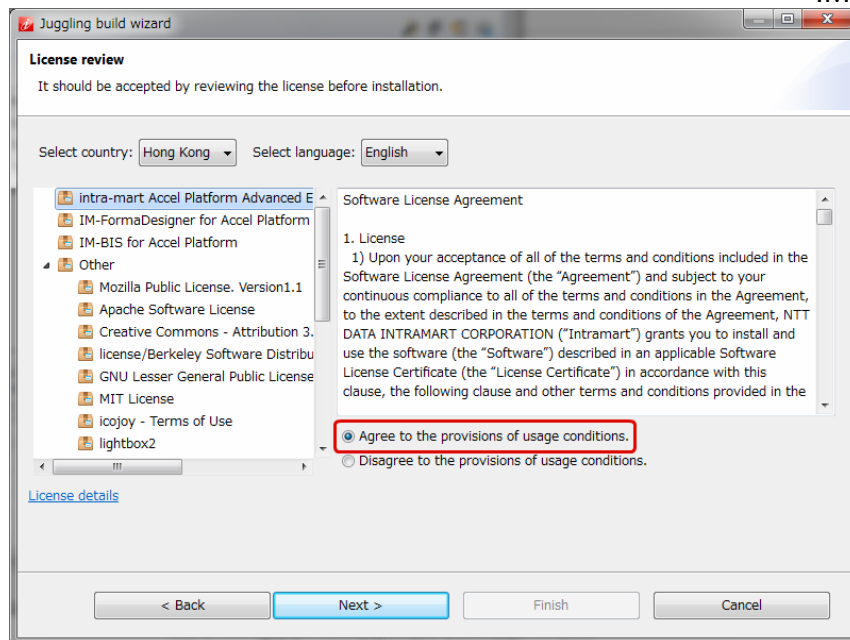
5. Check the contents on "Confirm settings" screen and click "Finish".

   Juggling build wizard screen is displayed and download starts.
   Do not perform any operation till downloading is complete.
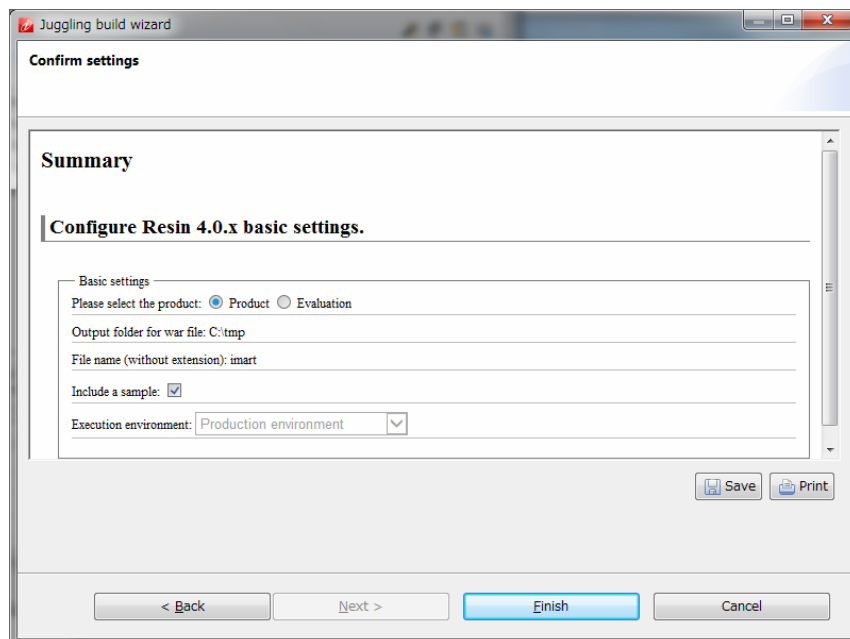
6. Build wizard screen is closed if war file is exported to the specified location.
   war file is exported to the specified directory.

7. Close im-Juggling .

Export static file

1. Open <juggling.im> file and click "Build wizard" icon on top right.
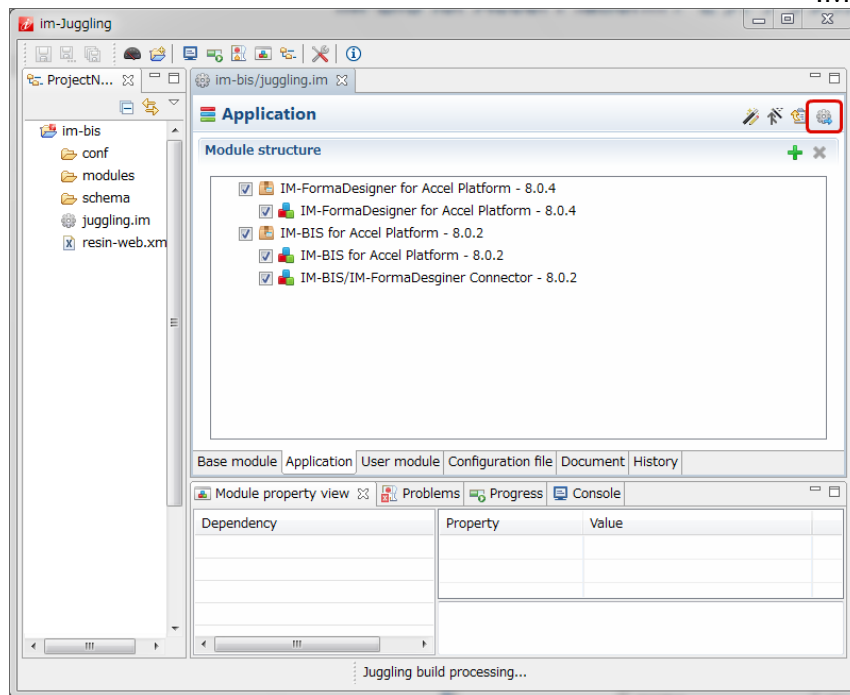
2. Select "Static files output" on the "Select the server product" screen and click "Next".

3. Perform the settings on the "Basic settings" screen and click "Next".

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Please select the product

- Product version

  Select this for the customers who have purchased the license.

- Evaluation version

  This is the evaluation version.
  Purchase the license for using regularly.

Include a sample

Insert the sample data when check is ON. Use it while installing sample application of IM-FormaDesigner for Accel Platform .

Execution environment

- Unit test environment

  Shows unit test environment.
  Assumes the case when JUnit etc. is used.
  Performance is not considered.

- Combination test environment

  Shows integration test environment.
  Assumes the test environment in which IDE is used.
  Assumes the environment which is generally used.
  This is basic operation environment.

- Integrated test environment

  Shows integration test environment.
  Assumes the integration test environment that uses the original execution environment (AP server).
  The usage of this environment immediately after cutover etc. is also assumed.

- Production environment

  Shows operating environment.
  This is operating environment where performance is considered.

> **Warning**
>
> In "war file destination folder", specify the folder for which the user has authorization for execution.

4. Check the contents on the "License review" screen, select "Agree to the provisions of usage conditions." if you agree and click "Next".
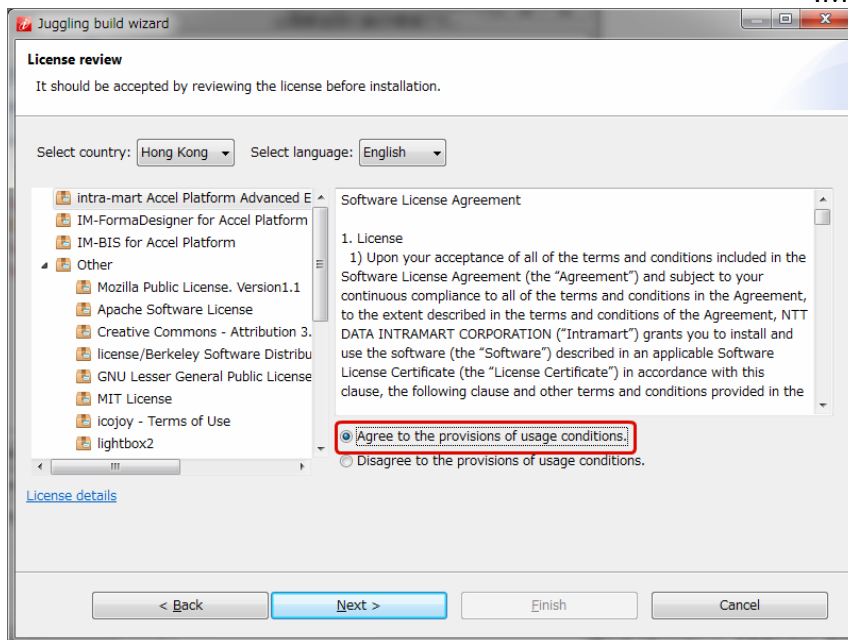
5. Check the contents on "Confirm settings" screen and click "Finish".

Juggling build wizard screen is displayed and download starts.
Do not perform any operation till downloading is complete.
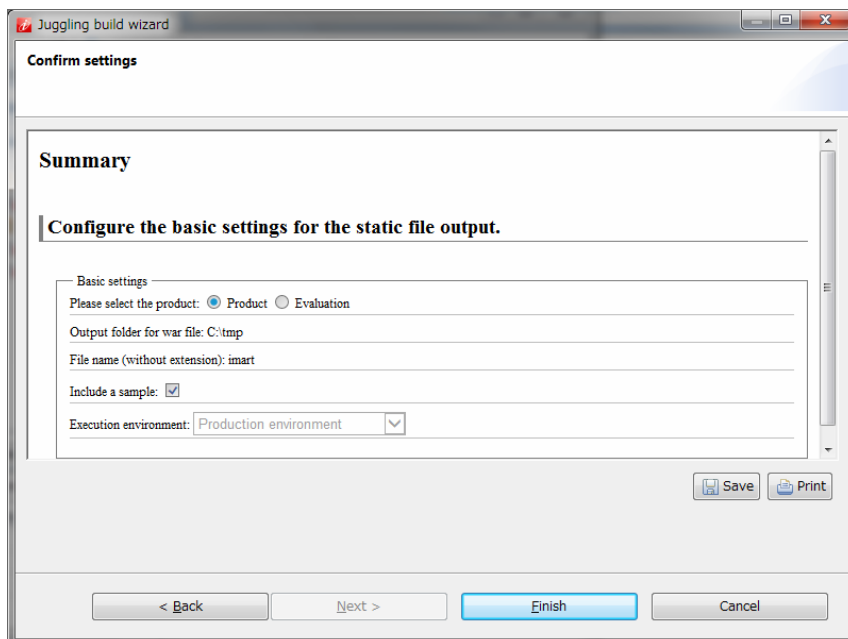
6. Build wizard screen is closed if war file is exported to the specified location.
ZIP file is exported to the specified directory.

7. Close im-Juggling .

Start/End

Windows edition

Start/Stop, Deploy/Undeploy (Windows version)

Deploy method of Resin is described below.

Item
• **Start Resin**
• **Stop Resin**
• **Deploy war file**
• **Undeploy war file**

Start Resin

> ⚠ **Warning**
>
> Start Apache Cassandra before starting Resin in case of using IMBox functions in IM-BIS.

1. Double click <%RESIN_HOME%/resin.exe> file.
   Start/Stop screen and console are displayed.
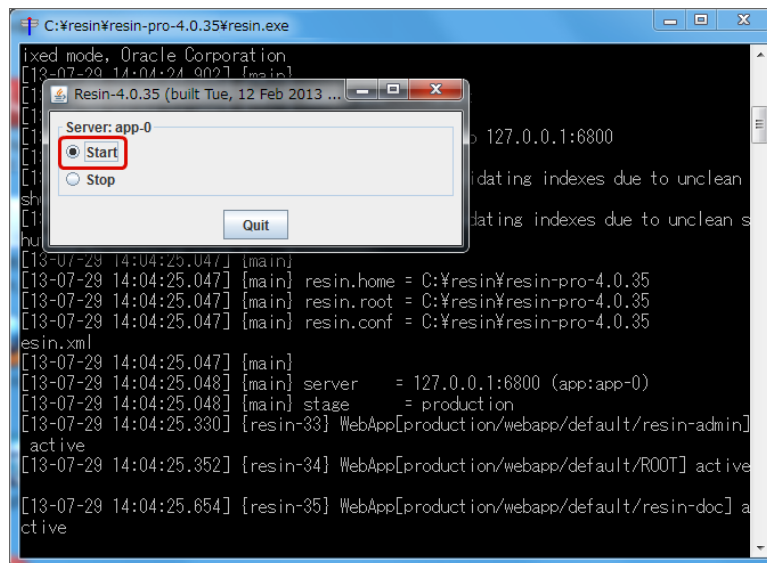
2. The startup is complete when the following message is displayed in console.

```
[12-07-02 18:30:00.000] {main} http listening to *:8080
[12-07-02 18:30:00.000] {main}
[12-07-02 18:30:00.000] {main} Resin[id=app-0] started in 55480ms
```

Stop Resin

1. Click "Stop" on the start/stop screen displayed during startup.
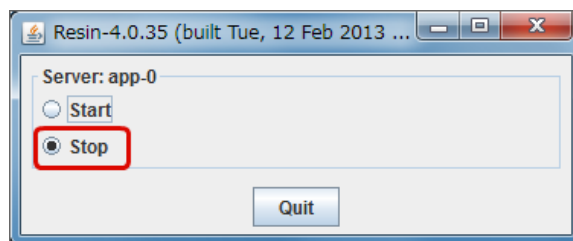
2. It is in stopped state when the following message is displayed in console.

```
{resin-shutdown} Shutdown Resin reason: OK
```

Deploy war file

1. Place the war file created in im-Juggling in any directory.

2. Start command prompt and execute the following command.

```
# cd <%RESIN_HOME%>/bin
# resin deploy any directory path/war file name.war
```

> ℹ **Note**
>
> In case of using multi-tenant, execute respectively for the required war file.

> ⚠ **Warning**
>
> It is required to start Resin to deploy the war file.

Undeploy war file

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1. Start command prompt and execute the following command.

```
# cd <%RESIN_HOME%>/bin
# resin undeploy war file name
```

2. After undeploy, delete the following files manually.

```
war file under <%RESIN_HOME%/webapps> and directories with same name
```

Note

In case of using multi-tenant, execute respectively for the war file to be undeployed.

Warning

It is required to start Resin to undeploy war file.

Linux edition

Start/Stop, Deploy/Undeploy (Linux version)

Item

- **Start Resin**
- **Stop Resin**
- **Deploy war file**
- **Undeploy war file**

Start Resin

Warning

Start Apache Cassandra before starting Resin in case of using IMBox functions in IM-BIS.

1. Execute the following command.

```
# <%RESIN_HOME%>/bin/resinctl -server app-0 start
```

2. The startup is complete when the following message is displayed in console.

```
[12-07-02 18:30:00.000] {main} http listening to *:8080
[12-07-02 18:30:00.000] {main}
[12-07-02 18:30:00.000] {main} Resin[id=app-0] started in 55480ms
```

Note

In case of distributed configuration, start from the environment in which each Resin is installed. Specify the ID corresponding to the IP address set in "app_servers" property of <%RESIN_HOME%/conf/resin.properties> file for the "app-0" part.

Stop Resin

1. Execute the following command.

```
# %RESIN_HOME%/bin/resinctl -server app-0 stop
```

2. It is in stopped state when the following message is displayed in console.

```
{resin-shutdown} Shutdown Resin reason: OK
```

Note

In case of distributed configuration, stop from the environment in which each Resin is installed.

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Specify the ID corresponding to the IP address set in "app_servers" property of <%RESIN_HOME%/conf/resin.properties> file for the "app-0" part.

Deploy war file

1. Place the war file created in im-Juggling in any directory.

2. Execute the following command.

```
# <%RESIN_HOME%>/bin/resinctl deploy any directory path/war file name.war
```

Note

In case of using multi-tenant, execute respectively for the required war file.

Warning

It is required to start Resin before deploying war file.

Undeploy war file

1. Execute the following command.

```
# <%RESIN_HOME%>/bin/resinctl undeploy war file name
```

Note

In case of using multi-tenant, execute respectively for the war file to be undeployed.

Warning

It is required to start Resin to undeploy war file.

Create Tenant Environment

Item

- **Create Tenant Environmentby system administrator**
  - **Tenant environment setup**
  - **Registration of license**
  - **Initialization of portlet**
  - **Registration of system user to send IMBox notification**
  - **Sample data setup**
- **Settings to use IM-BIS for Accel Platformby tenant administrator**
  - **Setting of workflow parameters**
  - **Data registration of IM common master**
  - **Set company data reference authorization (Permission) to IM-BIS system administrator**
  - **Set BIS business administrator to administration group**
- **Operation by tenant administrator/general user**

Create Tenant Environmentby system administrator

Tenant environment setup

1. Access the system administrator login screen "**http://(Host name):(Port No.)/(Context path)/system/login**" from the Web browser.

Warning

Start Apache Cassandra before starting Resin in case of using IMBox functions in IM-BIS.

> **Note**
>
> Since the system administrator is not registered during initial access, it automatically transits to the "Tenant initial settings" screen.
>
> 🔸 **The "Tenant default setting" screen may be displayed in English language.**
>
> To display in Japanese language, change the language setting of the browser to "Japanese(ja)".

> **Warning**
>
> If English is displayed on the "Tenant default setting" screen, it can be avoided by changing language settings of the browser.
> Internet Explorer configuration example
> 1.Select "Internet options" - "General" - "Languages (L)".
> 2.If Japanese is to be added, select "Japanese [ja]" by clicking "Add" button.
> 3.Set the priority to top, click the "OK" button and reopen the browser.

2. Enter the system administrator information, tenant information and tenant manager information and click the "Register" button.
   The tenant environment creation process is performed.

> **Note**
>
> Tenant manager can also be registered from "user management" menu of system administrator after setting up tenant environment.

3. The subsequent result screen is displayed if the process completes normally.
   Confirm normal end and click "Home" on the top-left.

Registration of license

Register the license required to use the application.
It is necessary to register the license of intra-mart Accel Platform, IM-FormaDesigner for Accel Platform, IM-BIS for Accel

Platform for using IM-BIS.

1. Menu screen of system administrator is displayed.
   Click "License management" from the menu.
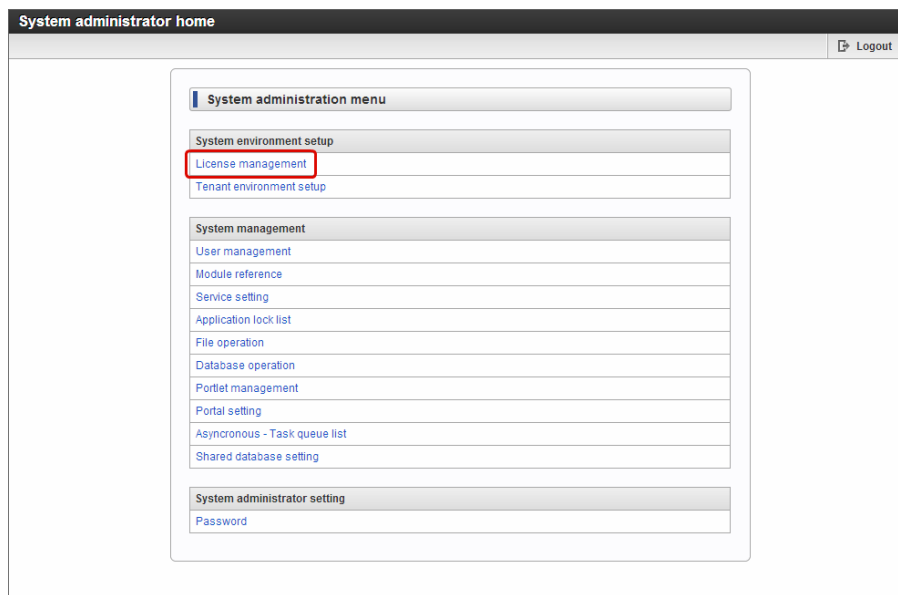
2. Register the license from "Register license key".
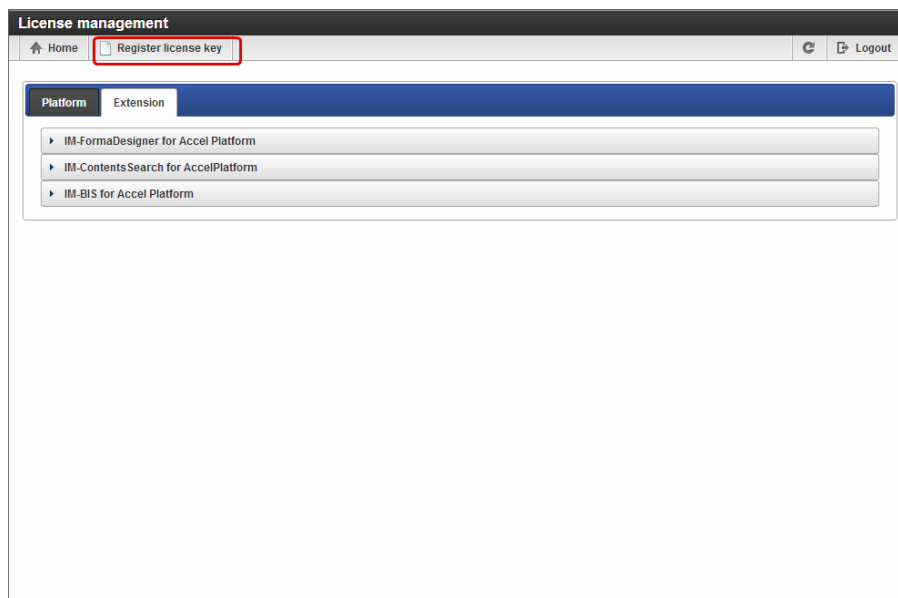
Initialization of portlet

1. Menu screen of system administrator is displayed.
   Click "Portlet management" from the menu.
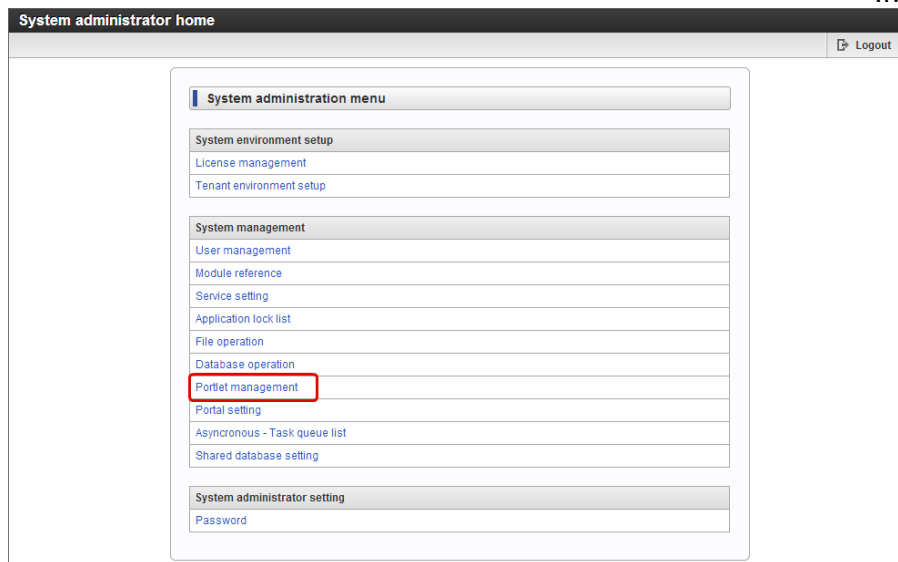
Click and execute "Initialize standard portlet" from top-left.
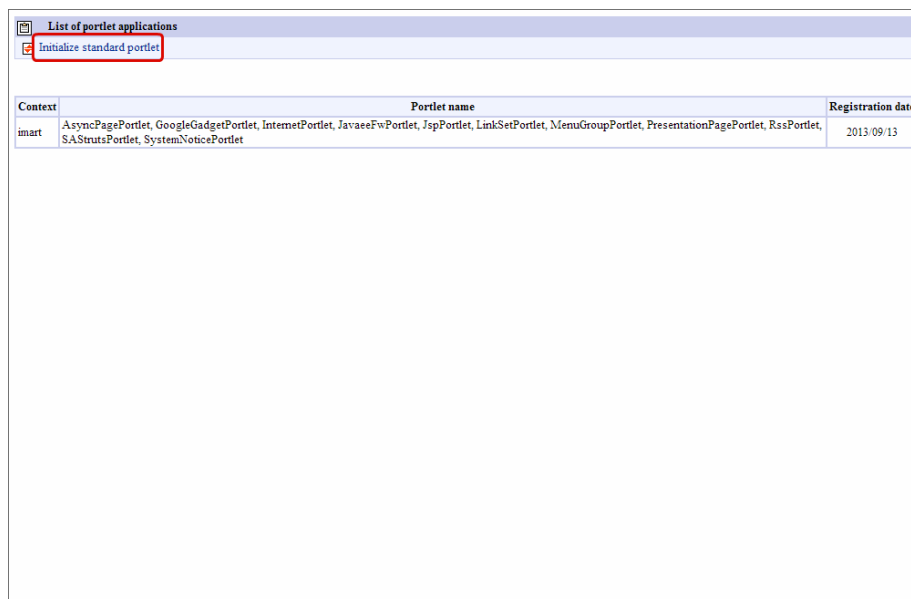
Registration of system user to send IMBox notification

- Register the system user for transmission to IM common master to notify the message of BAM setting of IM-BIS to IMBox.

> **Note**
>
> This procedure need not be implemented when IMBox function is not used in IM-BIS.

1. Menu screen of system administrator is displayed.
   Click "User management" from the menu.
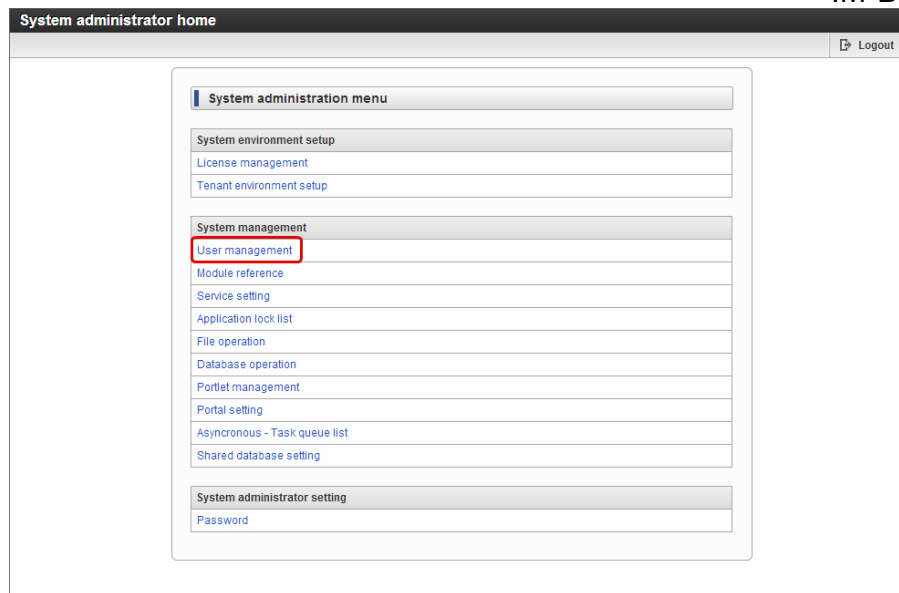
2. Click "Register new user".
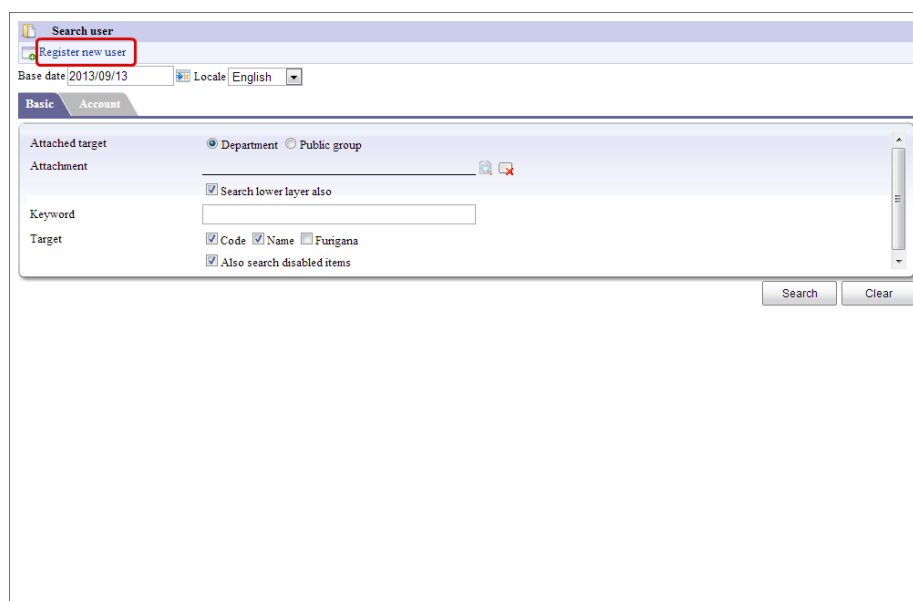
3. Enter "BIS" in "User code".
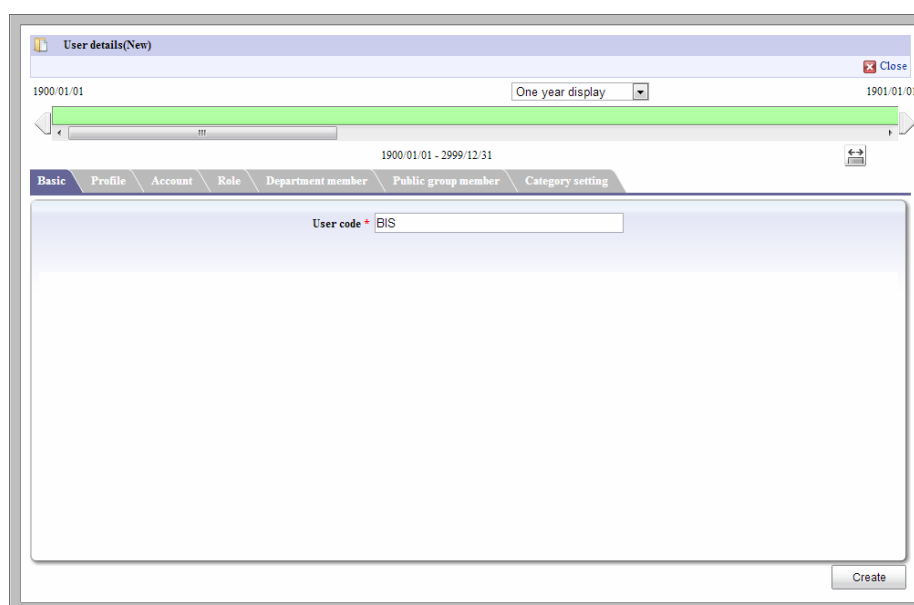
Note

User code of user for notification of BAM settings should be "BIS" (upper case English characters).

4. Enter "User name" of "Profile" and click "Create".

5. It is complete when the registration is done normally.

Sample data setup

- Execute the following procedure when sample data is used.

1. Menu screen of system administrator is displayed.
   Click "Tenant environment setup" from the menu.

2. Click "Sample data setup".

3. The subsequent result screen is displayed if the process completes normally.

IM-BIS for Accel Platform

> ### Note
>
> [Reference] In case of failure during tenant environment/sample data set up
>
> Delete the data of Databaseconnection destination and setup tenant environment again.

Settings to use IM-BIS for Accel Platformby tenant administrator

Setting of workflow parameters

- It is necessary to set the workflow parameters to following contents to use IM-BIS.

    - Synchronous/asynchronous control of job end process/arrive process/mail transmission (arrive-process-async) -> Synchronous (false)
    - Administration group settings (administration-group) -> Use (true)

1. Click "Workflow administrator" - "Workflow parameter" from menu.

2. Modify as per the following in "param_group_default.xml".

```
<param>
    <param-name>administration-group</param-name>
    <param-value>true</param-value>
</param>
```


3. Click "Edit".
   Click "OK" if confirmation dialog is displayed.
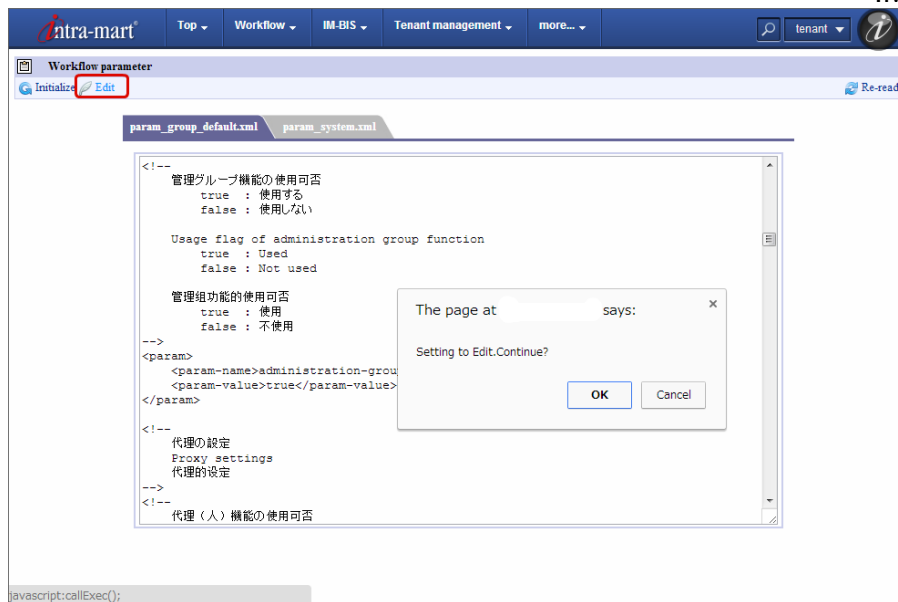
4. Click "param_system.xml".

5. Modify as per the following.

```
<param>
    <param-name>arrive-process-async</param-name>
    <param-value>false</param-value>
</param>
```


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6. Click "Edit".
   Click "OK" if confirmation dialog is displayed.
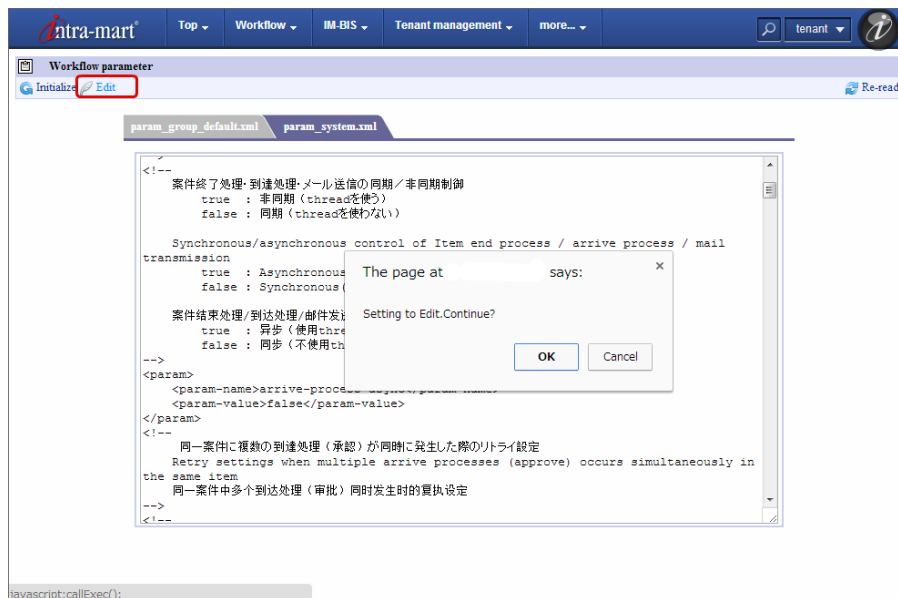
Data registration of IM common master

- Register the company, organization and user information in IM common master to be used in IM-BIS.
  Refer "IM common master Administrator guide" for details.

- In case of using IM-BIS, set

  - "BIS administrator" role to IM-BIS system administrator
  - "BIS business administrator" role to IM-BIS business administrator
  - "BIS in-charge" role to IM-BIS user

Set company data reference authorization (Permission) to IM-BIS system administrator

- Set the permission of the company of IM-common master such that administration group of IM-BIS can be set by "IM-BIS System administrator" of IM-BIS.

  1. Click "Common master" -> "Master maintenance" -> "Company" from menu.

  2. Click "Authorization setting".
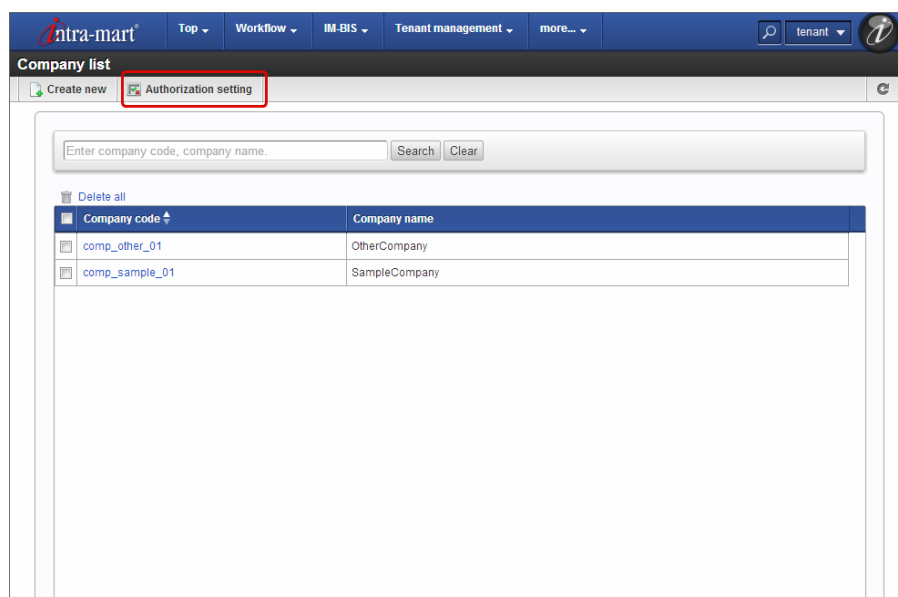
  3. Click "Start the authorization setting" and set edit mode of permission.

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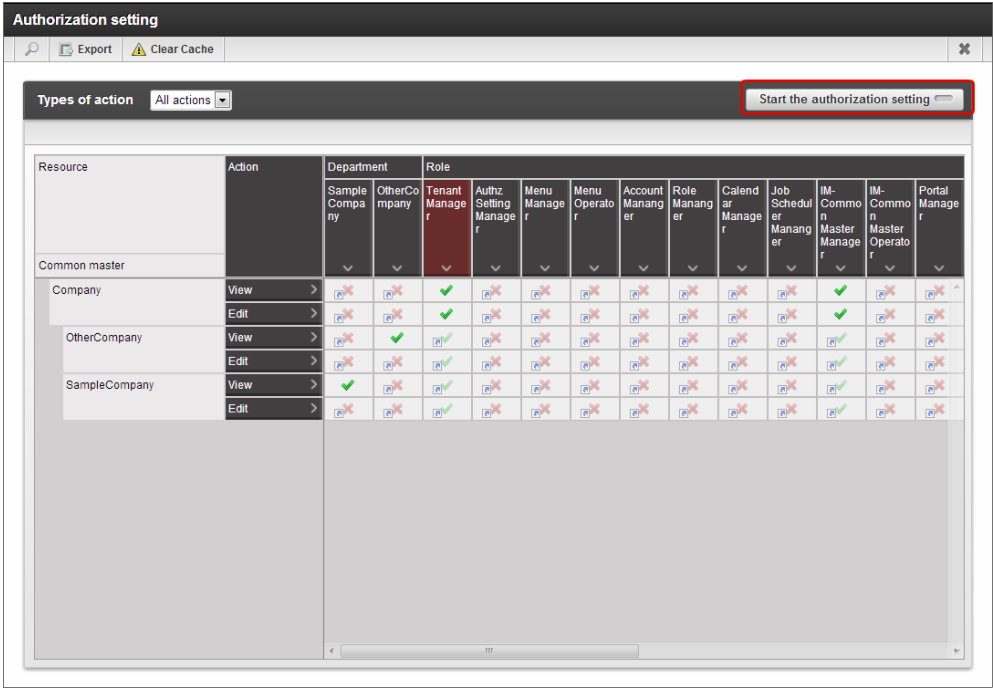
4. Click the cell that intersects with "View" of "BIS System Manager" and "Company" in "Role" column and set to ✔.
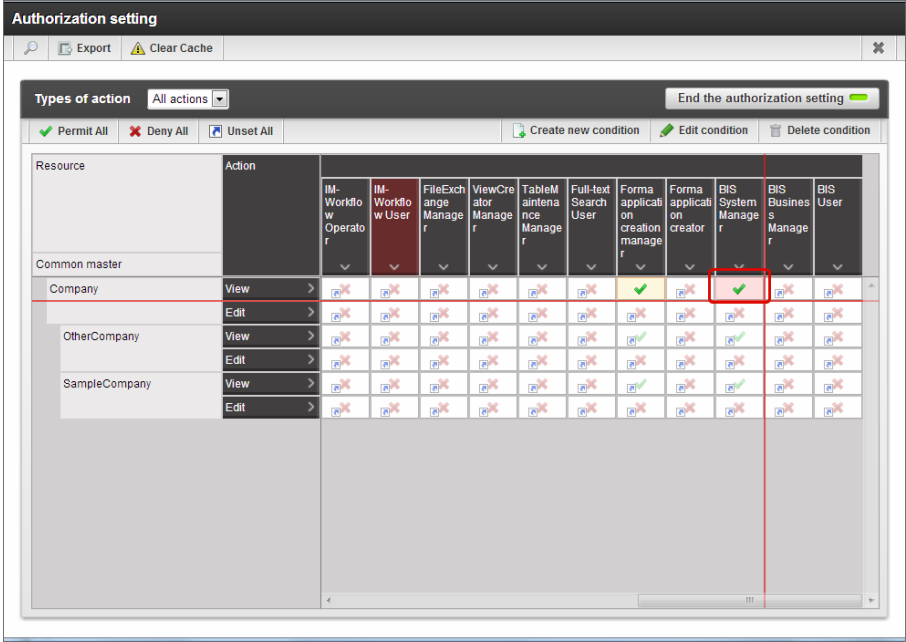
5. Click "End the authorization setting" and end the edit mode of permission.
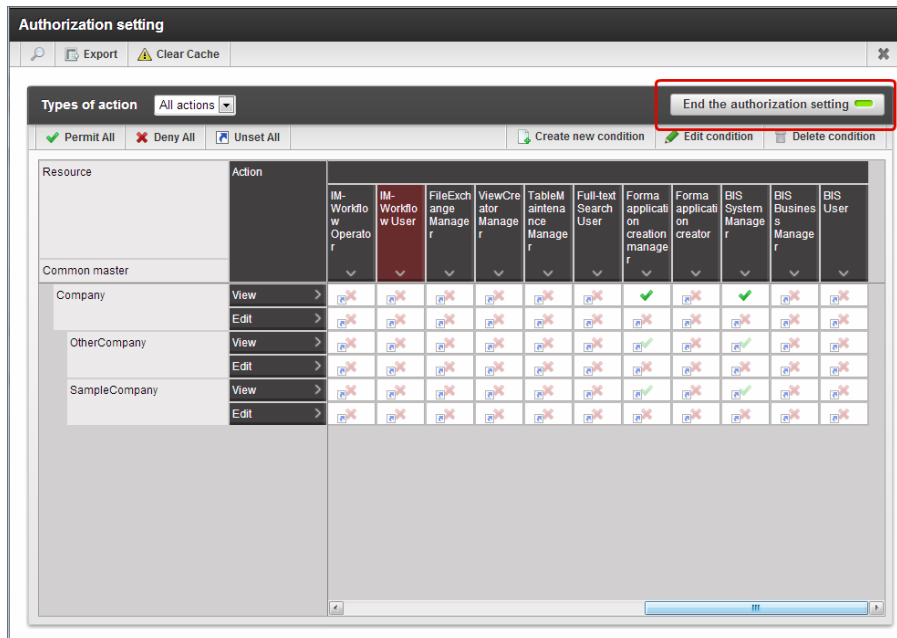
Set BIS business administrator to administration group

- Set administration group such that "IM-BIS Business administrator" of IM-BIS can create or manage BPM/Workflow in IM-BIS.

  1. Click "IM-BIS" -> "System Manager" -> "Flow Operation Management" - "Privilege Authorization Setting" - "Administration Group Setting" from menu.

  2. Enter "Administration group name" and "Description".
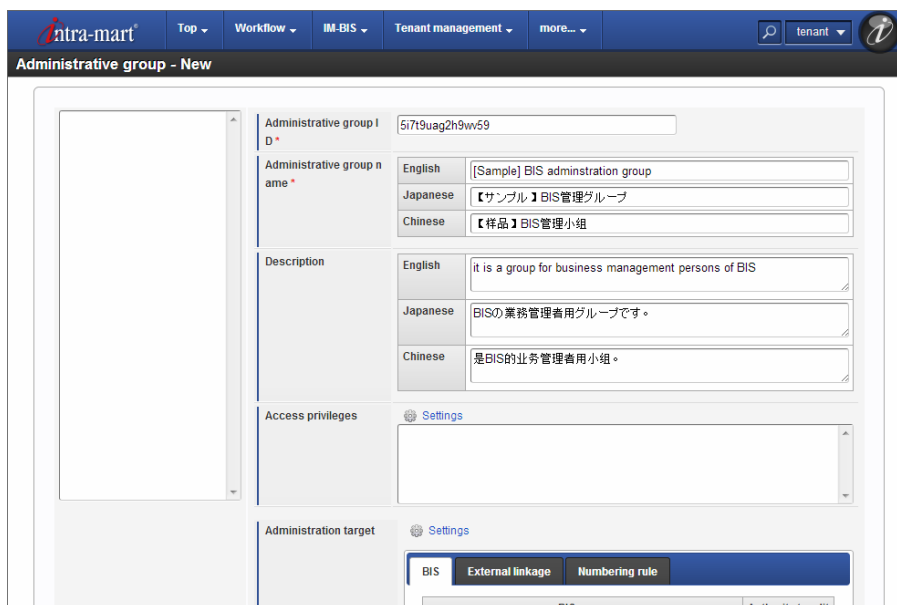
  3. Click "Settings" in "Access privileges" to assign the user of "IM-BIS Business administrator" to administration group.

4. Click "Add" in "Administration group - Access privilege settings".

5. Click 🔍 icon of the target type in "Settings".

6. Search the target user or organization and add it by clicking "OK".

7. Confirm that the target set in "Administration group - Access privileges setting" is displayed and click "Settings".

8. Finally, click "Register".

Operation by tenant administrator/general user

1. Access the general user login screen "**http://(Host name):(Port No.)/(Context path)/system/login**" from the Web browser.

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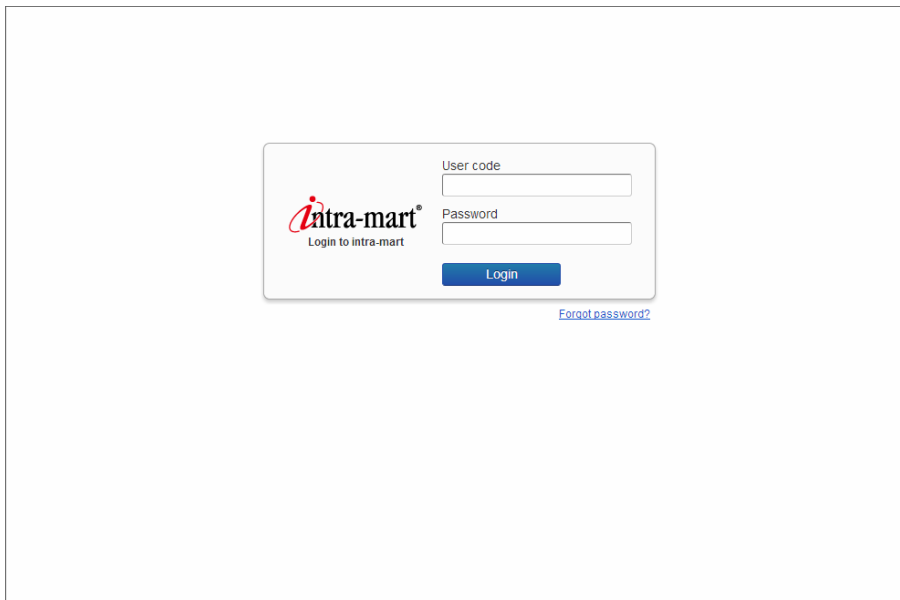
2. Login by using tenant administrator account registered in "Tenant environment setup" mentioned above.

3. After login, each tenant administration function and application of various menus can be used.
   Refer each operation guide for the details.

Uninstall IM-FormaDesigner for Accel Platform

Uninstallation of files related to IM-FormaDesigner for Accel Platform is performed in this chapter.
Check the manual of the same product for the uninstallation of middleware products etc.

Perform the operations sequentially according to the following procedure.

Contents

- **Before the operation...**
- **Delete definition files of IM-BIS**
- **Delete license**
- **Stop, undeploy Resin**
- **Recreate war file**
- **Delete static files (While using Web server)**
- **Start, deploy intra-mart Accel Platform**

### Before the operation...

Take a backup of the required files such as log file etc.

### Delete definition files of IM-BIS

1. Delete all the BIS definitions registered in "BIS list".
   Close all the BPM/workflow processes/applications that are not closed.

2. Delete the data of IM-Workflow and IM-FormaDesigner used in IM-BIS.
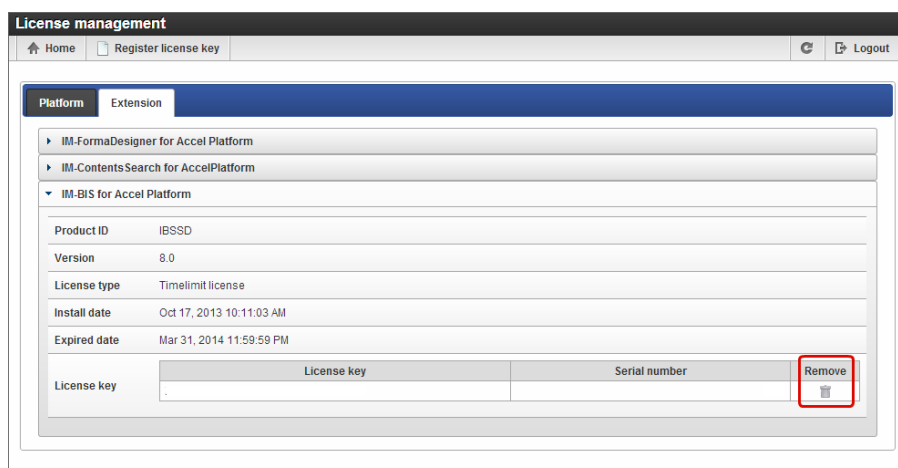
Delete license

1. Access the system administrator login screen "**http://Host name:Port No./Context path/system/login**" from the Web browser.

2. Click "License management" from Menu.
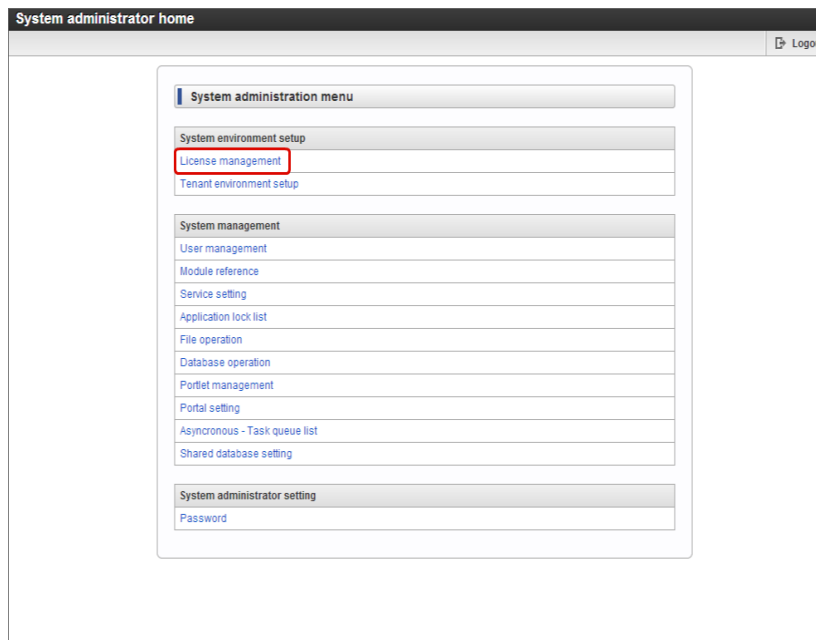
3. Click the "Extension" tab.
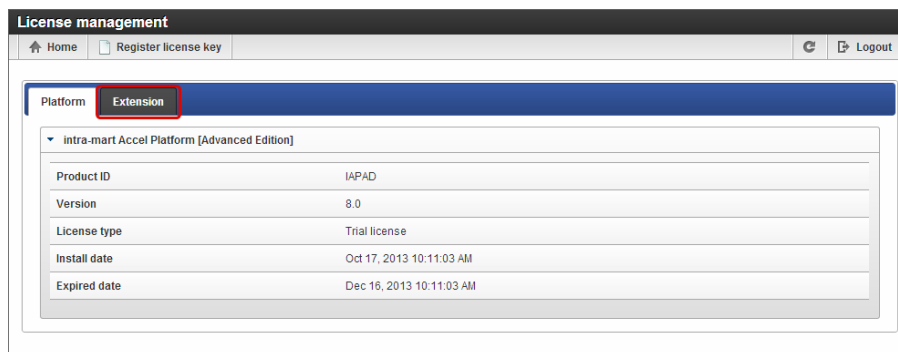
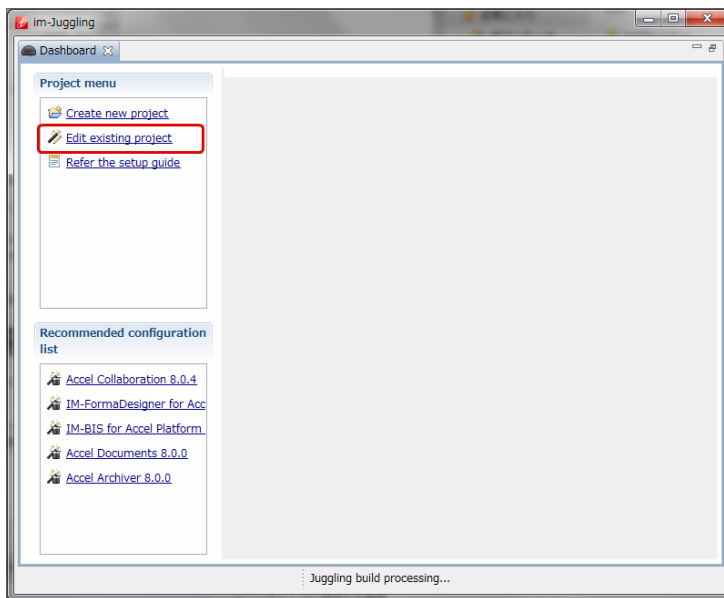4. Delete the license of IM-BIS for Accel Platform from the "Delete" icon of license key.
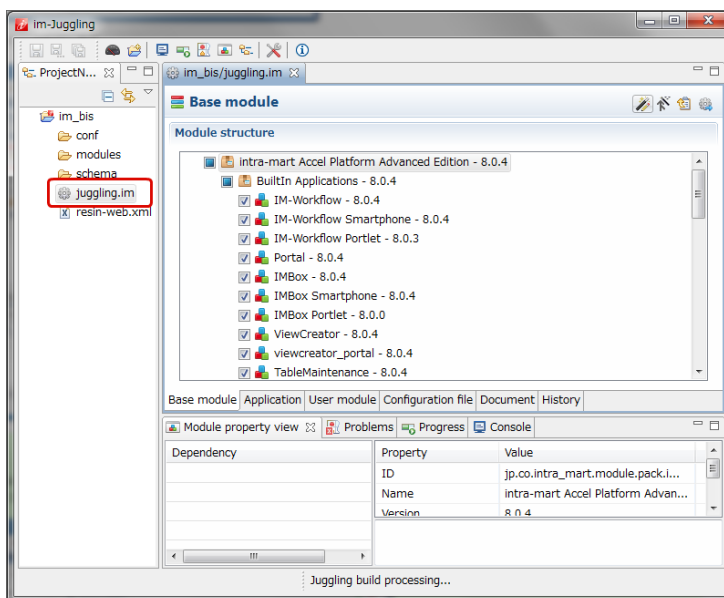

Stop, undeploy Resin

1. Stop Resin and undeploy 'war' by referring to *Start/End* .
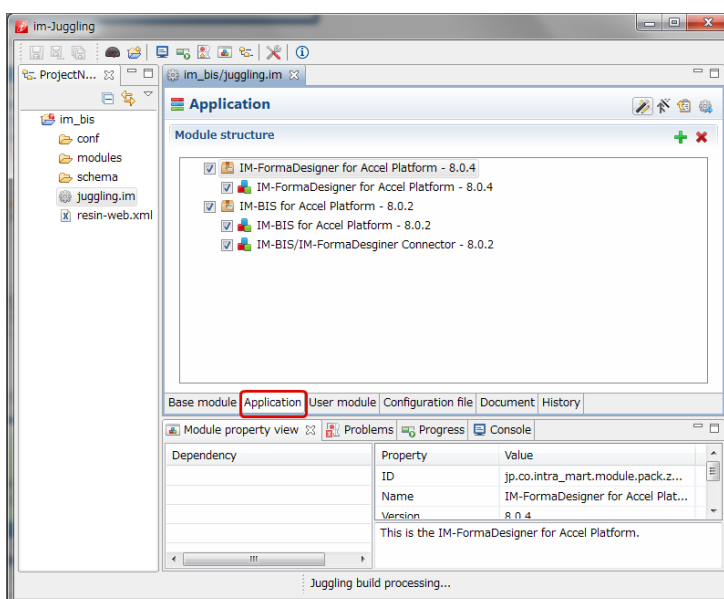
Recreate war file

1. Run juggling.exe.

2. Dashboard is displayed.
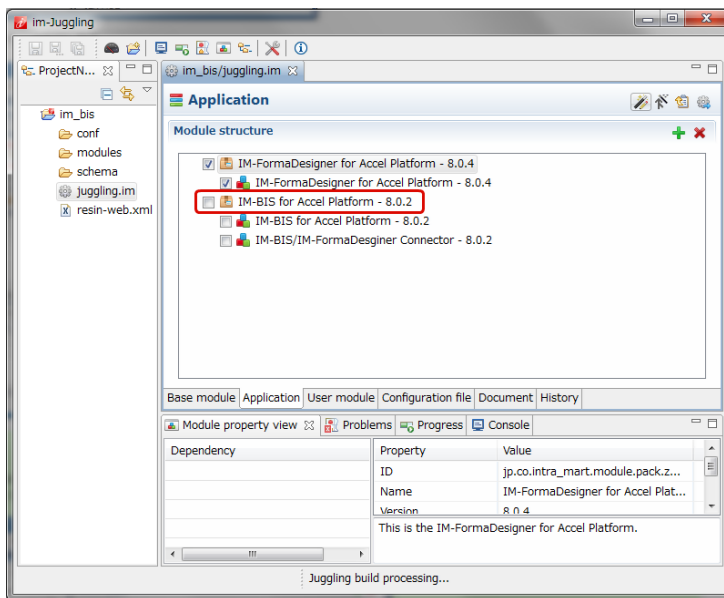   Select "Edit existing project".

3. Double click "juggling.im" which exists in the project during environment creation from Project Navigator.

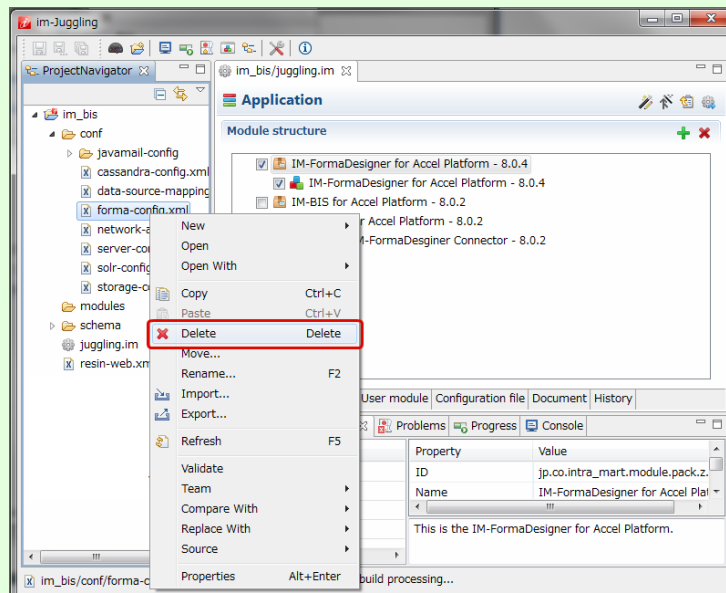4. Click "Application tab".

5. Uncheck IM-BIS for Accel Platform.

Note

If configuration file of IM-FormaDesigner for Accel Platform is output during environment creation, it should be deleted manually.
Select the file to be deleted and right click to delete.

6. Recreate war file by referring to *Export war file* .

Delete static files (While using Web server)

Output the static file by referring to *Export static file* .
Replace the output static file with the file placed on Web server.

Warning

If there exist files that are placed manually without using im-Juggling, place the files manually again after replacing.

Start, deploy intra-mart Accel Platform

1. Start Resin by referring to *Start/End* and deploy the re-created war file.