



# intra-mart WebPlatform/AppFramework

Version 7.1

Release Note

Second Edition: August 31, 2009

## 1 Introduction

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1. The intra-mart WebPlatform/AppFramework requires Java-VM.
2. Because the majority of the intra-mart WebPlatform/AppFramework is written in Java, the framework can run on any platform where the Java VM is supported.
3. Obtain separately the Java-VM required to run the intra-mart WebPlatform/AppFramework servers (Server Manager and Service Platform), and the intra-mart Administrator.
4. The operations of the intra-mart WebPlatform/AppFramework servers (Server Manager and Service Platform) have been verified using the environments described in [Verified Environments].
5. Suitable settings are required when installing the resources (memory, etc.) needed to run the intra-mart WebPlatform/AppFramework servers (Server Manager and Service Platform). The settings can be changed after installation, so perform suitable tuning according to the environment and conditions of use.
6. The system requirements described in this document do not assure performance. Suitable tuning is required according to the conditions of use and the system installed on the hardware operation system middleware, intra-mart WebPlatform/AppFramework. For details, consult your dealer.
7. Check with your product (application software) vendors regarding the operational environment information (resources, etc.) required to run the web server, database, and other modules.
8. The database is required for operations.
9. Use the JDBC driver, which is required to connect the database, that was supplied by your database vendors.
10. The words "deprecated" appear in the documents supplied by NTT DATA INTRAMART CORP., but this does not mean "not supported". Although supported, the support may cease in the future, and so "deprecated" is used in the meaning that using new functions and API is recommended.
11. Any items not described in the documents supplied by NTT DATA INTRAMART CORP. are not supported.
12. Refer to the following site for the latest technical and patch information for the product.  
Developer Support site: <http://www.intra-mart.jp/developer/index.html>
13. The latest documents concerning the product are available from the following site. Make sure to use the latest documents.  
Latest product information download page: <http://www.intra-mart.jp/download/product/index.html>
14. The products includes software developed using the following products. Refer to the license sheets for the software licenses.

OSS Products	Version	licenses	URL
Ant	1.7.1	ASL	<a href="http://ant.apache.org/">http://ant.apache.org/</a>
Apache Commons Collections (*1)	3.2.1	ASL	<a href="http://commons.apache.org/collections/">http://commons.apache.org/collections/</a>
Apache Commons Language (*1)	2.4	ASL	<a href="http://commons.apache.org/lang/">http://commons.apache.org/lang/</a>
Apache Commons Pool (*1)	1.3	ASL	<a href="http://commons.apache.org/pool/">http://commons.apache.org/pool/</a>
Apache Axis2	1.4.1	ASL	<a href="http://ws.apache.org/axis2/">http://ws.apache.org/axis2/</a>
bouncycastle	132	Original	<a href="http://www.bouncycastle.org/">http://www.bouncycastle.org/</a>
Eclipse BIRT (*1)(*2)	2.2	EPL	<a href="http://www.eclipse.org/birt/phoenix/">http://www.eclipse.org/birt/phoenix/</a>
Eclipse Language Pack	-	EPL	<a href="http://www.igapyon.jp/blanco/blanco.ja.html">http://www.igapyon.jp/blanco/blanco.ja.html</a>
Eclipse Platform	3.3.1.1	EPL	<a href="http://www.eclipse.org/">http://www.eclipse.org/</a>
FontBox	0.1.0	BSD	<a href="http://sourceforge.net/projects/fontbox/">http://sourceforge.net/projects/fontbox/</a>
Info-ZIP	-	Revised BSD	<a href="http://www.info-zip.org/">http://www.info-zip.org/</a>
iText	2.1.2	MPL	<a href="http://sourceforge.net/projects/itext/">http://sourceforge.net/projects/itext/</a>
iTextAsian	-	MPL	<a href="http://sourceforge.net/projects/itextpdf/">http://sourceforge.net/projects/itextpdf/</a>
JAF	1.1.1	Sun	<a href="http://java.sun.com/javase/technologies/desktop/javabeans/jaf/index.jsp">http://java.sun.com/javase/technologies/desktop/javabeans/jaf/index.jsp</a>
JavaMail	1.4.1	Sun	<a href="http://java.sun.com/products/javamail/">http://java.sun.com/products/javamail/</a>
JAXB (*1)(*2)	2.0.5	CDDL	<a href="https://jaxb.dev.java.net/">https://jaxb.dev.java.net/</a>
JCommon	1.0.15	LGPL	<a href="http://www.jfree.org/jcommon/">http://www.jfree.org/jcommon/</a>
JDOM	1.1	ASL	<a href="http://jdom.org/">http://jdom.org/</a>
Jericho HTML Parser	2.6	LGPL	<a href="http://jericho.htmlparser.net/docs/index.html">http://jericho.htmlparser.net/docs/index.html</a>
JFreeChart	1.0.12	LGPL	<a href="http://www.jfree.org/jfreechart/">http://www.jfree.org/jfreechart/</a>
juniversalchardet	1.0.3	MPL	<a href="http://code.google.com/p/juniversalchardet/">http://code.google.com/p/juniversalchardet/</a>
Logback	0.9.15	LGPL	<a href="http://logback.qos.ch/">http://logback.qos.ch/</a>
Maskat	2.0.0	ASL	<a href="http://maskat.sourceforge.jp/">http://maskat.sourceforge.jp/</a>
Metro	1.4	CDDL+GPL	<a href="https://metro.dev.java.net/">https://metro.dev.java.net/</a>
Mule (*1)	1.4.4	CPAL	<a href="http://www.mulesource.org/">http://www.mulesource.org/</a>
Netbeans Utilities API	7.10.1.1	CDDL	<a href="http://www.netbeans.org/index.html">http://www.netbeans.org/index.html</a>
Netbeans Visual Library API	2.9.1	CDDL	<a href="http://www.netbeans.org/index.html">http://www.netbeans.org/index.html</a>
OpenJPA (*1)	1.1.0	ASL	<a href="http://openjpa.apache.org/">http://openjpa.apache.org/</a>
OpenPortal	2.0	CDDL	<a href="https://portlet-container.dev.java.net/">https://portlet-container.dev.java.net/</a>
OpenPortal WSRP	1.0	CDDL	<a href="https://wsrp.dev.java.net/">https://wsrp.dev.java.net/</a>
PDFBox	0.7.3	BSD	<a href="http://incubator.apache.org/pdfbox/">http://incubator.apache.org/pdfbox/</a>
POI	3.2	ASL	<a href="http://poi.apache.org/">http://poi.apache.org/</a>
Xilinus Prototype Portal Class	1.1	MIT	<a href="http://xilinus.com/">http://xilinus.com/</a>
Prototype.js	1.6.0.3	MIT	<a href="http://www.prototypejs.org/">http://www.prototypejs.org/</a>
Rhino	1.6R2	MPL	<a href="http://www.mozilla.org/rhino/">http://www.mozilla.org/rhino/</a>
S2Container	2.4.34	ASL	<a href="http://s2container.seasar.org/2.4/ja/">http://s2container.seasar.org/2.4/ja/</a>
S2Dao	1.0.49	ASL	<a href="http://s2dao.seasar.org/ja/index.html">http://s2dao.seasar.org/ja/index.html</a>
S2Struts	1.3.1	ASL	<a href="http://s2struts.seasar.org/ja/">http://s2struts.seasar.org/ja/</a>

script.aculo.us	1.8.2	MIT	<a href="http://script.aculo.us/">http://script.aculo.us/</a>
Serp	1.14.2	BSD	<a href="http://serp.sourceforge.net/">http://serp.sourceforge.net/</a>
Simple Java toolkit for JSON	-	LGPL	<a href="http://www.json.org/">http://www.json.org/</a>
SLF4J	1.5.6	MIT	<a href="http://www.slf4j.org/">http://www.slf4j.org/</a>
Solr	1.3.0	ASL	<a href="http://lucene.apache.org/solr/">http://lucene.apache.org/solr/</a>
Struts	1.3.8	ASL	<a href="http://struts.apache.org/">http://struts.apache.org/</a>
TinyMCE	3.2.1.1	LGPL	<a href="http://tinymce.moxiecode.com/">http://tinymce.moxiecode.com/</a>
TopLink Essentials	2.0_58g	CDDL+GPL	<a href="https://glassfish.dev.java.net/javaee5/persistence/">https://glassfish.dev.java.net/javaee5/persistence/</a>
The Yahoo! User Interface Library (YUI)	2.4.1	BSD	<a href="http://developer.yahoo.com/yui/">http://developer.yahoo.com/yui/</a>

licenses	
ASL	Apache License, Version 2.0
BSD	Berkeley Software Distribution License
CDDL	Common Development and Distribution License Version 1.0
CPAL	Common Public Attribution License Version 1.0
EPL	Eclipse Public License - v 1.0
LGPL	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1
MIT	MIT License
MPL	Mozilla Public License, version 1.1
Sun	Sun Microsystems, Inc. ("Sun") SOFTWARE LICENSE AGREEMENT

\*1: Included in "Enterprise for BPM".

\*2: Included in the "BPM|Designer" for "Enterprise for BPM".

# 2 Version Upgrade Details

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The changes in this version are described below.

For function details, refer to the guides or the API list. For instruction on setting of the functions, refer to the guides or installation guide .

## 2.1 Basic Functions

1. A function that resides in the client task tray to display all intra-mart notification information has been added.
2. A full-text search function has been added.
3. A function to import and export database information to and from TableMaintenance in CSV format has been added.
4. A function to search table names has been added to TableMaintenance.
5. The graph creation module has been updated.
6. ViewCreator is now compatible with the new graph creation module.
7. A function to run SQL files on the StorageService has been added to the database operations (system administrator).
8. [List of menus by user] has been added to the group administrator functions.
9. A new main page pattern (MainPageSimple) has been added.
10. The group code is now initially displayed when registering a new private group.
11. An initial character search function has been added to the user search screen.

## 2.2 Access Security

1. A message customization function (to edit at will the screen captions and messages supplied as standard) has been added.
2. A password reminder function (to reset general user passwords that have been forgotten) has been added.
3. A login control function (to temporarily disable general user logins) has been added.
4. A menu control function (to temporarily disable general user menus) has been added.
5. The logo icons in the main screen top bar can now be specified from the group administrator's screen. The function to specify from the setting file has been removed.
6. The logo icons in the login screen can now be specified from the group administrator's screen.
7. A function has been added to prevent illegal access by entering the URL directly.
  - im-JavaEE Framework
  - Struts
  - Maskat
8. The shortcut access function is now compatible with the main page pattern.
9. File names are now initially displayed during access security import and export.

## 2.3 Portals

1. The intra-mart is now compatible with Portlet API 2.0 (JSR286). The following functions are supported.
  - Event functions
    - Processing between portlets in a coordinated manner
  - Common rendering parameters
    - Common input parameters between portlets
  - Portlet filter
    - Request filter settings for each portlet
  - Resource functions
    - Obtaining and displaying portlet data by blocks
2. The intra-mart is now compatible with WSRP v1.0 (i.e., portlets compatible with other WSRP servers can now be used through WebService). (WebPlatform only.)
3. A function to set editing privileges in the organization's portal and delegate administrative privileges to other users who are not creators has been added.
4. Access privileges can now be set for portlet mode.
5. Each individual user can now set freely portal column widths.
6. A function has been added to import and export portal-related information to and from the CSV files.
7. Individual users can now set URLs in the internet portlets.
8. A function has been added to enable group administrators to edit the details displayed in the Important notices portlets.
9. Multiple sets of links can be created and the link details can be edited for each individual portlet using the [Portlet for a Set of Links].
10. Each individual user can now set the number of items displayed in the RSS portlet.

## 2.4 BPM

1. The following databases are now supported.
  - DB2 9.5
  - PostgreSQL 8.3
2. The following web servers are now supported.
  - Internet Information Services 6.0
  - Apache 2.2.x
3. The BPM|Server is now round robin-compatible. Consequently, loads can be distributed among multiple BPM|Servers.
4. BPM|Designer and BPM|Server now support SSL.
5. The BPM|Server port number can now be specified.
6. The following functions have been added to the form output function.
  - Output by process
  - Output by task
  - Change so that risk and control can be distinguished at a glance
7. Operability of the Form Relation Editor has been improved.
  - Layout redesigned
  - Drag & Drop and Copy & Paste functions have been added.
8. A BAM function (to apply KPI (which are indices to quantify tasks) to task processes, and monitor in real time whether each task is running correctly) has been added.
9. A document workflow system connector (i.e., a connector for workflow system interoperation) has been added. Workflow system interoperation can now be achieved easily.
10. A "maturity inspection" function has been added.

## 2.5 Environment

1. The environment is now JDK1.6.0-compatible.
2. The following application servers are now supported.
  - JBoss Application Server 4.2.3GA
  - IBM WebSphere Application Server V7.0
  - Oracle WebLogic Server 10g Release 3
3. The following operating system is now supported.
  - Windows Server 2008
4. The following web server is now supported.
  - Internet Information Services 7.0
5. The following database is now supported.
  - Microsoft SQL Server 2008
6. The following browser is now supported.
  - Microsoft Internet Explorer 8
7. The following flash player is now supported.
  - Flash Player 10

## 2.6 API

1. File compression and decompression functions
  - `jp.co.intra_mart.common.aid.jdk.java.util.Archiver`
  - `jp.co.intra_mart.foundation.utility.Archiver4NetworkFile`
  - Archiver object
2. Password reminders
  - `jp.co.intra_mart.foundation.security.blockage.*`
  - PasswordReminderManager object
3. Login controls
  - `jp.co.intra_mart.foundation.security.blockage.*`
  - LoginBlockManager object
4. Menu controls
  - `jp.co.intra_mart.foundation.security.menu.control.*`
  - MenuControlManager object
5. TableMaintenance imports and exports
  - `jp.co.intra_mart.common.platform.database.io.*`
  - DatabaseExport object
  - DatabaseImport object
6. Plug-ins
  - `jp.co.intra_mart.foundation.plugin.*`
  - PluginManager object
7. Full-text searches
  - `jp.co.intra_mart.foundation.solr.*`
8. Access security
  - `jp.co.intra_mart.foundation.access_block.*`
9. Graph creation modules
  - `jp.co.intra_mart.foundation.chart.*`
10. Graph creation modules
  - `<imchart:chart>`
  - `<IMART type="chart">`
11. Others
  - `jp.co.intra_mart.foundation.service.client.application.rmi`
  - `jp.co.intra_mart.foundation.service.provider.application.rmi`

## 2.7 Others

1. The initial state of mobile access has changed. Initially, mobile access is disabled. To enable access, enable the client type "mobile" specified in <% Server Manager %>/conf/system.xml. For details, see the [Setup Guide].
2. The following environments are no longer supported.
  - JDK
    - JDK 1.5.0
  - Application servers
    - JBoss Application Server 4.2.2GA
    - IBM WebSphere Application Server 6.1
    - BEA WebLogic Server 10J
  - Flash Player
    - Flash Player 9

# 3 Software Package Functions Tables

The product functions that can be used depend on the software package type.

Check the license acquired, and look at the following table.

Functions not described in the table can be used with all software package types.

Function	Standard	Advanced	Enterprise
im-BizAPI	○	○	○
Access security functions	○	○	○
Portal functions	○	○	○
Application software configuration using script development models	○	○	○
Application software configuration using JavaEE development models	○	○	○
EJB server functions (*1)	○	○	○
Workflow system functions		○	○
Format Creator		○	○
BPM functions			○
ESB functions			○

\*1: EJB server functions are functions for WebPlatform (Resin) only.

For WebPlatform(JBoss)/AppFramework, this function is supplied by the web applications server.

Function	WebPlatform	AppFramework
intra-mart Administrator	○	○
Windows environment services (*1)	○	○
Standalone servers	○	○
Distributed system configuration using network servers	○	○
intra-mart HTTP Server functions (*2)	○	
WebServerConnector for using commercially-available web server products (*2)	○	
EJB server functions (*3)	○	

\*1: For AppFramework, the web application server provides this function.

\*2: This function is available with WebPlatform (Resin) only.

\*3: EJB containers can run only on Service-Platform on which Application-Runtime is running.

## 4 Compatible Standards Table

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Functions included with this product conform to the following standards.

<b>Function</b>	<b>Compliant Standard</b>
HTML (*1)	4.01
CSS (*1)	2.1
JavaScript (Server Side)	1.6
Java EE	1.4
Mail send function	SMTP (RFC821, 2045-2049)
Document Object Model	Level 2
Portal	Portlet API 2.0 (JSR286)
RSS (*2)	1.0, 2.0
BPEL	2.0
BPMN	1.1

\*1: "Compliant Standards" means standards to which the product screens conform.

It does not mean that the product supplies the implementation of the standards.

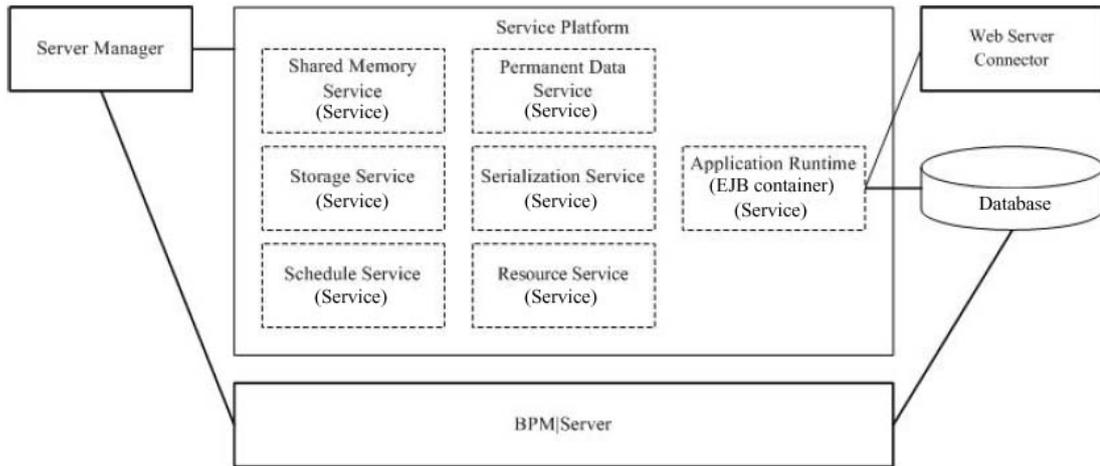
\*2: The RSS standard is supported by the RSS connection portlet that is included in the portal functions.

Functions to publish information conforming to RSS standards are not included in this product.

# 5 System Requirements

The intra-mart WebPlatform and intra-mart AppFramework can build a system not only on a single standalone server, but also in a distributed environment with multiple servers. Services can be flexibly assigned to the servers. The system provides various functions by all the services working together.

An example of operation environments is described below. (For a standalone server, excluding BPM|Server, operations are performed by a single hardware (server).)



\*1: For AppFramework, the web application server provides the function of EJB container (EJB server).

\*2: The WebServerConnector is supported with WebPlatform (Resin) only.

\*3: BPM|Server is supported with Enterprise for BPM only.

## 5.1 Server Requirements

The system requirements for each OS are described below.

The requirements below do not guarantee the constant performance. The actual performance depends on the server operating conditions.

### 5.1.1 WebPlatform/AppFramework (Excluding BPM|Server)

<b>OS</b>	Windows XP Professional* Windows Vista* Windows Server 2003 (SP2 or later recommended.) Windows Server 2008 RedHat Enterprise Linux Advanced Platform 5 Solaris 10 HP-UX11i v3 AIX 6.1	
<b>Hardware</b>	Windows	PC/AT-compatible devices (CPU clock speed of 1GHz or higher recommended.)
	Solaris	Sparc architecture machine models that can run Solaris (Ultra SparcII 650MHz or higher recommended.)
	Linux	PCs that can run Redhat Linux (CPU clock speed of 1GHz or higher recommended.)
	HP	PCs that can run HP-UX11i (CPU clock speed of 1GHz or higher recommended.)
	AIX	PCs that can run AIX (CPU clock speed of 1GHz or higher recommended.)
<b>Memory</b>	512MB of RAM min. (Additional memory is required to run the OS and other software.) 1GB or more recommended. <b>Caution:</b> If you intend to create application software that requires great amounts of memory to perform some operations, or there will be many users, more memory will be required. Calculate the required memory considering this point.	
<b>Hard Disks</b>	200MB ( <b>intra-mart</b> WebPlatform/AppFramework only) <b>Caution:</b> The hard disk space required during operations depends on the size of the system and the amount of registered data. Moreover, Storage Service and Permanent-Data Service require free hard disk space corresponding to the amount of managed data. Make sure to allocate sufficient space also for the log function and long-term operations.	
<b>Software</b>	Check the environment requirements.	

\*: Only DebugServer can be used.

### 5.1.2 BPM|Server

<b>OS</b>	Windows Server 2003 (SP2 or later recommended.) RedHat Enterprise Linux Advanced Platform 5 Solaris 10 HP-UX11i v3 AIX 6.1
<b>Recommended Environment</b>	For Windows Server 2003 (SP2) •Dual Xeon @ 2.8GHz •2G RAM •1GB HDD

### 5.1.3 BPM|Designer

<b>OS</b>	Windows XP Professional (SP2 or later recommended.) Windows Vista
<b>Recommended Environment</b>	Windows XP Professional (SP2) •Dual Xeon @ 2.8GHz •1G RAM •1GB HDD

## 5.2 Environment Requirements

The intra-mart WebPlatform/AppFramework supports the following environments.

### 5.2.1 Java-VM

Java-VM
Java Platform, Standard Edition 6 Development Kit (JDK 6), and compatible Java-VMs

### 5.2.2 Server (Server Manager and Service Platform)

OS
Windows Server 2003
Windows Server 2008
RedHat Enterprise Linux Advanced Platform 5
Solaris 10
HP-UX11i v3
AIX 6.1

### 5.2.3 Application Runtime (Application Program Runtime Engine)

Server Product		OS
<b>WebPlatform</b>	Resin 3.1	Windows Server 2003 Windows Server 2008 RedHat Enterprise Linux Advanced Platform 5 Solaris 10 HP-UX11i v3 AIX 6.1
	JBoss 4.2.3.GA	RedHat Enterprise Linux Advanced Platform 5
<b>AppFramework</b>	IBM WebSphere Application Server 7.0	*: Refer to the product platform specified by the manufacturer.
	Oracle WebLogic Server 10g Enterprise Edition Release 3 (10.3)	

## 5.2.4 Database

RDBMS Product
Oracle Database 10g Release 2
Oracle Database 11g Release 1
IBM DB2 9.5
Microsoft SQL Server 2005 SP2
Microsoft SQL Server 2008 SP1
PostgreSQL 8.3

## 5.2.5 Web Server Connector (WebPlatform (Resin) Only)

The WebServerConnector is not Java-based, and is run using executables that are dependent on the environment. Compile source files and run the executables according to the implementation environment used. NTT DATA INTRAMART CORP. supports operations in the environments described in the following table.

OS	Web Server Product	Connection Type
Windows Server 2003 (SP2 or later recommended.)	IIS 6.0	ISAPI (*1)
Windows Server 2008	IIS 7.0	ISAPI (*1)
Windows Server 2003 (SP2 or later recommended.) Windows Server 2008	Apache 2.2.x (DSO support version)	Embedded modules (mod)
RedHat Enterprise Linux Advanced Platform 5	Apache 2.2.x (DSO support version)	Embedded modules (mod)
Solaris 10	Apache 2.2.x (DSO support version)	Embedded modules (mod)

\*1: Precompiled files are supplied.

## 5.2.6 BPM|Server

OS	Web Server Product	Server Product	RDBMS Product
Windows Server 2003 RedHat Enterprise Linux Advanced Platform 5 Solaris 10 HP-UX11i v3 AIX 6.1	IIS 6.0 Apache 2.2.x (DSO support version)	Resin 3.1	Oracle Database 10g Release 2 DB2 9.5 PostgreSQL 8.3 Derby 10.3.3.0*

## 5.2.7

### **The intra-mart Administrator and External Software Connection Module**

(Unique API supplied by intra-mart)

Compatible with Sun JRE 1.6.0 or equivalent environment.

The intra-mart Administrator, however, is an interactive interface with the windows, so it is limited to environments that can display the windows.

## 5.3 Client Requirements

The primary user interface of the client is the web browser.

If custom application software has been built without using the standard product screens, this restriction does not apply. (There may be restrictions on some of the functions depending on the browser.)

Browser	OS
Microsoft Internet Explorer 6 SP1	Windows 2000
Microsoft Internet Explorer 6 SP2	Windows XP
Microsoft Internet Explorer 7.0	Windows XP Windows Vista
Microsoft Internet Explorer 8.0	Windows XP Windows Vista
Firefox 3.0	Windows XP Windows Vista

The following screens require **Flash Player 10**.

- Maintenance screens for system administrators (/system.admin) (Excluding certain screens.)
- Maintenance screens for login group administrators (/login-group-id.manager) (Excluding certain screens.)

The following screen requires **Java Plug-in 1.5.0 (Sun JRE 1.5.0) or later**.

- [Workflow system]-[Master maintenance]-[Process definition] flow edit screen

The following screen requires **SVG Viewer 3.0**.

- The [Diagram] tab in the [Process Details] and [Instance Details] screens from [BPM]-[Management]

Mobile phones that satisfy the following conditions are supported.

- NTT DoCoMo (FOMA) / au (WAP2.0) / SoftBank (3GC type)-compatible models
- XHTML-compatible models

## 5.4 Other Requirements

Some modules for special purposes have the following requirements in addition to the requirements described above.

<b>Module</b>	<b>Supported Environment</b>
Service creation programs for Windows	Windows Server 2003 Windows Server 2008
External software connection module	JRE 1.5.0

## 5.5 Verified Environments

The combinations of intra-mart products and middleware products by other companies whose operations have been verified (recommended) by NTT DATA INTRAMART CORP. are described below. NTT DATA INTRAMART CORP. supports the following environments, but is not responsible for problems caused by non-intra-mart products, such as OS, JDK, DB, or mail servers.

### 5.5.1 Service Platform and Server Manager

Server OS	Middleware
Windows 2008 Enterprise Server	Java SE Development Kit 6u12 for Windows x64
RedHat Enterprise Linux Advanced Platform 5	Java SE Development Kit 6u12 for Linux x64
Solaris 10	Java SE Development Kit 6u12 for Solaris x64
HP_UX11i v3	HP-UX JDK for the Java 2 Standard Edition platform Version 6.0.03
AIX 6.1	IBM 32-bit SDK for AIX, Java Technology Edition, Version 6

For intra-mart AppFramework, the environments in which the ApplicationRuntime can run depend on the specifications of the web application server products.

### 5.5.2 Web Server Connector (WebPlatform (Resin) Only)

Server OS	Middleware
Windows Server 2008	IIS 7.0
RedHat Enterprise Linux Advanced Platform 5	Apache 2.2.11 (DSO support version)

### 5.5.3 Application Runtime

intra-mart products	Web Application Server
intra-mart WebPlatform	Resin 3.1.9
	JBoss Application Server 4.2.3.GA
intra-mart AppFramework	IBM WebSphere Application Server Ver. 7.0.0.3
	Oracle WebLogic Server 10g Release 3 (10.3)

## 5.5.4 Database

Database	Server OS	Connection Method	Software Required for Connection
Oracle Database 11g Release 1	RedHat Enterprise Linux Advanced Platform 5	JDBC (Type 4, non-XA)	Oracle JDBC Driver 11.1.0.6 (ojdbc6.jar)
Oracle Database 10g Release 2	RedHat Enterprise Linux Advanced Platform 5	JDBC (Type 4, non-XA)	Oracle JDBC Driver 11.1.0.6 (ojdbc6.jar)
Microsoft SQL Server 2008	Windows 2008 Enterprise Server	JDBC (Type 4, non-XA)	Microsoft SQL Server JDBC Driver 2.0
IBM DB2 9.5	Windows 2003 Enterprise Server SP2 (R2)	JDBC (Type 4, non-XA)	DB2 JDBC Driver (belonging to IBM DB2 9.5) Type 4
PostgreSQL 8.3	RedHat Enterprise Linux Advanced Platform 5	JDBC (Type 4, non-XA)	postgresql-8.3-604.jdbc4.jar

PostgreSQL8.3 is verified with Unicode only. If PostgreSQL8.3 uses other text encoding, the text may be corrupted.

## 5.5.5 Verification Environments

No	Web/Application Server	Server OS	JDK	Database	Server OS
1	intra-mart WebPlatform (Resin)	Solaris 10	Java SE Development Kit 6u12 for Solaris x64	Oracle Database 10g Release 2	RedHat Enterprise Linux Advanced Platform 5
2	intra-mart WebPlatform (JBoss)	RedHat Enterprise Linux Advanced Platform 5	Java SE Development Kit 6u12 for Linux x64	PostgreSQL 8.3	RedHat Enterprise Linux Advanced Platform 5
3	IIS 7.0 (WebServer Connector) + intra-mart WebPlatform (Resin)	Windows 2008 Enterprise Server	Java SE Development Kit 6u12 for Windows x64	Microsoft SQL Server 2008	Windows 2008 Enterprise Server
4	IBM WebSphere Application Server Ver. 7.0	AIX 6.1	IBM 32-bit SDK for AIX, Java Technology Edition, Version 6	IBM DB2 9.5	Windows 2003 Enterprise Server SP2 (R2)
5	Oracle WebLogic Server 10g Release 3 (10.3)	HP_UX11i v3	HP-UX JDK for the Java 2 Standard Edition platform Version 6.0.03	Oracle Database 11g Release 1	RedHat Enterprise Linux Advanced Platform 5
6	Apache 2.2.11 (WebServer Connector) + intra-mart WebPlatform (Resin)	RedHat Enterprise Linux Advanced Platform 5	Java SE Development Kit 6u12 for Linux x64	Oracle Database 11g Release 1	RedHat Enterprise Linux Advanced Platform 5

No	BPM Server	Server OS	JDK	Database
1	BPM Server (Resin)	RedHat Enterprise Linux Advanced Platform 5	Java SE Development Kit 6u12 for Linux x64	Oracle Database 10g Release 2
2	BPM Server (Resin)	Windows 2003 Enterprise Server SP2 (R2)	Java SE Development Kit 6u12 for Windows x64	Oracle Database 10g Release 2

### 5.5.6 Client

The client operations have been verified for the following environments. (A browser version whose operations have been verified is recommended.)

- Windows XP + Microsoft Internet Explorer 7.0
- Windows Vista + Microsoft Internet Explorer 7.0
- Windows XP + Microsoft Internet Explorer 8.0
- Windows Vista + Microsoft Internet Explorer 8.0
- Windows XP + Firefox 3.0
- Windows Vista + Firefox 3.0

The operations of the flow edit screen for workflow systems have been verified for the following environments.

- Windows XP + Microsoft Internet Explorer 7.0 + Java Plug-in 1.6.0\_12
- Windows Vista + Microsoft Internet Explorer 7.0 + Java Plug-in 1.6.0\_12
- Windows XP + Microsoft Internet Explorer 8.0 + Java Plug-in 1.6.0\_12
- Windows Vista + Microsoft Internet Explorer 8.0 + Java Plug-in 1.6.0\_12
- Windows XP + Firefox 3.0 + Java Plug-in 1.6.0\_12
- Windows Vista + Firefox 3.0 + Java Plug-in 1.6.0\_12

The operations have been verified for the following mobile phones.

- NTT DoCoMo P703iμ
- au W51P
- SoftBank 902SH

### 5.5.7 LDAP Servers for Access Security Authentication

- Sun Java System Directory Server 5.2
- Microsoft Windows Server 2003 Active Directory

# 6 Restrictions

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## 6.1 Common

1. Database configuration for the intra-mart WebPlatform/intra-mart AppFramework supplied with this product may change without notice during version upgrades and revisions. Be careful of the following points.
  - Shortening the database definitions field size may cause defective operations.
  - If a database configuration has been changed, transferring data during version upgrades (revisions) may cause problems.
  - Performing coding that is dependent on the database configuration may lose compatibility in the source code during version upgrades (revisions). Use the product API for data I/O. (This restriction does not apply to searching application common masters.)
  - Version upgrades (revision) and patches add and update the source files. Please note that customized sources may damage compatibility during links with other programs.
2. If installing other software on an environment operating this product, malfunctions may be caused depending on the DLL version.
3. Character encoding and file access may be affected by the OS and other factors.
4. Single-byte hiragana and katakana characters must not be used.
5. End-user-defined characters must not be used.
6. The intra-mart HTTP Server functions are intra-mart WebPlatform (Resin) functions. Use with the intra-mart WebPlatform (JBoss) and intra-mart AppFramework is not possible.
7. The intra-mart HTTP Server functions of intra-mart WebPlatform (Resin) are simple HTTP servers for the sole purpose of running the intra-mart WebPlatform. There are no equivalent functions to other HTTP servers, such as SSL or CGI.
8. WebServerConnector is an intra-mart WebPlatform (Resin) function. Use with the intra-mart WebPlatform (JBoss) and intra-mart AppFramework is not possible.
9. Service Platform or Application Server start and stop functions using intra-mart Administrator are intra-mart WebPlatform (Resin) functions. Use with the intra-mart WebPlatform (JBoss) and intra-mart AppFramework is not possible.
10. When stopping ApplicationRuntime, a ServerManager error may occur, but this problem does not affect the operation.
11. Due to the differences between Unicode and other character codes, failures and character corruption may occur if searching data using a screen created using Flash and a screen created using `<IMART type="jsspRpc">`, and other screens.
12. If opening a shortcut access URL from an intra-mart screen using the shortcut access function, a session error will occur in the caller screen (i.e., the screen displaying the shortcut access URL).
13. Changes made by the "group administrator" using the account settings screen are not immediately reflected in the accounts of users who are logged in. (The changes will be reflected the next time the user logs in.) For example, after logging in as a user, even if logging in as "group administrator" using a separate browser and changing the user's expiry date to an invalid date, the user can simply move to another page from the menu and continue processing.
14. Some functions are normally disabled when transferring information that associates accounts with roles to other storage. If installing your own access security components, make sure to also leave the standard installation and to save the data to the database. (Be careful when synchronizing the data.)
15. The intra-mart WebPlatform and intra-mart AppFramework administration messages are shared throughout the system. (Message data is managed by the properties file. The properties file is centrally managed by being placed in the ServerManager. Displayed messages are not switched for each login group, so messages such as "Registering data failed.", for example, cannot be changed to "Information registration failed" in login group A and "Data registration error" in the login group B. It is necessary to consider separating message IDs by login group.)

16. If program updates are not reflected in the script development model source, restart ApplicationRuntime. If the updates are still not reflected even after restarting the ApplicationRuntime server, delete the work/jssp directory and then restart ApplicationRuntime. If the source updates are still not reflected, there may be a problem with the file location. Review the file location.
17. If ApplicationRuntime auto-restarts frequently in environments on which the Java program's auto-compile function is enabled, the ApplicationRuntime operation may be unstable. If so, restart ApplicationRuntime.
18. The server is initialized when accessed for the first time after starting ApplicationRuntime. This may take several minutes. In addition, processing such as compilation of JSP occurs when accessed for the first time, so the response may take several minutes.
19. Function performance (API and screens) may be reduced in proportion to the amount of data registered to the database and Permanent-data Service.
20. The Permanent-Data Service creates data files after the file output delay time has elapsed once a data storage request has been received. If the Permanent-Data Service is stopped after the operation to store the data is performed but before the delay time has elapsed, the data will not be written to the file, and will not be reflected upon the next startup. The Permanent-Data Service should be stopped using any of the following methods.
  - Using the [Stop] button of intra-mart Administrator
  - Stop the Permanent-Data Service once sufficient time has elapsed after all processes in which the Application-Runtime runs have stopped. (For a standalone server, after all actions for web requests and batch programs have ended.)
21. In the initial status after installation, log outputs using commons-logging and log4j are output via SLF4J and Logback. If using commons-logging and log4j, the settings performed using log4j.properties and log4j.xml must be set using the logback settings file.
22. To run the log4j-specific appenders, filters, and PropertyConfigurator, it is necessary to stop using the SLF4J bridge library.
23. The intra-mart Administrator log browsing function displays files on the /log directory under the ServerManager and ServicePlatform installation directories.

## 6.2 Environment

1. Double-byte characters cannot be used in the host name of the server running intra-mart.
2. Double-byte characters cannot be used in the name of the user who starts the intra-mart service on the server running intra-mart.
3. Zero kilobyte files saved to the StorageService in environments using IIS on the web server cannot be downloaded.
4. If installing and using StorageService on Windows OS, the following problems may occur if the user ID and login group ID are case sensitive when registered.
  - When the intra-mart software package, including the intra-mart WebPlatform/intra-mart AppFramework or application software such as the Start Pack, saves an e-mail attachment to a file, the user ID and login group ID may be used in the file name and folder name. Consequently, if the user ID and login group ID are case sensitive when registered, different user information will be output to the same file. (This is because the Windows OS file systems are not case sensitive with file and folder names.)  
 E.g.: If "master" and "MASTER" are used as separate user IDs, the contents of the e-mail attachment of the "master" and the contents of the e-mail attachment of the "MASTER" will be written to the same file.
5. If operating each intra-mart server as a service using Windows OS, logging out from the OS will stop the server processing. This can be avoided using the following settings.
  - Use the intra-mart Administrator to add "-Xrs" to the JAVA option settings on each server. (You can also open the settings file conf/imart.xml, and add "-Xrs" to the JAVA option settings (in the <option> tag in the <java> tag) on each server.)
6. If using with a UNIX OS, set the language environment variables to Japanese. Otherwise, corrupted screens will be displayed. (During the initial display, the following errors might occur, but the display will be corrected after displaying it several times.)  
 A system processing error has occurred.  
 EUCJP-OPEN  
 jp.co.intra\_mart.framework.system.exception.SystemException: EUCJP-OPEN
7. If using HP-UX11i, the OS will use port number "49152", so if Server Manager has been installed (including with standalone models), the network port settings will conflict and server startup may be disabled. Be careful when setting the port number during installation.
8. During server operations using HP-UX11i, the error "Java.lang.OutOfMemoryError: unable to create new native thread" may occur. This error can be prevented by increasing the setting value of the "max\_thread\_proc" kernel parameter. The setting value depends on the use conditions and environment.
9. Port number "8080" will be used if Oracle is used as a database and is installed using the standard installation method, so if Application Runtime has been installed to the same computer (including standalone models), the network port settings may conflict and server startup disabled. Be careful when setting the port number during installation.
10. Please consider the following points when installing to a distributed environment.
  - Set the clocks on all PCs (i.e., the PC system clocks) to which the application software has been installed. If the system clocks are different for each PC, or the time is greatly different, the application software and server processes cannot run correctly.
  - Using the same Java-VM version (and revisions) for all server processes is recommended.
  - Using the Java-VM supplied by a single vendor for all server processes is recommended.
11. If a hardware malfunction (physical layer network disconnection, etc.) occurs in a distributed environment, before repairing the hardware, stop the intra-mart processes on the hardware (if intra-mart processes are running).
12. If using the application lock function on a distributed environment, a deadlock may occur on the system depending on the setting values and operating conditions, thus increasing the response time. Set the pool setting value for the Application Runtime network connection (intra-mart/platform/network/client/connection) to be greater than or equal to the total number of lock IDs being used by the application lock. In addition, set the number of Serialization Service threads executing simultaneously (intra-mart/platform/network/server/threads) to a value greater than or equal to the total of the setting value of the Application Runtime network connection pool. (The settings are written in the conf/imart.xml settings file in each Service Platform.) The relevant APIs are described below.

Script development model	Lock
JavaEE development model	jp.co.intra_mart.foundation.service.client.information.Lock

13. If performing login authentication using Microsoft Active Directory, authentication is possible even with passwords that were changed to the current password in addition to the valid current password. Obsolete passwords are considered valid and authenticated by the Active Directory for 60 minutes after the password has been changed, so this behavior is expected in the Active Directory product specifications (as of July 7, 2008). This behavior can be prevented by setting the Active Directory password history to 0. (The default is 24.) (The OS must be restarted after the settings have been changed.)
14. If using a Java-VM server HotSpot (a function that optimizes the execution of Java programs, so improved performance can be expected. Enabled by specifying the -server option during Java-VM startup), the application program may be halted due to an unexpected error. (Occasionally, the server may also crash.) For stable server operation, run the Java-VM processes without specifying the -server option.
15. If a value other than zero has been specified as the optimization level for the JavaScript compiler option (on the server), the application program may be halted due to an unexpected error. In particular, if using JavaScript compiler optimization and an optimization function of Java-VM such as HotSpot or JIT at the same time, the possibility of an unexpected error will increase.
16. If using "Xerces" as an XML processor, the XSLT processor must be replaced with "Xalan". Possible effects must be considered before replacing the XML processor implementation. Please note that if a defective operation or other problem due to the replacement XML processor implementation occurs, NTT DATA INTRAMART CORP. cannot offer support.
17. If operating using SUN JDK, server operations can be improved by specifying the following suitable setting values. NTT DATA INTRAMART CORP. recommends adding these setting values as part of tuning the operating environment.
  - XX: PermSize
  - XX: MaxPermSize
  - XX: NewSize
  - XX: MaxNewSize
  - XX: SurvivorRatio
  - XX: TargetSurvivorRatioThese are parameters concerning memory use for the java command options supplied by SUN JDK.  
For the relevant information, see the following URL.  
<http://www.intra-mart.jp/download/doc/OutOfMemoryError.html> (As of May 1, 2009.)
18. If using the dual login function in an environment that uses the session failover function, the dual login function may be temporarily disabled.
19. If the TCP connection between the ServerManager and ServicePlatform is disconnected, a network error will occur. For example, this is relevant if there is a device in the network configuration that disconnects the TCP connection automatically when there are no communications. NTT DATA INTRAMART CORP. does not recommend using intra-mart on such network environments.

## 6.3 WebPlatform

1. The http session timeout time can be delayed by up to one minute.
2. If using the session failover function with intra-mart WebPlatform (JBoss), the dual login prevention function cannot be used.
3. If using the intra-mart WebPlatform (JBoss), "EOFException" will be output to the Server Manager when JBoss stops. The operations will not be affected.
4. If all of the following conditions are satisfied in an environment using intra-mart WebPlatform (Resin), sending files to the browser may corrupt the files.
  - Wraps the HttpServletResponse in the filter
  - Specifies a double-byte charset in the contentType attributes in the JSP page directive
  - Implements ServletOutputStream#write()  
To avoid this problem, call ServletResponse#reset() before ServletResponse#getOutputStream().
5. If using the EJB server functions, the following filters must be disabled.
  - jp.co.intra\_mart.system.servlet.RequestMessageBodyFilter
  - jp.co.intra\_mart.system.servlet.LuxuryResponseWriterFilter
6. If using "Enterprise for BP", the following error message may be output to standard error outputs during initial WSRP function access. This is the warning message from OpenJPA and this warning does not affect operations.  
"WARNING: Found unrecognized persistence provider  
"jp.co.intra\_mart.foundation.portal.wsrp.common.spi.ImEntityManagerFactoryProvider"  
in place of OpenJPA provider. This provider's properties will not be used."
7. If using the session failover function (memory to memory) in an environment using intra-mart WebPlatform (Resin), an inconsistency may occur in the session data. This problem is not fixed in Resin 3.1.x. For details, see the following URL.
  - <http://bugs.caucho.com/view.php?id=3460>

## 6.4 AppFramework

1. If the Java-VM JIT compiler is enabled on an environment using IBM's Java-VM as the operating environment, application programs may be halted due to unexpected errors. (Occasionally, the server may crash.) The phenomena observed are "ClassCastException occurred" and "NoClassDefFoundError occurred". For stable server operations, disable the JIT compiler.
2. If using Oracle's Java-VM as the operating environment, the application program may be halted due to an unexpected error. (Occasionally, the server may also crash.) The phenomena observed are "Functions created using JavaScript do not return correct return values" and "JavaScript regular expression objects cause errors during execution". For stable server operation, use the JDK supplied by SUN Microsystems.
3. If using WebLogic as the operating environment and using the script development model, the ServletException thrown when a runtime error occurs cannot be handled by error pages, so error messages and exception stack traces will not be displayed on the screen.
4. If using WebSphere as the operating environment, "No load strategy is available" will be output during deployment, but this will not affect operations.
5. If using WebSphere as the operating environment, the message "cannot delete WEB-INF/lib/\* .jar from temporary directory" will be displayed during undeployment, but this will not affect operations.

## 6.5 Database

1. The implementations (e.g. functions and screens) supplied with intra-mart are not compatible with XA data sources.
2. If an exception occurs in a connection within the same transaction, closing the connection will not return the connection to the connection pool. Return to the pool occurs when the transaction is closed. If an SQL exception occurs within the same transaction, be careful if continuing to issue SQLs. If the number of occurrence is more than the max-connections setting, connections will become unobtainable. Responses from the server will stop. (The server will enter wait mode.)
3. If using Microsoft SQL Server as a database, the following APIs in the script development model will not function.
  - DatabaseManager#execStoredFunc()
  - DatabaseManager#execStoredProc()
4. If using Microsoft SQL Server as a database, performing installations using case-sensitive settings (i.e., creating the database using case-sensitive settings) is recommended.
5. If using Microsoft SQL Server as a database, performance may worsen if java.sql.PreparedStatement is executed. Performance may be improved by adding the following settings. Consider using these settings in case there are performance problems.

Settings examples of adding parameters to the data source

Settings file: conf/http.xml

```
<database>
...
  <driver>
    ...
    <init-param SendStringParametersAsUnicode="false" />
    ...
  </driver>
  ...
</database>
```

Please note that if the character encoding displayed in the browser and the character encoding in the database are different, however, it may cause character corruption.

6. If using Microsoft SQL Server as a database, a deadlock may occur in the list screens supplied by the workflow system, such as Unprocessed and Processed. In such cases, consider changing the Microsoft SQL Server transaction isolation level.
7. Even with characters within the range of the Unicode that can be used, there are characters such as "~" that are not converted correctly between character codes due to limitations in the Java character code conversion function. Please note that if a different client character code from the server character code is specified during installation, the possibility of character corruption will increase.

8. There is the problem of some characters being corrupted by implementing JDBC, which is supplied by the database vendors.
- The character corruption can be reduced by configuring the database using Unicode. NTT DATA INTRAMART CORP. has verified that characters dependent on the models described above are not corrupted when Oracle is configured using Unicode.
  - NTT DATA INTRAMART CORP. has confirmed that the following double-byte characters are corrupted (i.e., replaced with "?") when using the following drivers.

◇ **List of Characters Corrupted when Using Oracle JDBC Drivers**

```
// -
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑳
I II III IV V VI VII VIII IX X
ミリ キロ セン メー グラ トン アー ヘク リッ ワツ カロ ドル セン パー ミリ ベー
      トル ム ン ル ター トル ト リー フル セント セント バル ペー
mm cm km mg kg cc m2 ㄱ
No. KK TEL
ㄱ ㄴ ㄷ ㄹ ㅁ
(株) (有) (代) 明治 大正 昭和 平成
$ Σ ⊥ ∟
```

◇ **List of Characters Corrupted when Using MS-SQL Servers JDBC Drivers**

```
~ // -
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑳
I II III IV V VI VII VIII IX X
ミリ キロ セン メー グラ トン アー ヘク リッ ワツ カロ ドル セン パー ミリ ベー
      トル ム ン ル ター トル ト リー フル セント セント バル ペー
mm cm km mg kg cc m2
ㄱ
ㄱ
No. KK TEL
ㄱ ㄴ ㄷ ㄹ ㅁ
(株) (有) (代) 明治 大正 昭和 平成
$ Σ ⊥ ∟
```

◇ **List of Characters Corrupted when Using DB2 UDB JDBC Drivers**

```
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑳
I II III IV V VI VII VIII IX X
ミリ キロ セン メー グラ トン アー ヘク リッ ワツ カロ ドル セン パー ミリ ベー
      トル ム ン ル ター トル ト リー フル セント セント バル ペー
mm cm km mg kg cc m2
ㄱ
ㄱ
No. KK TEL
ㄱ ㄴ ㄷ ㄹ ㅁ
(株) (有) (代) 明治 大正 昭和 平成
$ Σ ⊥ ∟
```

◇ **List of Characters Corrupted when Using PostgreSQL JDBC Drivers**

```
~ // -
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑳
I II III IV V VI VII VIII IX X
ミリ キロ セン メー グラ トン アー ヘク リッ ワツ カロ ドル セン パー ミリ ベー
      トル ム ン ル ター トル ト リー フル セント セント バル ペー
mm cm km mg kg cc m2
ㄱ
ㄱ
No. KK TEL
ㄱ ㄴ ㄷ ㄹ ㅁ
(株) (有) (代) 明治 大正 昭和 平成
$ Σ ⊥ ∟
```

## 6.6 JavaEE Development Model

1. Some im-JavaEE Framework functions (service framework) cannot be used in a batch program.
2. If using the Hotdeploy function, auto DI and aspects cannot be used on im-JavaEE Framework components.
3. If setting multiple character encodings for one locale, the character encoding for screens created using JSP will not be changed even if the character encoding changes. When using JSP, the character encoding follows the definitions on the page directive.
  - Page directive example

```
<%@ page contentType="text/html; charset= Windows-31J" pageEncoding="Windows-31J" %>
```

## 6.7 Script Development Model

1. Some Japanese (double-byte characters) in the settings file (\*.ini) obtained using the script development model API System.getValue() method will be corrupted. (Only when the character encoding of \*.ini files is SJIS (MS932).)

## 6.8 Maskat

1. If configuring application software using maskat, specify "UTF-8" for all character encodings.
2. When displaying screens created using maskat, client-side JavaScript and browser cookies must be used.
3. When displaying screens created using maskat, cookies must be used for session administration.

## 6.9 Browser

1. Do not use the [Back] and [Forward] buttons of the browser in the browser screens supplied with this product.
2. Browser screens supplied with this product use client-side JavaScript. With normal PC connections, enable client-side JavaScript. (Excluding connections using mobile phones.)
3. Browser screens supplied with this product require cookie functions. With normal PC connections, enable cookies. (Excluding connections using mobile phones.)
4. Do not select [Detect automatically] for browser display language settings (encoding). It has been verified that the possibility of character corruption using [Japanese (auto select)] is relatively small.
5. Normally, user sessions are managed using browser cookies. If running multiple instances of the same browser on one PC, the screens will not operate correctly if logged in simultaneously.
6. Microsoft Internet Explorer and Firefox process style sheets differently, so the image displayed on the screen may be different (e.g. Firefox does not display gradations, and text area characters are enlarged). Style sheet interpretation depends on the browser implementation. Please note that differences in display caused by the different interpretation by the browser are not due to intra-mart product implementation.
7. If using Firefox, style sheet warnings are output to the browser error console, but there will be no operational problems.
8. If Microsoft Internet Explorer is used and the security settings level is high, client-side JavaScript functions will be disabled.
9. If Microsoft Internet Explorer is used and the privacy settings level is high, cookie functions will be disabled.
10. If using Microsoft Internet Explorer, the status bar may continue to operate even when the screen display has ended.

11. If using Microsoft Internet Explorer file download function, the download may fail, or the client-side JavaScript operations become disabled after a successful download. If client-side JavaScript becomes disabled, reload the screen, and then restart the work.
12. If using Microsoft Internet Explorer to download an Excel file, opening the file may fail. This is due to the length limits to the name of the files Excel can open. For details, see the following URL.  
<http://support.microsoft.com/default.aspx?scid=kb:ja:JP416351> (As of May 1, 2009.)
13. If using Windows Internet Explorer 7.0 on a computer running Windows XP, you may not be able to download some files. For details, see the following URL.  
<http://support.microsoft.com/kb/932823/ja> (As of May 1, 200.)
14. If enlarging or reducing the page using the zoom function in Microsoft Internet Explorer 7.0, some web pages may not be displayed correctly. For the relevant information, see the following URL.  
<http://support.microsoft.com/kb/933053/ja> (As of May 1, 2009.)
15. If only the return key has been entered while working in a screen with a submit button in the browser, the form may be sent without clicking the submit button (depending on the browser software's operating specifications). Please note that a runtime error may occur if the program does not check the content of submitted forms.
16. If the temporary internet files (cookies) have the following settings while operating the "privilege settings list" used in the access controller settings screen or other screens, the images may not be displayed.
  - Setting : Check for newer versions of stored pages
  - Set value: Every visit to the pageTo resolve this problem, set to [Automatically].
17. If using Microsoft Internet Explorer 8, web pages may not be displayed correctly if explicitly set to [document mode: Internet Explorer 8 (standard)].

## 6.10 Application common master

1. Organizational migration across companies cannot be performed in company and organization master maintenance using the application common master.
2. Group migration across groups on hierarchical level 1 cannot be performed in public group master maintenance using the application common master.
3. Migration of users to other organizations cannot be performed in company, organization, and public group master maintenance using the application common master.
4. If there is too much data registered to the application common master, the organizational tree display in the user and organization search screens will be slow. Performance can be improved by using the page refresh method using links (set in the intra-mart/platform/service/application/tree-view setting in conf/imart.xml) instead of the standard tree view.
5. Keyword searches (including "Reading" searches) in the user search screen take longer to process if there is more data. If the data volume is large, search users from organizations and public groups.

## 6.11 Portals

1. If placing broad portlets to narrow areas, the entire layout will be destroyed. Make sure to follow the recommended size of the portal placement area.
2. Even if set not to display the portlet titles, the title bar will continue to be displayed to enable drag-and-drop.
3. The JSR168 and JSR286 portlets, which are available to the general public, may depend on the environment. Depending on portlets, unintended operations may occur.
4. The Google gadget portlet may also depend on the environment. Depending on the Google gadget, unintended operations may occur.
5. If the application common master has been updated, it is possible that an inconsistency in the access privilege information will occur. Portals and portlets need modifications if individual access privileges are set.
6. If the same portlet has been placed multiple times within the same page, they may not operate correctly.
7. Performing drag-and-drop operation repeatedly may cause a browser script error. Subsequent operations will be unaffected, but the tag order and portlet placements may not be saved. If this happens, refresh and review the display.
8. As the open source library is used, some error messages may be displayed in English.
9. The intra-mart AppFramework cannot use portlets of Portlet API 1.0/2.0 (JSR168 and JSR286).
10. WSRP functions cannot be used in the intra-mart AppFramework.
11. If using `<IMART type="jspRpc">` in the portlet, the following CSJS must be defined for each portlet using the `<script>` tag.
  1. `<script language="javascript" src="/imart/csjs/im_json.js"></script>`
  2. `<script language="javascript" src="/imart/csjs/im_ajax_request.js"></script>`
  3. `<script language="javascript" src="/imart/csjs/im_jssp_rpc.js"></script>`
  - \* If the context path is "/imart"

## 6.12 Workflow System Modules

1. If anything other than Oracle is used as a database, running multiple database operations simultaneously may cause the database to deadlock. If this happens, the message [The process is currently overloaded. Execute the process again.] will be displayed.
2. If using IBM DB2 as a database, use a 64 bit-compatible OS.
3. Microsoft Office Excel is required to import and export process definitions using the [Workflow system]-[Import/Export]-[Process definitions] screen.
4. If the "Enable use of servlet cache" setting has been enabled in an environment that uses WebSphere in the web application server, process definitions cannot be imported or exported.
5. Some workflow system screens (e.g., the settings screen) use Java Web Start. Consequently, the Java Plug-in is required.
6. Environments used via a proxy server may not display the workflow system maintenance screen. Refer to the error guide for the avoidance procedure.
7. Implementing [Edit (route settings)] for a flow in the [Workflow system]-[Master maintenance]-[Process definitions] screen will install the workflow system designer (EclipseRPC). During initial startup of the terminals, the workflow system designer (EclipseRPC) will be downloaded, so startup may take some time.
8. If implementing [Edit (route settings)] for a flow in the [Workflow system]-[Master maintenance]-[Process definitions] screen, [Cannot start application software] may be displayed. Please try it again. If this problem persists, delete the cache from the temporary internet files on the basic tab of Windows [Settings]-[Control Panel]-[Java].

9. The workflow system designer cannot be deleted from Windows [Settings]-[Control Panel]-[Add/Remove Programs]. Delete the workflow system designer manually. Refer to the following URL.  
[http://bugs.sun.com/bugdatabase/view\\_bug.do?bug\\_id=6587168](http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6587168)
10. If the Java Plug-in for the terminals (clients) is "JRE 1.5.x" on an environment using an IIS web server, the workflow system designer may be disabled. If this happens, use "JRE 1.6.x".
11. Mail addresses used by template mail functions sent from the workflow system module use "mail address 1" only, which is set in the user profile. "Mail address 2" is not used.

## 6.13 Format Creator

1. The format creator does not support the process type "business process workflow systems" of the workflow system module.
2. The HELP screen, which can be called from any screen, does not support color pattern changes.
3. The client-side JavaScript is used frequently in the [Format Creator]-[Master maintenance]-[Application maintenance] screen. If the machine specifications used for the client are insufficient, operational delays will occur.
  - Verified client environment: CPU Intel(R) Celeron(R) processor 1.70GHz
  - During the relevant operations, although the CPU usage is high, the memory usage is not high.
  - The recommended physical memory of the client machine is 256MB or more.
4. The range of characters that can be specified in [Item ID] in the items placed in the application is "A to Z", "a to z", and "0 to 9".
5. If allocating "Combo box", "Check box", or "Radio button" to an application, the range of characters that can be specified in the internal code is "A to Z", "a to z", and "0 to 9".
6. Unless the [Register] and [Update] buttons are pressed in "function to add approver's notes to the application during the deliberation task", the required item checks and input checks will not be performed.
7. Adobe Reader is required to display PDF files displayed by PDF outputs.
8. The size of the "columns" specified using the layout settings is not reflected in applications displayed using PDF outputs.
9. Applications with numerous cells may not be output correctly (i.e., may not fit on the page) if using PDF outputs.
10. If flow information is output simultaneously using PDF outputs, the flow information may not be output correctly (i.e., may not fit on the page) if process definitions with many tasks have been set.
11. Values of 17 or more digits entered when combining both "integer and decimals" using the values set in the items for PDF outputs will not be displayed correctly.
12. If using Microsoft Internet Explorer 6, the browser may be forced to terminate while using the [Format Creator]-[Maintenance]-[Application maintenance] screen. If this happens, use another browser.

## 6.14 Table Maintenance

1. Table maintenance cannot handle binary.
2. If data long enough to cause an overflow is entered for the field size in the [Edit table] screen, an error message will be returned by the database and displayed.
3. If using Microsoft SQL Server as a database, Timestamp type fields cannot be edited.
4. If using IBM DB2 as a database, and if the binary data (BLOB, CLOB) is included in the data for export, zero is the only value that can be set in the [Output start record position] option.

## 6.15 View Creator

1. The same column cannot be set multiple times in the [Extraction conditions] during data reference creation (List tabulation) using the ViewCreator function. If the same column is set multiple times, perform refinement using the [Extraction conditions] when creating a query.

## 6.16 IM-ContentsSearch

1. The number of documents that can be registered to a Solr server using the IM-ContentsSearch function is 20,000 max. To remove the limit to the number of documents that can be registered to the Solr server, purchase a separate IM-ContentsSearch license.

## 6.17 Web Service

1. For restrictions on web services, see [Limitations] in the web service programming guide.

## 6.18 BPM|Server

1. A separate installer is used to install the BPM|Server.
2. If the WebPlatform/AppFramework IP address, HTTP service port number, or context path are changed, the BPM|Server must be reinstalled.
3. If the BPM|Server IP address or HTTP service port number is changed, the BPM|Server must be reinstalled.
4. The length of user account passwords must be within the range of one to 12 bytes.
5. The length of login group IDs must be within the range of one to 15 bytes.
6. If using Oracle as a database, the filter function cannot be used in the list of instances in the menu [BPM]-[Administration].
7. The following IDs and codes are all handled in lower case on the BPM|Server.
  - Account IDs
  - Company codes
  - Organization codes
  - Role IDs
  - Public group set codes
  - Public group codes
  - Job title codes

- A) If deploying processes that include initial processing tasks, they cannot be deleted from the process list even if they are undeployed in the menu [BPM]-[Administration].
- B) WSDL links for processes deployed as a WebService will not be displayed correctly. For the correct URL, refer to [BPM|Designer Operations Guide 2.4.3 WebService Process WSDL].
- C) If deploying processes in a distributed environment, the number of BPM|Servers running must be one or less. If deploying processes while multiple BPM|Servers are operating, the process status may not be synchronized between the BPM|Servers.
- D) The report output format for BAM is supported for PDF operations only. If using an OS other than Windows, there is a possibility of character corruption if output in Word, PowerPoint, or Excel format.

## 6.19 BPM|Designer

1. The "Upload" component cannot be used in the workflow system form editor.
  2. "PAGE NOT AVAILABLE" may be displayed during initial access after starting the server using the administration screen (bpms-console). (The display will be corrected after multiple accesses.)
  3. If using the "link" component in the workflow system form editor, the default URL value must be set in the property view.
  4. If linked to an external WebService in the BPM process, privileges will be cleared when the WSDL or other files are edited.
  5. Changing the pool font in property view will also change the fonts for risks and controls placed to the pool.
  6. The fonts for the individual risks and controls cannot be changed using property view.
  7. The "Title" display in the property view may disappear when performing the following operations. (This will not affect the operation of the process.)
    - Select either the xform or imform task, and then select the workflow system tab in the property view.
    - Select the pool in which the task is located.
- A) A single .xform or multiple .imform files cannot be placed within one process (.bpm file). It is necessary to prepare as many .xform and .imform files as there are human tasks to be allocated.
  - B) Xform and imform, which are allocated as initial processing tasks within deployed processes, cannot be changed as described below.
    - .xforms
      - The files cannot be replaced with other .xform or .imform files.
    - .imforms
      - The "path" cannot be changed.
      - The files cannot be replaced with other .xform or .imform files.
  - C) If the name space used in wsdl:input and sdl:output does not match the name space used in wsdl:fault in the WebService, WSDL files cannot be imported from BPM|Designer.
  - D) When using PDF output functions with RCM, the PDF cannot be output if there is a project located other than in the workspace specified at BPM|Designer startup.

## 6.20 ESB Mule

1. ESB Mule does not have an installer. To use ESB Mule, unzip and use the enclosed (ZIP) file.
2. The ESB Mule enclosed with the product is the community version. If used in a production environment, upgrading to the paid Enterprise version is recommended. Operations monitoring and other function can be used with the Enterprise version.

## 6.21 Others

1. Detailed exception handling is not performed in sample programs.
  2. Sample data cannot be entered at the same time as sample data for other products. Moreover, once entered, sample data cannot be deleted at once. To delete sample data at once, reinstall and reconfigure the database.
  3. The following file operation samples are incompatible with operations using Japanese file names.
    - [Sample]-[Script development model]-[File operation]
    - [Sample]-[JavaEE development model]-[File operation]
- A) The following sample screens use the database.
- [Sample]-[Script development model]-[Shopping cart]
  - [Sample]-[Script development model]-[Shopping cart [maskat]]
  - [Sample]-[JavaEE development model]-[Shopping cart]
  - [Sample]-[JavaEE development model]-[Shopping cart [maskat]]
- B) The workflow system sample programs use the database.
- C) The following samples will operate only in environments where "UTF-8" has been specified in the "Character encoding for sending to web browsers" and "Server module character encoding".
- [Sample]-[Script development model]-[Shopping cart [maskat]]
  - [Sample]-[JavaEE development model]-[Shopping cart [maskat]]
- D) If the following sample screens are displayed using Firefox, a warning will be output to the log, but this will not cause operational problems.
- [Sample]-[Script development model]-[Shopping cart [maskat]]
  - [Sample]-[JavaEE development model]-[Shopping cart [maskat]]
- E) If the following sample screens are displayed using Microsoft Internet Explorer, a runtime error may occur in environments where the "Character encoding for sending to web browsers" has been configured as "UTF-8". If a runtime error occurs, right-click on the screen, select [Encode]-[Others]-[Unicode (UTF-8)], and then change the browser encoding.
- [Sample]-[Script development model]-[Shopping cart [maskat]]
  - [Sample]-[JavaEE development model]-[Shopping cart [maskat]]
- F) Event navigator samples use workflow system sample data. In the standard version, you cannot proceed when the navigation result link is clicked. In the standard version, use the link to check the event navigator functions.

# 7 Known Issues to Date

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1. It has been confirmed that operational malfunctions occur in the administration console when started from the menu [BPM]-[Administration]. Patches and revisions will be provided in the future.
2. It has been confirmed that operational malfunctions occur with the "Attach file" function (i.e., the clip icon at the top of the screen) in the XForm screen. When attaching files, using the relation form is recommended.
3. eBuilder is required to use the DebugServer. As of May 1, 2009, eBuilder is not compatible with DebugServer. An eBuilder patch will be provided in the future.
4. The socket timeout time (cluster/server-default/socket-timeout) setting is not valid in environments using the intra-mart WebPlatform (Resin). A patch will be provided in the future. Refer to the following URL.  
<http://bugs.caucho.com/view.php?id=3458>
5. If HTTP session fault tolerance is enabled in environments using the intra-mart WebPlatform (Resin), automatic login authentication will be disabled. A patch will be provided in the future. Refer to the following URL.  
<http://imfaq.intra-mart.jp/imfaq/index.php?action=artikel&cat=28&id=512&artlang=ja>

# 8 Copyright and Particulars

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Please refer to the included software license sheets.

End

## 9 Revision History

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Revision date	Revision details
2009/05/01	First edition
2009/08/31	<b>Version 2</b> <ul style="list-style-type: none"><li>● "HP-Unix" support environment was not deleted from [5.2.5 Web Server Connector (WebPlatform (Resin) Only)].</li><li>● The following restrictions have been added.<ul style="list-style-type: none"><li>➤ 6.2 Environment - 19</li><li>➤ 6.3 WebPlatform - 7</li><li>➤ 6.11 Portals - 11</li><li>➤ 6.12 Workflow System Modules - 10, 11</li><li>➤ 6.13 Format Creator - 12</li></ul></li><li>● [7 Known Issues to Date - 5] has been added.</li></ul>

# 10 Appendix

## 10.1 Password Reminder



## 10.2 Login Control



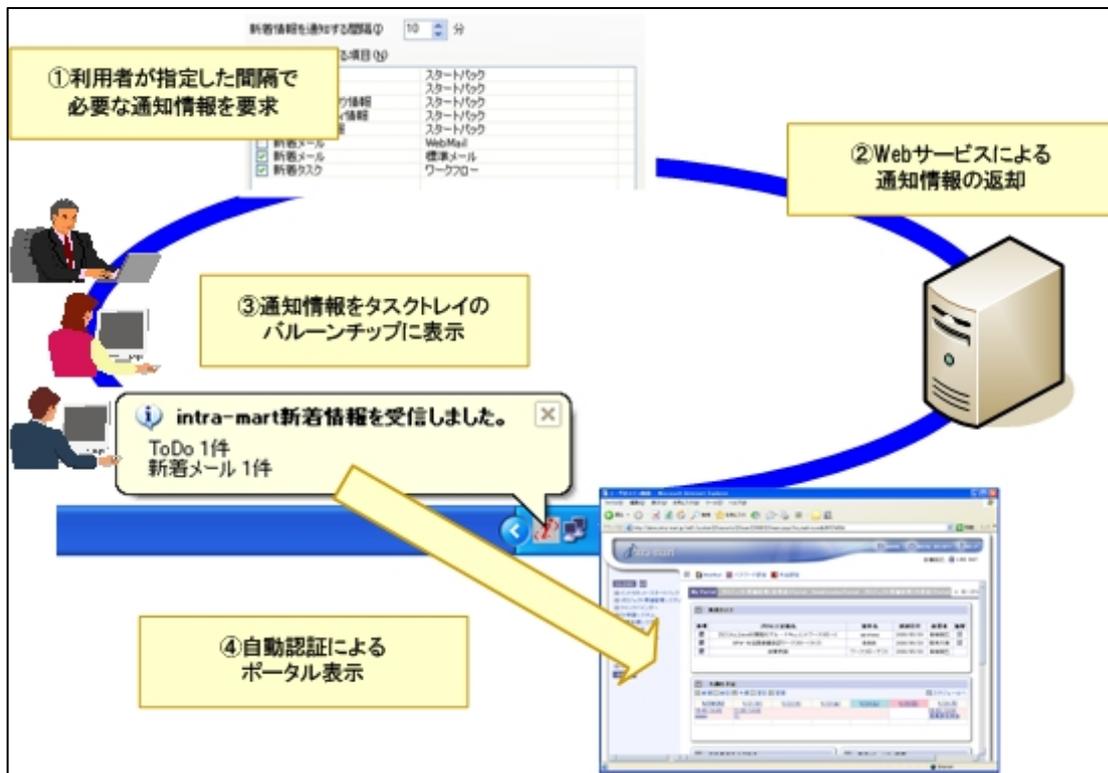
### 10.3 Menu Control



### 10.4 Logo Control



## 10.5 Client Notification



## 10.6 Full-Text Search

グループポータル ポータル タブの追加

リンク集

intra-martリンク

- NTTデータイントラマートのホームページ
- intra-mart FAQ
- OPEN INTRA-MART

文書検索

検索条件

すべてのキーワードを含む

フレーズを含む

クリア

いずれかのキーワードを含む

キーワードを含めない

文書種別

表示条件

表示件数: 10件

要約の表示:  表示する  表示しない

検索 検索オプションを隠す

検索結果

文書種別結果の表示

1 **【スケジュール】 タイトル: ABC会議**

参加者: 青柳, 円山, 原田

日時: 2009/02/02|13:00:00 から 2009/02/02|15:00:00 場所: テレビ会議室

要約: ABC会議 ([ワークフロー](#))

2 **【ワークフロー】 案件名: 【本物】ビジネスプロセスワークフロー**

プロセス定義: ビジネスプロセスワークフロー

起票日: 2009/02/28 起票者: 青柳辰巳

要約: ビジネスプロセス [ワークフロー](#)

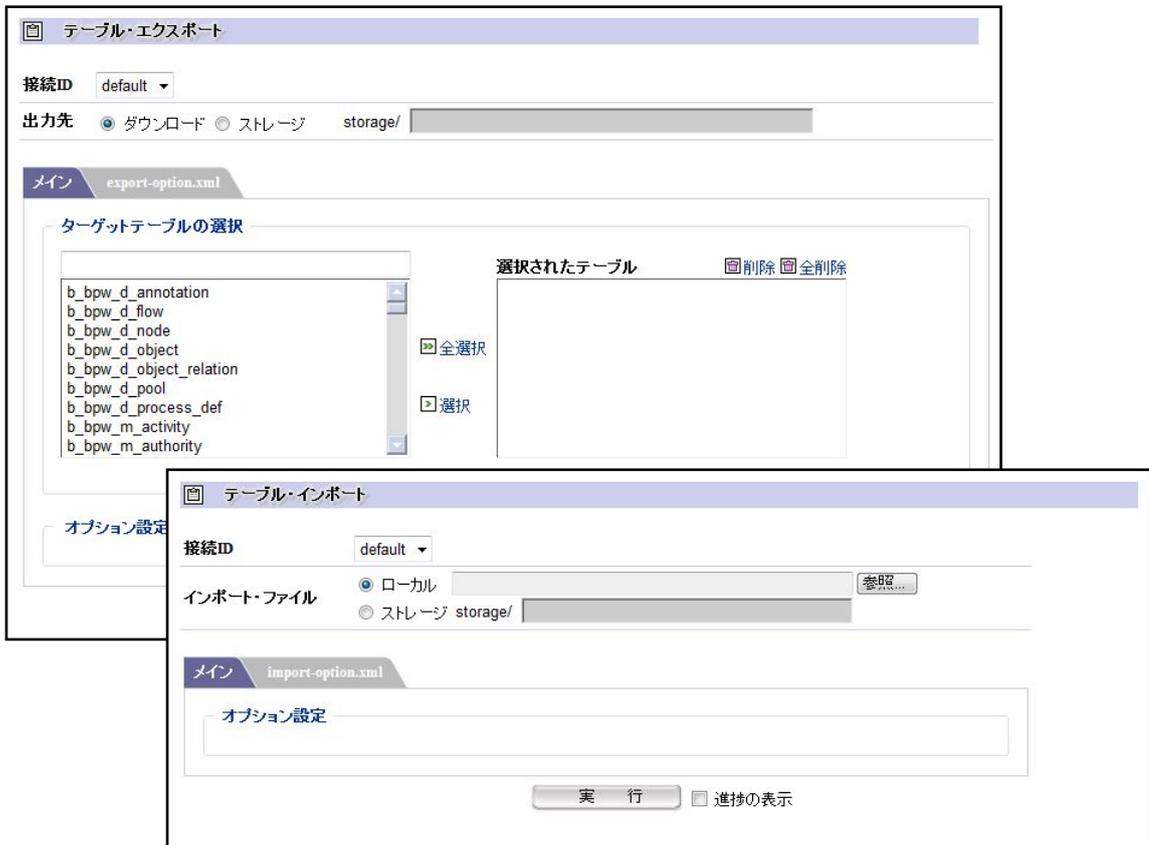
3 **【ワークフロー】 案件名: ルート選択があるプロセス[1]件目**

プロセス定義: [カスタム]JavaEE開発モデル - ドキュメントワークフロー-4

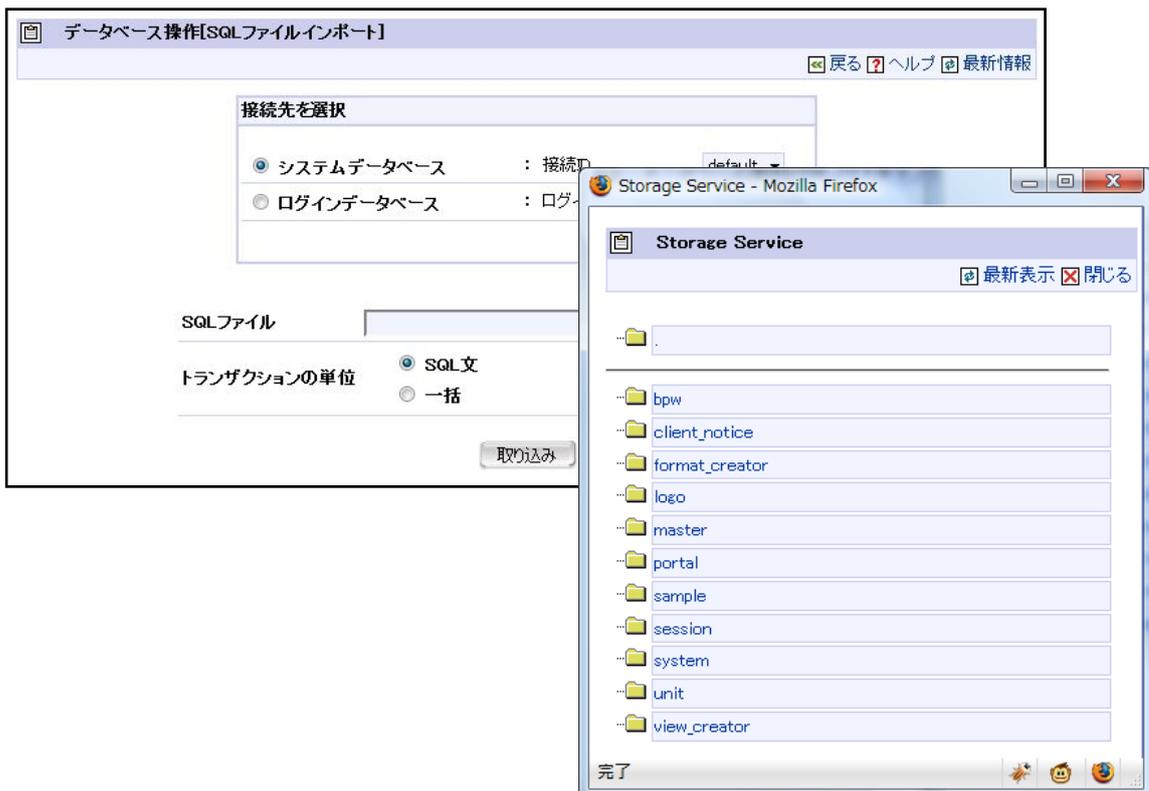
起票日: 2009/02/27 起票者: 大槻博文

要約: [カスタム]JavaEE開発モデル - ドキュメント [ワークフロー](#)-4

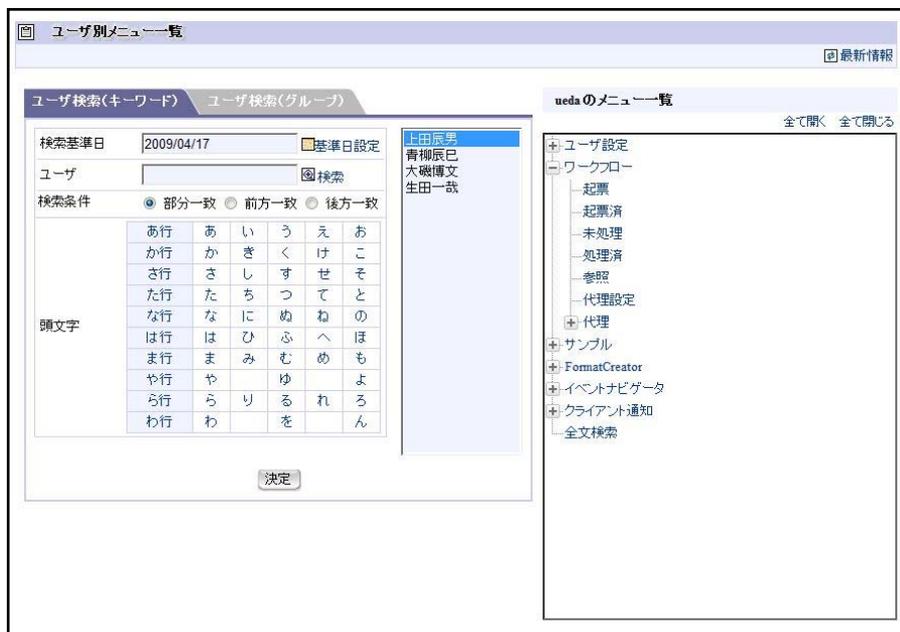
## 10.7 TableMaintenance Imports and Exports



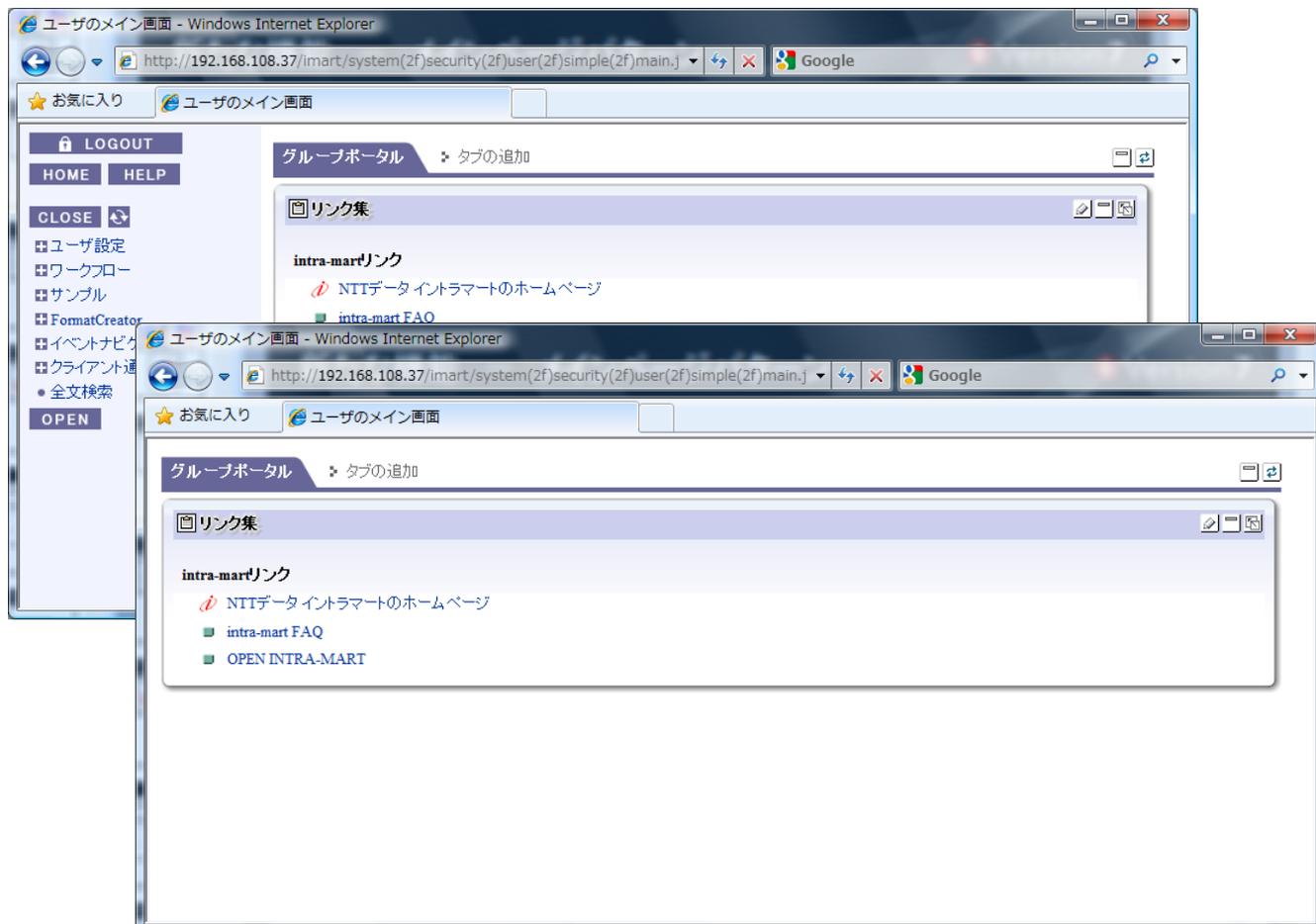
## 10.8 Database Operations



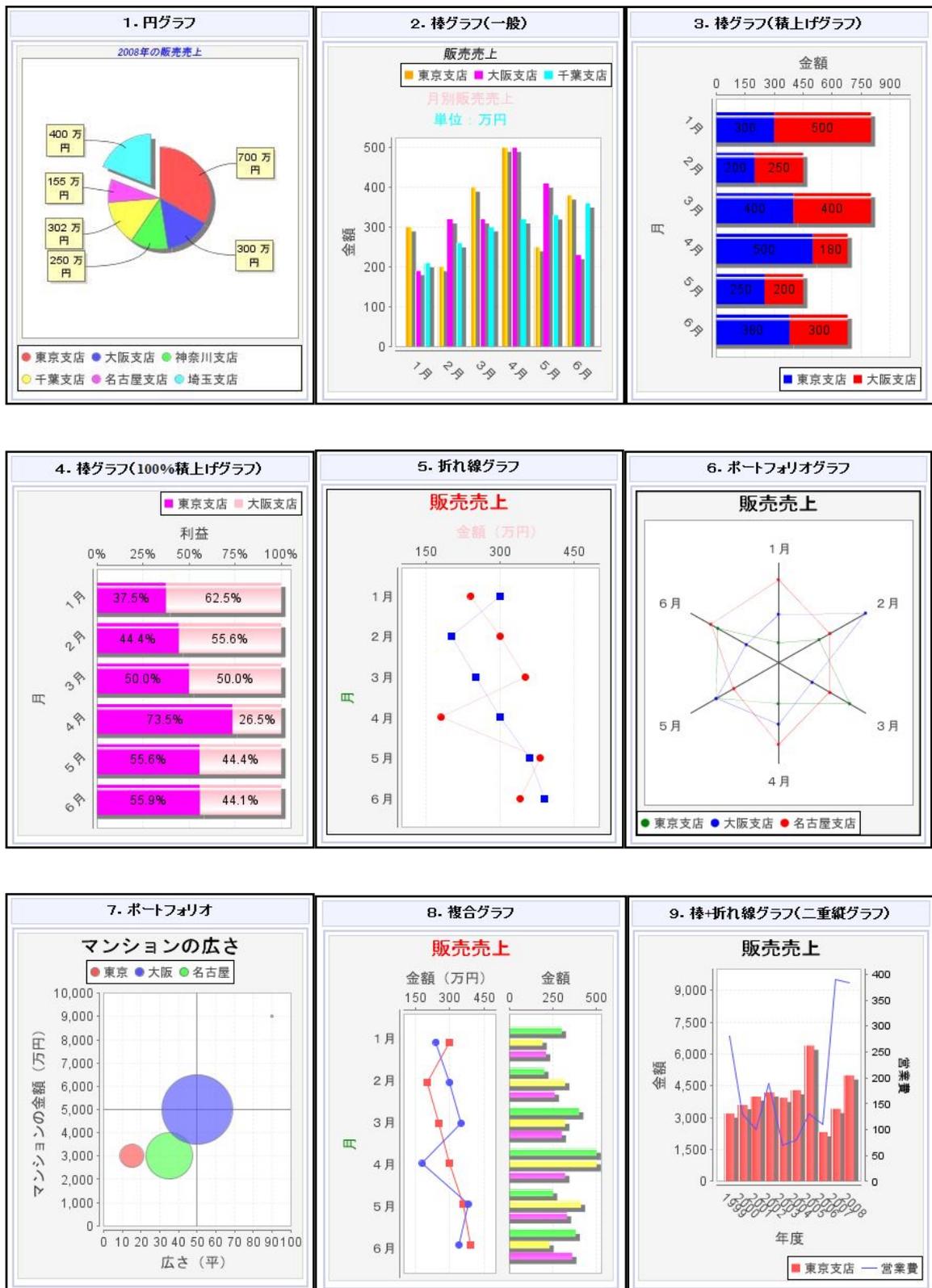
## 10.9 List of Menus by User



## 10.10 Main Page Pattern



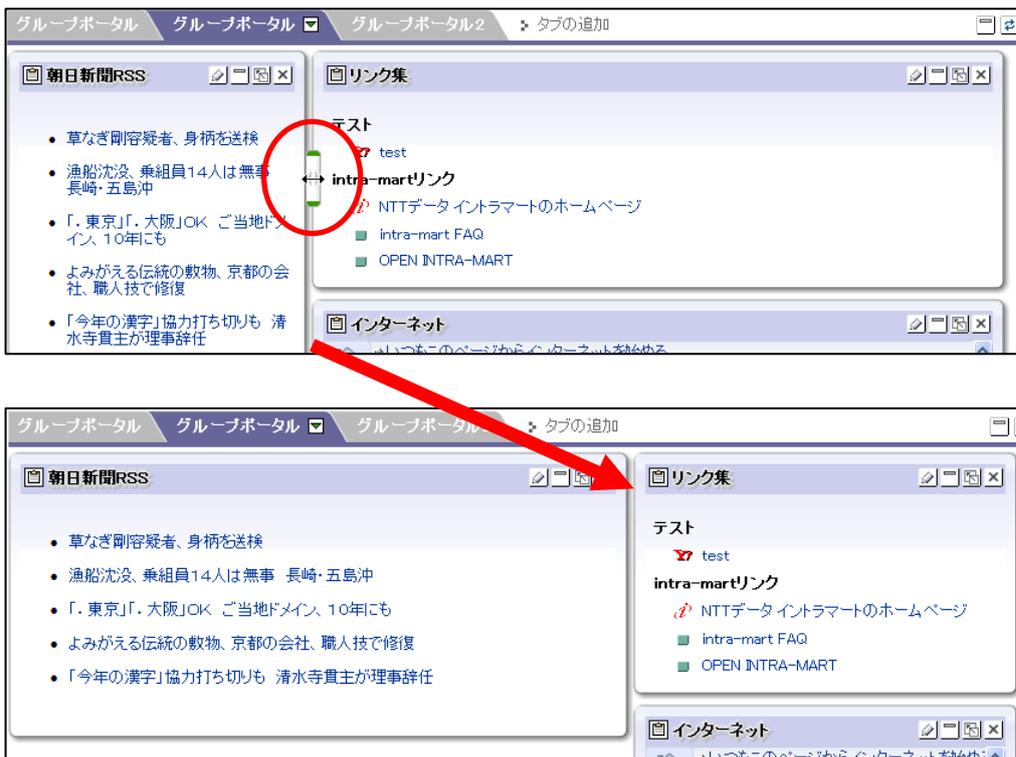
## 10.11 Graph Creation Module



## 10.12 JSR286 Event Functions (Images)



## 10.13 Changing Layouts



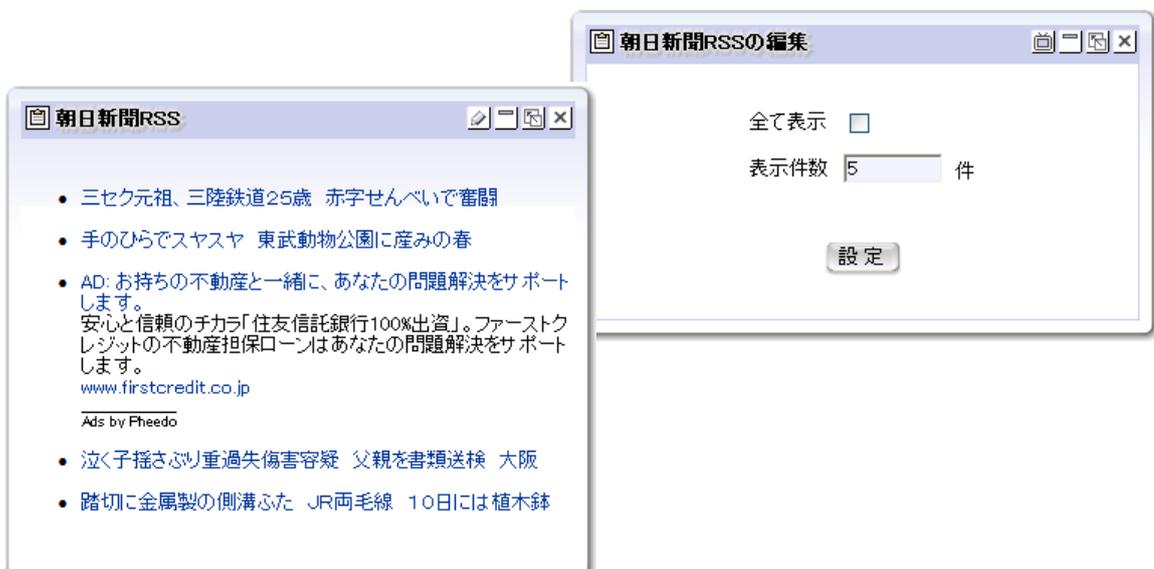
## 10.14 Internet Portlets



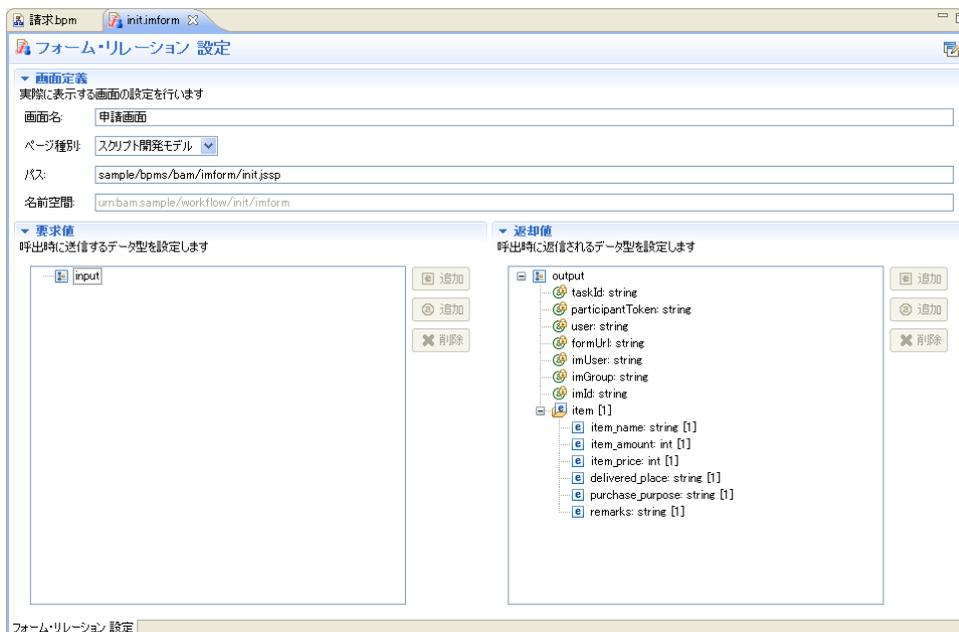
## 10.15 Set of Links



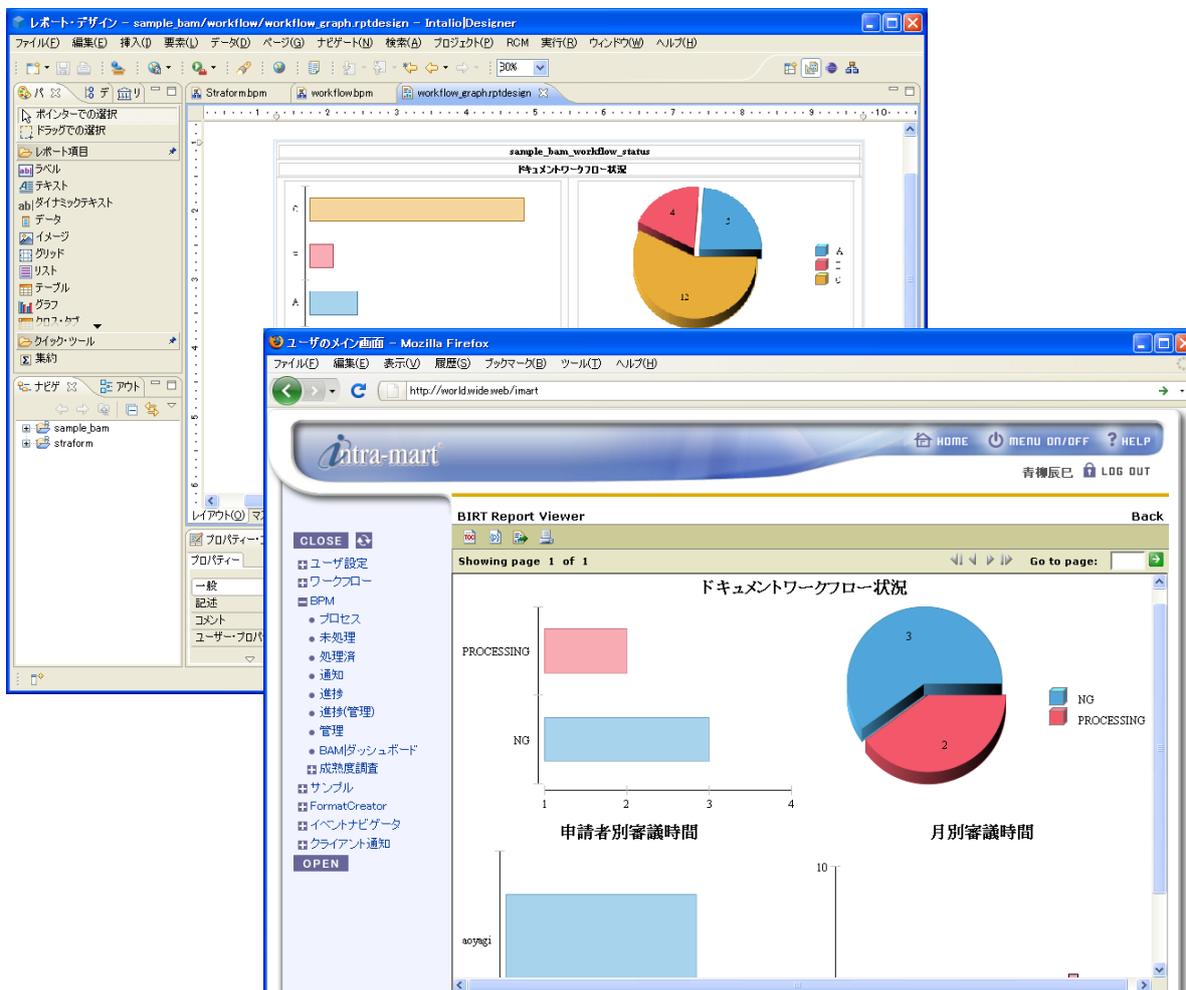
## 10.16 RSS Portlets



## 10.17 Form Relation Editor



## 10.18 BAM



## 10.19 Document Workflow System Connector

The screenshot displays the Straform BPM interface with three main windows:

- フロー (Flow):** Shows a workflow diagram starting with a 'start' node, followed by a task '申請者' (Applicant) with role '[ルール] ユーザー', then a task '第1承認者' (1st Approver) with role '[ルール] レベル2ユーザー', and finally an 'end' node.
- 入力値 (Input Value):** Configures the event definition for document workflow connection.
  - 処理種別 (Processing Type):  スクリプト開発 (Script Development),  Java開発 (Java Development)
  - 実行プログラム (Execution Program): sample/bpms/straform/execution.js
  - 名前空間 (Namespace): http://sample.straform.intra-mart.jp/kyuka/dwfc
  - 要求値 (Request Value): 呼出時に送信するデータ型を設定します (Set data type to be transmitted at callout)
  - 返却値 (Return Value): 呼出時に返されるデータ型を設定します (Set data type to be returned at callout)
- プロセス定義 (Process Definition):** Provides details for the process definition 'Straform 休職申請'.
  - カテゴリ (Category): スクリプト開発モデル (Script Development Model)
  - バージョン (Version): 2
  - 開始日 (Start Date): 2009年04月01日 00時00分00秒
  - 作成日時 (Creation Date): 2009年04月27日 12時49分34秒
  - 更新日時 (Update Date): 2009年04月27日 12時51分05秒
  - 終了日 (End Date): 9999年12月31日 00時00分00秒
  - 作成者 (Creator): 青柳辰巳 (Aoyagi Tatsuyoshi)
  - 更新者 (Updater): 青柳辰巳 (Aoyagi Tatsuyoshi)
  - 備考 (Remarks):

## 10.20 Maturity Inspection

The screenshot shows the Maturity Inspection interface with the following components:

- プロセス (Process) List:**

プロセス	起票	処理	処理作成	通知	承認
システム	<input type="checkbox"/>				
営業管	<input type="checkbox"/>				
財務部	<input type="checkbox"/>				
- ヒートマップ - 基本的な作業手順の調査 (Heatmap - Basic Task Procedure Survey):**

重み付け:  無 (None),  有 (Yes)

タスク/所属	サンプル会社	サンプル部門01	サンプル課11	サンプル課12	サンプル部門02
起票				60	
処理				100	
処理作成				60	
通知				40	
承認					
承認完了					
入金登録			40	40	
入金連絡受領				60	
なし			80	60	
- 成熟度調査/アンケート結果一覧 - 基本的な作業手順の調査 (2009/03/01 - 2009/03/31):**

No	質問	記点	最高得点	最低得点	平均	平均 (重み付け)
1	問題発生時の対応について取決めがあるものにチェックして下さい。	60	60	0	31.6	31.6
2	マニュアルに問題点はありませんか？	40	40	20	33.33	33.33
達成度合計 (実合計値)					64.93 (64.93)	64.93 (64.93)