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Table of Contents

	About this Manual.....	4
1	Overview of Additional Functions.....	5
1.1	List of Additional Functions in V11.4.1.....	5
1.2	List of Additional Functions in V11.4.....	5
1.3	List of Additional Functions in V11.3.1.....	6
1.4	List of Additional Functions in V11.3.....	7
1.5	List of Additional Functions in V11.2.....	9
2	Compatibility Information.....	12
2.1	Compatibility Information about Interstage BPM.....	12
2.2	Compatibility Information about Interstage BPM Server.....	13
2.3	Compatibility Information about Interstage BPM Studio.....	16
2.4	Compatibility Information about Interstage BPM Console.....	17
Index	19

About this Manual

This manual explains the additional functions and compatibility information since earlier versions of Interstage Business Process Manager.

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Typographical Conventions

The following conventions are used throughout this manual:

Example	Meaning
<code>command</code>	Text, which you are required to type at a command line, is identified by <code>Courier</code> font.
screen text	Text, which is visible in the user interface, is bold .
<i>Reference</i>	Reference material is in <i>italics</i> .
<code>Parameter</code>	A command parameter is identified by <code>Courier</code> font.

Abbreviations

The products described in this manual are abbreviated as follows:

- "Interstage Business Process Manager" is abbreviated as "Interstage BPM".

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1 Overview of Additional Functions

This chapter explains the functions added since earlier versions.

Notational Conventions

The following table shows the list of additional functions.

No.	Function	Content	Reference Location
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- No.
A sequential serial number.
- Function
Indicates the name of the function that has been added.
- Content
Describes the content of the function that has been added.
- Reference Location
Indicates the location in the manuals where information about the additional function can be found.

1.1 List of Additional Functions in V11.4.1

None

1.2 List of Additional Functions in V11.4

No.	Function	Content	Reference Location
1	BPMN2.0	New node types of task are added, and some node type names are changed according to terminology of BPMN2.0.	Studio User's Guide <ul style="list-style-type: none"> • Introduction - Nodes Console Online Help <ul style="list-style-type: none"> • Using the Process Designer
2	NTLM Authentication	The SSO Authentication supports the authentication protocol of NTLM V1 or V2.	Server and Console Installation Guide <ul style="list-style-type: none"> • Overview of SSO Authentication
3	SSO Authentication	The necessary steps to setup SSO Authentication are simplified.	Console Online Help <ul style="list-style-type: none"> • Interstage BPM Console Configuration File (console.conf)

1.3 List of Additional Functions in V11.3.1

No.	Function	Content	Reference Location
1	Text-based Searching for Process Instance	You can search for a process instance that includes the specified text string in the selected fields like process instance name, description, comments, and user defined attributes.	Console Online Help <ul style="list-style-type: none"> Searching a Process Developer's Guide <ul style="list-style-type: none"> Text-based Searching for Process Instance
2	Setting Up an Interstage BPM Cluster on WebSphere Application Server	As the setting up the load balancing system of the Interstage BPM server on WebSphere Application Server was integrated with the setting up the standalone system, it became easy.	Server and Console Installation Guide (WebSphere Application Server) <ul style="list-style-type: none"> Preparing for Setup of Interstage BPM Server and Console Setting-up Interstage BPM Server and Console
3	SSO Authentication	The SSO authentication process allows the user to log in once and gain access to multiple (SSO enabled) applications without having to login again in each application during that session.	Server and Console Installation Guide <ul style="list-style-type: none"> Overview of SSO Authentication Developer's Guide <ul style="list-style-type: none"> Enabling SSO Authentication Using the OpenID Provider Application
4	Process Definition Reports	You can generate the detail reports in the HTML format using Interstage BPM Studio.	Studio User's Guide <ul style="list-style-type: none"> Using Process Definition Reports
5	Silent Installation and Uninstallation	You can use a silent installation or uninstallation procedure for Interstage BPM Studio.	Studio User's Guide <ul style="list-style-type: none"> Silent Installation and Uninstallation
6	Dynamically Reloadable Parameter	If you have modified a parameter that is dynamically reloadable, the value will be reflected after the next login to the Interstage BPM Console. You do not require to restart the Interstage BPM Console.	Console Online Help <ul style="list-style-type: none"> Interstage BPM Console Configuration File (console.conf)

No.	Function	Content	Reference Location
7	TIMEZONEID of Business Calendar	If you specify the time zone ID for using Daylight Saving Time or Summer Time, the corresponding time of year is automatically used.	Server Administration Guide <ul style="list-style-type: none"> Configuring Business Calendars

1.4 List of Additional Functions in V11.3

No.	Function	Content	Reference Location
1	Interstage BPM Mobile Application	The Interstage BPM mobile application provides a quick way to view your active and accepted tasks via your mobile phone. You can view a list of your tasks and take appropriate action on them.	Console Online Help <ul style="list-style-type: none"> Interstage BPM Mobile Application Studio User's Guide <ul style="list-style-type: none"> Mobile QuickForms Server and Console Installation Guide <ul style="list-style-type: none"> Starting Interstage BPM Mobile Application
2	Run-time SubProcess	You can add a subprocess only at run-time to the tasks that are created from User Task node and are in Active \ Accepted \ Read status using the Context Menu.	Console Online help <ul style="list-style-type: none"> Adding Run-time SubProcess to Task
3	Workload Balancing Actions	Workload Balancing Actions enable you to assign process work items to users more effectively.	Studio User's Guide <ul style="list-style-type: none"> Using Workload Balancing Actions
4	Self-Healing	The Interstage BPM Server and tenants have self-healing capabilities that enable the system to diagnose the problem in the event of system initialization failures and automatically initialize the system when the error is resolved.	Server Administration Guide <ul style="list-style-type: none"> Interstage BPM Server Self-Healing

No.	Function	Content	Reference Location
5	Silent Setting-Up	You can silently setup the Interstage BPM Server and Console without GUI libraries of operating system.	Server and Console Installation Guide <ul style="list-style-type: none"> Setting-up Interstage BPM Server and Console
6	Database Upgrade Script	You can upgrade database using database upgrade script without additional programs.	Server and Console Installation Guide <ul style="list-style-type: none"> Upgrade Database
7	Process Debugging	The Interstage BPM Studio allows you to debug processes running on the Interstage BPM Server.	Studio User's Guide <ul style="list-style-type: none"> Process Debugging
8	Sequential Loop	You can configure Embedded Sub-Process Node as Sequential Loop node.	Studio User's Guide <ul style="list-style-type: none"> Configuring Node as Sequential Loop Node Developer's Guide <ul style="list-style-type: none"> Sequential Loop Node
9	Server Project	You can create a server project for all Workflow Applications using Interstage BPM Studio.	Studio User's Guide <ul style="list-style-type: none"> Creating Server Projects
10	Importing / Exporting Process Definitions as BPMN 2.0 format	You can select BPMN 2.0 as file format to import / export process definitions using Interstage BPM Studio.	Studio User's Guide <ul style="list-style-type: none"> Importing Process Definitions Exporting Process Definitions
11	Keyboard Shortcuts	Interstage BPM Studio allows keyboard shortcuts to support process modeling or defining forms.	Studio User's Guide <ul style="list-style-type: none"> Keyboard Shortcuts
12	Creating a Copy of a Process Instance	Interstage BPM Console allows you to create a new process instance from an existing process instance, and to reuse the UDA values of the existing process instance.	Console Online Help <ul style="list-style-type: none"> Creating a Copy of a Process Instance

No.	Function	Content	Reference Location
13	Editing Decision Tables	Interstage BPM allows you to edit Decision Tables belonging to an application.	Console Online Help <ul style="list-style-type: none"> Editing Decision Tables
14	NTLM Authentication	If you are accessing Interstage BPM Console on Windows, you can enable NTLM (NT LAN Manager) Version 1 authentication protocol for Interstage BPM Console.	Server and Console Installation Guide <ul style="list-style-type: none"> Overview of NTLM Authentication Protocol
15	Setting-Up	The necessary steps to setup the Interstage BPM server and the BPM console are simplified.	Server and Console Installation Guide
16	Health Check	As the start process of Interstage BPM Server is improved, notification of invalid configuration parameters and verification of external system connections get performed.	Product Notes <ul style="list-style-type: none"> Behavior on error
17	Log Files	The messages in log files of Interstage BPM Server are improved.	Server Administration Guide <ul style="list-style-type: none"> Configuring Log Files

1.5 List of Additional Functions in V11.2

No.	Function	Content	Reference Location
1	UDAs of Type CUSTOM	You can add User Defined Attributes (UDAs) of type XML which has complicated data structure.	Studio User's Guide <ul style="list-style-type: none"> UDAs of Type CUSTOM Developer's Guide <ul style="list-style-type: none"> Working with Pre-defined XML Data Structures ('Custom' Data Types)
2	Sequential Loop Node	You can use Sequential Loop node which generates node instances sequentially while satisfying a certain condition.	Studio User's Guide <ul style="list-style-type: none"> Configuring Node as Sequential Loop Node Developer's Guide <ul style="list-style-type: none"> Sequential Loop Node

No.	Function	Content	Reference Location
3	Defining User Extended Attributes	You can define User Extended Attributes using Interstage BPM Studio. The User Extended Attributes store the additional information defined by you. You can define the User Extended Attributes in the process definitions, nodes, and arrows.	Studio User's Guide <ul style="list-style-type: none"> Defining User Extended Attributes
4	Email Customized Class	You can create a customized email class in order to customize email notifications to users about any new workitems assigned to them.	Developer's Guide <ul style="list-style-type: none"> Using Email Notifications Studio User's Guide <ul style="list-style-type: none"> Setting Email Customized Class
5	Displaying in External Web Applications	You can display BPMN View of Process Definitions and Process Instances, Forms (*.jsp), Process Page, and Workitem (Task) Details Page in External Web Applications.	Developer's Guide <ul style="list-style-type: none"> Displaying BPMN View of Process Definitions, Process Instances in External Web Applications Displaying Forms in External Web Applications Displaying Start Process Page in External Web Applications Displaying Workitem (Task) Details Page in External Web Applications
6	Additional History Information	You can add additional information to all the operations performed in enactment edit mode.	Developer's Guide <ul style="list-style-type: none"> Using Additional History Information
7	Model-side Notifications Used by Model API on Interstage Application Server J2EE	You don't have to configure the remote JMS server in the load-balancing system on Interstage Application Server J2EE when setting false to both of <code>ProactiveNotificationEnabled</code> and <code>ProactiveSQNotificationEnabled</code> in Interstage BPM Server.	Developer's Guide <ul style="list-style-type: none"> Model-side Notifications Used by Model API Server Administration Guide <ul style="list-style-type: none"> System Configuration Parameters of the Interstage BPM Server

No.	Function	Content	Reference Location
8	Automated Failover	If a server node goes down, Automated Failover ensures that events that are not processed yet are automatically transferred to other server nodes in the load-balancing system.	Server and Console Installation Guide <ul style="list-style-type: none"><li data-bbox="1038 409 1414 439">• Automated Failover Settings Server Administration Guide <ul style="list-style-type: none"><li data-bbox="1038 488 1414 577">• System Configuration Parameters of the Interstage BPM Server

2 Compatibility Information

This chapter explains compatibility information about earlier versions of Interstage BPM.

2.1 Compatibility Information about Interstage BPM

11.4 or later

1. This product changes node type names according to BPMN2.0 which is a standard notation for business process modeling.

11.3.1 or earlier	11.4 or later
Start Node	Start Node
Activity Node	User Task Node
Voting Activity Node	Voting User Task Node
Compound Activity Node	Embedded Sub-Process Node
Subprocess Node	Call Activity Node
Chained-Process Node	Chained-Process Node
Remote Subprocess Node	Remote Sub-Process Node
Conditional Node	Simple Exclusive Gateway Node
Complex Conditional Node	Flexible Exclusive Gateway Node
OR Node	Parallel Split Gateway Node
AND Node	Parallel Join Gateway Node
Delay Node	Timer Node
Trigger Node	Message Receive Node
Exit Node	End Node
Email Node	Email Node
DB Node	DB Node
Web Service Node	Web Service Node

11.3 or later

1. XPD files (Process Definitions) created in this version of the product cannot be used in older versions of this product.

2.2 Compatibility Information about Interstage BPM Server

11.4.1 or later

1. About parameters in `setup.config`, default value for the following parameter has been changed to setup for JBoss EAP 6.
 - `appserver_version`

11.4 or later

1. About parameters in `setup.config`, you can specify a server name using `appserver_server_in_node` that was disused in version 11.3.1.
2. If an error occurs while operating a process instance, the behavior on error is changed so that the unprocessed event is set to **Suspended** state. In detail, refer to `SuspendEventWhenProcessInError` in Server Administration Guide. If you expected compatible behavior, please set `false` to `SuspendEventWhenProcessInError`.
3. The section Samples Related to the JMS Interface in Developer's Guide has been deleted since JMS Listener was deprecated.

11.3.1 or later

1. [Interstage BPM for WebLogic] Starting and Stopping the Server:
Interstage BPM Server provided its own scripts for starting and stopping the WebLogic Administration Server and the Interstage BPM Server.
 - For a single-server setup of Interstage BPM, you use the startup and shutdown scripts provided by BEA WebLogic.

In Release 11.3.1, the following change occurred:

 - For a single-server setup of Interstage BPM, start the Interstage BPM server using the `run<Server Name>.cmd` or `run<Server Name>.sh` script located in `<MW_HOME>/user_projects/domains/<Domain Name>/bin` directory.
2. Unsupported tenant properties: Unsupported tenant properties are not created to the database when a new tenant is created.
3. The system, tenant configuration parameter:
 - The tenant configuration parameter `TenantInitMaxRetry` is deprecated. If the tenant initialization/activation fails due to incorrect tenant property specification, tenant will retry the initialization infinitely until it gets initialized successfully.
4. Server names must be unique: While upgrading from a previous Interstage BPM version, if duplicate server names are defined in Application Server configuration, make sure that you modify the duplicate server names to uniquely identifiable names. Otherwise, Interstage BPM Server startup will fail. Please refer to section Clustering, Load Balancing, and Failover in the Interstage Business Process Manager Server and Console Installation Guide for the specific Application Server.
5. The setup configuration parameters `appserver_node_name` and `appserver_server_in_node` in the `setup.config` file are removed.
The value of `appserver_node_name` parameter can be specified in a new parameter `appserver_nodes_address` and the value of `appserver_server_in_node` parameter is set to a constant value `server1`

6. The format of the WorkItem URL in the E-mail notification messages is changed as:

`http://<hostname>:<port>/console/<tenant_name>/<Application_ID>/<workitem_ID>/getTaskDetails.page`

7. In some cases, the transaction scope have been changed.

- The process from finishing Exit node to completing process instance is performed in the same transaction.
- **Commit Transaction after completion** property in the node just before Exit node on a child process is not checked: The process from completing a child process instance to finishing Call Activity Node on the parent process instance is performed in the same transaction.
- Aborting a child process instance: The process from aborting it to moving to the node just after Call Activity Node on a parent process instance is performed in the same transaction.
- Aborting or completing a dynamic task: The process from Aborting or completing it to returning to the parent task or the node instance is performed in the same transaction.
- Completing the node instance which has a dynamic sub-task: The process from completing it to moving to the next node instance via aborting dynamic sub-task is performed in the same transaction.

11.3 or later

1. The system, tenant configuration parameter:

- The system, tenant configuration parameter `ServerLogFileRecycle` and tenant configuration parameter `DMSFileSeparator` are deprecated. Thus, you will no longer be able to specify values for these parameters; `ServerLogFileRecycle` will always be true, and `DMSFileSeparator` will always be / (forward-slash).
- The following parameters (published as Static Parameters in the previous version's Interstage BPM Server Administration Guide) are now marked as internal, and will not be available via command, API, or Interstage BPM Tenant Management Console: `JMSNamingProvider`, `JMSActionAgentTopic`, `JMSAnalyticsTopic`, `JMSEmailNotificationTopic`, `JMSEnactmentTopic`, `JMSNotificationTopic`, `JMSResponseTopic`, `JMSSQNotificationTopic`, `JMSTimerTaskTopic`, `ConnectorUserAgentName`, `DbAccessHelperName`, `EmailMsgHandlerName`, `JScriptServiceName`, `ProcDefName`, `ProcInstName`, `ProcessStateHelperName`, `TriggerHandlerName`, `UserAgentName`, `UserAgentServiceName`, `JMSFactory`, `AdminUserAgentName`, `DBDataSource`, `UseJmsEnactment`

2. Behavior on error:

- If any server (system) configuration property value is invalid, server startup will fail. In this case, refer the log files, correct the required property values and start the server again.
- If an incorrect tenant property is specified, tenant initialization/activation will fail. Re-initialization will be tried after every 30 seconds. If the property is not corrected before `TenantInitMaxRetry` number of re-initialization tries are over, the tenant will be deactivated. In this case, refer the log files, correct the required property values and re-activate the tenant.
- Application state changes to offline if any validation error is detected at startup. If this happens, please check configurations of workflow application.

3. Logging:

- Logging framework has been enhanced to provide detailed information of user operations and possible errors arising from these operations. If you want to see logging information, please refer `Trace.log` instead of `IBPMServer.log` and `AnalyticsError.log`. For additional

information, refer the section Configuring Log Files of the Interstage BPM Server Administration Guide.

4. Custom Directory Adapters

- If you are using Custom Adapters as the Directory Service in Interstage BPM, configure the value of `DirectoryService` property to 2.

5. System Configuration Properties: Initial value of `ObjectCacheEnabled` parameter

- Initial value of `ObjectCacheEnabled` parameter is changed from false to true to improve the performance. With this setting, the amount of memory use is increased than previous settings. Please refer to section `ObjectCacheEnabled` in the Interstage Business Process Manager Server Administration Guide.

11.0 or later

1. Priority setting for Process Instances and Work Items: In the previous Interstage BPM version (prior to 11.0), priority for Process Instances and Work Items were categorized as Low, Medium and High, based on the priority selected by the user. In the current version, the user can set any positive integer value as the priority for Process Instances and Work Items; the priority will not be set to Low, Medium or High.
2. Behavior of `WFOBJECTFACTORY.getProfile()`: From version 11.0 of Interstage BPM, if the name specified in `WFOBJECTFACTORY.getProfile()` exceeds the length specified by `MAX_PROFILE_PROP_NAME_LENGTH`, the extra characters are truncated. Due to this, you may receive errors while using pre-11.0 applications in Interstage BPM version 11.0.
3. Behavior of `ProcessInstance.HISTORY_ISHANDLED_CODE`: From version 11.0 of Interstage BPM, if `ProcessInstance.HISTORY_EVENT_CODE` is 12, then `ProcessInstance.HISTORY_ISHANDLED_CODE` is set to 4. In previous versions of Interstage BPM, in such a case, `ProcessInstance.HISTORY_ISHANDLED_CODE` was set to 7. Your pre-11.0 programs may cause errors if they work on the assumption that `ProcessInstance.HISTORY_ISHANDLED_CODE` will be set to 7.

10.1 or later

1. Upgrading from a Previous Version (1): While upgrading from a previous Interstage BPM version (prior to 10.0), it is necessary to provide the same non-administrative database user name that was already used in the earlier version. You can confirm the name by looking at the value of the `DBALoginName` property in `<Interstage BPM engine Directory>\bin\ibpm.properties` or `iflow.properties`. Please note down the `DBALoginName` value before un-setup the previous version.
2. Upgrading from a Previous Version (2): If you are upgrading from an Interstage BPM Advanced Edition, you must specify the `AE_TO_EE` parameter value to `y` in the `config.bat/sh` file and run the script.

Note:

- If you have specified `AE_TO_EE` parameter value to `n` and run the script, you need to re-execute the database upgrade.
- If you have specified `AE_TO_EE` parameter value to `y` while upgrading from Interstage BPM V10.1 or above, you need to restore the database and re-execute the database upgrade.

3. DMS Configuration: The server parameters `DMSRoot` and `DMSImplClass` have been removed. Hence, the `DMSCollections.xml` file is the only place where DMS root directories are configured.

2.3 Compatibility Information about Interstage BPM Studio

11.4.1 or later

1. The **Attributes** column has been removed from the **User Defined Attributes** table in the **Properties** view. This is the legacy feature supported by Ver.11.0 and former versions. This is no longer available on Interstage BPM.

11.3 or later

1. Uploading Applications: An application upload will be allowed even if the state of the application is **Online**. At starting the upload, Interstage BPM automatically changes the state to **Offline**, and changes it to **Online** again immediately after uploading. If the upload fails, however, the state of the application will stay **Offline**.

11.2.1 or later

1. UDDI Search URL: After V11.2.1, you cannot set default UDDI Search URL when you install Interstage BPM Studio. For information about how to set the default UDDI Search URL, refer Studio User's Guide.
2. QuickForm: QuickForms created by Ver.11.1 Studio might not be displayed correctly, if you use Internet Explorer8 or later with no compatibility mode. In that case, you can specify the compatibility mode by adding the following line in QuickForm jsp file:

```
response.setHeader("X-UA-Compatible", "IE=EmulateIE7");
```

[example]

```
:
<%@ page import="java.util.Properties"%>
<%
    response.setHeader("X-UA-Compatible", "IE=EmulateIE7");
    String wid = CommonRequestUtility.getParameter(request, "workItemID",
    "");
    :
```

11.2 or later

1. Error Log View: Now the error log view is not shown by default. You can show it using the `[Window]` menu-> `[Show View]`-> `[Error Log]`.
2. Expression Builder: Newline characters are preserved in the expression builder for Java Actions.

11.1 or later

1. Interstage BPM Form: Interstage BPM Forms is not supported. Instead, please use QuickForm. Please refer to the Studio User's Guide for details.

2.4 Compatibility Information about Interstage BPM Console

11.4 or later

1. The following modification is done to **Node Instance Details** table in **Details** tab of the process instance:
 - Between V11.2 and V11.3.1, event that is responsible for closing the node instance will be displayed in **Responsible** column. Before V11.1 or after 11.4, user name of the user responsible for closing the node instance is displayed in **Responsible** column.

11.3.1 or later

1. Sorting is not supported on the Email column of Users List in **System Administration** tab.

11.3 or later

1. Configuration Test: The Configuration Test functionality is moved from **System Administration** tab of Interstage BPM Console application to **JMS Test** tab of Tenant Management Console application. The console configuration (self test) is performed as part of JMS Testing.
2. If you apply the style sheet of previous version as the tenant or application skin, Interstage BPM Console screen may not be displayed correctly. When you want to apply your original skin, please use the style sheet of current version and if require, edit this style sheet and apply it. When you want to apply the style sheet of previous version and if there is any issue, you can click **Restore Defaults** to restore the default style sheet.

11.2.1 or later

1. Delete Cache of Internet Explorer 9 (IE9): In case you are using IE9 browser, you must delete the temporary internet files or browser history while doing any of the following:
 - Making any changes in any file (such as .css, .js) of existing Console application
 - Upgrading the Console application to new version
 - Uninstalling and then again installing any version of Console application
 - Applying any Fix pack of existing Console application

Follow these steps to delete the cache:

- a. From the menu bar, select Tools > Internet Options.
- b. In the General Tab, go to Browser History section and click Delete.
- c. Make sure that Preserve Favorites Website data option is not selected.
- d. Select Temporary Internet Files.
- e. Click Delete.
- f. Click OK.

11.2 or later

1. Interstage BPM Forms are not supported. Instead, use QuickForms. Refer Interstage BPM Console Online Help for more details.
2. Iterator (Parallel) Loop Node icon: In the Process Designer, when enabling or disabling iteration on a node, the Iterator (Parallel) Loop Node icon will be displayed or removed only after you save the process definition.
3. You cannot upload or download process definitions using base URLs of remote servers, in default configuration. If you want to use this functionality, you need to add `RemoteServerBaseURLs` property to Interstage BPM Console configuration file (`console.conf`). Refer online help of Interstage BPM Console.
4. The following modifications are done to **Node Instance Details** table in **Details** tab of the process instance:
 - The **Created** column header name has been changed to **Closed**. As in the previous version (V11.1), date and time when the node instance is closed are displayed in **Closed** column.
 - In V11.1, date and time and responsible user were displayed for the node instances (of certain node types) that were in the states other than Running. In V11.2, date and time and responsible event will be displayed only for the node instances that are in **Closed** state.

11.0 or later

1. URL Change from Previous Version (Web Services): The URLs for the Wf-XML Web Services resources Service Registry, Factory (Process Definition), Instance (Process Instance) and Observer have changed from the previous version. Due to this pre-11.0 Remote Subprocess URLs are not supported.
2. The Decision Table Management feature from versions prior to version 11.0 is not supported in this version.
3. Command Line WebServices are no longer supported from version 11.0.
4. URL Change from Previous Version (Console): The URL for the Console has changed from the previous version. Refer Interstage BPM Server and Console Installation Guide.

Index

A

additional functions, 5

C

compatibility, 12