

inubit

BPM

Feature List

Version 7.4

Bosch Software Innovations

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1 General

- inubit supports Java 11 and OpenJDK 11.
- For legal licensing reasons, a JDK/JRE will not be delivered together with inubit. Java 11 must therefore be installed before setting up the inubit installation, and environment variables must be set accordingly.

1.1 Installer

- A new installation step for choosing the `license.xml` file from a directory of the local file system has been introduced so that it is copied to the installation. During this step, the license file name is validated.
- The inubit license file can be specified during both graphical installation and installation via command line.
- The inubit installer includes all Liferay 7/DXP Plug-ins.
- The patch logging has been improved by log file names containing time and date as well as the target patch version.
- The installer wizard of the patch installer notes that before patching, it is strongly recommended to read the patch installation guide, which is a PDF file in the installation directory. Provided, the system supports viewing PDF files, the PDF file is opened by the patch installer using the default PDF viewing application.
- At installer start, a new splash screen is displayed.

1.2 Liferay

The inubit installer includes all Liferay 7/DXP Plug-ins.

1.3 Workflow Engine

- An option to overwrite the sub-workflow priority invoked by the calling workflow has been added to the Workflow Connector.
- When publishing a Technical Workflow including a Task Generator the option **Reinitialize existing task** is available. If selected, existing tasks are reinitialized with the modified workflow data.
- The *Maximum number of files for temporary messages* configuration parameter is effective globally and no longer for a user/user group.
- When generating Technical Workflows from Business Process Diagrams, multi-language properties are mapped as well.

2 Process Engine

2.1 Cache

- PostgreSQL is supported as inubit Database.
- Infinispan has been updated to 9.4.0, Jgroups has been updated version to 4.0.11.
- The Midnight Task can be started at a set start time or immediately via CLI.

2.2 General

- Tomcat has been upgraded to Tomcat 9.0.8.
- The Tomcat connection pool MBeans have been enabled for all connection pools created by inubit.

2.3 REST Interface


- REST authentication as Process Engine user has been added.
- Enhancements of the REST interface:
 - Retrieving system information
 - Retrieving monitoring logs
 - Retrieving detailed users data
 - Restricting user information based on user roles
 - Managing partner management
 - Two new arguments for filtering and sorting of REST calls

3 Command Line Interface (CLI)

- A new CLI command for deleting all processes with the status `error` has been added.
- The permission **CLI login access** has been added. By default, this permission is activated for the **System Administrator** user role and deactivated for all other roles.
- The Midnight Task can be started immediately via CLI.

4 Workbench

4.1 Workbench - General

- The global search has been added by a search options for the following:
 - Diagram content as well as connection lines (excluding connection lines in technical workflows and BPEL diagrams)
 - Tag names
- The navigation to the respective diagram content element based on selection of global search result is provided.
- There is a new icon  for creating a new element.
- The *inubit Workbench configuration* dialog to change the settings has been restructured and consolidated.
- The new shortcut [Ctrl]-[Shift]-[Right Arrow key] expands the following trees:
 - Server diagram tree
 - Server Module Editor tree
 - Modules tree in Designer Modules panel on right side.

4.2 Designer

4.2.1 Designer - General

- Local (not yet published) diagrams can be renamed.
- Tags in the workflows, modules, or repository files of a user or user group can be renamed.
- The Bird View window position of a workflow persists when switching to another workflow.

4.2.2 System Diagrams

- Processing Rules for Complex Lookup Tables can be linked to System Diagrams.
- The connection pool settings of a Database Connector defined as external resource in a system diagram can be configured.

4.2.3 Technical Workflows

- Local creation of system connectors that are not yet fully configured is possible.
- Publishing of incompletely configured system connectors to the server is prevented.
- A validation of System Connector configuration is provided.
- System connector modules and Workflow Starter that are already used in a workflow can be dragged and dropped from module tree (Server/Local/Favorites) to the designer area. In this case, the module will be renamed (analog to copy-paste).
- After renaming a module, the old name in respective workflow versions is retained.
- Scope names can contain spaces.
- For user-defined variables, a comment can be added.
- In the **Variables** docking window on the right, there is a new column displaying the **Default Value**.
- Unused variables can be determined and deleted afterwards.

4.3 Module Editor

- Local creation of system connectors that are not yet fully configured is possible.
- Publishing of incompletely configured system connectors to the server is prevented.
- A validation of System Connector configuration is provided.
- The XSLT test execution in XSLT Converter of the Module Editor or in the (XML) Editor can be canceled.

4.4 Tools

4.4.1 Editor

The XSLT test execution in XSLT Converter of the Module Editor or in the (XML) Editor can be canceled.

4.5 Deployment, Import, Export

- BPM diagrams can be exported and imported as `.bpmn` file (BPMN 2.0 DI standard).
- The error handling for import operations has been improved.
- A new option for activating/deactivating when importing a workflow has been added.
- Publishing of multiple EDI rule files at the same time to the process engine by means of a rule folder has been added.
- When publishing rule folders to Process Engine, both valid rule files and invalid rule files are displayed.

4.6 Monitoring

- Mail Connector certificates can be managed in **Key Manager**.
- In **Server Trace Log** tab, a forward and backward search mechanism has been added.
- The entire Server Trace Log file is read at once and displayed in the Workbench, improving scrolling.
- The content of the Server Trace Log file can be directly copied or saved using the toolbar icons.
- Selected parts of the displayed logs (Server Trace Log, Workbench Trace Log, Webservice Log) can be directly copied or saved using the toolbar icons.

4.7 Offline Modeling

- In offline mode, you can edit local diagrams and modules. You can even create new modules and diagrams. Further details can be found in the customer documentation (Workbench User Guide).
- Tabs, menu items, and buttons that cannot be used in offline mode are inactive in offline mode.
- With a button, switching to offline mode is possible when, for example, the connection to the Process Engine gets lost or the Process Engine is down. Local modules and diagrams can be further edited. This is an additional option to the existing options retry action and exit Workbench.
- In the status bar of the Workbench, the status of the Process Engine can be displayed with an icon. Displaying the status is optional and can be configured.
- The Workbench status online/offline is displayed with the button for switching between both modes.
- When switching back to online mode, the server data are synchronized with the Workbench.

4.8 Password Manager

- A Password Manager has been introduced to manage credentials centrally for various system connectors. Credentials can be added, edited, deleted and searched. Refer to the customer documentation (Module Guide and System Connector Guide) for which system connectors this is possible.
- The Password Manager is secured by a master password, which is to be configured in the Workbench **Configuration** tab.

4.9 Test Mode

An option has been added to continue the workflow execution at a break point in test mode and unit tests.

4.10 Unit Tests

An option has been added to continue the workflow execution at a break point in test mode and unit tests.

4.11 User Manager

- The permissions for users for the Designer and for the Module Editor have been extended by **Create** and **Delete**.

- The permission **CLI login access** has been added. By default, this permission is activated for the **System Administrator** user role and deactivated for all other roles.

5 Modules and System Connectors

5.1 Data Converters

5.1.1 Complex Lookup/Lookup Table

Processing Rules for Complex Lookup Tables can be linked to System Diagrams.

5.1.2 Task Generator

- A newly created Task Generator has the default output mapping `<xsl:copy-of select="*" />`.
- When publishing a Technical Workflow including a Task Generator the option **Reinitialize existing task** is available. If selected, existing tasks are reinitialized with the modified workflow data.

5.1.3 XSLT Converter

The XStream library has been updated to version 1.4.10.

5.2 System Connectors

5.2.1 Backup Connector

An option has been added to define whether the whole system version history or just the latest system version shall be backed up.

5.2.2 File Connector

- In directory mode, sorting is also possible - alphabetical and chronological, ascending and descending. This only applies if the data transfer type is `IBISDirectory-XML`.
- The new option **Continue execution on failure of previous calls** can be selected to continue the specified number of calls even after a previous failure. The value of **Max. number of executions per scheduled call** must be higher than 1 for this.

5.2.3 HTTP Connector

- HTTP response parameters for HTTP status are also set if an error occurred (HTTP status `<200 or> = 300`).
- Commons HttpClient version 3.0.1 has been replaced by HttpComponents HttpClient version 4.5.5.

5.2.4 JS Connector

- ExtJS 6 applications can be deployed in Liferay Portal.
- The portlet of an ExtJS application that has been deployed to the Liferay Portal can be reinitialized, re-deployed and un-deployed.
- The JS Connector can be deployed with the Web Application Connector.
- Variable mapping for workflow variables is possible.

5.2.5 REST Connector

- Commons HttpClient version 3.0.1 has been replaced by HttpComponents HttpClient version 4.5.5.
- The REST Connector supports the HTTP PATCH Method.

5.2.6 VFS Connector

"File check" options have been added.

5.2.7 Web Services Connector

- The Webservice Manager has been added as a new monitoring tab. It contains a list of all the Web Service Connectors and their status. There is an option to re-register a faulty Web service.

- Commons HttpClient version 3.0.1 has been replaced by HttpComponents HttpClient version 4.5.5.

5.2.8 WebDAV Connector

- Commons HttpClient version 3.0.1 has been replaced by HttpComponents HttpClient version 4.5.5.

5.3 Utilities

5.3.1 Data Stream Analyzer

The Data Stream Analyzer gives out the length of an input message within the variable `datastreamanalyzer.streamsize`.

5.3.2 Encoder

For the encoding algorithms MD5, SHA1, SHA-224, SHA-256, SHA-384, and SHA-512, the option **Set input message additionally as output message** can be set so that the input message is passed to the output message instead of the checksum. The checksum is stored in the `Encoder.<algorithm>` variable.

5.3.3 inubit IS Configuration

For the operations `getModuleProperties` and `getWorkflowProperties`, the optional `Tag-Name` parameter can be set.

5.4 Workflow Controls

5.4.1 Workflow Connector

An option to overwrite the sub-workflow priority invoked by the calling workflow has been added.

Your feedback helps us to continuously improve our products and components. Please send any questions, comments or suggestions for improvement to support@bosch-si.com.

Europe:

Bosch Software Innovations GmbH
Ullsteinstr. 128
12109 Berlin
GERMANY

Tel. +49 30 726112-0
info-de@bosch-si.com
www.bosch-si.de

Asia:

Bosch Software Innovations
c/o Robert Bosch (SEA) Pte Ltd
11 Bishan Street 21
Singapore 573943

Tel. +65 6571 2220
info-sg@bosch-si.com
www.bosch-si.sg