@enterprise 7.0 Release Notes

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1 Introduction

This release notes document lists the changes and new features in release 7.0 of @enterprise. The documentation is still work in progress, so some of the new features are already described in the other documents of the documentation, some others are not.

1.1 Installation and Configuration

The system is delivered as self-extracting jar file. The installation can be started with a double-click on the file setup70.jar. An installed JDK of at least version 1.5.0 is required.
When you have only a command line, start the installation with:

```
java -jar setup70.jar
```

Follow the steps of the setup procedure. Further information about the installation and configuration can be found in the installation guide.

1.2 Upgrade

To upgrade from a prior version perform the following steps:

1. Make a backup!
2. Extract the files to a new directory. We recommend to use the initial setup for this purpose!
3. Copy your existing configuration file, forms directory, jar-files and the jdbc driver of the *lib*-directory (e.g. ojdbc4.jar) to the corresponding directories of the new version.
4. Start the server and login as sysadm. You should now be redirected to the upgrade page. Perform the necessary database upgrades.

If upgrading from a version previous to 4.0, please contact our support.

For upgrading stored queries to 7.0, you have to enter the following URL in your browser (we recommend to log in as *sysadm*):

```
http://'server':'port'/wf/servlet.method/com.groiss.reporting.MigrateStoredQueries.migrateQueries
```

1.3 Libraries

The following libraries have been changed:

- jgroups-all.jar, version 2.4.0 is used.
- derby Version 10.2.1.6 is used.

2 New Features

2.1 Application-spanning process definition

If this option is set under *Configuration → Localization*, it is possible to define processes with application-spanning elements (i.e. Forms, Tasks, Subprocesses and Roles as Agents).

2.2 HTTP-Server

This release uses the Jetty HTTP-Server version 6.0.1 (from jetty.mortbay.org) by default . To switch from the proprietary old HTTP Server to the new one, change the services property of the configuration. Instead of the 'com.groiss.httpd.Httpd httpd' and the 'com.groiss.ssl.SSLHttpd ssl' entry a single entry with 'com.groiss.httpd.jetty.Jetty httpd' should be made. Jetty is started embedded in @enterprise, all configuration options for the proprietary HTTP server also apply to the Jetty server. We strongly recommend to use the Jetty HTTP-Server, because the previous HTTP-Server will be removed in one of the next versions of @enterprise.

2.2.1 SSL Client Certificates

Due to the Jetty integration, the name of client certificates array in HttpServletRequest and ThreadContext changed from *java.security.cert.X509Certificate* to *javax.servlet.request.X509Certificate* to fit J2EE recommendation. You are able to retrieve the client certificates via
<HttpServletRequest>.getAttribute("javax.servlet.request.X509Certificate")
or ThreadContext.getAttribute("javax.servlet.request.X509Certificate"). Both methods return an array of X509Certificates, if client sent certificates at SSL handshake. Otherwise null is returned.

2.3 Resource Files

Due to size restrictions in Java we had to change the resource file implementation from *ListResourceBundle* to *PropertyResourceBundle*. If you have extended our Strings or Errors Bundles you have to rewrite it and use *PropertyResourceBundles*. See the Application Development Guide for an example (Section *Resource Files*).

2.4 Users and Org.Units

Additional information for users and org.units can be stored in forms attached to the respective objects.

2.5 Process Editor

The process editor has been reimplemented. The overall handling has been improved: select regions, multiple undo, copy/cut/paste, zooming, context menus, birds-eye-view, orthogonal routing, adding comments, direct creation of tasks and roles, etc.

2.6 Processes

- New field priority for each process instance. A default value can be specified in the process definition, changeable in the worklist.
- Escalations for processes (like the ones already known for tasks).
- Supplement task allows changing forms in finished process instances.

2.7 Forms

- Read-only formfields cannot be updated anymore (by manipulating the url).
- New form-field modes text and mandatory.
- New form-field modes "editable but no insert" for subforms.
- Forms are also editable in the suspension list.
- New form wizard allows the creation of forms without loading an HTML file.

2.8 Tasks

New escalation type: Trigger an escalation action if the activity has not been taken for some time (i.e. is still in role-worklist).

2.9 Function Group

Allows to group functions and stored queries for arrangements in lists.

2.10 Reporting

The Reporting has been reimplemented: internationalization of query names, attributes, and parameter masks; configurable schema; several chart types, "real" excel export, xml/xsl export, configurable exporters, etc.

2.11 Timer

Powerful timer interval configuration (like unix cron).

2.12 Time Management

The handling of time constraints in process execution has been enhanced:

- A mining component extracts task durations and branching probabilities from the histories of finished processes. This information can be viewed in the process editor.
- The historic or - alternatively - manually inserted durations can be used for calculating a "time-graph" of a process.
- The time-graph is used to compute realistic deadlines for process and task execution.

2.13 Web Service and WfXML

The WFMC standard WfXML 2.0 has been implemented (previously version 1.1 was used). This means that @enterprise is accessible as web service. The implementation is based on the AXIS framework.
Moreover, @enterprise can call other web-services. The programming guide contains examples how to access web services out of a process execution.

2.14 Configuration

- Working days can be configured.
- Configure appearance of selections pop-up (select-list or table) and search mode (prefix search or contained string).
- The semantics of the access control via the URL-Checker have changed in cases when no session is available (see the Installation manual).

2.15 Administration Miscellaneous

- For input fields, that require a class or method name, a button let you check correct syntax, availability of class (and method) and whether the class implements the necessary interfaces.
- After actions that requires a restart (for example configuration changes) a reminder icon appears in the toolbar. The same happens for actions requiring cache refreshes.
- Class loader: The items of the system class path are not in the application class path anymore.
- Additional tab "referenced by" shows where objects are referenced.
- The XML files *admin.xml*, *standard.xml* and the *jgroups config* are not in a JAR file anymore, but in the folder classes of the @enterprise installation.
- There is a new delete right. It is required for deleting objects instead of the edit right used before.

2.16 Worklist Client

- Number of total and new entries are shown for each list.
- Users can structure their worklists be defining their own folders and subfolders.
- The details of an activity instance are shown in a frame with several tabs:
  - one for each form,
  - a document tab,
  - one for the notes,
  - a history tab,
  - and a tab showing the process definition.
- a new view on form changes shows the changes of each form field.

- Worklist filters can be edited.
- Administrators can define "messages of the day" shown to the users after login.
- When putting an activity instance into the suspension list a comment can be specified. Now, these comments are stored per suspension, not per activity instance.

2.17 DMS

- new interface com.groiss.dms.XHTMLFolderFormEventHandler: this is an extension of the already known event handler XHTMLFormEventHandler which provides additional methods that will be called when an item is added to or removed from a folder. You can register an implementation of that interface (or a subclass of its default implementation com.groiss.dms.XHTMLFolderFormEventAdapter) the same way as the XHTMLFormEventHandler is registered (see Administration - Form Types). The new methods will only be called if the form type represents a folder.
- new interface com.groiss.dms.DMSTableHandler: an implementation of this interface can be registered for a form type (see Administration) that represents a folder and which wants to customize the table in which the folder represents its content. Alternatively you can register it system wide via System Configuration - DMS - Standard Table Model/Table Handler. Old customized table models will still work but may ignore the new interface. So it is recommended to change from overriding the default table model to implement the new interface and register it (because the new approach is more flexible). A default implementation of this new interface is provided by com.groiss.dms.DMSTableAdapter.
- method showDocs(HttpServletRequest) in class com.groiss.dms.html.HTMLDMSObject can now handle the specification of the desired folder by a path of names and not only via the oid and class name of that folder (for more details see the API documentation of that method).

2.18 Engine/API

- new API call in WfEngine: changeAgent(ai,agent,txt)
- new API for defining access rights in com.groiss.org.OrgData
- It is possible to create process instances with the call WfEngine.createProcessInstance(ProcessDefinition,...). The process instance waits at the begin step until this activityinstance will be finished explicitly.
- View forms are new represented as wrapper classes around their base forms. This fixes some anomalies of the previous implementation.

3 Support

If you have problems with this version, contact us under the email support@groiss.com.