

Technical Release Notes enaio® Version 9.0 SP1

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Technical Release Notes 9.0 SP1

This document contains information about new developments since the release of versions 8.50 and 9.0.

Information about the status of support calls can be obtained from the OPTIMAL SYSTEMS by sending an e-mail to the Professional Services department based in Berlin: support@optimal-systems.de.

Please also note all the relevant Technical Release Notes and system requirements from the version you are updating to the current version.

Update Instructions 9.0 SP1

Version 9.0 SP1 differs from version 9.0 in the following two points:

- openJDK

With this service pack for version 9.0, OPTIMAL SYSTEMS is switching from Oracle JDK to openJDK.

This switch has become necessary as a result of the new licensing terms. The functionality remains unchanged, and the technical effort associated with the change is minimal.

We will also introduce this change in version 8.50 in the near future.

- 64-Bit Server

Version 9.0 introduced the 64-bit server as a beta system for development and test environments. Version 9.0 SP1 officially releases the 64-bit server for live systems.

This version is supplemented by a wrapper that makes it possible to integrate 32-bit COM modules.

openJDK

With this service pack for version 9.0, OPTIMAL SYSTEMS is switching from Oracle JDK to openJDK to account for the new licensing terms.

This change will also be introduced in version 8.50 in the first quarter of 2019 by means of a service pack.

Both service packs do not introduce any functional differences or upgrades in this regard, so the update effort is minimal.

This also means that there are no software-related disadvantages for us as a software manufacturer and for you as a customer.

For two reasons we recommend running an update as soon as possible:

- As specified in the maintenance contracts, all bug fixes are only implemented in the latest service packs. In order to maintain your installation in the future, you must therefore install the service packs.

- If a critical vulnerability is discovered in a Java version, we need to update Java as soon as possible. We feel that at present only a change to openJDK allows us to act with the required speed.

Therefore, we recommend speedily scheduling and performing the updates via the service packs both for version 8.50 and 9.0, as well as a migration to enaio® 9.0 SP1 from versions prior to 8.50, which are no longer being maintained.

According to our current assessment of the changes to the licensing terms, which must remain legally non-binding, there is no subsequent licensing requirement for the Java versions and updates used in enaio® before 1 January 2019 under the then applicable license conditions of Oracle. This concerns:

- Java 7 and Java 8 updates prior to 1.8.0_181 in enaio® versions 8.0 and 8.10. These versions are no longer being maintained.
- Updates from Java 8 before 1.8.0_181 in the enaio® versions 8.50 and 9.0, which are being maintained.

According to our estimation, there is no pressing need to update systems immediately.

OPTIMAL SYSTEMS's assessment of the changes to the licensing terms must not be misconstrued as legally binding. As a software manufacturer, we are neither authorized nor sufficiently competent to provide a legally binding assessment.

64-Bit Server

Installation

Version 9.0 provides a 64-bit version in addition to the enaio® server 32-bit version. Version 9.0 SP1 has now been approved for live systems.

Installation and updating of the 32-bit version will continue via the central setup.

enaio® server in the 64-bit version is installed via its own setup from the directory `OSECM_SERVER_X64`. The installation procedure is the same as for the 32-bit installation.

In multi-server installations, 32-bit versions and 64-bit versions can not be mixed, even in different server groups.

At present, only file system-supported archive connections and an iCas driver are available for archiving with 64-bit servers. The iCas driver requires the microservice 'archive'.

Please also take note of our notices on the [server scripts](#) that are executed in a 64-bit VBScript engine and must be checked before running an update.

Update to a 64-Bit Server

To upgrade a 32-bit server to a 64-bit server, the following steps are necessary.

Installation

The 64-bit server is installed on the computer of the 32-bit server.

1. Upgrade to enaio® 9.0 with all components, including 32-bit server.
2. Set up an additional 64-bit system DSN with the same name on the server machine using the 64-bit version of `ODBCad32.exe` from the directory `C:\WINDOWS\SysWOW32`.
3. Create an empty database for the 64-bit system DSN. There, empty system tables are created. This database will later be replaced by the existing enaio® database.
4. Stop or disable 32-bit server.
5. Installation of the 64-bit server via the setup from the directory `OSECM_SERVER_X64` on the server computer:
 - You enter the service name, the port, the service account and, if applicable, the server group with the same data entered for the 32-bit server.
 - As the license file, you specify the existing license file of the 32-bit installation.
 - The service requires an administrative account.

You have now completed the installation.

To test, you can change the service control (see below), start the service, and connect via enaio® editor or enaio® administrator with the default user account 'root/optimal'. The 64-bit server is connected to an empty database, there are no users and no object types.

Finish the service again.

Transfer the Existing Server Settings

The server settings of the 32-bit server are transferred via registry entries to the 64-bit server.

1. Export the 32-bit server settings from the registry of the server computer to a registry file:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\OPTIMAL  
SYSTEMS\enaio\Schemata
```

2. Modify the path in the registry file with an editor:

Delete \Wow6432Node from the path and save the registry file.

3. Import the registry file.

The registry of the server computer then contains the following keys with the same data:

- 32-bit server:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\OPTIMAL  
SYSTEMS\enaio\Schemata
```

- 64-bit server:

```
HKEY_LOCAL_MACHINE\SOFTWARE\OPTIMAL  
SYSTEMS\enaio\Schemata
```

4. Connect the 64-bit system DSN to the existing enaio® database.

Service Control

The server service is still connected in the service control with the 32-bit server and must be converted to the 64-bit server.

Open the command line and execute the following call:

```
sc config SERVICENAME binPath= "{INSTALLDIR64}\axsvckrn.exe -n  
SERVICENAME"
```

Check the startup type for the service and start the service.

Conversely, in the case of update problems, the 64-bit server can be switched back to the 32-bit server at any time:

```
sc config SERVICENAME binPath= "{INSTALLDIR32}\axsvckrn.exe -n  
SERVICENAME"
```

Before uninstalling the 32-bit server, verify its directories: By default, they contain the work and cache area, the etc directory and possibly further optional data. Such data may not be deleted and may need to be removed before uninstalling.

Archiving with 64-Bit Servers

At present, only file-system-supported archive connections and an iCas/iTernity driver are available for archiving using 64-bit servers.

iCas/iTernity archives require the 'archive' microservice.

The microservice 'archive' is installed via the service manager setup. The configuration file `archive-prod.yml` is located in the directory `\Services\service-manager\config\` after installation.

Profiles must be created in the configuration file for connections to virtual archives.

For iCas/iTernity, a profile scheme is created with the connection data, the user, and the password for the connection that needs to be customized.

For details on the 'archive' microservice, follow this [online](#) link.

In enaio® enterprise-manager, a virtual archive with the connection data to the microservice 'archive' and the profile name from the configuration file is then created.

Then the archive can be integrated into the media management.

Scripting with 64-Bit Servers

The 64-bit server comes with a 64-bit VBScript engine. If you only use 64-bit COM modules in a 64-bit server script, you do not need to make any adjustments.

In the server installation, the following standard COM modules, which are often used for server scripts, are 64-bit components:

`oxsvrspt, oxsvrcom, oxsvccmn, oxmljsc.`

If you use other than the standard COM modules described above, i.e., COM modules that are only available in 32 bit, you must check the functionality and ensure that 32-bit COM modules can be used in the script.

This applies to the DMS as well as to the workflow and other subsystems.

We recommend the following procedure for this: The 64-bit server setup installs and registers our standard COM modules in a 32-bit version at `\<SERVER_INSTALL>\win32\`. The `axcomhelper.exe` component, which is also installed there, acts as a wrapper for any COM modules and should be used in your scripts to instantiate a 32-bit COM module and use it in the following code. The following description applies to your scripts when you create COM objects via `CreateObject`.

In a server script, an instance of this wrapper is passed to you via the 'RunningContext,' which determines whether the server is a 32-bit or a 64-bit version.

By overwriting the Windows function for instantiating a COM object with your own script function at a central location, you can now ensure that your existing script code can be executed both on a 32-bit and a 64-bit server.

An example implementation of such a function in a workflow-based server script is shown below:

```
Function CreateObject (ClassName)
    Set CreateObject = Nothing
    If runningcontext.comhlp32 Is Nothing Then
        runningcontext.logger.Error "Der COM-Helper 'axcomhlp32.exe'
steht nicht zur Verfügung"
        Exit Function
    End If
    runningcontext.comhlp32.Is64Bit = runningcontext.Is64BitServer
```

```
Set CreateObject =  
runningcontext.comhlp32.CreateObject (ClassName)  
End Function
```

Please note that the 'RunningContext' in scripts on the DMS side is addressed as 'rc'.

Updating to 9.0/9.0 SP1

Updating enaio® requires some additional steps to update the full-text component, which will be done prior to the update, meaning in the active 8.50/8.10 system.

Components, especially microservices that were not part of enaio® in versions 8.0 and 8.10, are not installed by an update and must be reinstalled.

Please also note the Technical Release Notes and system requirements for all intermediate versions.

Upgrading from 9.0 to 9.0 SP1 requires no special actions.

SETUP

As usual, all components must be updated via setup or MSI simultaneously, i.e., the server, clients, and services.

If some components have not been updated, not only functional errors but also security-related errors may occur when accessing data.

MSI Packages

The client installation via MSI only installs enaio® client and no longer any additional components. So far, optional add-ins and printers could be installed as well. This also applies to updates.

The following components are available as MSI packages:

- enaio Office NG add-in
enaio_office_addin.msi
- enaio Outlook NG add-in
enaio_outlook_addin_ng.msi
- enaio® search
enaio_Search.msi

- enaio® Outlook Add-In (deprecated)
`enaio_outlook_addin_deprecated.msi`
- enaio® GroupWise Add-On NG
`enaio_groupwise_addon_ng.msi`

The enaio® office-utilities can still be installed and updated via the setup.

The printer drivers can be installed and updated via the setup or an installation program as before. In addition, an MSI package is also available for the printers.

Internal Names

Detail preview, content preview, and enaio® webclient require internal names for all object types and fields. When updating a version prior to 8.50, the internal names, if not yet assigned, are initialized by the system. In order for the internal names to become known everywhere, enaio® editor must be used to change and save the object definition and reload the engines. For example, move a dialog element minimally or change the size of an element minimally.

Documentation

The PDF documentation version 9.0 is also available for download via the help portal at <https://help.enaio.com/>.

Full Text

Elasticsearch 6.x

With enaio® version 9.0, Elasticsearch is integrated in the version 6.x instead of 2.x.

There are no differences when reinstalling. Updates require a migration.

For Elasticsearch 6.x, a new full-text index must be created. The full-text index is created before the update while the enaio® 8.50/8.10 is running in order not to disturb the ongoing operation. To do this, Elasticsearch 6.x will be installed on a separate computer with its own full-text index. A migration tool then creates the new index from the existing index.

Thereafter, the update will be carried out by enaio® including the microservices and Elasticsearch 6.x will be integrated with a new index in enaio® 9.0.

Elasticsearch 6.x and the new full-text index can then be moved from the own computer into the existing infrastructure with appropriate adaptation of configuration files.

Installation Elasticsearch 6.x

Elasticsearch 6.x must be installed for migration on a separate computer. Enough space must be available for the extensive full-text index. This should be on a logical drive with high performance and fast access. Elasticsearch recommends an [SSD hard drive](#).

During installation, the installation directory and the port are specified.

The service requires an administrative account.

The setup is in the following directory:

```
\Win32\Disk1\Microservices\Elasticsearch-6.2.4\
```

After installation and integration into enaio®, enaio® services-admin can access the details pages of the services 'index' and 'search' on the Elasticsearch installation.

Migration tool

The migration tool is located in an archive in the following directory:

```
\Win32\Disk1\Microservices\prepareFulltextIndexUpdate\
```

It is unpacked on the installation computer of Elasticsearch 6.x and contains the following files:

- application-prod.yml

Configuration file in which IP and port of Elasticsearch 2.x must be entered.

- `migration-9.0.0.jar`

Executable JAVA file that is started from the batch file.

- `prepareFulltextIndexUpdate.bat`

Batch file into which the path to the JDK 1.8 of Elasticsearch 6.x must be entered before starting.

Example: `D:\Elasticsearch6\jdk\bin\java`

Before starting the migration tool from the batch file, access from this IP to Elasticsearch 2.x must be allowed:

- **8.50:** Via the configuration file `elasticsearch.yml` from the `\config\` directory of Elasticsearch 2.x, add the IP of the migration tool to the `intrafind.security.subnet` parameter, set the `network.host` parameter to `0.0.0.0`, and restart the service.
- **8.10:** Via the configuration file `osfts.properties` from the `\configuration\` directory of Elasticsearch 2.x, add the IP of the migration tool to the `security.allowedhosts` parameter and restart the enaio® full-text service.

Then the Elasticsearch 6.x service can be started and the batch file can be executed.

The migration logs into the subdirectory `\log\`.

The process of the migration can be viewed via the following URL:

`http://[ES6-host]:[ES6-port]/systeminfo/_search`

The migration tool should be started several times. This migrates the data that has been newly created in the meantime in enaio® 8.50/8.10.

Update to enaio® 9.0

This is followed by the update to enaio® 9.0 with all components.

After the update, Elasticsearch 2.x will continue to be integrated with the old full-text index via the 'index' and 'search' microservices.

Before launching the microservices, the configuration file `application-es.yml` is used to enter the IP and port of Elasticsearch 6.x.

If Elasticsearch and Microservices are not running on the same computer, the IP address of the microservice must also be entered into the configuration file `intrafind.yml` from the directory `\config\` as `security.subnet`.

Then Elasticsearch 6.x will be available with the new index database.

To upgrade from enaio® 8.10 to enaio® 9.0, enaio® index-manager must then be installed and run.

Details can be found in the documentation in the installation directory.

The full-text index of enaio® 8.50/8.10 can be deleted and Elasticsearch 2.x uninstalled.

Update from enaio® 8.0 to enaio® 9.0

Updating enaio® 8.0 to enaio® 9.0 is accomplished by following these steps:

1. Update to enaio® 9.0 via the setup.
2. Installing Elasticsearch 6.x.
3. Installing microservices.
 - If the microservice 'index' is installed on the OSFTS computer, the configuration file `index-prod.yml` with the necessary parameters will be created automatically.
 - If not, the configuration file for the microservice 'index' must be extended by the following parameters:
`osfts.previous.build.version: 5.1.4`
 - Starting the microservice: The full-text index is created.

Creating the new full-text index will take some time, depending on the size of the full-text data and the existing infrastructure.

4. After the new full-text index has been created: Install and run enaio® index-manager.

Only after the new full-text index has been created and then enriched by enaio® index-manager are the full-text functions completely available.

Details about the enaio® index-manager can be found in the documentation from the installation directory `\Win32\Disk1\Microservices\Index-Manager\`.

E-Mail Management

'E-Mail' Document Type

For the adoption of e-mails, all e-mail document types as of enaio® Version 9.0 require an additional field for the location determination. A field with the internal name 'MAIL_DIGEST' is automatically created in enaio® editor when creating an e-mail document type. It is positioned so that it is not visible on the data sheet.

For all existing e-mail types, a field for location determination (text field, at least 50 characters) must be added manually.

The standard e-mail document type of enaio® editor contains another change: the date field is no longer created with the data type 'Date' but with the data type 'Date/Time'. For existing e-mail document types, this migration can also be done by data migration in the project.

Changing the data type only via enaio® editor is not possible and would lead to data loss for existing e-mails.

Service 'mailstorage'

The 'mailstorage' service for e-mail management is required by both enaio® client and the enaio® Outlook NG add-in from the enaio® GroupWise NG add-on.

E-mails and Outlook objects are created as of enaio® Version 9.0 by default in the format 'EML'.

The object definition of each e-mail object type requires a text field (default: MAIL_DIGEST) needed for determining the location. Object types and index data fields are configured in the following file: \services\service-manager\config\ems-prod.yml.

Example:

```
mapping:
  emsTypes:
    - name: "Email_1"
      internalName: "EMAIL_TYPE"
      deduplicationContext:
        internalName: "MAIL_DIGEST"
        mode: NONE
      mappingFields:
        - internalName: "MAIL_FROM"
          extractionName: "OS:MailFrom"
        - internalName: "MAIL_TO"
          extractionName: "OS:MailTo"
        - internalName: "MAIL_CC"
          extractionName: "OS:MailCc"
        - internalName: "MAIL_SUBJECT"
          extractionName: "OS:Subject"
        - internalName: "MAIL_BODY"
          extractionName: "OS:MailBody"
        - internalName: "MAIL_SUBMIT_TIME"
          extractionName: "OS:MailDate"
    - name: "Email_2"
    ...
```

If e-mail object types have the internal names of the standard and no other parameters, no configuration is necessary for them.

Configurations can contain further parameters:

- fixedValue: "value"
Fixed value: The value is always entered in the field.
- defaultValue: "value"

The value is only entered in the field if the service 'extraction' does not transmit a value.

- showIndexdata: true

The index data sheet is opened upon creation (default: false).

When creating multiple e-mails, index data sheets are never opened.

For details on configuring the microservice 'mailstorage', see [online](#).

MAIL_DIGEST – Location Determination

The field with the internal name 'MAIL_DIGEST' or an appropriately mapped field is required as of enaio® Version 9.0 for all e-mail object types. In this field, a value for the location determination is entered when creating an e-mail.

E-mails already in enaio® are automatically enriched during operation by the microservice 'mailstorage' with this location information.

Default setting: Every day between 11:00 p.m. and 3:00 a.m. (cron) the data is entered in runs of 1,000 objects. In the event of an error, an error value is entered in the field provided for this purpose.

The default settings can be adjusted via the configuration file `ems-prod.yml`:

```
autoUpdate:
  activated: true
  maxItems: 1000
  cron: "0+*/1+23,0,1,2+?+*+*+*"
  updateTargetValue: ""
  includeAutoMapped: true
  errorHash: "NO_MAIL_DIGEST"
```

E-Mail Inbox

The e-mail inbox in enaio® client has already been discontinued and is no longer available with this version.

E-Mail Viewer

The e-mail viewer is no longer part of enaio® client. E-mails are opened from enaio® client with an external e-mail application. In order for e-mails from enaio® client to be opened correctly in the external e-mail program, this must be configured as the default application in Windows for the 'eml' and 'msg' file types.

Administrative E-Mails

Administrative e-mails from enaio® server can also be sent SSL-encrypted. To do this, enaio® enterprise-manager specifies the encryption and the corresponding port.

For easier allocation in multi-server systems, the sending server is specified in the subject of the e-mail.

enaio® exchange

enaio® exchange is converted to the modern Exchange Web Services interface (EWS).

In a new installation, a connection via MAPI is no longer offered in the configuration interface but only the EWS interface. This eliminates some options, such as scripts.

The MAPI interface and the associated features can still be reactivated via a registry key.

Key: /OPTIMAL SYSTEMS/OsExchange; **string:** EnableDeprecatedMAPI

For updates to existing installations, the MAPI connection option and related features remain active and can continue to be used after an update without configuration changes.

Administration

New System Roles

The following new system roles are available:

- System role 'Subscriptions for others'
The update will give this role to all users with the 'Manage Subscriptions' role.
- System role 'Resubmissions for others'
The update gives all users this role.
- System role 'Client: Show workflow substitutions'
The update gives all users this role.
- System role 'Client: Administer public desktop'
Previously, the 'Administrator: Configure complete system' system role was necessary for this. The update will give users with this role the new role.

Clauses with Folder Reference

Clauses on register types and document types may refer to the folder data. The index data fields and basic parameters of the assigned folder type are available in addition to the object types fields.

Syntax:

```
folder ( folder field Boolean_Operator value )
```

Clauses for a folder type can be combined:

```
folder ( folder field1 operator value1 operator folder field2  
operator value2)
```

Combinations of clause with folder reference and clause without folder reference:

```
folder ( field operator value) operator object field operator  
value )
```

Example – the folder field and the object field cannot be empty:

```
folder ( [folder field] is not null ) and [object field] is not null
```

Use **Ctrl + Space** to get input support from a suggestion list in the enaio® administrator clause editor.

Rights Group Control

The new 'Rights group control' field type has the properties of the rights group add-on and the same configuration options via EXTRA entries.

There are differences in the supported field properties and the supported clauses.

In systems with a large number of users and groups, the search and rights calculation is significantly accelerated.

In contrast to the rights group add-on, enaio® client checks the entries against the user administration. User and group names that are currently not available in the user management cannot be saved.

Only enaio® client performs a validation; any data can still be entered via import.

Rights group control fields and fields with rights group add-ons can be used in parallel.

To migrate fields with permissions group add-ons to permissions group control fields, the new automatic action 'Rights group conversion' – `axacrgcnv.dll` – is provided after the upgrade.

The conversion takes place in two steps:

- The first step generates the data for those fields with rights group add-ons that are to be switched to the rights group control. This step can be done while the system is running and takes some time, depending on the number of fields, users, and groups.
- The second step may only be performed if the system is not used. It is determined whether additional data has been added to the system after the first step. Missing data is generated and the desired fields with rights group add-ons are converted to rights group control fields in the object definition and the object definition is activated.

When importing object definitions, the conversion is offered.

Rights group control fields require syntax clauses as of 8.50. Rights group control fields only allow #RIGHTGROUP# clauses and 'is null' clauses. Conversion of fields with rights group add-ons that contain other clauses or that are controlled via scripts is not possible and will result in errors. Also, some field properties are not supported.

Clauses for Access Rights

For a clearer development of clauses on access rights, conditions can be extended by adding TRUE/FALSE and thus be valid or invalid.

Example: `(field1 is not null) or TRUE`

This condition is always 'TRUE' in the evaluation.

Workflow: Permitted Object Types

Use the **Permitted object types** tab of a model in enaio® workflow-editor to specify the types of objects that can be used (with the transfer of objects into a workflow file) to start processes or which may later be placed in a workflow file.

Scripts and import are not affected by these constraints.

Existing process models can be started after the update over all object types and include all object types in the record. Imported models from previous versions also.

enaio® webclient does not yet support this feature.

Info Area of the Record

The record shows as standard a workspace and an info area. The areas do not have different features. The distinction between workspace and info area can be disabled.

enaio® webclient does not yet support this feature.

Configuration of the Participant Name

For both the taskflow and, in different contexts, the user selection for forwarding and substitution purposes, the participant name can be configured through the `as.cfg` file:

```
[OXWFDTL]
```

```
LISTCONFIG=%$$Name$$%| %Vorname% %Nachname%
```

Parameters:

%Login% - login name

%UserId% - User GUID

%Nachname% - Surname

%Vorname% - First name

%E-Mail% - E-Mail address

%\$\$Name\$\$% - Object name

The pipe character serves as a column separator.

Own attributes can also be specified, bracketed by the percent sign. The case is important.

enaio® webclient does not yet support this feature.

Content Preview

The PDF-based content preview, previously in beta status, is standard for this version.

Add-Ons

Previously, running an add-on in enaio® client was interpreted as changing the index data, even if that was not the case. To change this behavior, enaio® editor adds the following entry to the add-on configuration:

```
[DATA]
```

```
RESULTOKVALUE=IGNORE
```

Tables

Tables can be given the property **Supervisor field** in enaio® editor and can therefore only be edited by users with this right.

W-Templates

Previously, the template restriction was active by default for W-Documents: Rebuilding a W-Document required a published file format.

This behavior has been changed, the template restriction in enaio® administrator is not active as standard for new installations.

W-Template Selection via Event Script

The template dialog can be controlled for enaio® client via the event 'BeforeOpen'.

The following options are offered by the script control:

- Filter templates
Only templates whose names contain a string are offered:
 - It can be specified whether the name begins with the string or ends with the string, or if the string is contained in the name.
 - In addition, it can be specified that the character string is not displayed as part of the name.
- Specify template
The template is specified; the template dialog is not opened.
- Control options
Only the option 'create new' is active in the template dialog; the options 'Copy from file' and 'Move from file' are disabled.
- Disable selection

The template dialog is not opened, a document without pages is created.

Filter and template default apply to the templates associated with the user.

Script syntax for filters:

```
WriteProfString "GLOBALS", "TEMPLATEFILTER", "<filter>", osfile
asfile.ResultCode = 1
asfile.WriteToFile
```

Filter syntax:

Filter	Description
String	The template named <code>string</code> is fixed. The template dialog will not be opened.
Control character \$	Filter
\$String	Filter for templates that begin with the string.
string\$	Filter for templates that end with the string.
\$string\$	Filter for templates that contain the string.
Control character \$	'\$' instead of '#': Filter by hiding the string in the name.
Control character !+	Options: All options available (default). Example: #excel!+
Control character !-	Options: Only the 'Rebuild' option is available. Example: #excel!-

Script syntax for disabling the template dialog:

```
WriteProfString "GLOBALS", "SKIPCONTENT", "TRUE", osfile
asfile.ResultCode = 1
asfile.WriteToFile
```

Creates a document without pages.

System Check

The automatic action 'System Check' has been enhanced with new features:

- Correct mimetype

For documents, the MIME type, if not already available, will be added if the MIME type can be assigned based on the file extension.

Missing assignments can be created in the project.
- Correct the number of pages

This feature checks if the number of pages of archived documents is stored correctly and corrects corrupt entries.
- Orphaned folder entries

For documents, it determines if location data refers to non-existent folders. Such entries are deleted.

This could leave documents without a location. Therefore, a system check for unbound documents should be done. As a result, such documents are placed in the filing tray of the executing user.

Authentication with Kerberos

Authentication with Kerberos is now also possible.

Detailed information about this can be found in the administration manual.

enaio® client – Cache Directory

The cache directory on the client workstations can be specified by an entry in the `asinit.cfg` file.

Example:

```
[CLIENT]
OSTEMP=%LOCALAPPDATA%\enaio\tmp
```

The default directory is: `%LOCALAPPDATA%\Temp\OSTEMP`

Print out Data of the Security System

When printing security system data, users who have been administratively suspended or whose account validity has expired can be hidden.

XML Transformation

The automatic action 'XML transformation' logs errors if there are no XML files for transformation in the input directory. In action sequences such error messages can interfere. The 'ignore empty directories' option prevents this.

COM – GetObjectPattern

GetObjectPattern identifies the title of the specified object as it is used or configured as a window title.

```
GetObjectPattern
(long          lIdent,
long          lType,
long          lMode,
string        Titel)
```

Server-API - GetResultList/GetObjectDetails

For GetResultList and GetObjectDetails there is the new optional parameter 'RegisterTree':

[RegisterTree] (INT) 1 = Determine register tree information with ID and type in XML form
 0 = Default: no register tree information.

enaio® client

Color Scheme

In addition to the schemes **white** (standard) and **light gray**, **dark gray** and **black** have been added and a background for the ribbon can also be selected.

File Format Icon

As an additional static column of the hit list, a file format icon can be selected. As a tooltip, the icon shows the exact file extension.

Since this information is not completely available after an update, the necessary data in the database must be completed via the action 'System cleanup > Correct mimetype'.

Old versions (<6.20) did not detect these mimetypes. Therefore, it can happen in old systems that this action takes a longer time. The work in enaio® is not affected.

If required, additional icons can be added in the project via database changes, and further assignments of file extension and mimetype can be integrated.

If an icon catalog is configured for the first column of a hit list and the icon corresponds to the file format icon, the object type icon is displayed instead of the icon catalog.

All columns of a hit list have received tooltips.

No file format is shown for cross-type reference documents. Likewise, for image documents with several documents of different format.

Icons for Add-Ons and Buttons

Add-ons received type-specific icons that symbolize the feature.

Example: WWW add-on 

Buttons can also be assigned an icon.

Substitutions

Substitutions can also be created in enaio® client via the menu **Enaio > Absence**. It now shows who will act as a substitute for the user. This display can be disabled via the new 'Client: Show workflow substitutions' system role.

Document Sharing

The number of users already marked for shares will be displayed in the dialog. This makes selection in large lists and in the use of filters clearer.

Hit List Sorting

You can select more columns for multiple sorting with **CTRL+Shift+Click**. The columns are marked.

Sortings can be saved user-specifically and are part of profile administration.

Pin Column

Using the context menu of a column title, the columns on the left to the current index data column can be fixed in a hit list. When scrolling horizontally, only the columns on the right are scrolled. Pinning is saved with the column configuration.

Fixations can be saved user-specifically and are part of the profile administration.

Location Focus

The focus when opening a location can be preset on the register tree or list via **Settings > Auto** and then control the keyboard layout after opening a location.

Register Hit Lists

Up to now, the folder index data from the hit list setting of the document basic parameters were displayed for register hit lists.

Folder index data is now also part of the register basic parameters and could be configured separately.

After an update, register hitlists are displayed without the previously displayed fields of folder index data.

The Workflow Inboxes

Even for workflows that a user cannot start but in which they are participants, the user can use the settings to configure an inbox.

Filing Tray

W-Documents can also be placed in the filing tray and in the workflow file by the user and by the import also without type.

Expression

As with the printing of black and white documents, landscape formats can be automatically rotated when printing color and grayscale images.

Paper Format for Scanning

The scan settings will more closely monitor which paper formats the scanner supports and, if possible, offer additional formats and custom preferences.

enaio® webclient

enaio® webclient

For enaio® webclient, service packs will continue to be created at regular intervals in order to fulfill any remaining functionalities.

For this purpose, Technical Release Notes are also published that provide more detailed information on changes and new features. The document is also available [online](#).

GZIP in enaio® webclient

enaio® webclient 9.0 SP1 enables the web client to transmit textual content in a compressed manner, which enhances the performance when transmitting over narrow-bandwidth lines. Two attributes were added to the server.xml file in the conf directory of the web client installation (compressibleMimeType and compression) to control the use of compression.

Sending Object Links in enaio® webclient

enaio® webclient 9.0 SP1 enables the web client to send object links from all enaio webclients (browser, desktop, and mobile web client).

Printing Documents in enaio® webclient

In enaio® webclient 9.0 SP1, when used as a desktop application, the web client is able to print directly from object lists via the document's context menu.

Masks in enaio® webclient

From enaio® Version 9.0, visual equality of masks can be guaranteed in enaio® webclient and enaio® client, if masks are designed according to the instructions in the style guide.

The style guide is available in the installation directory and [online](#).

Via the administration console of enaio® webclient you can switch back to the design of 8.50:

```
com.os.osdrt.ui.responsive.mask.layout = no
```

enaio® webclient as a Desktop Application

enaio® webclient offers via the user menu the download of enaio® webclient as a desktop application. Via the download enaio® webclient can be installed as a desktop application by the user without administrative rights.

The possibility to download can be administratively disabled.

enaio® webclient as a desktop application can also be installed via an MSI package.

Users require the URL of enaio® gateway, a user name, and a password to log in.

This version corresponds in functionality and user guidance to enaio® webclient, but unlike this has access to the local operating system as a desktop application. As a result, this version can work with applications at workstations, such as the enaio® Office NG add-in.

At workplaces where both enaio® client and enaio® webclient are installed as desktop applications, the enaio® add-ins only connect with enaio® client.

The data transfer with the enaio® Office NG add-in in conjunction with enaio® webclient as desktop application only supports server-side data transfer. Client-side data transfers with dialogs are not executed.

enaio® mobile

Based on the enaio® webclient, touch-screen-optimized apps (enaio® mobile) are now available for Android and iOS.

enaio® mobile works in concert with enaio® webclient and differs only in its operation by supporting typical touchscreen functionality.

The enaio® mobile installation file is available at the corresponding Google and Apple app stores.



[enaio® mobile for Android](#)

Version 7 or later



[enaio® mobile for iOS](#)

Version 11 or later

The previous apps can still be used.

The use of compression is also possible in enaio appconnector. If you have any questions, please contact the OPTIMAL SYSTEMS support team.