Documents

Release 15.2.3.7

CONTACT Software

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Introduction

Managing, utilizing and ensuring the availability of documents are key tasks in any company. In view of the vast number of documents, interfaces and systems involved, conventional archives on network drives or in email systems lead to a dead end. *CONTACT Documents* provides a clear overview using intelligent document logistics – even in complex processes – while at the same time supporting team work.

The standard access system

2.1 Roles

The roles listed below are used by cs.documents to define the access to documents. Details are explained in the *Access Control System* (page 2) chapter of this documentation.

- public: Read access to documents
- Documentation: Users that should be able to create or change documents
- Administrator: Nearly full access to all documents

2.2 Access Control System

The standard access system grants the read access to every user with the role public which allows the user to display the attributes of a document and to view derived files. This access is granted with the *Access Control Domain* "cs.documents.Document'.

The Access Control Domain cs.documents: Documents - Unprotected grants the read_file access to every user with the role public which allows the user to read all files. In the standard this affects all documents of the class document. Documents of derived classes like model are not affected by this Access Control Domain. You might change the predicate cs.documents: Unprotected documents to define which documents should grants the access to the non derived files to public.

Users that have to create, modify or edit documents should have the role Documentation. These role grants nearly full access for documents with the status Draft (ACD cs.documents: Documents (DRAFT)) and read access - including the original files - for documents in revision (ACD cs.documents: Documents (REVISION), review (ACD cs.documents: Documents (REVIEW), for blocked or obsolete documents (ACD cs.documents: Documents (BLOCKED, OBSOLETE)) and for released documents (ACD cs.documents: Documents (RELEASED)).

The standard rejects any attempt to change a released document. The *Access Control Domain* cs.documents: Documents (RELEASED) defines an exclusive save access granted to nobody.

You might adjust the predicates of the access control domains if you do not use the standard object lifecycles doc_standard and doc_approve.

Note that the access system is influenced by other modules. At this time cs.shared provides an access control domain that grants full access on documents to the administrator.

Defining the default document class

The class can be configured using the ddc (default document class) property. The class is used if an action is run on documents where the class is not specified by any context. Creating a new document by dragging from the Microsoft Windows desktop and dropping into the empty area of the main window in the system client or the file editing window provides an example of one type of this context-free action. If the property is not set, the document class is used.

This means that setting this property is useful if different instances of access to document management have been configured for different user groups.

Dashboard Widgets

4.1 my-documents - Last modified Documents

The documents that appears in this widget are defined by the $\it Object\ Rule$ cs-web-dashboard: My Documents.

Ident mechanism

A document is uniquely identified in the system using a number and an index. However, there are situations where the actual document number together with the version is not unique. For example, a document could consist of several sheets. In this case, it is necessary to separate the technical document number (zeichnung.z_nummer) from the document number that appears in the *Document No*. field.

The ident mechanism provides an option to address this issue. In order to use the mechanism, the iden property has to be set to true. In addition, the class document has to contain the ident attribute. This is then assigned to the document number in the masks. If the ident mechanism is active, the user identifies a document using the ident the system used to generate the document number for the entry in the database instead of the original document number. The number is generated before calling the standard user exits at the pre execution time.

The calculated document number consists of a part of the ident and sequential number. The ipre property specifies how many digits of the ident are taken over in the document number. The isuf property determines how many digits the sequential number is to consist of, which are then attached to the number.

Batch operations

6.1 Change Status

The standard solution of cs.documents (page 7) contains an implementation that allows you to change the status for several documents in one step.

From a technical point of view the batch operation has 4 parameters

- param1: The integer value of status as stored in z_status.
- param2: The status name
- param3: A flag that determines if documents that are referenced by this document should be included to the batch operation. If the flag is set and the status of a document changes while executing the batch operation the system tries to change the status of the referenced documents in the same way. If the status of a document is already the target status the status of referenced documents is not changed. The parameter is not visible in the standard mask that parametrizes the batch operation. If the status of referenced documents depends on the status of the referencing document you should implement that dependency in your customizing and the behaviour should not depend on the way the user changes a status.
- param4: If the value is 1 the document will be unlocked as part of the after the status has changed.

PowerScript API

PowerScript is the development environment of CONTACT Elements, which enables you to develop add ons, user exits, stand alone scripts or complex applications. The scope of this documentation is the description of the classes and functions provided by this pacakge.

Contents:

7.1 cs.documents

7.1.1 Dialog Hooks

The module contains some dialog hooks used by cs.documents (page 7)

```
cs.documents.std_hooks.CheckItemReference(hook)
```

Check if an item reference is obligatory for a document with the given category.

```
cs.documents.std_hooks.OLCCheckReferencedHook(hook)
```

Hook that checks if referenced documents have an appropriate state. If not, the user will be asked if he wants to continue the action.

Note that this hook will only work with the standard definitions of the object lifecycle.

7.1.2 Document

class cs.documents.Document(**values)

CalculateOLC (ctx)

The function is called to calculate the object life cycle from the attributes provided by ctx.dialog or self. You can overwrite this function to adapt the system behaviour. If there is no rule, you should return None. The function is used to prevent object modifications that implies a change of the object life cycle if the document state is not 0.

classmethod CalculateSourceOID (ctx)

Called by the framework to set the <code>source_oid</code> attribute during the creation of a document. The default returns the <code>cdb_object_id</code> of the template if you use *Create from template* and the <code>cdb_object_id</code> of the <code>copy</code> source if the <code>CDB_Copy</code> operation is used.

CreateIndex (new_index=", **kwargs)

Creates and returns a new version of self. You can use new_index to predefine the value of z_index. If new_index is emtpy it is generated using the index schema of your installation.

GetActivityStreamTopics (posting)

Returns the Activity stream topics where a posting to the document should occure. The default implementation assigns a posting to the project and the object itself.

classmethod GetDefaultErzSystem()

Retrieve the default that has to be used to initialize the attribute <code>erzeug_system</code> from the personal setting <code>cs.documents.default_cad</code>.

classmethod GetInitialCopyValues()

The function is called for CDB_Copy to retrieve values as dict that should not be copied from the previous version. For interactive operations these attributes are set during the pre_mask call. For batch operations the attributes are set in pre.

classmethod GetInitialCreateValues()

The function is called for CDB_Create to retrieve initial values as dict. For interactive operations these attributes are set during the pre_mask call. For batch operations the attributes are set in pre if no value is supplied before.

classmethod GetInitialIndexValues()

The function is called for CDB_Index to retrieve values as dict that should not be copied from the previous version. For interactive operations these attributes are set during the pre_mask call. For batch operations the attributes are set in pre.

GetOLCRelevantAttributes()

The function should return a list of attributes that are relevant for CalculateOLC (page 7) to determine the object life cycle.

GetReadonlyAttrsIfOLCStarted()

Returns a list of attributes that should be set readonly if the document has left the initial state. The default implementation calls <code>GetOLCRelevantAttributes</code> (page 8).

GetReviewer()

Returns a list of personal numbers of the persons that should review or have reviewed the document. This is e.g. used to implement the recipient list *Reviewer* of the sharing. The default tries to map the value of the attribute pruefer to the personal no.

HandleUnlockForeignLock (f, previous_locker, ctx)

The framework calls this function as part of the post user exit of the CDB_Unlock action of the class cdb.objects.Object.cdb_file.CDB_File if the user has unlocked a file locked by the user identified by previous_locker. The function generates a sharing to send this information to the previous locker. You might overwrite the function to adapt this behaviour.

IsValidInteractiveTargetStatus (target_status)

Called by the framework as an additional check if a target status should be selectable by an user. If you return False the standard implementation ensures that the status is excluded in the target status catalog of the operation CDB_Workflow. Trying to set the status of self to target_status using a batch operation will also fail. You can overwrite this function to exclude status from interactive use.

PreviousIndex

A cdb.objects.ReferenceMethod_1 that returns the document that represents the previous version of self usually by selecting all versions and sorting them using the configuration of the property ixsm and z_index. This is quite expensive - if you know your indexing schema you should use an implementation that do not need DB-Statements.

Note that this function will not work for a 'delete'-'post' user exit if your sorting uses any other attribute from zeichnung than z_index for sorting.

copyDoc(**kwargs)

Returns a copy of self using makeNumber to generate a new document number. The function uses cdb.objects.Object.Copy which means at this time that there is no access check and no user

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exits are called. The function also copies the non derived files of the document using cdb.objects. cdb_file.CDB_File.copy_file. At this time this function does not reset the locking information.

The function might be replaced in future versions - you should use cdb.objects.operations. operation for the regular behaviour.

get_template_preset_attributes()

Return a list of attribute names that are to be copied from the template document, when the operation *New from template* is called. You may overwrite this method to customize the list of attributes.

resolveReferencedDocuments(depth=0)

Returns a list of all documents that are referenced by self by navigating <code>DocumentReferences</code> until depth is reached or a recursion occures. If depth is 0 all references will be returned. The result does not contain any duplicates and will be sorted in a way that if <code>D1</code> references <code>D2</code> that <code>D1</code> is located before <code>D2</code> in the result as long a there are no recursions.

If a document reference points to an invalid document this reference will be ignored.

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