

iKnowBase Development Reference

Reference Documentation for the programmer

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Part I. iKnowBase Development Reference

1. Crop areas

Crop areas are predefined definitions used in image processing functions where cropping is part of the functionality. Use of crop areas guarantees the same scaling attributes.

1.1 Properties

This section describes the properties of a crop area, as shown on the corresponding Edit pane.

edit usage
Save (s) Save and close (x) Copy Delete Cancel

Crop areas: Bilde skalering:1000 x 2000

Crop areas are used to define a predefined set for use in image functions

Subsystem in

Display title us

* Sort key

* Crop height

* Crop width

Database information

Guid 31ECA7320676F413E05000A18005E01

Id 8083

Created 17.03.2014 13:03 by ORCLADMIN

Updated 18.03.2014 14:26 by ORCLADMIN

Master table RSL_CROP_AREA (available crop areas)

Patch sets

[Add to patch set](#)

Action	Id	Name	Last built

Property	Description
Subsystem	Select the appropriate subsystem.
Display name	Name to describe the crop area.
Sort order	Used to order the records of crop sizes.
Crop width	Enter the width of the image.
Crop height	Enter the height of the image.

2. Database Functions

Several components of iKnowBase can be configured to use database functions (written in Oracle PL/SQL) for customization. Rather than specify the names of the functions at each use, they are collected in this module. Database functions come in several flavors, depending on their intended usage scenarios.

2.1 Properties

This section describes the properties of a database function, as shown on the corresponding Edit pane.

The screenshot shows the iKnowBase 'edit' pane for a database function. The title bar indicates the user is ORCLADMIN (n) and the database is IKNOWBASE@ORCL@projekt10. The main content area is titled 'maintain "test event procedure for users" of type "database functions"'. The form includes the following fields:

- maintain custom pl/sql commands. custom commands can be used in iknowbase and this is a central archive
- subsystem: [dropdown menu]
- * context: Event procedure
- * name: Test Event procedure for users
- * pl/sql command: sample_audit_log_functions.user_event
- description: Test Event procedure for users

Below the form are three sections:

- package/procedure info:** owner: IKNOWBASE, object type: PACKAGE, status: VALID, created: 20.05.2010 10:00:28, last ddl time: 02.08.2011 10:34:01
- procedure signature:** name: PARAMS, in/out: IN, datatype: IKNOWBASE.OT_EVENTPARAMS; name: OLDREC, in/out: IN, datatype: IKNOWBASE.OT_USER
- database information:** guid: 86F4216E07E0B5EFE040000A17007AF0, id: 67673, created: 19.05.2010 16:18 by ORCLADMIN, updated: 19.05.2010 16:19 by ORCLADMIN

Property	Description
Subsystem	Select the subsystem the profile belongs to
Context	Select the appropriate context for which you want to call the PL/SQL command. Available values are: <ul style="list-style-type: none"> • Event procedure: The function can be used from iKnowBase events only. • Form:Custom Show: The function can be used from Forms • Form:Custom Save: The function can be used from Forms • Parse/build url from a listener url: The function handles build/parse URLs where a listener_url is used on a target. Listener_urls enables functionality for readable URLs. • Portlet:Run PL/SQL function: The function can be used from the "Run PL/SQL function" portlet • Pres.Style:Database function: The function can be used from presentation styles (advanced and simple)

Property	Description
	<ul style="list-style-type: none"> • Pres.Style:Format clause: The function can be used to format data from a presentation style • Target/Homeplace:Database function: The function can be used from a target and a target selector. • Solr - GetDocument: The function can replace the default behavior in <code>ikb_solr.get_document</code>, used by the indexing process to SOLR Search Engine. • Solr - attribute functions: The function extends the default behavior in <code>ikb_solr.get_document</code>, used by the indexing process to SOLR Search Engine. Can be called either per document or for a single attribute. • Tooltip functions: Select a special add link to create tooltip functions.
Name	Type the name of the database function.
PL/SQL Command	Type the PL/SQL command that you want to call from the iKnowBase Oracle database.
Description	Type a description for this database function.
Does the function execute dml-statements?	If the function executes insert, update or delete statements, it must be executed differently (but not as efficient) than functions without it. The flag is only applicable for Presentation style functions. If you experience the error : ORA-14551 cannot perform a DML operation inside a query, the flag should most likely be checked.
Package/ Procedure info	Displays info about the database object like owner, object type, status, created date and last ddl time.
Procedure signature	Displays the signature of the function/procedure.

2.2 Database function signatures

Event procedure - document events

```
<package>.<procedure name> (
  p_event_params      in      ot_eventparams,
  p_old_record        in      ot_document
);
```

Event procedure - user events

```
<package>.<procedure name> (
  p_event_params      in      ot_eventparams,
  p_old_record        in      ot_user
);
```

Event procedure - group events

```
<package>.<procedure name> (
  p_event_params      in      ot_eventparams,
```

```

    p_old_record    in      ot_group
);

```

Event procedure - acl events

```

<package>.<procedure name> (
    p_event_params  in      ot_eventparams,
    p_old_record    in      ot_acl
);

```

Event procedure - File upload events

```

<package>.<procedure name> (
    p_event_params  in      ot_eventparams,
    p_old_record    in      ot_upload_temp_document
);

```

Parse/build url from a listener url

The function names must support two methods: if p_method=BUILD then you will receive a set of values and return the values to be shown in the URL. p_method=PARSE must do the opposite.

```

Function <function name> (
    p_method    in varchar2,
    p_target_guid in varchar2,
    p_fragments in ct_portlet_runtime_fragments default ct_portlet_runtime_fragments()
return ct_portlet_runtime_fragments;

```

Target/Homeplace: Database function

```

<package>.<procedure name>;

```

Form:Custom Show

```

<package>.<procedure name> (
    p_style_id      in      number
    p_document_id   in      number,
    p_parent_id     in      number,
    p_site_id       in      number,
    p_reference_path in      varchar2,
    p_page_url      in      varchar2,
    p_back_url      in      varchar2
);

```

Form:Custom Save

```

<package>.<procedure name> (
    p_back_url      IN VARCHAR2,
    p_site_id       IN NUMBER,
    p_style_id      IN NUMBER,
    p_request       IN VARCHAR2 DEFAULT 'save',
    p_page_url      IN VARCHAR2 DEFAULT NULL,
    p_document_id   IN NUMBER DEFAULT NULL,
    p_parent_id     IN NUMBER DEFAULT NULL,
    p_document_type_id IN NUMBER DEFAULT NULL,
    p_title         IN VARCHAR2 DEFAULT NULL,
    p_acl_id        IN NUMBER DEFAULT NULL,
    p_url           IN VARCHAR2 DEFAULT NULL,
    p_description   IN CLOB default null,
    p_text_indexed  IN CLOB default null,
    p_attribute_clobs IN ct_value_clobs default ct_value_clobs(),
    p_long_text_ids IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,

```

```

p_valid_from          IN VARCHAR2 DEFAULT NULL,
p_valid_to            IN VARCHAR2 DEFAULT NULL,
p_status_id          IN NUMBER DEFAULT NULL,
p_external_key        IN VARCHAR2 DEFAULT NULL,
p_file                IN VARCHAR2 DEFAULT NULL,
p_document_format     IN VARCHAR2 DEFAULT NULL,
p_attrib_value        IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_old_attrib_value    IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_attribute_id        IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_line_no             IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_line_no_ref         IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_external            IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_dav_external_guid   IN VARCHAR2 DEFAULT NULL,
p_template            IN NUMBER DEFAULT NULL,
p_document_id_ref     IN NUMBER DEFAULT NULL,
p_attachment          IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_task_guid           IN VARCHAR2 DEFAULT NULL,
p_task_step_guid      IN VARCHAR2 DEFAULT NULL,
p_version             IN VARCHAR2 DEFAULT NULL,
p_version_no          IN NUMBER DEFAULT NULL,
p_version_comment     IN VARCHAR2 DEFAULT NULL,
p_handle_redirect_local IN BOOLEAN DEFAULT FALSE,
p_reference_path      IN VARCHAR2 DEFAULT NULL,
p_session_id          IN VARCHAR2 DEFAULT NULL,
p_return_type         IN VARCHAR2 DEFAULT NULL,
p_callback_function   IN VARCHAR2 DEFAULT NULL,
p_last_timestamp      IN VARCHAR2 DEFAULT NULL,
p_attribute_file_ident IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_attribute_file       IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_files_guid_remove   IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr,
p_files_attribute_remove IN ikb_portal_api.vc_arr DEFAULT ikb_portal_api.empty_vc_arr
);

```

Portlet:Run PL/SQL function

```
<package>.<procedure name>;
```

Tooltip function (PLSQL)

```

<package>.<function name> (
  p_site_id          IN NUMBER,
  p_document_id      IN NUMBER,
  p_attribute_id     IN NUMBER,
  p_page_url         IN VARCHAR2,
  p_back_url         IN VARCHAR2,
  p_reference_path   IN VARCHAR2,
  p_language_id     IN VARCHAR2,
  p_version_no       IN NUMBER
)
  RETURN VARCHAR2

```

Solr - GetDocument

```

<package>.<function name> (
  p_solr_message in ot_solr_message,
  p_indexerType in varchar2 default 'SOLR')
  return ct_solr_rows;

```

Solr - attribute functions

```

<package>.<Procedure name> (
  p_document_id      in number,
  p_attribute         in ot_document_attribute default null,
  p_solr_data         in out ct_solr_rows default ct_solr_rows()
);

```

Pres.Style:Database Function (Advanced function)

Advanced function has two variants depending on the datasource in the presentation style. If the datasource is set to DOCUMENT use this signature:

```
<package>.<function name> (
  p_site_id          IN   NUMBER,
  p_document_id     IN   NUMBER,
  p_attribute_id    IN   NUMBER,
  p_page_url        IN   VARCHAR2,
  p_back_url        IN   VARCHAR2,
  p_reference_path  IN   VARCHAR2,
  p_language_id     IN   VARCHAR2
) RETURN VARCHAR2/CLOB/NUMBER/DATE
```

and if the datasource is VERSIONED_DOCUMENT, this is the correct signature:

```
<package>.<function name> (
  p_site_id          IN   NUMBER,
  p_document_id     IN   NUMBER,
  p_attribute_id    IN   NUMBER,
  p_page_url        IN   VARCHAR2,
  p_back_url        IN   VARCHAR2,
  p_reference_path  IN   VARCHAR2,
  p_language_id     IN   VARCHAR2,
  p_version_no      IN   NUMBER
) RETURN VARCHAR2/CLOB/NUMBER/DATE
```

A good advice is to use the latest one so it can be used for both datasource. You must then make a test in the function to check if its a version or not you are working with. If returning a number or a date, make sure to set the corresponding return type to the same, it will enable a correct sort command (not only alphanumeric sort).

Pres.Style:Database Function (Simple function)

Simple functions don't take any parameters (e.g. dbms_random.random).

```
<package>.<function name> or <sql-function>
```

Pres.Style:Format Clause

Use an SQL-function like char/date-functions, arithmetic functions or SQL built ins. #value will be substituted with the attribute value. Examples:

```
to_char(#value, 'hh24.mi');
```

```
dbms_random.random;
```

Target/Homeplace: Database function

```
<package>.<procedure name>;
```

2.3 Register a Database Function

You must register database functions, which will be called through the URL in iKnowBase Page Engine. For Custom Save Functions (used in forms) this will be done automatically for you. If you need to verify/register manually, use the screen for Package Aliases.

3. Domains

An iKnowBase installation may serve multiple uses at the same time. For example, it may serve an external site (<http://www.example.com>), an intranet (<http://intra.example.com>), a partner site (<https://partner.example.com>) and a customer service site (<https://service.example.com>).

iKnowBase Domain defines a preference set that apply to a particular host name, to allow the user experience to differ between them.

See *Development Guide* for further information.

3.1 Properties

This section describes the properties of a domain, as shown on the corresponding Edit pane tabs.

Edit Tab

The Edit tab contains general information about the domain.

The screenshot shows the 'Domain: DEFAULT:0' configuration window. It includes a menu bar (edit, ooms mapping, info.type/pres style, text elements, usage) and a toolbar (Save (s), Save and close (x), Copy, Delete, Cancel). The main content is organized into several sections:

- Name, userinfo and default values:** Subsystem (dropdown), Server name:port (DEFAULT : 80), Default domain (checkbox checked), Description (text input), Custom access control (edit/delete) (dropdown), Custom access control (add) (dropdown), Public user (PUBLIC_BRUKER (Sample: Guest user)), Always run as this user? (checkbox), Default language (dropdown).
- Weight on freetext search:** Define which hit types that will be prominent in the resultlist for a search. The values defines the weight between title, metadata, description and content. Define the value as a number value.

Weight for title	10
Weight for metadata	1
Weight for description	2
Weight for the content	1
- Database information:**

Guid	72AD838BFB241078E040000417001F8C
Id	8
Created	03.09.2009 16:51 by ORCLADMIN
Updated	28.01.2015 15:51 by ORCLADMIN
Master table	IKB_PORTAL_PREFERENCES (Domains)
Detail tables	PORTAL_DOCUMENT_TYPE,IKB_APPLICATION_URL
- URLs:**
 - iKnowBase application: /
 - Page engine: /
 - Content server: /Content/
 - WebDAV server: /
 - Development Studio: /ikb\$console/development/
 - Static resources: /ressurs/
- Resource information:**
 - Target for "select dimension": CS Component Selectlist
 - Target for "select document link":
 - Target for "select image":
 - Mail server:port: smtp.evita.no :25
 - Log time consuming queries >= 3.1 seconds
- Patch sets:**

Action	Id	Name	Last built
Add to patch set			

Property	Description
Subsystem	Select the appropriate subsystem.
Server name:port	The servername and port this domain applies to, for example <code>www.example.com : 80</code> .
Default domain	Indicates the default domain. Default domains will be used where the domain context is unknown, e.g. sendmail functions. For that reason, it must always be one default domain defined.
Description	Type a description for this domain.
Custom access control (edit/delete)	Select a custom access control function, used to extend or override the default access control when editing and deleting documents.
Custom access control (add)	Select a custom access control function, used to extend or override the default access control when adding documents.

Property	Description
Public user	The name of the iKnowBase user used for clients that are not logged on. This property displays all the guest users defined in User administration.
Always run as this user	Indicates whether to always run as the public user, even for clients that are in fact logged on.
Default language	The default language used when iKnowBase does not find a language on the individual portlet, the user or the browser language.
Weight for title	Search score weight for hits in the document title. Value must be between 0.1 and 10.
Weight for metadata	Search score weight for hits in the document metadata. Value must be between 0.1 and 10.
Weight for description	Search score weight for hits in the document description. Value must be between 0.1 and 10.
Weight for Content	Search score weight for hits in the document content (URL, body, text, or file). Value must be between 0.1 and 10.
iKnowBase application	Path to the deployed iKnowBase ikbViewer application, including the trailing slash. For a default installation, use "/".
Page engine	Path to the iKnowBase page engine, including the trailing slash. For a default installation, use "/page/".
Content server	Path to the iKnowBase content server, including the trailing slash. For a default installation, use "/Content/".
WebDAV server	URL to the WebDAV server. Certain clients will only work properly if the WebDAV server available at the root context. Either using User-Agent detection (default) or a separate host, e.g. "https://webdav.example.com". Also, most clients will require https to be enabled in order to work properly. Note: A full URL is required. Relative URL (e.g. "/") is not supported.
Development Studio	Path to the iKnowBase Development Studio, including the trailing slash. For a default installation, use "/ikbStudio/".
Static resources	Path to the deployed resource directory. For a default installation, use "/ressurs/"
Target to dimension page	Target to the dimension selector popup, typically used when selecting dimensions for search or categorize.
Target to archive page	Target to the document archive page, typically used when selecting "related documents" during publishing. Default value should be set to null.
Target to image page	Target to the image archive page, typically used when selecting images during publishing. Default value should be set to null.
Mail server : port	The servername and port used when sending e-mail from this domain.

Property	Description
Log time consuming queries	When a viewer use longer time than the time entered here, the query will be logged to sql_logger automatically. The value should be in seconds e.g. (5 or 0.5).

Document Type / Presentation Style Tab

The info.type/pres.style tab contains information on the default presentation styles for the various document types. This information is used for viewers without a presentation style, normally for viewers presenting one single document.

The screenshot shows the iKnowBase web interface. At the top, there are navigation tabs: 'user directory', 'metadata management', 'development tools', 'advanced', and 'database admin'. Below these, there are more specific tabs: 'edit', 'oo/ims mapping', 'info.type/pres style', 'text elements', and 'usage'. The main content area is titled 'maintain "ikb-systest.prosjekt11.evita.no:80" of type "domains"'. It contains a table with two columns: 'actions' and 'presentation style'. The 'actions' column lists various document types, and the 'presentation style' column lists the corresponding presentation styles. The interface also includes a 'Save (S)' button and a 'Save and close (X)' button.

Property	Description
Add mapping	Selector of available document types.
Document type	List of all document types defined in the system.
Presentation style	Specifies which presentation style will be used for displaying information if a viewer does not specify a presentation style.

Text Elements Tab

The properties on this tab enable you to define texts to be used in the component. The texts are available as FreeMarker model objects. Multiple languages are supported.

maintain "prosjekt10.evita.no:7778" of type "domains"

[Save](#) [Save and close](#) [Cancel](#)

enter text labels you want to use in the template. all labels are translateable

id	text
<input type="text" value="frontTitle"/>	<input type="text" value="Hjemmeside"/> n
<input type="text"/>	<input type="text" value="Homepage"/> us
<input type="text"/>	<input type="text"/> n
<input type="text"/>	<input type="text"/> n
<input type="text"/>	<input type="text"/> n

Property	Description
Id	Type an identifier for the text element.
Text	Type the text labels that you want to use in the template. If multiple languages are supported in the solution, clicking the text input item expands hidden input items for all the languages, the language codes are specified behind the input fields.

4. E-mail Integration

The iKnowBase E-mail Reader is a separate program that reads e-mails from an e-mail server and stores into the database, ready for further processing. The e-mail integration components defines e-mail accounts used by the iKnowBase E-mail Reader.

See *Development Guide* for further information.

4.1 Properties

This section describes the properties of an e-mail integration, as shown on the corresponding Edit pane.

The screenshot shows a configuration window titled "E-mail integration: URL-IMAPS (mysamplemail.com)". The window has a blue header with "edit" on the left and "help" on the right. Below the header are buttons for "Save (s)", "Save and close (x)", "Copy", "Delete", and "Cancel". The main area is titled "Define email reader configuration" and contains the following fields:

- Subsystem: [icon]
- Name: URL-IMAPS (mysamplemail.com)
- Mail protocol: URL (dropdown)
- Mail protocol URL: imaps://test%40gmail.com:password@imap.gmail.com:993/
- Delay in seconds: 3600
- Email reader procedure: SYSTEST_EMAILREADER_PROCESSOR.process
- Fetch mode: Fetch all (dropdown)
- Last received date: 01.01.2000 12:00:00
- Active?:
- Delete messages after copying:

Property	Description
Subsystem	Select the appropriate subsystem.
Name	Type a name for the e-mail integration point.
Mail protocol	Select between POP3 (default), POP3S (secured), IMAP, IMAPS (secured) or URL.
Mail server URL	The full URL to the mail server from which you want to retrieve the e-mails. Only applicable when mail protocol is URL.
Mail server	The address of the mail server from which you want to retrieve the e-mails. Only applicable when mail protocol is different than URL.
Username to mailserver.	The username used to log in to the mailserver. Only applicable when mail protocol is different than URL
Password	The password used to log in to the mailserver. Only applicable when mail protocol is different than URL
Delay in seconds	Defines the time interval in seconds between each run of the emailreader
Email reader procedure	The name of the PL/SQL procedure/package used for processing the retrieved e-mail.
Fetch mode	Defines a strategy how to fetch email messages for IMAP and URL mail protocols. "ALL" will receive all unread emails while the two other options will receive emails equal or later than "Last received date" (The date will be updated every time the emailreader is called). Choose between server side filtering (not all email servers support this) or client side filtering.

Property	Description
Last received date	The date emails was last received from the email server. Used in combination with "Fetch mode". Only applicable when mail protocol is different than POP and POPS.
Active	A check box indicating whether this e-mail account is active, and should be processed by the e-mail reader.
Delete messages after copying	A check box indicating whether the e-mail reader shall delete e-mail from the server after storing it into the database.

5. Event

Whenever iKnowBase stores or updates a document (an information object), file uploads or a metadata object (user, group, acl) in the content repository, it can send a notification about this to the outside world. Such a notification is called an event, and it is implemented by having iKnowBase to call a custom PL/SQL procedure.

The event definition specifies which procedure should be called and under what conditions the procedure should be called.

An event is an action performed when certain operations like insert and update are carried out on a given object. For document, in addition to the operations, the document can have some conditions that need to be satisfied in order to execute the event.

5.1 Document Event Properties

This section describes the properties of a document event, as shown on the corresponding Edit pane.

Property	Description
Subsystem	The subsystem the profile belongs to
Event for	Set automatically to documents.
Name	Type a name for the event.
Sort Key	A number that defines the order in which several events are sorted. If a document operation triggers several events, the event with the lowest sort key value is executed first.
Description	Type a description of the event.
Event procedure	Select the database procedure that will be called when the event triggers.
Document types	Select the document types that this event applies to.
Enable	Enable applies to enabling or disabling a event
Operation	Select which operations this event applies to, and specify whether the event is enabled or not. The set of operations that this event applies to: <ul style="list-style-type: none"> • Insert applies when a new document is inserted • Update applies when an existing document is updated

Property	Description
	<ul style="list-style-type: none"> Restore document applies when a document is restored from the trash bin Delete applies when an existing document is deleted Enable applies to enabling or disabling a event
Delete operation	<p>Select if the event should run when deleting an object, and if it should be executed before or after the actual delete.</p> <ul style="list-style-type: none"> None - will not execute on delete Before delete - executes immediate before the object is about to be deleted After delete - executes immediate after the object is deleted
Flexfield 1, 2 and 3	A user selectable text value that is sent to the event procedure.
Define condition	<p>You can choose between two types of parameters:</p> <ul style="list-style-type: none"> SQL parameter: Parameters defined as SQL parameters Attribute: iKnowBase attributes, used to set constant values in the query. <p>When the parameter is selected, you must save before you can set any values.</p>
Actions	Delete the parameter by clicking the icon
Attribute	Displays the names of the selected attributes to use as conditions for the event.
Disabled?	You can for debugging reasons disable attributes.
sql-clause	For performance reasons and only for advanced users: Defines how the query condition is built (IN or EXISTS)
Condition	<p>Select the appropriate conditions for the selected attributes. The conditions depend on the type of attribute.</p> <p>Note</p> <p>You cannot select a condition for parameters.</p>
Value	<p>Select or enter the appropriate values for the selected attributes. Available options depends on the attribute/parameter type.</p> <p>Not applicable to SQL parameters.</p>

Run Batch

You can run an event in batch mode. It will select all documents matching the conditions set for the event. In your custom event procedure the eventmode will have the value 'BATCH'. Make sure you know the consequences before running an event as a batch job.

view information for "xnext: set main process" of type "event" Run batch Cancel

displays info about scheduled job for this event

schedule name
 last runned date

list of documents affected by the event (number of documents are 22)

documentid	title
3666	Case management
3667	Recieve
3672	Distribute
3673	Process case
3674	Complete
3944	Quality Audit
4296	Prospecting
4297	Qualify
4298	Identify needs
4299	Produce proposal
4300	Close deal
4301	Follow-up
5174	Test
5175	testprosess
5188	hovedprosess
6713	Annettes Hovedprosess
6726	Mitt steghgf
6727	Hoved prosess
6748	Hovedprosess
6749	Delprosess
6750	Prosessleg
7896	Annettes stetteprosess

Property	Description
Schedule name	If running, if will display the schedule name here.
Last runned date	Will display the last time it was runned as a batch job.
DocumentId / title	Displays a list of documents that corresponds to the conditions for the event.

5.2 Metadata Event Properties

This section describes the properties of a metadata event, as shown on the corresponding Edit pane.

edit
help

Save (s) Save and close (x) Copy Delete Cancel

Event: Event for ACLs

Description og general properties

Subsystem: SYSTEM +

* Event for: Access control lists

* Name: Event for ACLs

External Key:

* Sort Key: 1

Description: Event for ACLs

* Event Procedure: Test Event procedure for ACL +

Enable:

Operation: Insert Update

Delete operation: None Before delete After delete

Database information

Guid: 86F425E8A88182D8E040000A17007B06

Id: 67679

Created: 19.05.2010 16:22 by ORCLADMIN

Updated: 25.11.2015 14:08 by ORCLADMIN

Master table: IKB_EVENT (Events)

Detail tables: IKB_EVENT_COND, IKB_EVENT_SOLR_CONFIG

Patch sets

+ Add to patch set

Action	Id	Name	Last built

Property	Description
Subsystem	The subsystem the profile belongs to
Event for	Enter what type of object you define the event for. You can choose between <ul style="list-style-type: none"> • Users. No conditions can be defined. • Access control lists. No conditions can be defined. • Groups. No conditions can be defined. • Upload event. Will be triggered when uploading a new document to iKnowBase (e.g. WebDAV or DragAndDrop-function). No conditions can be defined.
Name	Type a name for the event.
Sort Key	Type a sort key. A number that defines the order in which several events are sorted. If a document operation triggers several events, the event with the lowest sort key value is executed first.
Description	Type a description of the event.
Event procedure	Select the database procedure that will be called when the event triggers.
Operation	Select which operations this event applies to, and specify whether the event is enabled or not. The set of operations that this event applies to: <ul style="list-style-type: none"> • Insert applies when a new row is inserted • Update applies when an existing row is updated • Delete applies when an existing row is deleted • Enable do activate/enable the event
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

5.3 Indexing event(SOLR) Properties

This section describes the properties of a SOLR event, as shown on the corresponding Edit pane. The purpose of a SOLR event is to notify the content indexer about documents that should be indexed by

Apache Solr search engine. In contrast to a regular document event, the result from a SOLR event will always be a AQ-message notifying the content indexer to either update or delete the document in Apache Solr. The event procedure will always be the same, but you can create a custom function as a replacement of `ikb_solr.get_document` function. A changelog is managed by the event and you do have administrative functions to maintain the message queue, exception queue, changelog and document list for the event.

edit
index queue status
indexed documents
multiple events
view batch log

event: solr - index documents - personal card

description og general properties

<p>subsystem</p> <p>* event for Indexing event (SOLR)</p> <p>* name SOLR - Index documents - Personal Card</p> <p>external key</p> <p>* sort key 1</p> <p>description</p> <p>custom function</p> <p>* information type <div style="border: 1px solid black; padding: 2px; width: fit-content;"> Valgt Kundekort Organisasjonskort Personkort </div> </p> <p>operation: <input checked="" type="checkbox"/> Enable </p>	<p>solr configuration</p> <p>flexfield 1</p> <p>flexfield 2</p> <p>flexfield 3</p>	<p>Solr Index Configuration</p> <p>personcard_single_qc=(!title)</p>
--	--	--

define conditions

actions	attribute	disabled?	sql-clause	condition	value
X	DocumentID	<input checked="" type="checkbox"/>	N/A	LIK	11862

database information

guid	CDFC986779787875E040000A1B0052FB
id	22192
created	08.11.2012 14:13 by ORCLADMIN
updated	08.11.2012 22:46 by ORCLADMIN

Property	Description
Subsystem	The subsystem the profile belongs to
Event for	Set automatically to Indexing Event (SOLR).
Name	Type a name for the event.
External key	Type a unique external key for the event.
Sort Key	A number that defines the order in which several events are sorted. If a document operation triggers several events, the event with the lowest sort key value is executed first.
Description	Type a description of the event.
Custom function	The content indexer calls an iKnowBase function to retrieve the document for indexing. This function can be replaced by a custom function instead if you need a specialized version of the function.
Document types	Select the document types that this event applies to.
Operation	Enable applies to enabling or disabling an event
Solr Configuration	Select the Solr configuration set. Try to use the same Solr configuration between different events.
Flexfield 1, 2 and 3	<p>A user selectable name=text syntax that is sent to the content indexer as a Solr field. The flexfields have these options/formats :</p> <ul style="list-style-type: none"> <name>=<value> e.g. subtype=NewsItem. If the name already exists in the value set to the content indexer, it will be replaced by the value given here.

Property	Description
	<ul style="list-style-type: none"> • <code><name>={solrfield}</code> e.g. <code>mycard_qc={title}</code>. <code>{title}</code> will be retrieved from an existing value in the Solr configuration. Can be useful to copy values to e.g. query completion fields.
Define condition	<p>You can choose between two types of parameters:</p> <ul style="list-style-type: none"> • SQL parameter: Parameters defined as SQL parameters • Attribute: iKnowBase attributes, used to set constant values in the query. <p>When the parameter is selected, you must save before you can set any values.</p>
Actions	Delete the parameter by clicking the icon
Attribute	Displays the names of the selected attributes to use as conditions for the event.
Disabled?	You can for debugging reasons disable attributes.
sql-clause	For performance reasons and only for advanced users: Defines how the query condition is built (IN or EXISTS)
Condition	<p>Select the appropriate conditions for the selected attributes. The conditions depend on the type of attribute.</p> <p>Note</p> <p>You cannot select a condition for parameters.</p>
Value	<p>Select or enter the appropriate values for the selected attributes. Available options depend on the attribute/parameter type.</p> <p>Not applicable to SQL parameters.</p>
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

Index queue status

To administer the index process for the documents matching the event, you will find several functions to do bulk operations against Apache Solr. First part of the screen gives an overview over number of indexed documents, number of messages in queue/exception queue, number of documents in the changelog and a notification if metadata defined as part of the Solr configuration has changed for the document but not in the index. All of these notifications and more can be handled from here.

edit	index queue status	indexed documents	multiple events	view batch log
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view information for "solr - index documents - personal card" of type "event"

status of index queues and changelog

- Number of Indexed documents are 5165
- Number of documents defined for the event are 5165
- Number of documents in queue SOLR_MESSAGE_Q waiting for to be indexed are 0

available actions for this event

(Re)index all documents? Number of index candidates are 5165

Remove all documents from solr index? Number of indexed documents are 5165

Purge the changelog? Number of changelog entries are 5165

Purge the event log?

Property	Description
Status of index queue and changelog	Prints info about the queue, changelog and running jobs for the event
Available actions for this event	<p>The actions you can do will only available if it's necessary. (e.g. no need for a Purge changelog if the changelog is empty):</p> <ul style="list-style-type: none"> • (Re)index all documents? The job will queue all documents in the event for indexing. Documents that no longer meet the event criteria will be removed from the index. • (Re)index a single document? The job select a random document for reindexing. • Remove all documents from Apache Solr index? The job will queue all documents in the event for removal from the index. If any other events also handle the document, it will not be removed. • Add new documents? The job will queue all new documents not already in the changelog for the event. • Remove documents from Apache Solr that no longer exist for this event? • Reindex documents affected by metadata changes? A document can be tagged to e.g. a dimension. If the dimension label is changed, the value should also be populated to the index if it exists in the Solr configuration. • Resend all documents in exception queue? Messages can be moved to a exception queue if e.g. the Apache Solr server is down. Run this job is you want to move the messages back to the message queue. • Delete all documents in exception queue? Messages can be moved to a exception queue if e.g. the Apache Solr server is down. Run this job is you want to remove the exception messages. • Purge the message queue? The job will remove all queued messages.

Property	Description
	<ul style="list-style-type: none"> Purge the changelog? The job will remove all entries from the changelog. If you purge the changelog, the documents will remain in Apache Solr. Purge the event log? The job will remove all entries from the event log.
Index failures - List of documents failed to index/reindex	If the exception queue has any entries, they will be displayed here. You can resend or delete a single entry.

Exceptions (index failures)

The Contentindexer can fail to index a document for some reasons (e.g invalid tika format). If so, it will end up in an exception queue.

Property	Description
Index failures - List of documents failed to index	If any documents has failed during indexing, it will end up here. You can resend or delete a single entry.

Indexed documents

Used for a SOLR event and displays the first 200 documents defined for the event.

edit	index queue status	indexed documents	multiple events	view batch log
view information for "solr - index documents - personal card" of type "event"				
displays only the first 200 indexed documents unique for this event.				
docid	doc title	doc type	changed date	index date
595800	Aune, Cato	Personkort	11.11.2010 23:03:07	08.11.2012 22:51:14
595805	Holmen, Paal	Personkort	26.10.2010 12:41:23	08.11.2012 22:51:14
593858	Remman, Pål	Personkort	11.06.2010 14:56:48	08.11.2012 22:51:14
593846	Sookermany, KT: Clint	Personkort	11.06.2010 14:56:34	08.11.2012 22:51:14
593847	Fellesbruker, nsa-pt	Personkort	11.06.2010 14:56:38	08.11.2012 22:51:14
593848	ikb_publisher	Personkort	11.06.2010 14:56:39	08.11.2012 22:51:14
593849	ikb_admin	Personkort	11.06.2010 14:56:39	08.11.2012 22:51:14
593850	DEMOIVAR123	Personkort	11.06.2010 14:56:39	08.11.2012 22:51:14
593852	Syvetsen, Ivar	Personkort	11.06.2010 14:56:46	08.11.2012 22:51:14
593853	testbruker, ERGO	Personkort	11.06.2010 14:56:47	08.11.2012 22:51:14
593854	KT_CLINT	Personkort	11.06.2010 14:56:47	08.11.2012 22:51:14
593855	KT_KARI	Personkort	11.06.2010 14:56:47	08.11.2012 22:51:14
593856	Rørtveit, KT: Kari	Personkort	11.06.2010 14:56:48	08.11.2012 22:51:14
593841	Forfatter, Frank	Personkort	11.06.2010 14:56:31	08.11.2012 22:51:14
593842	GTONDER	Personkort	11.06.2010 14:56:31	08.11.2012 22:51:14
593843	ORACLE	Personkort	11.06.2010 14:56:32	08.11.2012 22:51:14

Property	Description
Document field	Will display Document ID, title, document type and changed date.
Index data	Will display index date.

Multiple events

Used for a SOLR event and displays the first 200 documents defined for the event, but 'owned' by another event. You should try to avoid events matching the same documents. You can let this event take ownership over the documents.

edit	index queue status	indexed documents	multiple events	view batch log
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view information for "solr - index documents - personal card" of type "event"

displays only the first 200 documents defined for this event, but indexed by another event

docid	doc title	doc type	changed date	index date	eventid	event name
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Property	Description
Document field	Will display Document ID, title, document type and changed date.
Index data	Will display index date, event ID and event name.

5.4 View batch log

You can create debug/warning messages in your custom event procedure. Use the procedure `portlet_manage_event.log_batch(<eventGuid>, '<text>')` to log messages. All messages are shown here.

edit	run batch	view batch log	usage
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view information for "image scaling" of type "event"

displays info about scheduled job for this event

schedule name	IKNOWBASE_97759
last runned date	08.06.2011 09:44:01

view a log from the last batch run

```
Starting the job - event function is ikb_solution_events.ImageScaling
Number of documents affected are : 1
Adding variant : Thumbnail (95x95)
Saving the document 22878
```

Property	Description
Schedule name	Displays the schedule name here.
Last runned date	Will display the last time if was runned as a batch job.
View a log from the last batch run	Will display the last time if was runned as a batch job.

6. Export

The export feature is part of the export/import utility in iKnowBase. With the export feature you can define and build transport sets and export data. Components, metadata, and content can be exported. The import feature lets you import previously exported data.

6.1 Properties

This section describes the properties of an export definition, as shown on the corresponding Edit pane.

Edit Tab

The Edit tab contains general information about the domain.

Export: SOLR - Example

Definition of transport set

* Name	SOLR - Example	Export status	BUILD_DONE
Description		Status date	28.02.2017 09:49:06
Compatible version		Last Built date	28.02.2017 09:49:06
Directory	DATA_PUMP_DIR	Last exported date	10.02.2014 15:52:26
Export set type	Patch set	iKnowBase Version	7.5-SNAPSHOT
Data pump file		Scheduled job status	

Subsystems, userdata and references

Export objects without references

Export user data?

Data and objects to be included in the transport set

Action	Id	Name	Type
X	59680	SOLR - All cards (default)	Events
X	51530	/INFRA/SYSTEST/Layoutpage	Page
X	78609	/SYSTEST/Solr/SearchWithPresentationStyle	Page
X	71105	SOLR Viewer example	Viewer/search definition
X	51509	SYSTEST	Subsystem
X	51529	/SYSTEST/LayoutPage (regions.clientPage, content)	Templates
X	79983	SOLR - Examples	Presentation styles
X	3742909	Default minimum (default)	SOLR configuration

Preset import rules for selected objects

Name	Description	Rows#	Action if object already exists
ATTRIBUTE	Attribute	13	Update object
IKB_EVENT	Events	1	Update object
IKB_PAGE	Page	2	Update object
IKB_PORTLET_PREFS	Viewer/search definition	1	Update object
IKB_SUBSYSTEM	Subsystem	1	Update object
IKB_TEMPLATE	Templates	4	Update object
PORTLET_STYLE_SET	Presentation styles	1	Update object
SOLR_CONFIG	SOLR configuration	1	Update object

Property	Description
Name	Type a name for the export.
Description	Type the description of the export.
Compatibility version	<p>The version of the database you are importing to. Some objects are database version dependable and you might need to identify the target database version before exporting the data. Legal values for this parameter are as follows:</p> <ul style="list-style-type: none"> • COMPATIBLE: the version of the metadata corresponds to the database compatibility level and the compatibility release level for feature (as given in the V\$COMPATIBILITY view). • LATEST (default): the version of the metadata corresponds to the database version. • A specific database version for example, '11.2.0'. • none: Version will be set to LATEST

Property	Description
Directory	Select a directory where to place the export file.
Export set type	When you create a new export definition you must select between Transport Set or Patch Set. A Patch set will be available from components where you can add an instance directly to the patch set. Patch sets should also have Export objects without references checked so only the object itself is exported and not all the references.
Data pump file	Name of the created dump file and URL to download it. Only visible after running the export.
Export status	The status of the export transport set: <ul style="list-style-type: none"> • CREATED: The transport set is created, but not yet built or exported. • BUILD_STARTED: Building of the transport set is started. • BUILD_DONE: The transport set is built. • BUILD_FAILED: Building the transport set failed. Check the log • EXPORT_DUMP_BEGIN: Export of the transport set is started. • EXPORT_DUMP_COMPLETED: The data is exported. • EXPORT_DUMP_FAILED: Export of the transport set failed. Check the log
Date	Date of the last status change
Last built date	Date of the last time the transport set was built (by pressing the button Build dataset)
Last exported date	Date of the last time the transport set was exported (by pressing the button Export)
iKnowBase version	Displays the iKnowBase repository version. Make sure the import side has the same version of iKnowBase before importing.
Scheduled job status	If the job is running in batch mode, the job status is displayed here.
Export object without references	Select this check box if you want to export the object itself without all references, only the ones owned by the object (like detail data, labels and template text)
Export user data	Select this check box if the export should include members in acls and groups.
Exclude data from subsystem	Select subsystems you do not want data from. If the export set contains data from a excluded subsystem it will be skipped and expected to exist on the target site.
Exclude data without subsystem	Select this check box if you want to ignore data without any subsystem set.

Property	Description
Add objects	<p>Display all object types possible to export. Select one, and you then can choose instances of the object type. The table storing all selections is EXP_IMP_OBJ_SELECTION. A hint; if you are about to export loads of documents and you can identify these documents by a select, is to insert them into this table manually instead of selection one by one. The syntax will be like this:</p> <pre>insert into exp_imp_obj_selection (export_guid, table_name, object_guid) select '<the export Guid>', 'DOCUMENT', document_guid from document where <condition>;</pre>
Add groups	Use the picklist to select groups to export. The selection will be saved immediately.
Add acls	Use the picklist to select access control lists (ACL) to export. The selection will be saved immediately.
Add users	Use the picklist to select users to export. The selection will be saved immediately.
Add documents	Use the picklist to select documents to export. The selection will be saved immediately.
Add dimensions	Use the picklist to select dimensions to export. The selection will be saved immediately.
Preset import rules for selected objects	When the dataset is built, you can add import rules for each object before you export the dataset. The values can be changed on the import side.
Name	Displays names of the database tables which are included in the import.
Description	Displays descriptions of the database tables which are included in the import.
Rows#	Displays the total number of rows in the transport set.
Action if object already exists	<p>The valid operations if an object exists on target are:</p> <ul style="list-style-type: none"> • Do nothing (leave as is): The object is unchanged • Update object: The object will be updated and new details will be inserted. • Replace object: The object will be updated, all details will be replaced. • Only insert new details: The object is unchanged, but new details will be inserted

Overview - tables Tab

The Overview - tables tab contains information on tables chosen for export. The content of this tab is available after the transport set is built or data is exported.

The screenshot shows the iKnowBase web interface. At the top right, it displays the user 'ORCLADMIN (us)' and the database 'IKB_SYSTEST@ord@prosjekt11'. Below this are navigation tabs: 'user directory', 'development tools', 'metadata management', and 'help'. A secondary set of tabs includes 'edit', 'overview - tables', 'debug and error log', and 'export tree'. The main content area is titled 'view information for "/>

selected objects with number occurrence for each table

name	description	rows#
ATTRIBUTE	Attribute	16
ATTRIBUTE_DIMENSION	Dimensions defined for an attribute	2
CUSTOM_EDITOR_DEFS	Form definition	1
CUSTOM_EDITOR_DEF_ITEM	Attributes in a form	9
DIMENSIONS	Dimensions	3
DIMENSION_DIMENSION_TYPE	Dimension Dimension Type	3
DIMENSION_TYPE	Dimension type	3
DOCUMENT_TYPE	Information type	1
HTML_ITEM_PREFS	Html Item Prefs	1
IKB_PAGE	Page	4
IKB_PAGE_COMPONENT	Components in a page	7
IKB_PORTLET	Available portlets	4
IKB_PORTLET_COMMAND	Database commands	4
IKB_PORTLET_PREFS	Viewer/search definition	3
IKB_PORTLET_PREFS_PARAMS	Conditions in a viewer/search source	3
IKB_PORTLET_PREFS_QUICK_LINK	Quicklinks in a viewer	1
IKB_PREFERENCE_STORE	Preferences to portlet instances	4
IKB_QUICK_LINK	Quicklinks	1
IKB_QUICK_LINK_EDITOR	Quicklinks editor	1
IKB_SUBSYSTEM	Subsystem	1
IKB_TEMPLATE	Templates	2
IKB_VALUE_SET	Value set (common table for values)	1
MENU_COMPONENT	Menu component	1
MENU_INSTANCE	Menu Viewer	3
MENU_ITEM	Menu items	5
MENU_TARGET	Target definition	3
MENU_TARGET_PARAM	Parameter to a target	2
PORTLET_STYLE_SET	Presentation styles	3
PORTLET_STYLE_SET_ITEM	Items in a presentation style	17
PROMPT	Labels	158
SEARCHCODE	Searchcode	8
SEARCHCODEVALUES	Searchcodevalues	41

Property	Description
Name	Displays the name of the tables which holds data to be exported for the selected objects (with dependencies).
Description	Displays the descriptions for the tables.
Rows#	Displays the number of rows to be exported per table.

Debug and error log Tab

This tab contains information on actual export process. The content of this tab is available after the building of the transport set or export of data is started.

The screenshot shows the iKnowBase development console interface. At the top, the iKnowBase logo is on the left, and user information (User: ORCLADMIN (us), Database: IKB_SYSTEST@ord@prosjekt11) and navigation links (About - Help - ikb\$console - Mode=deployment) are on the right. Below the logo, there are tabs for 'user directory', 'development tools', and 'metadata management'. The 'development tools' tab is active, and within it, the 'debug and error log' sub-tab is selected. The main content area displays 'view information for "/>

view information for "/>

text	timestamp	message type	additional information
Scheduling the export job with dbms_scheduler. The job will execute immediate	08.09.2010 10:47:47	DEBUG	Jobname = EXPORT_52273_0947. Will be dropped automatically after the job is done
Initializing job for building transport set for export	08.09.2010 10:47:47	DEBUG	
Getting all data from Viewer/search definition (IKB_PORTLET_PREFS)	08.09.2010 10:47:47	DEBUG	Guid = 8F5BF2775BD86D3FE040000A18001830
Getting all data from Viewer/search definition (IKB_PORTLET_PREFS)	08.09.2010 10:47:47	DEBUG	Guid = 8F5BF2775BC26D3FE040000A18001830
Getting all data from Presentation styles (PORTLET_STYLE_SET)	08.09.2010 10:47:48	DEBUG	Guid = 8F5BE5F36F56FE76E040000A18001832
Getting all data from Presentation styles (PORTLET_STYLE_SET)	08.09.2010 10:47:48	DEBUG	Guid = 8F5BE5F36F3EFE76E040000A18001832
Transport set successfully build.	08.09.2010 10:47:48	DEBUG	

Property	Description
Text	Displays the messages generated during the last build or export.
Timestamp	Displays the timestamp for the messages.
Message type	Displays the message types.
Additional information	Displays additional information.

Export tree Tab

This tab contains information on all exported objects. The content of this tab is available after the building of the transport set or export of data is started.

iKnowBase®

User: ORCLADMIN (us)
 Database: IKB_SYSTEST@ord@prosjekt11
[About](#) - [Help](#) - [ikb\\$console](#) - [Mode=deployment](#)

user directory
development tools
metadata management
help

edit
overview - tables
debug and error log
export tree

view information for "/>

Property	Description
Name	Displays a graph of all the objects included in the export, including all objects that the selected objects are dependent of.

Remote precheck tab

This tab lets you verify a transport set at the target side. It depends on a database link where the iKnowBase version must be the same on both sides. A typical use case is deploying new functionality from a development site to test site.

View information for "Patch Jira-2043" of type "Export" Cancel

Remote precheck

Select a database link: TEST_STAGING.PROSJEKT11.EVITANO (IKB_TEMP) Transfer transport set

Status of the remote precheck

Database link status: OK
 Import date: 27.09.2016 15:05:05
 Import status: IMPORT_SET_CREATED
 Status: Please run precheck from the import site

Errors and warning from the remote precheck [Hide/show detailed log](#)

Text	Timestamp	Message type	Additional information
Transferring the transport set to TEST_STAGING.PROSJEKT11.EVITANO	27.09.2016 15:05:04	DEBUG	
Exporting table IKB_PAGE to target destination.	27.09.2016 15:05:05	DEBUG	Number of rows are 1
Exporting table IKB_PAGE_COMPONENT to target destination.	27.09.2016 15:05:05	DEBUG	Number of rows are 1
Exporting table IKB_PREFERENCE_STORE to target destination.	27.09.2016 15:05:05	DEBUG	Number of rows are 3
Exporting table IKB_TEMPLATE to target destination.	27.09.2016 15:05:05	DEBUG	Number of rows are 1
Exporting table IKB_TEMPLATE_SET to target destination.	27.09.2016 15:05:05	DEBUG	Number of rows are 1
Transport set successfully exported	27.09.2016 15:05:05	DEBUG	

Property	Description
Select a database link	Select a database link to a defined target. The iKnowBase version has to be the same on both sides.
Transfer transport set	By pressing this button you first build the transport set locally, than transfer it to the target. The precheck has to be executed on the destination.
Status of the remote precheck	Displays the validity of the database link and if the transport set has been imported on the destination. If precheck has been executed, you can then download the log from the destination. If any missing references are discovered, a list will be produced where you can manually add each object and then try again. If any of the data in the transport set contains XML-data, you need to download the export set as a file and import if on target side because XMLDATA is not transferable over database links. A warning about this will be given.
Errors and warning from the remote precheck	This is the report from the precheck on the target instance.

6.2 Tasks

Adding Objects to an Export Tab

To add objects (e.g. components configured in Development Studio or database tables) to an export, perform the following steps:

1. On the edit tab of the Edit pane for the export, select the appropriate object type in the select objects dropdown. The region select objects, which displays a list of all existing objects of the given type, appears.
2. In the select objects region, select the objects that you want to include in the export.
3. Click Apply or OK. The selected objects are added to the export definition, and will appear as selected objects in the region selected objects and tables in the transport set in the Edit pane.

Note

You can add objects of multiple object types to an export. After you have added objects of one object type and saved the export, you can repeat the steps above for a different object type.

To remove an object from an export definition, perform the following steps:

1. On the Edit pane for the export, click on the checkbox for the object you want to remove in the region selected objects and tables in the transport set.
2. Click Save. The object is removed from the list.

Adding Documents to an Export

To add documents to an export, perform the following steps:

1. On the Edit tab of the Edit pane for the export, click the document archive link next to select documents. The document archive opens in a new browser window.
2. In the document archive, find and select the documents to be included in the export.
3. Click OK. The list of documents to include in the export will appear next to select documents in the Edit pane. Note: It is possible to remove a document by clicking on the X icon in front of the document.
4. On the Edit pane for the export, click on Apply. The selected documents are added to the export definition, and will appear as selected objects in the region Selected objects and tables in the transport set in the Edit pane.

To remove a document from an export definition, perform the following steps:

1. On the Edit pane for the export, click on the checkbox for the document you want to remove in the region Selected objects and tables in the transport set.
2. Click Save. The document is removed from the list.

Exporting Data for iKnowBase PageEngine use

1. Create an export definition, defining which data you want to export.
2. Click on the Build dataset button on the Edit pane of the export definition. The dataset is built, and a debug and error log become available on the Debug and error log tab. An overview of how many rows from which tables will be exported becomes available on the Overview — tables tab and a graphical overview of object dependencies becomes available on the Export tree tab.
3. If you want to define import rules for each table (replace on import/delete details) you can preset values before you export the file.

4. Check the Debug and error logs tab.
5. When the dataset is built, click on the Export button on the Edit pane of the export definition. The specified data is exported to the server data pump directory. The exported data file will be named EXP-SchemaName-ExportDefGuid-ExportDefName.dmp, where SchemaName is the name of the database schema, ExportDefGuid is the guid of the export definition, and ExportDefName is the name of the export definition. An iKnowBase document with the document type "iKnowBase Transport Set" with the dump file will be created. It will be given the title Export(DMP), where Export is the name of export definition. A debug and error log becomes available on the Debug and error log tab. An overview of how many rows from which tables are exported becomes available on the Overview - tables tab and a graphical overview of object dependencies become available on the Export tree tab.
6. Download the dump file through the web interface, or retrieve it directly from the database server.

7. External Data sources

The iKnowBase Viewer, the component responsible for presenting information from iKnowBase, is capable of displaying content not only from the iKnowBase content store, but also from other database tables. The mechanism for this is the external data source.

You define an external data source with the source table(s), columns, permanent conditions, and potential parameters. You define it as a standalone data source, or as dependent data source, e.g. a data source which is joined with the iKnowBase document table.

In order to use an external data source, you must first create a presentation style. In this presentation style you select the external data source, which will give you access to the columns defined in the external data source. These columns will be available as attributes and can be presented with the same flexibility as iKnowBase attributes. Then you must create a viewer or a search source, and set it up to use the presentation style for the external data source. This will give you access to the parameters defined for the external data source. The parameters will be available as attributes which you may use to build the where condition. The extracts made by using this viewer or search source will be based on the external data source.

7.1 Properties

This section describes the properties of an external data source, as shown on the corresponding Edit pane tabs.

Edit tab

external datasources: desktop:attributter

Save (S) Save and close (X) Copy Delete Cancel

external data source

subsystem IKB Desktop

* name Desktop:Attributter

description Uttrekk av attributter

standalone Yes No

*table(s)

```
attribute a, generic_code_def c, prompt b, (select distinct count(dal.document_id) antal1, dal.site_id, dal.attribute_id
from document_attribute dal
group by attribute_id, site_id ) dal
```

where-condition

```
and a.site_id = #SITE_ID#
AND a.site_id = c.site_id(+)
AND a.generic_code_id = c.ID(+)
AND a.site_id = b.site_id
AND a.prompt_id = b.prompt_id
AND b.lang_id = #LANGUAGE#
AND a.attribute_id = dal.attribute_id (+)
AND a.site_id = dal.site_id (+)
```

Property	Description
Subsystem	Select the appropriate subsystem.
Name	Type a name for the external data source.
Description	Type a description for this external data source.
Standalone	Click the appropriate option to join the search source with the iKnowBase table document or make it independent. For example, if you want a list that shows how many times a document has been read, you can join it with the document table. You are then dependent on specifying a value in tables and where-condition that joins with the document table.

Property	Description
	<p>If you want a list outside a document context, for example a list of all users, you can click Yes and specify the table for users in the table-field.</p>
Table(s)	<p>Type the names of the tables that are a part of the external datasource. If you select more than one, you have to join these with each other in the Where-condition.</p> <p>You can also define functions that are executed within the condition. The function must return a value. Functions are specified within curly brackets: <i>{functionName}</i>.</p> <p>Note: The execution is done only once, rather than one time per document that are extracted, and might be smart regarding performance.</p> <p>For example:</p> <pre data-bbox="456 779 1378 898">ikb_user iu1, (select count(*) number, site_id, user_id, document_id from log_documents ld1 where ld1.action=3 group by site_id, user_id, document_id) ld1</pre>
Where condition	<p>Type the where condition to join the tables that are selected for extraction.</p> <p>If you select the Standalone option as No, join the document table with the prefix oi1.</p> <p>You can enter SITE_ID, LANGUAGE USER_ID with the meta tags #SITE_ID#, #LANGUAGE# and #USER_ID##/USERID# .</p> <p>You can also define functions that are executed within the condition. The function must return a value. Functions are specified within curly brackets: <i>{functionName}</i>.</p> <p>Note: The execution is done only once, rather than one time per document that are extracted, and might be smart regarding performance.</p> <p>For example:</p> <pre data-bbox="456 1480 1378 1608">and ld1.document_id = oi1.document_id and ld1.site_id = oi1.site_id and iu1.id = ld1.user_id and iu1.id = #USER_ID#</pre> <p>These where-conditions are in synchronization with the example stated in the Table(s) property.</p>

Columns Tab

Property	Description
Create new	Click the Create new link to create a new column. The list below the Create new link displays the links corresponding to existing columns. To view and edit a column, click on the respective link. To remove a column, click on the respective icon.
Type	Displays the type as Columns.
Name	Type a name of the column. When this external data source is used with a presentation style component, the columns defined for the external data source will be available as attributes in the presentation style.
Description	Type a description for this column.
Data type	Select the datatype for the column. Choose between Alphanumeric, Numeric, Date or Clob.
External column or function	Type the database name of the column or function. Remember to prefix the names.

Parameter Tab

The screenshot shows the iKnowBase web interface. At the top right, it displays the user 'ORCLADMIN (us)', the database 'IKNOWBASE@ORCL@projekt10', and the mode 'About - ikb\$console - Mode=deployment'. Below this are navigation tabs: 'user directory', 'development tools', and 'metadata management'. The 'development tools' tab is active, and within it, the 'parameter' sub-tab is selected. The main heading is 'maintain "desktop:attributter" of type "external datasources"', with 'Apply', 'OK', and 'Cancel' buttons. The main content area is titled 'parameter' and contains a 'Create new' link, a 'Tittel' icon with a red 'X', and a form with the following fields: 'type' (set to 'Parameter'), '* name' (text input), 'description' (text input), 'alias' (text input), 'data type' (radio buttons for 'Alphanumeric', 'Numeric', and 'Date', with 'Alphanumeric' selected), 'list of values' (text area), and '* condition or columns' (text area).

Property	Description
Create new	Click the Create new link to create a new parameter. The list below the Create new link displays the links corresponding to existing parameters. To view and edit a parameter, click on the respective link. To remove a parameter, click on the respective icon.
Type	Displays the type as Parameter.
Name	Type a name of the parameter. The parameters defined for the external source will be available as attributes in viewers and search sources that are configured to use a presentation style which uses this external data source.
Description	Type a description for this parameter.
Alias	Type a name that is used in the URL.
Data Type	Click the appropriate data type.
List of Values	Type the SQL expression to build up value lists in a search filter. Use the following syntax for the SQL expression: <pre>Select <idfield>, <description> from <table></pre>

Property	Description
	<p>Example:</p> <pre>select msg1.name, msg1.display_name from owf_mgr.wf_messages_t1 msg1 where msg1.type = 'KT' and msg1.language = 'N' order by msg1.display_name</pre>
Condition or Columns	<p>Type the condition to be built.</p> <p>#COND# is used when the user want to choose which condition (such as equal or different from) the search will be run as, while #PARAM# specifies the value the user enters. The condition must start with AND since it is joined with the rest of the where condition.</p> <p>Example:</p> <pre>and not1.message_name \#COND# \#PARAM#</pre>

Test query tab

The screenshot shows the iKnowBase web interface. At the top, there are navigation tabs: user directory, metadata management, development tools, advanced (selected), and database admin. A user information bar shows 'User: ORCLADMIN (n)', 'Database: IKNOWBASE@ORCL@projjekt10', and 'About - Help - Ikb\$console - Mode=deployment'. Below the navigation, there are sub-tabs: edit, columns, parameter, test query (selected), and usage. The main content area is titled 'view information for "xnext: dimensions - process" of type "external datasources"'. It shows a 'query' section with a SQL statement and a 'result' section with a table of data.

```
select
d.dimension_id
,d.external_key
FROM dimensions d
where f = f
and d.object_guid in (
select dimension_guid from dimension_dimension_type t
where t.dimension_type_guid in (
select object_guid from dimension_type
where external_key = 'IKB_PROCESS'
)
)
```

dimensionid	externalkey
54216	
65565	testiknowbase.api.ServiceDimensionTest.GET_WITH_ACL_TEST
54142	
17131	
7851	
46705	IKB_PRO_HD
58407	

This page will run the query defined for the external datasource. If it succeeds it will display the first 30 rows. If it fails, it will display the error message so you can fix the errors.

Property	Description
Query	Displays the query.
Result	Displays the result of the query.

8. External Search

An external search defines the interface used to perform a query in an external system, either a public search engine such as Google or Yahoo!, or a private internal search engine.

You can use the Build search dialog portlet to expose the external search feature.

8.1 Properties

This section describes the properties of an external search, as shown on the corresponding Edit pane.

The screenshot shows the iKnowBase user interface. At the top, the logo 'iKnowBase' is on the left, and user information 'User: ORCLADMIN (us)', 'Database: IKNOWBASE@ORCL@prosjekt10', and 'About - ikb\$console - Mode=deployment' is on the right. Below the logo are three tabs: 'user directory', 'development tools', and 'metadata management'. Under 'development tools', there are two sub-tabs: 'edit' (selected) and 'usage'. The main content area is titled 'maintain "sample: google.com" of type "external search"' with 'Apply', 'OK', and 'Cancel' buttons. The 'define external search sources' section contains a text box with instructions: 'The dialog is used to define search sources against other sources than iKnowBase. The URL will refer to the search page, where the search criteria will be provided at runtime. You can also use a target if you will control the window, or use a portal page as a result page.' Below this are form fields: 'subsystem' (dropdown menu with 'iKB Demo application' selected), '* title' (text input with 'Sample: Google.com'), 'description' (text input with 'Søk i google'), '* url to search page' (text input with 'http://www.google.no/search?hl=no&q='), and 'target' (dropdown menu with a right-pointing arrow). The 'database information' section shows a table with the following data:

database information	
guid	7D348B7126E04A2EBFF38927D9343B95
id	152
created	25.05.2005 14:45 by ORCLADMIN
updated	21.06.2010 15:43 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a name for the external search.
Description	Type a description for this external search.
URL to search page	Type the URL for the search page without the search string. At runtime, when executing the search, the search criteria will be appended at the back of this URL. For example, for Google the search URL is: http://www.google.no/search?hl=no&q=

Property	Description
Target	When the end user performs an external search, the search result is displayed in a new browser window. Select a Popup target to specify properties of the new window, such as height and width.

9. Forms

Forms enable you to add, modify, and delete content in the iKnowBase portal. You use the form component to configure the forms to use in your iKnowBase application. At run time an advanced form generator builds forms as required based on the configured form components.

Forms are used for publishing and editing content, such as documents or other information objects, in the iKnowBase content store. A form must be associated with one document type. You will need at least one form per document type that should be available for publish and maintenance in your iKnowBase application. Default behavior of a form is to write its form identification to the information object upon saves. The next time the information object is opened for edit, the form which was last used to edit it will be used.

In order to use a form, you must create a page with a Form portlet and a Target for this page. Configure the form to use this target (target on show). **Note:** This target may be reused for different forms.

There are two types of forms:

- **Classic form:** all configuration is done within this component
- **External form:** developed in java

9.1 Properties

This section describes the properties of a form, as shown on the corresponding Edit pane tabs.

Edit Tab Classic form

edit
attribute
rules
format
style
values
html insert
html update
usage

Save (s) Save and close (x) Cancel Copy Delete

forms: xnxt: links

Action ✖ + [Test](#)

Select the portal page where you want to display the Form. You can also choose to display labels and enter a default font class for labels and content.

common attributes		controls	
subsystem	xNext Solution	html based generator	<input type="checkbox"/>
* title	xNext: Links	show labels	<input checked="" type="checkbox"/>
description		use the prompt from the attribute	<input type="checkbox"/>
external key	IKB_LINKS	save information type on update	<input type="checkbox"/>
information type	Link	do not set the form-id on the document	<input type="checkbox"/>
restrict access	Apent	do you want xss filter turned on?	<input type="checkbox"/>
* format	Link	allowed to create subdocs on non-editable parents?	<input type="checkbox"/>
language		default dialog	<input type="checkbox"/>
		set focus?	<input checked="" type="checkbox"/>

properties for styling	
stylesheet	IKB Form Editor - General
td-length for labels	20%
default font for labels	IKBFormLabel
default font for values	IKBFormInput
css-class for req-items	IKBFormRequired

customization	
Define a different target if you want to return to another page after save. You can also create your own methods for save- or show-mode.	
target on show (overrides page)	xNext: Publish page
width/height	600 /200
target after insert	
target after update	
custom show function	
custom save function	Custom save acl approve
custom javascript file	
validating function	

database information		patch sets	
guid	5E1D827EBEAD6DEAE04000A17002067	Save	
id	15094	+ Add to patch set	
created	06.05.2005 14:48 by ORCLADMIN	action	id
updated	23.06.2014 15:48 by ORCLADMIN		name
master table	CUSTOM_EDITOR_DEFS (Forms)		last built
detail tables	CUSTOM_EDITOR_DEF_ITEM		

Property	Description
Subsystem	Select the appropriate subsystem.

Property	Description
Title	Type a title for this form.
Description	Type a description for this form.
External key	Enter an unique external key if you need to refer to the form in code.
Document type	Select the document type to use for documents created using this form.
Restrict access	Select the appropriate access control list. To access and use the form, the user must be a member of this access control list, and must also have the permission to publish content. If you do not specify an access control list, everyone can access the form.
Format	<p>Select the appropriate content format.</p> <ul style="list-style-type: none"> • Text enables the user to add text-based content using a text area or an HTML editor directly in the form. • File enables the user to add file-based content, e.g. upload a file. • Link enables the user to add an address of a resource on the internet or private intranet (URL). • XML enables the user to add xml-based content using a text area directly in the form. • Optional enables the user to select the content format at run time.
Language	<p>Select the appropriate language for the form.</p> <p>If you do not select a language, it is automatically set according to: a) the user language, b) the browser language, c) the domain language in the given order.</p>
HTML based generator	<p>Select the appropriate form generator for generating the form at run time.</p> <ul style="list-style-type: none"> • Unchecked : means Rule-based, the form is generated based on the properties of the form component. Only applicable for content forms. • Checked: means HTML-based, the form is generated based on the html templates that are specified on the HTML tabs of the form component.
Show labels	Select this check box to make the labels of the attributes visible in the form. If you do not select this check box, only the input field appears.
Use the prompt from the attribute	Select the check box to retrieve the labels from the attribute definitions.
Save document type on update	<p>Select this check box if you want to update the document type of the document when the document is modified. Otherwise, the document type is only set for new documents.</p> <p>This feature enables you to change document type for an existing information object.</p>

Property	Description
Do not set the form-id on the document	Select this check box, if you don't want to save the form identification together with the document. Default behavior is to write the form identification to the document upon each save.
Enable XSS filter?	Select this check box to specify the use of a cleaning routine which deactivates all attempts on cross site scripting (XSS). Primarily for forms to be used in an open solution such as response forms. XSS is used by hackers to enter an executable JavaScript code that executes after a period of time.
Allowed to create subdocs on non-editable parents?	Select this check box to override the edit permissions for the parent document. This will enable the end user to create a sub document for a parent document he doesn't have edit permissions for. If not selected, the security model in iKnowBase validates the new sub-document to ensure that you have edit permissions for the parent document (the document that becomes the master document).
Default dialog	Select this check box to edit the documents that have no forms associated with them. iKnowBase searches for forms with the same document type or format, and selects the first form with this property set.
Set focus	Select this check box if you want the cursor placed in the first available input field.
Styleset	Select styleset to use for this form. For all form generators the header- and footer text apply. The following tags apply just for the rule-based generator: <ul style="list-style-type: none"> • Table tags • Table tags for status line • Html tags for the text on the status line
TD-length for labels	Displays the default width of the <td>-cell for the labels. You can use this value when you create a new form or insert new attributes. If you change this value, none of the existing attributes for the form are affected.
Default font for labels	Type the standard font classes for the labels. You can use this value when you create a new form or insert new attributes. If you change this value, none of the existing attributes for the form are affected.
Default font for values	Type the standard font classes for the value field. You can use this value when you create a new form or insert new attributes. If you change this value, none of the existing attributes for the form are affected.
CSS-class for req-items	Type the CSS class that is used in the mandatory fields in the form.

Property	Description
Target on Show or select a page	Select an iKnowBase target . This is used as the location for displaying a form, when the form is opened as a separate page or as a popup page.
Width	Enter the width of the popup window used when the form is opened as a popup page.
Height	Enter the height of the popup window used when the form is opened as a popup page.
Target after insert	<p>Select the iKnowBase target that will be opened when a document has been inserted from this form.</p> <p>You can also override the default behavior if you want a JSON object as a return value when you save the document. This is ideal for forms opened with EXT where you programatically keep the control of the windows. To do this, you need to add a hidden input control to the HTML insert form (p_return_type = JSON)</p>
Target after update	<p>Select the iKnowBase target that will be opened when a document has been updated from this form.</p> <p>You can also override the default behavior if you want a JSON object as a return value when you save the document. This is ideal for forms opened with EXT where you programatically keep the control of the windows. To do this, you need to add a hidden input control to the HTML update form (p_return_type = JSON)</p>
Custom show function	<p>For advanced use only, you can create a specific PL/SQL procedure to generate the iKnowBase form. Select the appropriate Database function if you want to override the default.</p> <p>Note: The default database function for generating a form is <code>ikb_ce_custom_editor_portlet.run_show</code>. You can copy this as a starting point for you own custom show function, and then customize it. You must register you new procedure as a Database function.</p>
Custom save function	<p>For advanced use only, you can create a specific PL/SQL procedure to handle saves through this form. Select the appropriate Database function if you want to override the default.</p> <p>Note: The default database function for save through Form is <code>ikb_ce_custom_editor_portlet.save_document</code>. It handles the save and navigation after the save. You can copy this as a starting point for you own custom save function, and then customize it. You must register you new procedure as a Database function.</p>
Custom JavaScript file	<p>Enter the URL for a custom JavaScript file, which will be included in the form by the iKnowBase forms engine.</p> <p>The URL will be passed on to clients without conversion, and must be accessible from any web client.</p>

Property	Description
Validating function	<p>Type the name of the JavaScript function that you want to use for the additional validating functions. Use the complete URL or relative path that is known to the application server such as /resource/file.js.</p> <p>Default validating function validates required fields and input-format for date fields.</p> <p>The function does not take any parameters and returns either TRUE (Validating OK, continue) or FALSE (Validating not OK, terminate).</p> <p>Example:</p> <pre>function test() { if (checksomething) { alert(writeanerror); return false; } else { return true; } }</pre>

Attributes Tab

You can add, change the order of, or remove attributes from the form. When you create a form, all the attributes related to the document type selected for the form are added as suggestive values.

Property	Description
Attributes	<p>Defines the attributes included in the form. Select new attributes by clicking the link Attributes. You can reorder the attributes by drag/drop functionality. If you want to remove an attribute, click the delete-icon and the press Save.</p> <p>The <Text / image> attribute is used to display text or pictures among attributes. You can specify this in the later tabs.</p> <p>The <Display/add other attributes> attribute enables the end user to view or add attributes other than the ones that you define in the form, at</p>

Property	Description
	<p>runtime. The attributes associated with the document type will be available for selection. When the form is executed, two things will happen:</p> <ul style="list-style-type: none"> Attributes that are defined on the actual information object (not the information object type, but the object itself) will be displayed. The form will display a drop down list for all attributes that are referred on the information object type, but not included in the form. <p>This mechanism makes it possible to allow custom attribute combinations on a document, without having to create forms for every possible combination of attributes.</p> <p>The "Format" attribute is available if you select Optional format for the form. This attribute enables the end user to select the content format at runtime. Remember that you also need to select the content attributes (file, link or content) that you will let the user choose from.</p> <p>The Folder attribute enables the end user to change the parent document.</p>

Rules Tab

The Rules tab enables you to define behavior and validation rules that apply to each attribute.

User: ORCLADMIN (us)
Database: IKNOWBASE@ORCL@prosjekt10
[About - ikb\\$console - Mode=deployment](#)

user directory | **development tools** | metadata management

edit | attribute | **rules** | format | style | values | html insert | html update | usage

maintain "xnext: links" of type "forms" Apply OK Cancel

Action: Test

rules

Define the rules for the attributes. Hide insert/update will disable insert/delete

element	hide insert	hide update	ins?	upd?	req?	save?	show favorite	acl	#values
1: Title	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A
2: Link	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A
3: Access Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	<input type="checkbox"/>	N/A

Property	Description
Element	List of all attributes in the form.
Hide insert	Select this check box to hide this field, when new documents are created.
Hide update	Select this check box to hide this field, when existing documents are updated.

Property	Description
Ins?	<p>Select this check box to allow the user to enter values while creating documents. Does not apply if <Hide insert> is checked.</p> <p>If unchecked, the field will display, but no be editable.</p> <p>For the special attribute <Display/add other attributes>, check this box to allow the user to add new attributes.</p>
Upd?	<p>Select this check box to allow the user to enter values while updating documents. (Does not apply if <Hide insert> is checked).</p> <p>If unchecked, the field will display, but no be editable.</p> <p>For the special attribute <Display/add other attributes>, check this box to allow the user to edit the attribute values that are not specified on the form.</p>
Req?	Select this check box to specify if the attribute is mandatory (required) while creating a new document.
Save?	<p>Select this check box to save this attribute in iKnowBase.</p> <p>In some cases, an attribute is used only during forms processing, and may be processed by a custom save function. An example would be a checkbox indicating whether to send an e-mail: The custom save function will use the value, but it should not be saved on the document.</p>
Show favorite	Used for dimension attributes only, select this check box to display the favorite values for dimension attributes in a list. The list displays the last ten values that the user used for an attribute.
Acl	Used for the ACL attribute only, select this check box to enable the user to create access control lists.
#values	Displays the number of values a user can enter for this attribute. The value is retrieved from the attribute definitions, but can be overridden.

Edit Tab External Form

edit usage
help

Form: CS Image

Action: ■ Test
An external form is not defined in iKnowBase, but refers to the URL given.

Common attributes

Subsystem	IKB Content Studio Plugin
* Title	CS Image
Description	Form for publishing images into the archive
External key	CS_FORM_IMAGE
Path to external form	/icsformimage
Target on Show (overrides page)	<input type="checkbox"/> CS Form Java
Document type	<input type="checkbox"/> Bildler
Restrict access	<input type="checkbox"/>
Default dialog	<input type="checkbox"/>

Database information

Guid	CEDB6A1180914844F14E68D7E412CA9
Id	81
Created	22.04.2005 12:14 by ORCLADMIN
Updated	27.08.2015 13:48 by ORCLADMIN
Master table	CUSTOM_EDITOR_DEF'S (Forms)
Detail tables	CUSTOM_EDITOR_DEF_ITEM

Patch sets

<input type="button" value="Add to patch set"/>		
Action	Id	Name
Last built		

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for this form.
Description	Type a description for this form.
External key	Enter an unique external key if you need to refer to the form in code.
Path to external form	Enter a relative path to the external form
Target on Show (overrides page)	Select an iKnowBase target . This is used as the location for displaying a form, when the form is opened as a separate page or as a popup page.
Document type	Select the document type to use for documents created using this form.
Restrict access	Select the appropriate access control list. To access and use the form, the user must be a member of this access control list, and must also have the permission to publish content. If you do not specify an access control list, everyone can access the form.
Default dialog	Select this check box to edit the documents that have no forms associated with them. iKnowBase searches for forms with the same document type or format, and selects the first form with this property set.

Attributes Tab

You can add, change the order of, or remove attributes from the form. When you create a form, all the attributes related to the document type selected for the form are added as suggestive values.

Property	Description
Attributes	<p>Defines the attributes included in the form. Select new attributes by clicking the link Attributes. You can reorder the attributes by drag/drop functionality. If you want to remove an attribute, click the delete-icon and the press Save.</p> <p>The <Text / image> attribute is used to display text or pictures among attributes. You can specify this in the later tabs.</p>

Property	Description
	<p>The <Display/add other attributes> attribute enables the end user to view or add attributes other than the ones that you define in the form, at runtime. The attributes associated with the document type will be available for selection. When the form is executed, two things will happen:</p> <ul style="list-style-type: none"> • Attributes that are defined on the actual information object (not the information object type, but the object itself) will be displayed. • The form will display a drop down list for all attributes that are referred on the information object type, but not included in the form. <p>This mechanism makes it possible to allow custom attribute combinations on a document, without having to create forms for every possible combination of attributes.</p> <p>The "Format" attribute is available if you select Optional format for the form. This attribute enables the end user to select the content format at runtime. Remember that you also need to select the content attributes (file, link or content) that you will let the user choose from.</p> <p>The Folder attribute enables the end user to change the parent document.</p>

Rules Tab

The Rules tab enables you to define behavior and validation rules that apply to each attribute.

User: ORCLADMIN (us)
Database: IKNOWBASE@ORCL@prosjekt10
About - ikb\$console - Mode=deployment

user directory development tools metadata management

edit attribute rules format style values html insert html update usage

maintain "xnext: links" of type "forms" [Apply] [OK] [Cancel]

Action: ■ Test

rules

Define the rules for the attributes. Hide insert/update will disable insert/delete

element	hide insert	hide update	ins?	upd?	req?	save?	show favorite	acl	#values
1: Title	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A
2: Link	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A
3: Access Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	<input type="checkbox"/>	N/A

Property	Description
Element	List of all attributes in the form.
Hide insert	Select this check box to hide this field, when new documents are created.

Property	Description
Hide update	Select this check box to hide this field, when existing documents are updated.
Ins?	Select this check box to allow the user to enter values while creating documents. Does not apply if <Hide insert> is checked. If unchecked, the field will display, but not be editable. For the special attribute <Display/add other attributes>, check this box to allow the user to add new attributes.
Upd?	Select this check box to allow the user to enter values while updating documents. (Does not apply if <Hide insert> is checked). If unchecked, the field will display, but not be editable. For the special attribute <Display/add other attributes>, check this box to allow the user to edit the attribute values that are not specified on the form.
Req?	Select this check box to specify if the attribute is mandatory (required) while creating a new document.
Save?	Select this check box to save this attribute in iKnowBase. In some cases, an attribute is used only during forms processing, and may be processed by a custom save function. An example would be a checkbox indicating whether to send an e-mail: The custom save function will use the value, but it should not be saved on the document.
Show favorite	Used for dimension attributes only, select this check box to display the favorite values for dimension attributes in a list. The list displays the last ten values that the user used for an attribute.
Acl	Used for the ACL attribute only, select this check box to enable the user to create access control lists.
#values	Displays the number of values a user can enter for this attribute. The value is retrieved from the attribute definitions, but can be overridden.

Format Tab

The format tab lets you enter formatting rules for each form item.

iKnowBase®

User: ORCLADMIN (us)
Database: IKB_SYSTEST@ordl@projekt11
About - ikb\$console - Mode=deployment

user directory | development tools | metadata management

edit | attribute | rules | **format** | style | values | html insert | html update | usage

maintain "xnext: links" of type "forms" Apply OK Cancel

Action: Test

rules

Enter the rules for each attribute.

element	label	new line	tags prompt	tags value	tags input	width	height
1: Title	#xnext.link_title#	<input checked="" type="checkbox"/>	align="left" valign="middle" width="300" cl	align="left" valign="top" class="IKBFormIn	style="width:350px" class="IKBFI	N/A	N/A
2: Link	#xnext.link#	<input checked="" type="checkbox"/>	align="left" valign="middle" width="20%" c	align="left" valign="top" width="80%" clas	style="width:350px" class="IKBFI	N/A	N/A
3: Access Group	Rettighetsgruppe	<input checked="" type="checkbox"/>	align="left" valign="middle" width="20%" c	align="left" valign="top" width="80%" clas		N/A	N/A

Property	Description
Element	Displays the name of the attribute.
Label	<p>Type a label for the attribute.</p> <p>This property will be used when you have selected the Show label property and deselected the Use the prompt from the attribute property on the Common attributes tab.</p> <p>You may use HTML codes in this field.</p> <p>This property does not have language support. You may use labels stored in the NLS tables to achieve this. The syntax is #ObjectId.StringId#, where ObjectId is the value in the IKB_NLS_STRING.OBJECT_ID column and StringId is the value in the IKB_NLS_STRING.STRING_ID column. The NLS tables may be overwritten in case of an upgrade.</p>
New line	Select this check box to add the attribute to a new line.
Tags prompt	<p>Type the HTML tags that display the labels. If the code does not have the correct syntax, there can be an error when the form is generated. By default, the field gets the values from Default font for labels and TD-length for labels property.</p> <p>Using this format value:</p> <pre>align="left" valign="middle" width="20%" class="PortletText1"</pre> <p>renders this HTML-code:</p> <pre><td align="left" valign="middle" width="20%" class="PortletText1">MY PROMPT</td></pre>
Tags value	<p>Type the HTML tags that display the value field. If the code does not have the correct syntax, there can be an error when the form is generated. By default, the field gets the values from Default font for labels and TD-length for labels property.</p> <p>Using this format value:</p>

Property	Description
	<pre>align="left" align="TOP" width="80%" class="iKBFormInput"</pre> <p>renders this HTML-code</p> <pre><td align="left" align="TOP" width="80%" class="iKBFormInput"><input > </td></pre>
Tags input	<p>Type the HTML tags that are used within input fields that are generated. For example, the size of a select box that can be specified with a font class or a style tag directly (style="width:249px")</p> <p>Using this format value:</p> <pre>class="iKBEditorInput"</pre> <p>renders this HTML-code</p> <pre><input class="iKBFormInput" ...> ... </input></pre>
Width and Height	<p>Type the width or Height of the text field for CLOB attributes (ingress and body text).</p> <p>The selected style decides the measuring unit that you must use.</p> <ul style="list-style-type: none"> • If you use the TinyMCE style, you must specify pixel values. • If you use a text box, you must specify the rows and columns for a text area field.

Style Tab

The Style tab lets you select the input type of the selected attributes.

edit
attribute
rules
format
style
defaults
usage
insert
update

Form: xNext: Comment Save (s) Save and close (x) Cancel

Action: [Test](#)

Style

Select how the attribute will be generated. The choices depends on the attribute type. You can create subsets of values and only the subset will be available to the user in this form. Pick lists can be used on dimensions and related images/objects

Element	Input type	Subset of data (blank=all)	No subset=no dimensions	Target for pick list	Search source for pick list
1: iKB Title	<Default>		N/A	N/A	N/A
2: iKB Ingress	Tekstboks		N/A	N/A	N/A
3: iKB_Comment_rel	<Default>		N/A	N/A	N/A
4: iKB Access Group	Select list		N/A	N/A	N/A
5: iKB Document Status	Select list		N/A	N/A	N/A

Property	Description
Element	Displays the name of the attribute.
Style	<p>Select the appropriate style.</p> <p>This property specifies how the input field is generated. The available options depend on the attribute type.</p>

Property	Description
	<ul style="list-style-type: none"> • Text Attributes: Text box: By default, text attributes provide the input type = TEXT, while the text box creates a TEXTAREA box. The text area box has a limit of 4,000 characters. After you select the text box, you must define the height and width of the text box on the Format tab. • Numerical Attributes: Will always generates <code><INPUT type="text" ...></code> • File: Will always generate <code><INPUT type="file" ...></code> • Ingress/Body text/Clob attributes: Text box, or one of the defined TinyMCE Editor profiles. Note: TinyMCE Profiles is only applicable for TinyMCE 3. For newer versions of TinyMCE see Using a custom WYSIWYG-editor. • Status: Select, Radio. • XML content/XML attributes: Text box • Acl: Select, Radio, Popup • Value lists: Select, radio, check, multi-select. • Dimensions: Dimension navigator(default), picklist, select, radio, check, multi-select. By default, the user gets access to the dimension navigator. You can implement your own picklist using a target and a search source. Note: For selections other than <code><default></code> or picklist, you must enter a sub-set of values in the Values tab. • Date Attributes: Date (dd.mm.yyyy), Date/time (dd.mm.yyyy hh24:mi:ss). • Template: Select, Radio button. • Folder: document archive(default), picklist: By default, the user gets access to the document archive where he can choose the parent document for the document being created. You can implement your own picklist using a target and a search source. Note: The folder attribute is used only by creation of new documents through office integration. • Related objects / images: Gives a selector box where you can select documents related to the document that is created. You can implement you own pick list using a target and a search source.
Subset of data (blank=all)	<p>Define a subset of values for an attribute to limit the values that a user can choose. You can define subsets for the following attribute types: value lists, dimension, status codes, access control lists and templates. Note: For dimensional attribute, if the style is checkbox, radio or select-box, a blank subset will generate all nodes for the attribute. Only do this if the size of the dimensional structure is limited.</p> <p>For dimensional attributes you can select a subset with the dimension navigator. For the other attribute types you can select a subset of values from the list box.</p>

Property	Description
No subset=No dimensions	For dimension attributes, if no subset is chosen, you must decide to show all (default) or none of the dimensions for the attribute. If you select none (checked), only already stored values (on update) will be displayed.
Target for pick list	Select the target where your pick list is placed. This target is used when you select the pick list as a style (only for Dimensions, Folder, and Related objects or images).
Search source for pick list	Select the pick list that is used to select dimensions or documents. This search source is used where you have selected a pick list as a style (only for Dimensions, Folder and Related objects or images). Note: For related objects or images, the picklist must return document IDs. For dimensions, the picklist must return dimensions.

Values Tab

It is possible to specify default values for the various form attributes.

Per attribute you can create a subset of values that will be available for the end user during categorization, as well as defining a default value which will be prefilled in the form when the user opens it to create a new document.

Note: You can use SQL functions to calculate values. Example:

```
#to_char(sysdate, 'DD.MM')
```

Parameters are used to receive values from a URL that calls the form. You can choose if you want to use a parameter while creating a document or updating a document through a form, or in both modes.

Form: xNext: Comment

Action: Test

Value list and parameters

Default value can be a value or use a SQL-function to calculate the value (eks. #to_char(sysdate, 'DD.MM')). You can also start the form with URL-parameters. You must enter the parameter name and select in which context you want to use the parameter values.

Element	Default value	URL parameter	Use when insert	Use when update
1. Dokumenttittel	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Kommentar relasjon	<input type="text"/>	p_comment_on	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Retningsgruppe	[] X Apert for lesing	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Dokumentstatus	Ferdig	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

Property	Description
Element	Displays the name of the attribute.
Default value	Type the default value for the attributes when a document is created. For text fields, type a value in the field. For dimension values, select the desired value. If the style is different from the dimension navigator, you must select a value from the subset. These values are available when the subset is created. If the dimension navigator is available, you can select the values from the dimension selector. For lists, select the appropriate value in the drop down box.

Property	Description
	<p>You can also specify a function to retrieve a dynamic default value. You must always specify functions with the character # before the function name. The function can be either an SQL function such as TO_CHAR or a stored PL/SQL function. You can also send context-based parameters. Available variables are:</p> <ul style="list-style-type: none"> • :DOCUMENT_ID: If the document exists (edit-modus), the document ID is sent. • :PARENT_ID: Identifier for the portlet instance. • :REFERENCE_PATH: Identifier for the portlet instance. • :STYLE_ID : Identifier for the form definition. <p>Examples:</p> <p>To return today's date:</p> <pre data-bbox="459 835 1382 880">#to_char(sysdate, 'dd.mm.yyyy')</pre> <p>To run the function "get_process_state", sending the current document's parent_id as the parameter:</p> <pre data-bbox="459 999 1382 1043">#get_process_state(:PARENT_ID)</pre>
URL parameter	<p>Type the URL parameter to set the suggested value to the current field over the URL string. The value differs between parameters that are active when documents are created or updated. The URL parameters override any default values.</p> <p>The URL is built upon the quick link where the parameter is given a value. It is available for selection on the Parameters tab on the Edit pane of a quick link.</p>
Use when insert	<p>Select this check box to insert the URL parameter when documents are created.</p>
Use when update	<p>Select this check box to insert the URL parameter when documents are updated.</p>
Attachment	<p>The Attachment attribute lets you attach subdocuments to the document being edited in the form.</p> <p>At run time, users can upload multiple files as attachments to the current document. They will not use a separate form to edit the metadata for the attachments.</p> <p>At design time, you need to select the form to use for later editing of the attachment. This form also defines the document type (document type) and possible attributes of the attachments.</p> <p>You can also choose to display already existing attachments by checking "display existing attachments". All sub documents created with the form provided in "select form for attachments" will be displayed. If you want to</p>

Property	Description
	remove the "delete"-link, simply create the form as a HTML-form, generate HTML code for update and remove the tag "DELETE_ATTACHMENT".

HTML Insert and HTML Update Tabs

iKnowBase enables you to design and create the form layout using your own HTML markup, rather than using the automatically generated forms. The notation in the setup is based on HTML with several extensions to generate dynamic fields for iKnowBase. See chapter 1.108 HTML Template support for further information.

You can write the HTML template code in the HTML Insert and HTML Update tabs. The HTML Insert code is used to generate the form for a new document, the HTML Update code is used to generate the form for an existing document.

Note: If you update the selected attributes in the form, you must also update the HTML templates to reflect the changes. You can generate a new template or manually update the template, and insert IKB tags for new attributes or delete old tags.

There are three action buttons available:

- **Create new template:** Click this button to generate a default template, with placeholders for the attributes in the form. You may then change this template as needed. If you do in fact not need to change this template, then a rule-based form is generally a better choice.
- **Update:** Click this button to update your template with new attributes. iKnowBase will scan the existing template, and find attributes that are missing. Then, it will generate default template code to edit these attributes, and add to the bottom of the template. Move this code around as required.
- **Preview:** Click this button to open a popup window showing the template code as it will look from the client browser.

The screenshot shows the iKnowBase development interface. At the top, the iKnowBase logo is on the left, and user information (User: ORCLADMIN (us), Database: IKNOWBASE@ORCL@prosjekt10) and a link (About - ikb\$console - Mode=deployment) are on the right. Below the logo are navigation tabs: 'user directory', 'development tools' (selected), and 'metadata management'. Under 'development tools', there are sub-tabs: 'edit', 'attribute', 'rules', 'format', 'style', 'values', 'html insert' (selected), 'html update', and 'usage'. The main content area is titled 'maintain "xnext: links" of type "forms"' and includes 'Apply', 'OK', and 'Cancel' buttons. Below the title, there is an 'Action: Test' button and an 'edit html code' section. A warning message states: 'Be aware that attributes refer to the parameters you have chosen as filter parameters'. The main editor contains HTML code for a table with three rows of form elements. To the right of the code is a list of 'available parameters': '642 #xnext.link_title#' and '676 #xnext.link#'. At the bottom of the editor are 'Create new template', 'Update', and 'Preview' buttons.

Property	Description
HTML code	Type the HTML template code. Use the action buttons <code>Create new template</code> or <code>Update</code> to automatically create or update HTML template code. To modify the HTML in a full window, use the link (open full screen editor).
Available attributes	A list of available attributes and their IDs available for use in the HTML template code.

9.2 Using a custom WYSIWYG-editor

To edit ingress, body text, and clob attributes in a form you can either use a textarea or a WYSIWYG-editor. Which one to use is configured on the Form Style tab. Available options are textarea and predefined TinyMCE profiles. If you would like to use the TinyMCE 3 editor you can choose a TinyMCE profile. If you would like to use a newer version of TinyMCE or another editor choose textarea and follow the instructions in this chapter.

To use a custom WYSIWYG-editor for a form element, do the following:

- Specify textarea style for the element on the Form Style Tab
- If you want to use different editor configurations for different elements, specify a css class for the input tag for the element on the Form Format Tab
- Add the necessary Javascript to the iKnowBase page running the form; this can be done in several ways, e.g. by adding it to a Template viewer on the page

Note

Standard iKnowBase includes TinyMCE plugins for the iKnowBase link and image picklists.

Example: TinyMCE 4 editor

This example illustrates how to use the TinyMCE 4 editor for the body text of a form.

Prerequisites:

- an iKnowBase Form configured with an ingress
- an iKnowBase Page with a Form portlet configured with the form above

First you must configure the form to use style textarea for the ingress element (Style Tab). Then you must add an Template Viewer to the page with the following Javascript:

```
<script src="//tinymce.cachefly.net/4.0/tinymce.min.js"></script>
<script type="text/javascript">
  tinymce.init({
    selector: "textarea"
  });
</script>
```

Example: TinyMCE 4 editor with different configurations and iKnowBase Plugin

This example illustrates how to use the TinyMCE 4 editor for both the ingress and the body text in a form. The editor should be configured differently for the two elements. For the ingress element, an editor with a simple toolbar should be used. For the body text, an editor with a more complex toolbar, containing the iKnowBase image and link buttons, should be used.

Prerequisites:

- an iKnowBase Form configured with an ingress and a body text
- an iKnowBase with the form

First, you must configure the form to use style textarea for both the ingress and the body text element (Style Tab). Then you must add css classes for the input tags for the ingress and body text elements, class="tinySimple" and class="tinyFull" respectively (Format Type). Finally, you must add an Template Viewer to the page with the following Javascript:

```
<script src="//tinymce.cachefly.net/4.0/tinymce.min.js"></script>
<script src="/ressurs/iknowbase/libs/tinymce4-plugins/iknowbase/plugin.js"></script>

<script type="text/javascript">
  tinymce.init({
    selector: "textarea.tinySimple",
```

```
        menubar: false,
        toolbar: "bold italic underline strikethrough | undo redo | bullist numlist"
    });

    tinymce.init({
        selector: "textarea.tinyFull",
        plugins: "searchreplace code iknowbase",
        toolbar1: "bold italic underline strikethrough | styleselect formatselect fontselect
fontsizeselect",
        toolbar2: "cut copy paste | searchreplace | bullist numlist | outdent indent | undo redo | code
| iknowbase.link iknowbase.image"
    });
</script>
```

9.3 Testing your Form

To test your form, either click the Test action for the form on the List pane, or click the Test action link on the Edit pane tabs for the form.

Note

The Test actions become available for a form after you specify the target Target on show for the form.

10. Homeplaces

A homeplace is a mechanism used to dynamically decide the destination of navigation when you click on a document. Using a homeplace, it is possible to have a single link go to different destinations depending on the document context. The purpose is to view a document in the proper context.

A homeplace comprises the following information:

- A single target (destination), typically a page or a URL.
- A set of criteria that must be satisfied to use this particular target selector.
- Parameters that will be passed to this target selector.

If you specify the target for the homeplace as an an iKnowBase target of type Page or Parameter, parameters may be transmitted as URL parameters.

10.1 Properties

This section describes the properties of a target selector, as shown on the corresponding Edit pane.

Property	Description
Subsystem	Select the appropriate subsystem.
Sort key	Type the relevant sort key that is used to sort the target selectors so that the system evaluates the target selectors in the order that you want. If the sort key is not specified then, the system uses the first target selector it hits in no specific order.
Name	Type a name for this target selector.
Document type	Select the document types the target selector applies to.
Restrict on domain	If you want the target selector to apply only to a single domain, select this domain here. If no domain has been selected, the target selector will apply to all domains.
Enable?	Define if the homeplace is enabled. Disabled homeplaces are considered as non-active homeplaces.

Property	Description
Homeplace rule	<p>Select the appropriate target selector rule. This specifies whether to traverse upwards in the document structure, or not, when deciding which target selector to use. This may be relevant if you want to display a subdocument using the target selector for its parent document.</p> <p>Available options:</p> <ul style="list-style-type: none"> • Use the homeplace for the current document: Use the target selector of the document itself. • Use the homeplace for the parent document: Use the target selector of the document's parent document. If not defined, use the target selector of the document itself. • Use the homeplace for the top document: Use the target selector of the upper most document related to the document.
Override domain	Used to create URLs to a different domain. e.g. a document link displayed on intranet.com should be opened in internet.com
Destination type	Select destination type for the homeplace. You can choose between target, iKnowBase Page, constant url or menu.
Target	If you want the target selector to point to a iKnowBase target, select this target here.
iKnowBase page	If you want the target selector to point to a iKnowBase page, select this page here.
Url	<p>If you want to go to a specific URL, type the URL here. You can specify the URL in three ways:</p> <ul style="list-style-type: none"> • Enter an absolute URL, starting with <code>http://</code>. The specified URL will be used as is. • Enter a relative URL, starting with <code>/</code>, to avoid hardcode of domain. The <code>/</code> will be substituted by the current domain. Example: <code>/ikbViewer</code> will produce <code>http://www.example.com/ikbViewer</code>. • Enter a relative URL, starting with <code>#</code>, to call a pl/sql procedure. The notation is <code><provider>.procedure</code> where <code>procedure</code> should be replaced by the name of the pl/sql procedure. The <code><provider></code> will be substituted by the current domain and the appropriate provider. Example: <code><provider>.portlet_manage_redirect.redirect</code> will produce <code>http://www.example.com/pls/portlet_manage_redirect.redirect</code>
Menu	If you want to go to the destination specified by a menu, select the menu used to lookup the destination here. Note that you must also select an attribute for the property Attribute to specify menu item , to be used for looking up the destination.

Property	Description
	At runtime, when looking up the destination for a document, iKnowBase will find the value of the specified attribute, and find the menu item for that attribute value in the specified menu, and go to the specified destination.
Attribute to specify menu item	If you want to go to the destination specified by a menu, select the attribute that you want to use for menu lookup.
Define conditions	
Add SQL Parameter	A selector for SQL parameters. Select the appropriate attribute by clicking the link.
Add attribute	A selector for document attribute. Select the appropriate attribute by clicking the link. You can deselect by clicking the x-arrow in front of the attribute.
Actions	Clickable icon for deleting the attribute
Attribute	Displays the names of the selected attributes to use as conditions for the target selector.
Disabled?	If set, the condition is not used in the validation. Normally used for debugging issues.
Sql Clause	Used for performance reasons for advanced users. Will generate a SQL with either IN or EXISTS.
Condition	Select the appropriate conditions for the selected attributes. The conditions depend on the type of attribute.
Value	Select the appropriate values for the selected attributes.
Define where to find the values for parameters in then target	
Type	Displays the type of parameters selected for the target selector. The following parameter types are supported: <ul style="list-style-type: none"> • Value from iKnowBase attribute: Select the iKnowBase attribute which contains the value you want to pass on to the parameter. The value is looked up from the document which is being evaluated by the target selector. Use this type if you want to pass a document attribute value as a parameter. The value is looked up from the document which is being evaluated by the target selector. • Constant: Use this type if you want to pass a constant value as a parameter. • Value from url: Use this type if you want to pass a value from a URL parameter as a parameter. • Function: Use this type if you want to run a database function to look up the value to pass as a parameter.
Parameter	Define the order of the parameters.

Property	Description
	You can define up to nine parameters.
Name	<p>This property depends upon the parameter type:</p> <ul style="list-style-type: none"> • Value from iKnowBase attribute: Select the appropriate attribute. • Constant: Type the constant value. • Value from url: Type the name of the URL parameter. • Function: Select the appropriate database function. The function must be defined as a Database Function to be available for use.

10.2 Validate and test

This section describes how to discover which homeplace is selected for a document

Check homeplace rules for a document

Enter a valid document ID and get a log about the homeplace detection

Document Id

Result

```
Input values: p_document_id : "635387" p_user_id: "125" DomainGuid: "84AA4E607E3003E3E040000A18002B0B"
Homeplace detected: 16562 - xNext: Workspace (sortKey=1)
We comply with all conditions on this redirect rule. Get the target and redirect
Will build the URL based on a target: 63458307939CA759E040000A17001D72
Found the url from a target. (url=http://ikb-systest.dev.iknowbase.com/xnext/accesspage/workspace?p_document_id=635387)
Url: http://ikb-systest.dev.iknowbase.com/xnext/accesspage/workspace?p_document_id=635387
```

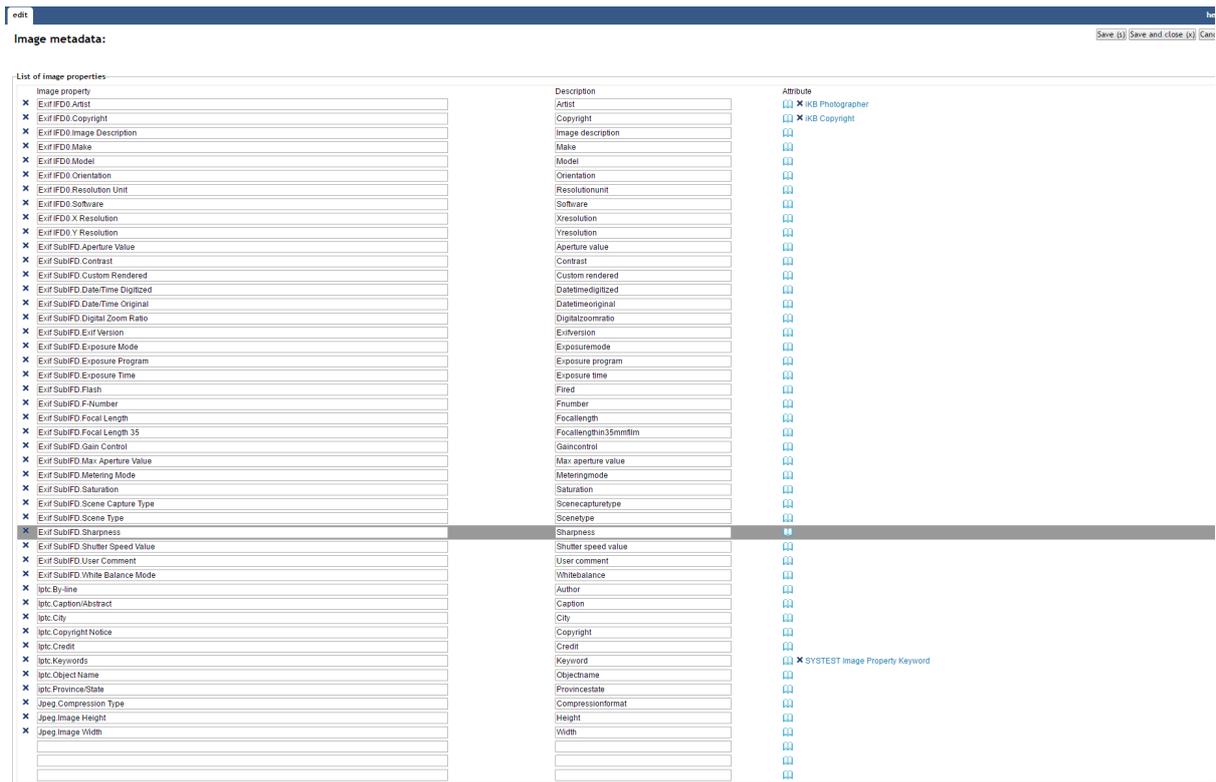
Property	Description
Document ID	Enter a valid document and press Test or return. The result section will contain a debug log from the homeplace detection function. Useful for debugging reasons.

11. Image Metadata

Image metadata can be used to extract image information directly from an image in a presentation style. To see available properties for an image, use tools to show image metadata and use the same metadata name as given there.

11.1 Properties

This section describes the properties of an image metadata, as shown on the corresponding Edit pane.



Property	Description
Image property	The given name for an image property
Description	Short description of the property.
Attribute	When you save an image, you can automatically extract information from the image and store it as a regular attribute on the document. This information can later be used in viewers and presentation styles. Define the attribute use will use to store this image attribute.

12. Import

The import feature is part of the export/import utility in iKnowBase. With the import feature you can upload a dump file previously exported from an iKnowBase instance, and import it into this iKnowBase instance.

12.1 Properties

This section describes the properties of an import, as shown on the corresponding **Edit** pane tabs.

Upload a new file

Upload new file | Cancel

create an object of type "import"

upload new file No file selected.

directory

Property	Description
Upload a new file	Upload a new datapump file exported by iKnowBase Export utility. Select a directory where you want to place the file. After the file is successfully loaded into the database, you will be redirected to the configuration screen.

Edit tab

help

edit | debug and error log | export tree

Precheck | Save (s) | Save and close (x) | Delete | Cancel

Import: /SYSTEM/ImportExport - subsystem

Definition of transport set

Name	/SYSTEM/ImportExport - subsystem	Import status	IMPORT_DONE
Description	Test av/import export på et gitt subsystem	Status date	27.08.2015 14:12:37
Last built date	27.08.2015 14:08:18	Scheduled job status	
Last exported date	27.08.2015 14:08:18	DBLINK status	No warnings
Source version	7.0-SNAPSHOT (this version is 7.0-SNAPSHOT)		

Selected objects with number occurrence for each table

Name	Description	Rows#	New#	Upd#	Errors#	Action if object already exists
CUSTOM_EDITOR_DEFS	Forms	1	1	0	0	Do nothing (leave as is) ▼
IKB_PAGE	Page	4	4	0	0	Do nothing (leave as is) ▼
IKB_PORTLET	Available portlets	4	0	0	0	Do nothing (leave as is) ▼
IKB_PORTLET_PREFS	Viewer/search definition	3	3	0	0	Do nothing (leave as is) ▼
IKB_QUICK_LINK	Quick links	1	1	0	0	Do nothing (leave as is) ▼
IKB_SUBSYSTEM	Subsystem	1	0	1	0	Update object ▼
IKB_TEMPLATE	Templates	6	6	0	0	Do nothing (leave as is) ▼
MENU_COMPONENT	Menus	1	1	0	0	Do nothing (leave as is) ▼
MENU_INSTANCE	Menu instances	3	3	0	0	Do nothing (leave as is) ▼
MENU_TARGET	Targets	3	3	0	0	Do nothing (leave as is) ▼
PORTLET_STYLE_SET	Presentation styles	3	3	0	0	Do nothing (leave as is) ▼

Database information

Guid	8F5BE5F3F84FE76E040000A18001832
Id	52272
Created	08.09.2010 10:01 by ORCLADMIN
Updated	27.08.2015 14:08 by ORCLADMIN
Master table	EXP_IMP_TRANSPORT_SET (Transport set for export/import)
Detail tables	EXP_IMP_PORTLET_INST,EXP_IMP_LOG,EXP_IMP_MAPPING,EXP_IMP_OBJ_SELECTION,EXP_IMP_SUMMARYEXP_IMP_TRACKING_DATA

Property	Description
Name	Displays the name of the transport set.
Description	Displays the description of the transport set.
Last built date	Date of the last time the transport set was built.
Last exported date	Date of the last time the transport set was exported.

Property	Description
Source version	Displays the iKnowBase repository version from the source of the transport set. Make sure the import side has the same version of iKnowBase before importing.
Import status	Displays the import status: <ul style="list-style-type: none"> • IMPORT_SET_CREATED: The transport set is created based on the uploaded dump file. • IMPORT_SET_FAILED: The transport set failed on import. • PRECHECK_DONE: Precheck completed with success. • IMPORT_DONE: The data is imported. • PRECHECK_FAILED: Precheck failed with errors.
Status date	Displays the time of the last precheck or import, alternatively the import creation time.
Scheduled job status	If the job is running in batch mode, the job status is displayed here.
DBLINK status	If the transport set was uploaded by the remote precheck option in the export routine, a status of the completeness of the transport set is shown here. The message "No warnings" is displayed if the transport set is ready for import. Otherwise you need to download the file from the exporting side and upload the file on the import side. The reason for this is XML-data, which cannot be uploaded over a database link.
Selected objects with number occurrence for each table	
Name	Displays names of the database tables which are included in the import.
Description	Displays descriptions of the database tables which are included in the import.
Rows#	Displays the total number of rows in the transport set.
New#	Displays the number of rows to be inserted (rows that don't already exist) per table.
Upd#	Displays the number of rows to be updated per table.
Errors#	Displays the number of rows that failed during pre-check or import.
Action if object already exists	The valid operations if an object exists on target are: <ul style="list-style-type: none"> • Do nothing (leave as is): The object is unchanged • Update object: The object will be updated and new details will be inserted. • Replace object: The object will be updated and all details will be replaced. • Only insert new details: The object is unchanged, but new details will be inserted

Debug and error log Tab

User: ORCLADMIN (us)
Database: IKB_SYSTEST@orcl@projjekt11
[About - ikb\\$console - Mode=deployment](#)

user directory | development tools | metadata management

edit | **debug and error log** | export tree

view information for "events" of type "import" Cancel

debug and error log [hide/show detailed log](#)

text	timestamp	message type	additional information
Initializing the import set	28.05.2010 12:28:00	DEBUG	
Cleaning up all detailed rows in production	28.05.2010 12:28:00	DEBUG	
Last sequence number in IKB_IDENT_SEQ is 51916	28.05.2010 12:28:00	DEBUG	
Last sequence number in IKB_DOC_ID is 5400	28.05.2010 12:28:00	DEBUG	
Building the xi_mapping_table. All IDs needed to be converted to a new ID	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table ATTRIBUTE are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table DIMENSIONS are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table DIMENSION_TYPE are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table DOCUMENT_TYPE are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table GENERIC_CODES are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table GENERIC_CODE_DEF are 0	28.05.2010 12:28:00	DEBUG	
Num rows with new IDs for table IKB_EVENT are 0	28.05.2010 12:28:00	DEBUG	

Property	Description
Text	Displays the messages generated during the last pre-check or import.
Timestamp	Displays the timestamp for the messages.
Message type	Displays the message types.
Additional information	Displays additional information.

Note

The content of this tab is available after pre-check of the transport set or import of data is started.

Export tree Tab



User: ORCLADMIN (n)
 Database: IKNOWBASE@ORCL@prosjekt10
[About - Help - ikb\\$console - Mode=deployment](#)

user directory

development tools

metadata management

help

edit

debug and error log

export tree

view information for "/systemst/importexport - subsystem" of type "import" Cancel

dependencies to the chosen objects [hide/show detailed log](#)

name
1: IKB_SUBSYSTEM : SYSTEMST - import/export
2: IKB_QUICK_LINK : SYSTEMST/importExport - quicklink
4: CUSTOM_EDITOR_DEFS : /SYSTEMST/importExport form
5: DOCUMENT_TYPE : Activity
5: IKB_PORTLET_COMMAND : Custom save acl approve
6: ATTRIBUTE : Fagansvar
7: SEARCHCODE : Dimensjonssøk
8: DIMENSIONS : Fag
9: DIMENSIONS : Innholdsbase
10: DIMENSION_TYPE : iKB Informasjonsområde
6: ATTRIBUTE : Endret dato
7: SEARCHCODE : Dato søk - lang
6: ATTRIBUTE : Rettighetsgruppe
7: SEARCHCODE : Søk etter dokumenttyper
6: ATTRIBUTE : Dokumenttittel
7: SEARCHCODE : Søk på innhold
6: ATTRIBUTE : Adresse
7: SEARCHCODE : Tekst søk
6: ATTRIBUTE : Land
6: ATTRIBUTE : Foreldre Prosess
8: DIMENSIONS : Kvalitetssystem
10: DIMENSION_TYPE : iKB Prosessområde
10: DIMENSION_TYPE : iKB Prosessoversikt
6: ATTRIBUTE : Dokumentstatus
7: SEARCHCODE : Verdilister
6: ATTRIBUTE : Dato
2: MENU_COMPONENT : /SYSTEMST/importExport - menu
4: MENU_TARGET : /SYSTEMST/importExport - search
5: IKB_PAGE : /SYSTEMST/importExport/search
6: IKB_TEMPLATE : /SYSTEMST/importExport/2col
6: IKB_PAGE : /SYSTEMST/importExport - template page
7: IKB_TEMPLATE : /SYSTEMST/importExport
8: IKB_PORTLET : HTML-portlet
8: HTML_ITEM_PREFS
7: IKB_PORTLET : Search source
8: IKB_PORTLET_PREFS : /SYSTEMST/importExport search
9: MENU_TARGET : /SYSTEMST/importExport - sub page
10: IKB_PAGE : /SYSTEMST/importExport - subpage
12: IKB_PORTLET : Menu Viewer
12: MENU_INSTANCE : /SYSTEMST/importExport menu
12: IKB_PORTLET : Shared content viewer
13: IKB_PORTLET_PREFS : /SYSTEMST/importExport - subviewer
14: PORTLET_STYLE_SET : /SYSTEMST/importExport - subpage presentation style
16: ATTRIBUTE : Endret av
17: SEARCHCODE : Søk på brukere
16: ATTRIBUTE : Opprettet dato
16: IKB_PORTLET_COMMAND : to_char(#value,'dd.mm.yyyy hh24.mi:ss')
16: ATTRIBUTE : Ingress
16: ATTRIBUTE : Brødtekst
9: PORTLET_STYLE_SET : /SYSTEMST/importExport search
11: ATTRIBUTE : Opprettet av
7: MENU_INSTANCE : /SYSTEMST/importExport menu
4: MENU_TARGET : /SYSTEMST/importExport - main page
5: IKB_PAGE : /SYSTEMST/importExport - main page
7: MENU_INSTANCE : /SYSTEMST/importExport menu
8: IKB_PORTLET_PREFS : /SYSTEMST/importExport - main viewer
9: PORTLET_STYLE_SET : /SYSTEMST/importExport - main presentation style
11: IKB_PORTLET_COMMAND : to_char(#value,'dd.mm.yyyy')
11: ATTRIBUTE : DokumentID
12: SEARCHCODE : Numerisk søk
11: IKB_PORTLET_COMMAND : Get documenttype icon
10: ATTRIBUTE : Dokumenttype

Property	Description
Name	Displays a graph of all the objects included in the import.

12.2 Creating an Import definition

Before you can create an import definition, you must create the appropriate dump file by exporting data.

To create an import definition, perform the following steps:

1. On the **List** pane for import, click on the **Upload new file** action.
2. Select the file to upload.
3. Click the `Upload file` button. The import definition is created, and displayed in the **Edit** pane.

12.3 Importing Data

1. Create an import definition. If the import definition already exists, it will be overwritten.
2. Per table, define whether you will do a merge, or an insert. To do a merge, select the **Replace on import?** check box. To do an insert, with no update, deselect the **Replace on import?** check box.
3. Per table, define whether you will do a delete and upload, or not. To do a delete, select the **Delete details and load again** check box. To not do a delete, deselect the **Delete details and load again** check box.
4. After you have created the import definition, make sure to clean both the web cache (<http://www.example.com:9400/>) and the iKnowBase Java cache ([http://www.example.com/ikb\\$developer/admin.do](http://www.example.com/ikb$developer/admin.do)) before you validate the new import definition.
5. Click on the **Precheck** button on the **Edit** pane of the import definition. The import is validated, and a debug and error log becomes available on the Debug and error log tab. A graphical overview of object dependencies becomes available on the Export tree tab.
6. Check the debug and error logs.
7. When the import definition validates, the **Merge to iKnowBase** button becomes available on the **Edit** pane. Click on this button to import data. The uploaded data is imported as specified in the import definition. A debug and error log becomes available on the **Debug and error log** tab. An overview of how many rows from which tables are exported becomes available on the Overview — tables tab and a graphical overview of object dependencies becomes available on the Export tree tab.

13. Installation properties

This screen is used to administer system properties for the environment of iKnowBase. They are typically given a default value during installation. As one of the first step after installation you should verify the values here.

13.1 Properties

This section describes the properties of an installation property, as shown on the corresponding Edit pane.

Property name	Value	Instance qualifier	Sort	Description
<input checked="" type="checkbox"/> test whitespace leadingtab	test whitespace leadingtab	*		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.context.i&bViewer	ExpressionRepositoryPropertySource.context.i&bViewer	contextPath == 'i&bViewer'		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.context.root	ExpressionRepositoryPropertySource.context.root	contextPath == ''		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.home	FAILURE -- should not be visible	false		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.projekt11	C:\knowbase_trunk	directory == 'C:\knowbase_trunk'		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.projekt11	projekt11	hostname == 'projekt11.dev.knowbase.com'		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.tango	TANGO	hostname == 'tango'		
<input checked="" type="checkbox"/> ExpressionRepositoryPropertySource.true	SUCCESS -- Simple value for true	*		
<input checked="" type="checkbox"/> classic.style.default.icon.add	!resources\knowbase\development\studio\icons\add_12x12.gif	*		
<input checked="" type="checkbox"/> classic.style.default.icon.change.documenttype	!resources\evita\KB\Desktop\images\common\edit_office.gif	*		
<input checked="" type="checkbox"/> classic.style.default.icon.delete	!resources\knowbase\development\studio\icons\delete_12x12.gif	*		
<input checked="" type="checkbox"/> classic.style.default.icon.edit	!resources\evita\KB\Desktop\images\common\edit_item.gif	*		
<input checked="" type="checkbox"/> classic.style.default.icon.webdav	!resources\evita\KB\Desktop\images\common\edit_office.gif	*		
<input checked="" type="checkbox"/> com.knowbase.batch.contentindexer.enabled	false	*		
<input checked="" type="checkbox"/> com.knowbase.batch.contentindexer.indexerType	SOLR	test		
<input checked="" type="checkbox"/> com.knowbase.batch.contentindexer.indexerURL	http://solr-hostname:8983/solr/i-knowbase	test		
<input checked="" type="checkbox"/> com.knowbase.batch.emailReader.enabled	false	*		
<input checked="" type="checkbox"/> com.knowbase.batch.emailReader.enabled	true	directory == 'home\knowbase\quickstart\kb-system'		
<input checked="" type="checkbox"/> com.knowbase.batch.emailSender.enabled	false	*		
<input checked="" type="checkbox"/> com.knowbase.batch.emailSender.enabled	true	directory == 'home\knowbase\quickstart\kb-system'		
<input checked="" type="checkbox"/> com.knowbase.batch.enabled	false	contextPath == 'i&bWebServices'	1	
<input checked="" type="checkbox"/> com.knowbase.batch.enabled	false	directory == 'home\knowbase\quickstart\kb-system\webdav-basi'		

Property	Description
Property name	Name of the corresponding property. The value is typical defined during installation of iKnowBase (or upgrade where new properties are introduced).
Value	Defines the current value of the property. You are allowed to change the value here.
Instance qualifier	Define the instance qualifier; see the "Configuration" chapter in the Installation Guide for more information.
Sort	Define the priority if there are more than one instance of a property name.
Description	Define a short description of the property.

14. Java SDK portlets

Java SDK portlets are standalone java components available from an iKnowBase page. To add a Java SDK portlet you first add a page component portlet of the type `Java SDK` and then select one of the registered JavaSDK portlets.

Maintain Java SDK portlets; add, edit or delete portlet definitions.

14.1 Properties

This section describes the properties of a Java SDK portlet, as shown on the corresponding Edit pane.

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a display name for the portlet.
Description	Type a description.
Mapping key	The unique <code>@PortletMapping</code> key used on the implementation method.
Class name	Last seen class name of the portlet
Jar file	Last seen jar file containing the portlet
Method name	Last seen name of the implementation method
Bean name	Last seen name of the java bean

15. Language

Use the language component to enable language support for multiple languages in your portal. This enables you to create and maintain language texts, and mapping between the languages defined in iKnowBase and web browser languages.

There are two key items to understand the iKnowBase language properties:

- iKnowBase uses the defined languages to enable a wide variety of language features. By defining a new language, you make it possible to enter texts and translations for that new language.
- Different browsers and web technologies have different concepts of a language. For example, the language formally known as "Norwegian Bokmaal" is identified by several language codes by different browsers, with "no", "no_nb", "no-nb" and "nb" being the most common.

Language texts are stored in the IKB_NLS_* tables in the database.

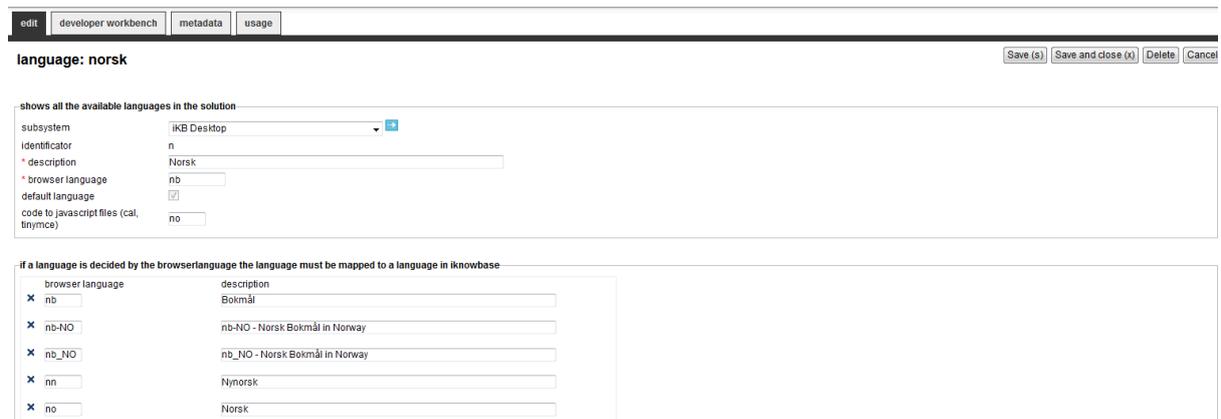
Note

The text elements defined on various components, such as pages and presentation styles, are not available through this component.

15.1 Properties

This section describes the properties of a language, as shown on the corresponding Edit pane tabs.

Edit tab



Property	Description
Sub system	Select the appropriate subsystem.
Identifier	Type the iKnowBase language code. This language code must be given in lowercase. It is not possible to update this property after creation.
Description	Type a description of this language.

Property	Description
Browser language	Type the code of the web browser locale-language for which this iKnowBase language should be used. For example, type "nb" for "Norwegian Bokmål".
Default language	Set this language as default language. Only one language can be the default language.
Code to JavaScript files (cal, tinymce)	Type the extension/prefix of language-specific JavaScript files.
Browser language	Type the codes of all the web browser locale-languages for which this iKnowBase language should be used.
Description	Type a description for these language codes.

Developer Workbench Tab

iKnowBase enables you to translate the language of the labels for all the components defined in the Development Studio. This is easily done from the metadata tab in the Edit pane.

The screenshot shows the iKnowBase Developer Workbench interface. At the top, there is a navigation bar with tabs for 'user directory', 'development tools', and 'metadata management'. Below this, there is a sub-navigation bar with tabs for 'edit', 'developer workbench', 'metadata', and 'usage'. The main content area displays a dialog titled 'maintain "english/american" of type "language"'. The dialog includes a 'compare to' dropdown menu set to 'Norsk', a 'Source' dropdown menu set to 'Add and edit targets', and a 'Search' button. Below the dialog, there is a table with three columns: 'source', 'original value', and 'value in this language'.

Property	Description
Compare to	Select the language to compare the texts with.
Source	Select the source of the texts that you want to maintain. Fetched from the database table IKB_NLS_DEFINITION.
Source	Displays the identifications of the source texts in the database table IKB_NLS_STRING.
Original value	Displays the texts for the language you are comparing this language to.
Value in this language	Displays the texts for the language being edited. You can type or change the value if desired.

Metadata Tab

iKnowBase enables you to translate the language of the labels for all the metadata in the information model. This is easily done from the metadata tab in the Edit pane.

The screenshot shows the iKnowBase web interface. At the top right, it displays 'User: ORCLADMIN (us)', 'Database: IKNOWBASE@ORCL@prosjekt10', and 'About - ikb\$console - Mode=deployment'. The navigation bar includes 'user directory', 'development tools', and 'metadata management'. Below this, there are sub-tabs: 'edit', 'developer workbench', 'metadata', and 'usage'. The main content area is titled 'maintain "english/american" of type "language"' and includes 'Apply', 'OK', and 'Cancel' buttons. A text box prompts the user to 'select a language you will compare against. source shows which table the data is maintained in'. Below this, there is a 'compare to:' label, a dropdown menu currently showing 'Norsk', and a 'Source:' label. A 'Search' button is positioned to the right of the dropdown. At the bottom of the form, there is a table with the following columns: 'source', 'original value', 'value in this language', and 'description'.

Property	Description
Compare to	Select the language to compare the texts with.
Source	Select the source of the texts that you want to maintain.
Source	Displays the name of the database tables in which the texts are stored.
Original value	Displays the texts for the language you are comparing this language to.
Search result : Value in this language	Displays the texts for the language being edited. You can type or change the value if desired.
Search result : Description	Displays the descriptions for the texts for the language being edited. You can type or change the value if desired.

15.2 Create a new language set

iKnowBase enables you to create new language sets. You will always start the job by copying a language set from an existing language.

The screenshot shows the iKnowBase development console interface. At the top left is the iKnowBase logo. At the top right, it displays user information: 'User: mvoss (n)', 'Database: IKNOWBASE@KNETT@nsadb02', and links for 'About - ikb\$console - ikb\$developer'. Below the logo are three tabs: 'user directory', 'development tools' (which is selected), and 'metadata management'. The main content area is titled 'create an object of type "language"' and includes 'OK' and 'Cancel' buttons. The form is divided into two sections: 'shows all the available languages in the solution' and 'database information'. The first section contains fields for 'subsystem', 'copy from' (set to 'English/American'), '* identifier', '* browser language', '* description', and 'code to javascript files (cal, tinyMCE)'. The second section lists 'guid', 'id', 'created', and 'updated'.

To create and copy a language, perform the following steps:

1. On the **List** pane for languages, click on the **Add Language** action. An empty **Edit** pane, without any tabs, opens.
2. On the **Edit** pane, select the appropriate language to copy from in the **Copy from** drop down box, and enter the appropriate information in each field. It is not possible to create a new language without making a copy from an existing language.
3. Click **Apply**. iKnowBase creates the language and saves all the information that you provided for the new language. If you chose to copy from another language, all the texts defined for this language will be copied to the new language. The Edit pane remains open, now split into tabs with all the properties of the language available.

16. LDAP Profiles

An LDAP profile is used for login and extraction of information from an LDAP directory. Tested LDAP-servers includes Oracle Internet Directory, OpenDJ and Microsoft Active Directory (AD).

16.1 Properties

This section describes the properties of an LDAP profile, as shown on the corresponding Edit pane tabs.

The screenshot shows a configuration window for an LDAP profile. The title bar includes 'configuration', 'usage', and 'help'. The main title is 'LDAP profile: Profile for iKnowBase on Project10 (OID)'. There are buttons for 'Test', 'Save (s)', 'Save and close (x)', 'Copy', 'Delete', and 'Cancel'. The form contains the following fields:

- * Profile name: Profile for iKnowBase on Project10 (OID)
- * Server name: projekt10.evita.no
- * Server port: 389
- * Administrator: cn=orcladmin
- * Password: *****
- * Group level (top): cn=portal.070119.201437.377259000.cn=groups.dc=evita.dc=no
- User-searchfilter (objectclass=orclAdUser): objectclass=orclUser2
- Group-searchfilter (objectclass=orclGroup): objectclass=orclGroup
- * User level (top): cn=Users.dc=evita.dc=no
- * LDAP implementation: LDAP (e.g OID or OpenDJ)
- Use paging mechanism:
- Wallet location: file://
- Wallet password:

Below the form is a 'Database information' section:

Guid	62B68DEAE3602E0AE04000A17007169
Id	15737
Created	12.02.2009 11:55 by ORCLADMIN
Updated	18.09.2014 11:00 by ORCLADMIN
Master table	OID_PROFILE (LDAP profiles)

Property	Description
Profile name	Type the name of the profile.
Server name	Type the name or the IP of the remote directory from which the user information will be synchronized.
Server port	Type the port number the remote directory is listening on. The default LDAP port is 389.
Administrator	Specify the super-user of the remote directory. In Oracle Internet Directory this is cn=orcladmin but there might be other users as well. This user will need extended privileges. It must be given privileges to read the change log of the remote directory, and the privileges to create new objects (groups) in the remote directory, since this is a choice in the configuration.
Password	Type the password of the administrator.
Group level (top)	Specify the top level of the remote directory. A typical top level would be cn=portal.070104.174902.679720000 , cn=Groups , dc=demo , dc=iknowbase , dc=com.
User-searchfilter	Specify a filter to use when searching for users to synchronize. There might be cases where not all objects placed under the LDAP user top level should be used. This can be accomplished by providing a filter here. By default the filter is objectClass=orclAdUser. This means that only objects with an attached object class called orclAdUser, will be synchronized.

Property	Description
	If all objects are to be synchronized, you may use a wildcard search filter like <code>objectClass=*</code> .
Group-searchfilter	Specify a filter to use when searching for groups to synchronize. There might be cases where not all objects placed under the LDAP user top level should be used. This can be accomplished by providing a filter here. By default the filter is <code>ObjectClass=orclgroup</code> . This means that only objects with an attached object class called <code>orclgroup</code> , will be synchronized. If all objects are to be synchronized, you may use a wildcard search filter like <code>objectClass=*</code>
User level (top)	Specify the top level of the remote directory where the objects to be synchronized are placed. These objects are referred to as users, but they might be other type of LDAP objects as well.
Idap implementation	Select between LDAP/AD (Microsoft Active directory) or LDAP (e.g. OID or OpenDJ).
Use paging mechanism	Can be used when the number of users are high. When bootstrapping, the number of users returned can be limited to e.g. 20000 (in LDAP). If the result set exceeds this limitations, it fails. You can then use this flag to let the bootstrap function fetch sets of users instead. Note : using this flag might have an impact on the performance.
Wallet location	Enter the location of the wallet file
Wallet password	Enter the password to the wallet file

17. LDAP Sync

Many organizations have established a central repository (a directory service) for user and group information, making it possible to edit that information independently from all the different systems that need it. However, iKnowBase needs a local copy of that information in order to support security and context operations.

Use the LDAP Sync profile to set up a replication link, which enables information to automatically flow into iKnowBase when it is changed in the source user directory.

iKnowBase comes with a PL/SQL procedure, `oid_sync.synchronize_users`, which you can run to perform the synchronization based on the configured LDAP Synchronizing profiles. Typically you will create a Schedule which executes the synchronization job at given times and at given intervals. Every time the synchronization job runs, it will read the LDAP change log to understand what kind of changes have happened in the source user directory. The change log will contain entries indicating that users, groups or group memberships have changed. The synchronization job will copy these changes into the corresponding iKnowBase objects as specified in the LDAP Synchronizing profiles.

See the Development Guide for further information.

17.1 Properties

This section describes the properties of an LDAP Sync profile, as shown on the corresponding Edit pane tabs.

Configuration Tab

The configuration tab contains general information on the LDAP Sync profile.

configuration	attributes	groups	show log	help
LDAP Sync: afablocal-sync - standard username Save (s) Save and close (x) Copy Delete Cancel				
Name and profile Subsystem <input type="text" value="afablocal-sync - standard username"/> * Profile name <input type="text" value="AFABLOCAL_STANDARD_USER_ATTR"/> External key <input type="text" value="AFABLOCAL_STANDARD_USER_ATTR"/> * Select LDAP-profile <input type="text" value="Profile for AFAB LOCAL"/> <input checked="" type="checkbox"/> The ldap-profile is valid Sync: all groups <input type="checkbox"/> Purge log entries older than <input type="text" value="0"/> days Language <input type="text" value="English/American"/> Current Changelog Number and Inmestamp <input type="text" value="0"/>		Person card mapping This configuration needs to get values from LDAP if persons are to be synchronized. Persons will then be added to iKnowBase, and they will also get a personal profile card * Username <input type="text" value="sAMAccountName"/> * Email <input type="text" value="MAIL"/> Is email required when creating the user? <input checked="" type="checkbox"/> * Name <input type="text" value="displayName"/> Alternative key <input type="text"/> External key identifier (default is cn) <input type="text"/>		
Mandatory values for creation of Person or org card Top dimension (Person) <input type="text" value="TEMPDATA"/> Top dimension (Organization) <input checked="" type="checkbox"/> TEMPDATA Dimension type (Person) <input type="text" value="iKB Person"/> Dimension type (Organization) <input type="text" value="iKB Org-Avdeling"/> Default access group <input type="text" value="iKB_USERS"/> Default iKB group <input type="text" value="iKB_USERS"/> Document type (Person Card) <input type="text" value="Personkort"/> Document type (Organization Card) <input checked="" type="checkbox"/> Organisasjonskort		Organization card mapping This configuration needs to get values from LDAP if organizations are to be created in iKnowBase. Organizational dimensions will then be created in iKnowBase, and there will also be created an organizational card Create iKB group <input checked="" type="checkbox"/> Create org card <input type="checkbox"/> Name <input type="text" value="N/A"/> Code <input type="text" value="N/A"/>		
Custom pre-, post- and error plug-ins Define plug-in functions that will execute within a user synchronization. All functions are executed for each entry extracted from LDAP Custom pre-user procedure <input type="text"/> Custom post-user procedure <input type="text"/> Custom error-handling function <input type="text"/>				
Actions Run bootstrap By running a bootstrap, all users in the LDAP that correspond to the profile will be synchronized to iKnowBase. The job will be executed as a background job. Be aware it will take some time and it should only be used when you want all users synchronized to iKnowBase. Normally, the changelog synchronization is a preferred way of getting data into iKnowBase. <input type="button" value="bootstrap"/>				
Run changelog synchronization By running a changelog synchronize, all changes since last time the synchronization was executed will be synchronized to iKnowBase. In production, this will normally be executed as a scheduled job. The command you can use to add it as a schedule is : <pre>begin oid_sync.synchronize_users (p_sync_id => 461345,p_execution_user => 'adminuser');end;</pre> <input type="button" value="changelog"/>				
Run single instance By running a single instance, only the entered user will be synchronized. You need to enter a valid DN-string DN string: <input type="text"/> <input type="button" value="Single instance"/>				
Database information Guid <input type="text" value="2F877DF460C1A4C4E050000A180099CE"/> Id <input type="text" value="461345"/> Created <input type="text" value="01.04.2016 08:45 by ORCLADMIN"/> Updated <input type="text" value="24.06.2016 16:48 by ORCLADMIN"/> Master table <input type="text" value="OID_SYNC_INSTANCES (Advanced oid synchronization)"/>				

Property	Description
Subsystem	Select the subsystem the profile belongs to.
Profile name	Type the name of the profile.
External key	Type the external key of the profile. This can be used as the id when you start the synchronization.
LDAP-profile	Select the LDAP-profile which manages access to the LDAP-server to use. To the right, the connection status will be shown. If the profile is a valid one, the message "The ldap-profile is valid".
Sync. all groups	Select this check box to map synchronize all groups automatically.
Purge log entries older than xx days	Enter the number of days you want to keep log entries for. Use 0 if you not want an automatic purge of old log entries.
Language	Specify the language that will be set on the user when its created.
Current Changelog Number and timestamp	<p>This is the last known change number from the LDAP server. All updates will start after this change number. The LDAP sync engine will automatically update this number after each run, to avoid having to redo many updates. It will also update the last successful run time.</p> <p>If required, you can type a change number yourself, to redo changes or to skip corrupt entries.</p>
Top dimension (Person)	Select the top dimension for user dimensions. Dimensions with an external key are available in the drop down box. By default, the objects that are retrieved from the remote directory are organized in a dimension structure in iKnowBase. Dimensions representing the synchronized user objects will be placed under this top dimension.
Top dimension (Organization)	<p>Select the top dimension for organization dimensions. Dimensions with an external key are available in the drop down box.</p> <p>You can configure the user synchronization to create organization information based on information in user objects. Dimensions for the synchronized organization information will be placed under this top dimension.</p>
Dimension Type (Person)	<p>Click the appropriate dimension type.</p> <p>In iKnowBase, a dimension can be associated with a dimension type. This type segments the dimensions in iKnowBase. Dimensions representing users will be associated with the dimension type given in this field.</p>
Dimension Type (Organization)	<p>Click the appropriate dimension type.</p> <p>In iKnowBase, a dimension can be associated with a dimension type. This type segments the dimensions in iKnowBase. Dimensions representing organizations will be associated with the dimension type given in this field.</p>
Default access group	Select the access control list to be used for the person and organization cards that are created when synchronizing user objects.

Property	Description
Default ikb group	<p>Select the group to be used as the default group for synchronized users.</p> <p>When a user is created in iKnowBase, it is provided with a default group. The value of this property is the name of the default group.</p>
Document type (Person Card)	<p>Select the document type to be used for person cards.</p> <p>When a user is synchronized, iKnowBase creates a person card for this user that has some standard attributes. This person card is a placeholder for the attributes and dimensions that a developer chooses to transfer from the external user directory to iKnowBase. The value of this property is the document type that will be used for these is the external key of this document type.</p>
Document type (Organization Card)	<p>Click the appropriate document type.</p> <p>You can create an organization card that is a placeholder for the information that the developer chooses to synchronize from the remote user directory as organizational information. This field provides an external key that represents an document type given to this document.</p>
Person card mapping	<p>To create a user profile, some information has to be extracted from LDAP in order to create a valid account. The user account will then be added to iKnowBase, and they will also get a personal profile card. The mandatory attributes are:</p> <ul style="list-style-type: none"> • Username: The name of the LDAP-attribute that identifies the username (login name). Mandatory. • Email: The name of the LDAP-attribute that identifies the user's e-mail address. Mandatory. • Is email required when creating the user?: If email is not required, the user will be created without an email address. Otherwise it will terminate the processing for the actual user and return an error message. • Name: The name of the LDAP-attribute that identifies the user's display name. Mandatory • Alternative key: When bootstrapping w/paging, you might run into a sizelimit-error if a large number of users starts with the same letter (normally not before 1000 entries). If so, you can define an alternative LDAP key used when bootstrapping with paging. • External key identifier (default is cn): Defines the ldap attribute used as external key when creating person cards (documents) and person dimensions. If null, cn will be used as key. The external key will be prefixed with IKB_OID_SYNC:.
Organization card mapping	<ul style="list-style-type: none"> • Create org.card: Check this flag if you want the LDAP Sync engine to create organization cards and dimensions corresponding to the organization information on the user object in LDAP.

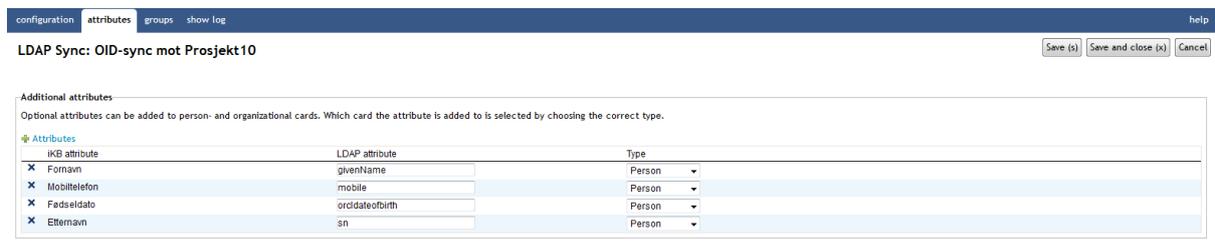
Property	Description
	<ul style="list-style-type: none"> • Create IKB Group: Check this flag if you want the LDAP Sync engine to create a group corresponding to the organization information on the user object in LDAP. • Name: The name of the LDAP-attribute that will be the external key of the organization card. Required when creating organization cards. • Code: The name of the LDAP-attribute that identifies the code of the organization.
Custom pre- and post and error procedures	<p>Its possible to create plug-ins that will execute during a user synchronization. There are three different types:</p> <ul style="list-style-type: none"> • Custom Pre-user procedure: Type the name of the database procedure that should be called before the synchronization of each entry. The signature must look like this and as you can see the two out parameters can be used to define if the synchronization should continue or not for an ldap entry: <pre data-bbox="456 853 1382 1128"> PROCEDURE <package>.<procedure name> (sync_id in number, ldap_entry in varchar2, session_id in DBMS_LDAP.session, changetype in varchar2, entrytype in varchar2, cn in varchar2, do_continue out number, do_create_card out number); </pre> • Custom Post-user procedure: Type the name of the database procedure that should be called after the synchronization of each entry. The signature must look like this : <pre data-bbox="456 1290 1382 1541"> PROCEDURE <package>.<procedure name> (sync_id in number, ldap_entry in varchar2, session_id in DBMS_LDAP.session, userId in number, PersonCardId in number, OrgCardDocId in number, changetype in varchar2,); </pre> • Custom error-handling function: Type the name of the database function that should be called if creation of a user account/person card fails. If you return -1, the synchronization will terminate. The signature must look like this : <pre data-bbox="456 1738 1382 1935"> FUNCTION <package>.<function name> (sync_id in number, person_record in ot_ldap_person_rec, session_id in DBMS_LDAP.session, sqlerrm in varchar2, sqlcode in number) return number; </pre>
Run bootstrap	By running a bootstrap, all users in the LDAP that correspond to the profile will be synchronized to iKnowBase. The job will be runned as a background job.

Property	Description
	Be aware it will take some time and it should only be used when you want all users synchronized to iKnowBase. Normally, the changelog synchronization is a preferred way of getting data into iKnowBase. This function is only available if the LDAP profile is valid.
Run changelog synchronization	By running a changelog synchronize, all changes since last time the synchronization was runned will be synchronized to iKnowBase. In production, this will normally be runned as a scheduled job. The command you can use to add it as a schedule is : <code>begin oid_sync.synchronize_users (p_sync_id => 'id',p_execution_user => 'adminuser');</code> end;. This function is only available if the LDAP profile is valid.
Run single instance	By running a single instance, only the entered user will be synchronized, You need to enter a valid DN-string. This function is only available if the LDAP profile is valid.

Attributes Tab

The attributes tab contains information about the user and group attribute mappings from the LDAP directory to iKnowBase.

Figure 13: LDAP Sync Edit pane - attributes



Property	Description
iKB attribute	Select the iKnowBase attribute for the target information object. The select list will only be populated by iKnowBase attributes tagged with an external key. The iKnowBase attribute selected will be the attribute that the LDAP value is synchronized to.
LDAP attribute	Type the name of the LDAP attribute of the LDAP object (user or group) to be synchronized from the LDAP to iKnowBase.
Type	Select the appropriate object type of this entry. Select Person if the attribute should be synchronized to the person card. Select Organization if the attribute should be synchronized to the organization card.

Groups Tab

The groups tab contains information on the mapping between groups in the LDAP server and in iKnowBase.

If the property "Sync all groups" is set, this tab is a pure information tab, displaying the information on the actual mapping.

Otherwise, if the property "sync all groups" is not set, this page lets you specify which groups you want to synchronize, and which iKnowBase-group you want to map to. Note: that when you use manual mapping, you need to create the iKnowBase groups before you can map to them.

LDAP Sync: OID-sync mot Prosjekt 10

Group mapping

Here you can configure mapping between groups defined in LDAP and groups defined in iKnowBase. If a user that is synchronized, is member of an LDAP group that is chosen, the user will also become a member of the matching iKnowBase group, if such mapping exists.

LDAP group	IKB group
Leeds	IKB_USERS

Save (s) Save and close (x) Cancel

Property	Description
LDAP group	Select the LDAP group to be synchronized from the LDAP to iKnowBase. Existing groups in the LDAP specified by the Select LDAP-profile property on the Configuration tab are available in the dropdown boxes.
IKB group	Select the iKnowBase group which the given LDAP group will be synchronized to.

Show log

The tab contains a detailed log generated for each run of the synchronization.

When the synchronization is runned it will log info available here. You can choose between a detailed log or a overview of operation runned during synchronization.

iKnowBase

User: ORCLADMIN (n)
Database: IKNOWBASE@ORCL@prosjekt10
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user directory development tools metadata management

configuration attributes groups show log usage

view information for "test of oid sync on prosjekt10" of type "advanced oid synchronizing" Purge log Cancel

debug and error log [hide/show detailed log](#)

timestamp	id	message type	key	message
06.09.2010 12:07:38	4850	INFO		USER SYNC PROCESS DONE
06.09.2010 12:07:38	4849	INFO		Starting in read changelog mode, Last changelog number is 8116. Number of changes are : 0
06.09.2010 12:07:38	4848	INFO		USER SYNC PROCESS STARTED

Property	Description
Timestamp	Displays when the log info was created.

Property	Description
ID	Displays the id in the log table.
Message type	Displays the severity of the message. INFO, DEBUG and ERROR are the valid values.
Key	Displays normally the key (DN) handled in the operation.
Message	Displays a status/error message for each line.
Trace info	Displays trace info (only available when running i debug mode).

18. Menus

The menu component enables you to create menu structures which may be presented in various formats. You can create a new menu component, and then build its structure by creating submenus and menu items. You can link menu items to a portal page, URL, iKnowBase page, form, task wizard, or quick link. You can apply various menu styles, such as rollover effects, to menus, and insert images or icons to identify menu items.

In iKnowBase, you can create a menu either manually or by importing a menu structure from an existing dimension tree.

Use the menu portlets to make menus available to users.

18.1 Properties

This section describes the properties of a menu, as shown on the corresponding Edit pane tabs.

Edit tab

User: ORCLADMIN (us)
Database: IKNOWBASE@ORCL@projekt10
[About - ikb\\$console - Mode=deployment](#)

user directory | development tools | metadata management

edit | elements | style | usage

maintain "cs main menu" of type "menus" Apply OK Cancel

create and edit menus
Edit the menu by entering a new name or a description. Javascript is used to add your own scripts and is optional. The icon fields give you an option to add icons to menus and menu elements. You can in the presentation of the menu decide if you want to show them or not.

subsystem: iKB Desktop

* name: CS Main Menu

* description: Main menu for iKnowBase Content Studio

javascript: [Text Area]

icon for menus: [Input] Width [Input] Height [Input]

icon for element: [Input] Width [Input] Height [Input]

icon for active element: [Input] Width [Input] Height [Input]

database information

guid: 717B21BAEDDF60CFE040000A17000798
id: 42743
created: 19.08.2009 11:08 by ORCLADMIN
updated: 25.11.2009 18:54 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.

Property	Description
Name	Type a name for this menu.
Description	Type a description for this menu.
JavaScript	Type JavaScript code which may be used from the portlet rendering the menu. The standard iKnowBase menu portlets don't require any JavaScript code. This may be relevant if you write your own menu portlet.
Icon for menus	<p>Some of the presentation forms of menus support the use of icons. These are used slightly different depending on the form of presentation.</p> <p>Type the reference to the icon, together with its width and height, to be used for menus.</p> <p>The file must be reachable from the application server.</p>
Icon for element	<p>Some of the presentation forms of menus support the use of icons. These are used slightly different depending on the form of presentation.</p> <p>Type the reference to the icon, together with its width and height, to be used for menu items.</p> <p>The file must be reachable from the application server.</p>
Icon for active element	<p>Some of the presentation forms of menus support the use of icons. These are used slightly different depending on the form of presentation.</p> <p>Type the reference to the icon, together with its width and height, to be used for the active menu item.</p> <p>The file must be reachable from the application server.</p>

Elements tab

The screenshot shows the iKnowBase administration interface. At the top right, it displays the user 'ORCLADMIN (n)' and the database 'iKNOWBASE@ORCL@prosjekt10'. Below the navigation bar, the 'elements' tab is selected. The main content area is titled 'maintain "xnext: main menu" of type "menus"'. Underneath, there's a section for 'elements' with instructions: 'Add new menu items or edit existing. Items can be either items or new menus. Select a portal page by browsing the navigator or enter a URL directly. By adding a target you can also transfer attributes to the target the element is pointing to. Navigate to submenus by clicking the down-icon'. The path is 'Root->Forside->Nyheter'. There are several action buttons: 'Add iKnowBase Page', 'Add Form', 'Add Quick Link', 'Add Task', 'Add Uri', and 'Add Separator'. Below this is a table with the following columns: 'title', 'link type', 'select link', and 'target'. The table contains three rows of menu items:

title	link type	select link	a	s	b	e	target
Nyhetsarkiv n News archive us	iKnowBase Page	/jnext/accesspage/news/archive (XNext Accesspage news archive)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	target
Vis nyhet n	iKnowBase Page	/jnext/accesspage/showcontent/news (XNext Accesspage Show Document Content for news)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	target
Vis stilling ledig n	iKnowBase Page	/jnext/accesspage/showcontent/vacancy (XNext Accesspage Show Document Vacancy)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	target

You can choose between six types of menu elements:

- **iKnowBase page:** Select this link type to link the element with an iKnowBase page.

- **URL:** Select this link type to link the element with a URL.
- **iKnowBase Form:** Select this link type to link the element with form.
- **Quick link:** Select this link type to link the element with a quick link.
- **Task wizard:** Select this link type to link the element with a task wizard.
- **Separator:** Used when you want to create a blank line

To change the menu item order, simply drag and drop the element where you want it.

Property	Description
Down	If subitems exists, the link will navigate to the next level.
Add	If subitems don't exist, the link will navigate to the next level where you can add subitems.
Delete	Will delete (when Save or Save and Close is pressed) menu items or submenus.
Title	Type the name of the menu, or the item that appears in the menu. If multiple languages are supported in the solution, each language displays in a separate input field. The language code is displayed behind the input field.
Link type	Select the type of link that is connected to the menu item. <ul style="list-style-type: none"> • iKnowBase page: Select this link type to link the element with an iKnowBase page. • URL: Select this link type to link the element with a URL. • iKnowBase Form: Select this link type to link the element with form. • Quick link: Select this link type to link the element with a quick link. • Task wizard: Select this link type to link the element with a task wizard.
Select Link	Select the proper link destination.
A (all)	For protected destinations, enabling this option will show the menu element regardless of login status. With this option deselected, protected destinations will only be shown to logged in users with the proper permission. When users who are not logged on are given access to protected pages, they will normally be asked to log on.
S (Sitemap)	Check this option to allow the menu item to appear in a sitemap.
B (Breadcrumb)	Check this option to allow the menu item to appear in a breadcrumb.
E (Enabled)	Check this option to enable the menu item.
Target	Select target to be used. URL parameters may be used together with targets. If both Select link and Target are defined, the former will be passed as a parameter to the latter.

Style tab

iKnowBase User: ORCLADMIN (n)
Database: IKNOWBASE@ORCL@projekt10
[About](#) - [Help](#) - [lib\\$console](#) - [Mode=deployment](#)

user directory | development tools | metadata management | database admin | help

edit | elements | **style** | usage

maintain "xnext: main menu" of type "menus" Save Save and close Cancel

elements
Edit style characteristics to a item or a menu. This includes alignment settings, tooltips and images
Path: Root->Forside->Nyheter

	title	alignment	css-id	tooltip	image	rollover	len
add delete	Nyhetsarkiv n News archive us	Left					
add delete	Vis nyhet n	Left					
add delete	Vis stilling ledig n	Left					

Property	Description
Title	Type the name of the menu, or the item that appears in the menu. If multiple languages are supported in the solution, each language displays in a separate input field. The language code is displayed behind the input field.
Alignment	Select the appropriate alignment for the text.
CSS-ID	Type the ID of the CSS class that is associated with the elements in the HTML code. This CSS class can be used for styling of the menu element.
Tooltip	Type a tooltip for the menu item. If multiple languages are supported in the solution, each language displays in a separate input field. The language code is displayed behind the field.
Image	Type the file path of the image that you want to display as the element. The file path is the application server path of the image file that is displayed.
Rollover	For menus that support rollover effects, type the reference to the icon that is displayed. The file must be referenced so that it can be accessed from the application server.
Len	Type the length of the image. This property is used for some presentation forms.

18.2 Creating a Menu Based on a Dimension Tree

If you choose to create a menu based on an existing dimension tree (Menu with import from iKnowBase), you will need to choose the starting dimension and number of levels to include. When you click Apply the menu will be created with menu elements corresponding to your specification.



User: mvoss (n)
 Database: IKNOWBASE@KNETT@nsadb02
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user directory

development tools

metadata management

create an object of type "menus" Apply Cancel

create a menu by synchronizing a part of the dimension structure. select a starting point and the number of levels you want to import.

Select a dimension 

Select num levels under the dimension

Property	Description
Select a dimension	Select a start node in the dimension tree. Node below this point will be imported into the menu structure
Select num level under the dimension	The import will traverse down to this level

18.3 Re-synchronize a menu based on a dimension tree

When you create a menu based on a subset of the dimension tree, iKnowBase will copy the dimension information into the menu structure. If the dimension tree changes, the menu will not change automatically.

Use the Synchronize menu link to re-synchronize a menu based on a dimension tree. When you select this command, iKnowBase will display the same input form as when creating the menu for the first time. Input the correct value, click apply, and iKnowBase will update the menu structure with updated dimension information.

19. Mimetypes and formats

An Internet media type, originally called a MIME type after MIME (Multipurpose Internet Mail Extensions) and sometimes a Content-type after the name of a header in several protocols whose value is such a type, is a two-part identifier for file formats on the Internet. A media type is composed of at least two parts: a type, a subtype, and one or more optional parameters. For example, subtypes of text type have an optional charset parameter that can be included to indicate the character encoding, and subtypes of multipart type often define a boundary between parts. In iKnowBase they are used to describe a page.

Format in iKnowBase is a suffix to the name of a computer file applied to indicate the encoding convention (file format) of its contents. In iKnowBase they describe how to store and index the content of the file.

19.1 Properties

This section describes the properties of a Mimetype, as shown on the corresponding Edit pane tabs.

Property	Description
Mimetype	A media type is composed of at least two parts: a type, a subtype, and one or more optional parameters. For example, subtypes of text type have an optional charset parameter that can be included to indicate the character encoding, and subtypes of multipart type often define a boundary between parts.
Description	A short description of the mimetype should be placed here.
Delete icon	Will only be available if any documents with this extension is store in iKnowBase.
File extension	Specify the extension of the file (e.g. GIF).
Description	A short description of the format.
#documents	Shows the number of documents with this format.
Indexable?	If SOLR is in use, "indexable?" decides if the file should be indexed in SOLR.
WebDAV enabled?	Defines if WebDAV integration is available for this format. iKnowBase supports WebDAV editing for Microsoft documents.
WebDAV Script	Call interface to webDav for this format. A sample is generated for you if you save after checking the WebDav enabled option. The sample script includes registered URI scheme for the application (e.g. "ms-word"). Adjust generated

Property	Description
	sample with the URI scheme for the application you want to launch (e.g. "ms-excel", "ms-powerpoint", ...).

20. Newsletter

Newsletter enables you to send content to specific subscribers at periodic intervals by e-mail. You can specify various formats for each newsletter, and schedule it for publication to the subscribers of the newsletter.

The newsletter component can use one of the following method to extract the content:

- A page driven newsletter will run a page and email the content for that page. When running page based newsletters, please note that iKnowBase Batch Server (ikbBatch) has to be running in addition to the page engine server.
- A search source driven newsletter will use a search source to extract the content. This is the old-fashion way with less flexibility than the page option.

You can also administer the subscribers of the newsletter in this component, but for end users you will need the newsletter portlet to allow subscribe and unsubscribe to the newsletter.

20.1 Newsletter Properties

This section describes the properties of a newsletter, as shown on the corresponding Edit pane tabs.

Edit Tab (Page driven variant)

The screenshot shows the 'Edit' tab for a newsletter in the iKnowBase interface. The main title is 'maintain "ikb-systest newsletter in batch" of type "newsletter"'. The form contains the following fields:

- mandatory values for a newsletter:**
 - subsystem: SYSTEST
 - * title: IKB-SYSTEST Newsletter in batch
 - * select a page: /SYSTEST/Portlet/ContentSearch/Usage/Tooltip
 - * public user: PUBLIC_BRUKER (Sample: Guest user)
 - * domain: ikb-systest.dev.iknowbase.com:80
- database information:**
 - guid: AF2C710700DF21E1E04000A18001225
 - id: 58261
 - created: 13.10.2011 15:08 by ORCLADMIN
 - updated: 09.12.2011 10:54 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for this newsletter.
Select a page	Select the page you want to use as a newsletter. When creating this page you should be include your css and scripts with full path.
Public user	Select the user whose permissions will apply when extracting content for the newsletter. The user must be marked as a "public user" in the user directory.

Property	Description
Domain	Select the domain definition used when sending the newsletter. Necessary to build the correct links in the newsletter.

Edit Tab (Search Source variant)

The screenshot shows the iKnowBase interface for editing a newsletter component. The page title is "maintain 'demo: www.evita.no - nyhetsbrev' of type 'newsletter'". The interface includes a navigation bar with tabs for "edit", "mail format", "scheduling", "subscribers", and "usage". The "edit" tab is active, showing configuration fields for the newsletter. The "mandatory values for a newsletter" section includes fields for subsystem, title, target, search source, public user, and domain. The "database information" section shows GUID, ID, creation date, and update date.

Properties	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for this newsletter.
Target	Select the target where you want to present the content of the newsletter. This property will be used when a user clicks on a document link in the newsletter.
Search source	Select the search source that represents the content (documents) you want included in the newsletter. Note This search source should not be configured with a presentation style. Specify how to present the content of the newsletter in the mail format tab.
Public user	Select the user whose permissions will apply when extracting content for the newsletter. The user must be marked as a "public user" in the user directory.
Domain	Select the domain definition used when sending the newsletter. Necessary to build the correct links in the newsletter.
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.

Properties	Description
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

Mail Format Tab (Page driven variant)

You need to specify sender, subject and profile.

Property	Description
Subject	Type a subject for this newsletter e-mail.
Sender	Type the e-mail address of the sender of the e-mail. This address can contain aliases.
Mail server profile	The profile field is only available when using the batch mail function instead of the database sendmail function. Profile points to ikb_installation_properties where you can define profiles to different mailservers. The value should be the second last name (PROFILE) from the installation property "com.iknowbase.emailsender.PROFILE.host"
Mail header properties	The list can contain valid email header properties added to the email, e.g. Reply-to, Return-Path and so on. Check Internet message Header

Mail Format Tab (Search Source Variant)

You must specify the HTML code for the newsletter in the Mail format tab. Click the Generate HTML button to populate the HTML fields with default HTML code. This HTML code can be used as the starting point for the e-mail that is defined.

newsletter: /systest/interaction/contentviewer/notifier
Save (s) Save and close (x) Cancel

define content in newsletter.

* subject

* sender

mail header properties (e.g. reply-to)

➤ Add header

email header property	value

html content

link to unsubscribe

* HTML content in mail

Fullscreen (F11) text html groovy

```

1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <title>#yhetabrev</title>
5 <meta http-equiv="Expires" content="-1"/>
6 <meta http-equiv="Pragma" content="no-cache"/>
7 <style type="text/css">
8 body { font-family: Verdana,Arial, Helvetica, sans-serif; }
9 #h.heading { font-size: 10pt; margin-bottom: 3px; }
10 #p.increase { font-size: 10pt; margin-top: 3px; }
11 </style>
12 </head>
13 <body#BODY#>
14 <a href="#IKB_UNSUBSCRIBE_LINK#">#eaid deg av</a>
15 </body></html>

```

the following dynamic parameters are available in html content
#ikb_unsubscribe_link# - unsubscribe link

the following dynamic parameters are available in html per document
#ikb_document_title# - title
#ikb_document_desc# - description
#ikb_document_body# - body
#ikb_document_link# - link to document

and all attributes identified by external key, eks. #external_key#

* HTML content per document

Fullscreen (F11) text html groovy

```

1 <h4><a href="#IKB_DOCUMENT_LINK#">#IKB_DOCUMENT_TITLE#</a></h4>
2 <p>#IKB_DOCUMENT_DESC#</p>
3 <p>#IKB_DOCUMENT_BODY#</p>
4 <p>#Organization: #IKB_ORG#</p>
5 <p>#Number: #IKB_CUSTOMER#</p>
6 <p>#Mobil: #IKB_CELL_PHONE#</p>
7 <p>#Født: #IKB_BIRTHDATE#</p>
8

```

Property	Description
Subject	Type a subject for this newsletter e-mail.
Sender	Type the e-mail address of the sender of the e-mail. This address can contain aliases.
Profile	The profile field is only available when using the batch mail function instead of the database sendmail function. Profile points to ikb_installation_properties where you can define profiles to different mailservers. The value should be the second last name (PROFILE) from the installation property "com.iknowbase.emailsender.PROFILE.host"
Email header property/Value	The list can contain valid email header properties added to the email, e.g. Reply-to, Return-Path and so on. Check Internet message Header
Link to unsubscribe	Select the appropriate target to be used to unsubscribe from the newsletter. The target must contain a newsletter portlet configured for unsubscribe. This target is used when the user clicks a link to unsubscribe from the newsletter.
HTML content in mail	Type the format of the e-mail that is sent. The format contains the HTML code for building the newsletter. The #BODY# tag must be included in the HTML code. This is where the content of the newsletter is inserted, as specified by the property HTML content per document. The format supports one dynamic parameter:

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Property	Description
	<ul style="list-style-type: none"> #IKB_UNSUBSCRIBE_LINK#: This parameter creates a link to unsubscribe, based on the Link to unsubscribe property. <p>Note</p> <p>Use the HTML Generate button to generate default HTML code.</p>
HTML content per document	<p>Type the format of the HTML code to present for each article in the newsletter. The content is inserted in the #BODY# tag in the HTML content in mail property.</p> <p>This field supports several dynamic parameters:</p> <ul style="list-style-type: none"> #IKB_DOCUMENT_TITLE#: The document title. #IKB_DOCUMENT_DESC#: The document ingress. #IKB_DOCUMENT_LINK#: Link to the document. This parameter uses the target page. #EXTERNAL_KEY#: All document attributes that are identified by an external key are supported. For example, if the attribute news type has the external key: IKB_NEWSTYPE, this attribute can be included in the document by inserting #IKB_NEWSTYPE# in the HTML code. <p>Note</p> <p>Use the HTML Generate button to generate default HTML code.</p>

Scheduling Tab

Property	Description
Start date	Enter the start date for the newsletter schedule.

Property	Description
Time	Enter the time for running the newsletter routine.
Interval	Type the frequency of sending the newsletter, using the Oracle Database syntax.. Examples: <pre>FREQ=DAILY FREQ=WEEKLY</pre> <p>Note:Click the Add button to add this schedule.</p>
Next run date	Displays the next date and time when the newsletter will be sent.
Interval	Displays the interval between sending the newsletters.

Subscriber Tab

You can add and remove subscribers for this newsletter here.

The screenshot shows the iKnowBase web interface. At the top right, it displays 'User: ORCLADMIN (n)' and 'Database: IKNOWBASE@ORCL@projekt10'. Below this are navigation links: 'About - Help - Ikb\$console - Mode=deployment' and a 'help' button. The main navigation bar includes 'user directory', 'development tools', 'metadata management', 'database admin', and 'help'. The 'development tools' tab is active, and within it, the 'subscribers' sub-tab is selected. The page title is 'view information for "demo: www.evita.no - nyhetsbrev" of type "newsletter"'. Below the title, there is a section 'add a new subscriber to this newsletter' with an input field for 'Enter e-mail address' and an 'Add' button. Below that, there is a section 'displays the list of all subscribers. you can remove entries here' with a search input field containing 'iknowbase@mail' and a 'Search' button. The search results show a table with columns 'e-mail address' and 'subscription start date'. Two entries are listed: 'iknowbase@mailexample.com' and 'iknowbase_guest@mailexample.com', each with a red 'X' icon to its left.

Property	Description
Add a new subscriber to this newsletter	Enter the email address and press the Add button. Next time the newsletter is sent, this subscriber will also get the newsletter.
Displays a list of all subscribers	Use the search button to filter the search result. If you want to delete a subscriber, press the delete icon placed before the email you want to delete.

20.2 Testing a Newsletter

On the Scheduling tab on the **Edit** pane of the newsletter there is a button **Send newsletter (test)**. Specify an e-mail address to send the test newsletter to, and click on this button to send the newsletter to the specified address.

If there are no documents to send out in the newsletter, the recipient receives an e-mail with the text: No documents ready for mailing.

If there are documents to send out in the newsletter, the recipient receives an e-mail with the prefix TEST in the subject field. The newsletter is identical to the one that is sent out in a regular newsletter e-mail.

20.3 Sending a newsletter

On the Scheduling tab on the **Edit** pane of the newsletter there is a button **Send newsletter**. Click on this button to immediately send the newsletter by e-mail to all subscribers.

20.4 Scheduling a Newsletter

On the Scheduling tab on the **Edit** pane of the newsletter you can specify a schedule for the newsletter.

Enter **start date, time, and interval between executions**. Click on the **Add** button to add this schedule as an active schedule for the newsletter. The schedule will appear in the region **Here is an overview of active schedules for this newsletter**. The newsletter is sent by e-mail to all the subscribers at the specified intervals. **Note:** This scheduled job will also appear as a Schedule component and can be maintained from the Schedule pages.

To remove an active schedule you must select the checkbox to the left of the schedule, and click on the **Delete schedule** button. The schedule will no longer appear in the region **Here is an overview of active schedules for this newsletter**.

21. Package alias

Package aliases are needed for all PL/SQL functions called from a URL (like a custom save from a form).

21.1 Properties

This section describes the properties of a package alias, as shown on the corresponding Edit pane.

edit
Save (s) Save and close (x) Delete Cancel

package alias: advanced_menu.get_submenu_items

maintain aliases for package interface

subsystem	▼
* procedure name	advanced_menu.get_submenu_items
* alias name	advanced_menu.get_submenu_items
restrict access	🔒
iKnowBase alias	<input checked="" type="checkbox"/>

package/procedure info

owner	IKB_SYSTEST
object type	PACKAGE
status	VALID
created	14.02.2010 18:44:13
last ddl time	02.01.2014 15:14:53

procedure signature

name	in/out	datatype	defaulted?
P_MENU_GUID	IN	VARCHAR2	N
P_SUBMENU_GUID	IN	VARCHAR2	Y
P_LANGUAGE	IN	VARCHAR2	N

database information

guid	9F4AE824F32FD190E040000A17000F36
id	95846
created	25.03.2011 10:06
updated	07.01.2014 13:18 by ORCLADMIN
master table	IKB_PLSQL_EXTERNAL_PACKAGES (Package aliases)

patch sets

Add to patch set Save

action	id	name	last built

Property	Description
Subsystem	Select the subsystem the profile belongs to.
Procedure name	Type the PL/SQL command that you want to call from the iKnowBase Oracle database. Use the syntax <code><package> . <procedure></code> , or <code><owner> . <package> . <procedure></code> if the package is owned by another schema than iKnowBase.
Alias Name	Type the alias of the database function.
Restrict access	Select a ACL if you want to restrict the access to the function.
iKnowBase alias	If checked, the procedure is a part of iKnowBase and should be untouched.

21.2 Package/procedure info

This section shows information about the procedure such as object type, status, created date and last DDL time.

21.3 Procedure signature

This section shows the signature of the procedure.

22. Page cache strategy

Page cache strategies are applied on page components and define cache rules for a specific component. Cache keys can be a combination of several context variables like user, domain or language.

22.1 Properties

This section describes the properties of an page cache strategy, as shown on the corresponding Edit pane.

The screenshot shows the 'page cache strategy' configuration page in iKnowBase. At the top right, it displays 'User: ORCLADMIN (n)' and 'Database: IKB_SYSTE@ord@projekt11'. Below the navigation tabs, the title 'page cache strategy:' is followed by 'Save (s)', 'Save and close (x)', and 'Cancel' buttons. The main content area is titled 'maintain page cache rules for iknowbase' and contains a table with the following data:

name	cache key	expiration	publish updates to instant
Per request param, 1 hour	\$(domain)\$(language)\$(request.param)	3600	<input type="checkbox"/>
Shared, 1 minute, instant	\$(language)\$(domain)	60	<input checked="" type="checkbox"/>
Shared, 1 hour	\$(language)\$(domain)	3600	<input type="checkbox"/>
Shared, until next date	\$(language)\$(domain)	DATE	<input type="checkbox"/>
Per user, 1 hour	\$(user)\$(language)\$(domain)	3600	<input type="checkbox"/>
Per user, until next date	\$(user)\$(language)\$(domain)	DATE	<input type="checkbox"/>

Below the table is a 'database information' section with the following details:

```

guid
id
created
updated
master table      IKB_PAGE_CACHE_STRATEGY (Cache strategy rules)

```

Property	Description
Name	Enter the name of the cache rule.
Cache key	<p>Defines the key used for caching. The following model objects are available:</p> <ul style="list-style-type: none"> • <code>\$(objectGuid)</code> is the unique identifier of the portlet / page component being cached. • <code>\$(domain)</code> is the unique identifier of the domain currently being serviced. • <code>\$(language)</code> is the language code of the iKnowBase language currently in use. • <code>\$(user)</code> is the userid of the iKnowBase user currently being serviced. • <code>\$(request)</code> is a RequestModel containing most information pertaining to the request, including parameters. See the APIReference for more details on this model object. <p>Combine values like objectGuid, domain, language, user and request.param to create a desired cache key. A typical minimal cache key will contain at least objectGuid, domain and language.</p> <p>Note that you should take care to avoid unlimited proliferation of cache keys, in particular if you were to include a document id parameter as part of the cache key.</p>
Expiration	Enter how long the component should be cached in seconds. The value DATE tells the cache engine to cache the object until next date.

Property	Description
Publish updates to instant	Set to checked if you want a message published to iKnowInstant when the object is expired.

23. Pages

An iKnowBase page, simply referred to as page in this document, enables you to display and receive content from the end user through iKnowBase Page Engine.

A page can consist of various components, such as Menu portlets and Shared content viewers. These components are referred to as portlets.

While creating a page, you can specify the template, path or URL for the page, the ACL reference that sets access permissions for the page, and the portlets that you want to display, such as forms, menus, and content viewers.

23.1 Properties

This section describes the properties of a page, as shown on the corresponding Edit pane tabs.

Edit Tab

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for this page.
Path	Type the reference to the URL that is used to access the page. The reference is relative to the page URL specified on the domain, so the actual URL for a value <code>"/iknowbase/about/</code> could be <code>http://www.example.com/page/iknowbase/about</code> , but also <code>http://www.example.com/iknowbase.about</code> , depending on your setup.

Property	Description
	If this field is blank, you cannot access the page directly from a browser. You can still include the path in another page, or use it as a layout page. The path name must be a unique name.
External key	Type the external key. This value is used for external integration.
Restrict access	Select the appropriate access control list (ACL) for the page. To view the page, the user must have read rights to the specified ACL.
Page Type	Click the appropriate page type. This page type specifies whether the page that is created is used as an iKnowBase page or iKnowBase layout page.
Mime Content Type	Click the appropriate content type that identifies the type of content on the page. For example, text/html or text/xml.
Layout page	Select the layout page you want to use for this page
Template set	Please see the Template Set section for more information.

Component Tab

On this tab you add the portlets to display on the page. The template used for the page decides which regions are available for displaying portlets. You can change the order of the portlets by drag and drop functionality.

Property	Description
Actions	<ul style="list-style-type: none"> Edit (or set) the preferences of the portlet Delete the portlet from the page Run a test of this specific portlet
Title	<p>Will either display :</p> <ul style="list-style-type: none"> the title set in the customization. (Configured, no title). Means the portlet has been configured, but no title has been given.

Property	Description
	<ul style="list-style-type: none"> (Not configured). Means the portlet has not been configured.
Component	<p>Displays the portlet type.</p> <p>Note</p> <p>This is a read-only property. When you click the "Add portlet" link to add a portlet to the page, you choose which type of portlet to be added.</p>
Region name	<p>Type the name of the region where the component is shown. The underlying template can display this component at a location that is predefined in the template. The regions are defined in the template.</p>
Markup ID	<p>Enter an identifier to be used when identifying the component on the web page, or leave blank for an identifier to be automatically generated. The identifier will be used by automatically generated code in certain components, and can also be used as the identifier in the reloadComponent javascript function.</p> <p>Note that if you enter a value here, this value must be unique on the rendered page (including embedded pages and layout pages). Whenever possible, it is recommended that the value is left blank.</p>
Disabled?	<p>Disable the portlet. It will be rendered when running the page. Typically used for debugging reasons.</p>
Restrict access	<p>Select the appropriate access control list (ACL) for the page. The component appears to the end user only if he has read access to the selected ACL.</p>
Content Cache Key	<p>Select the appropriate content cache mechanism to be used for the portlet.</p> <p>Predefined options are:</p> <ul style="list-style-type: none"> Per user, 1 hour: The content of the portlet will be cached per user, domain, and language. Cached content expires after one hour. Per user, until next date: The content of the portlet will be cached per user, domain, and language. Cached content expires at midnight (i.e. change of date). Shared, 1 hour: The content of the portlet will be cached per domain and language; all users with the same language on the same domain will share the same cached content. Cached content expires after one hour. Shared, until next date: The content of the portlet will be cached per domain and language; all users with the same language on the same domain will share the same cached content. Cached content expires at midnight (i.e. change of date). <p>You can add self-defined options, see the <i>Page cache strategy</i> chapter.</p> <p>Note: If you leave this property blank, the content of this portlet will not be cached.</p>

Property	Description
	<p>Note: Access control will not be applied to shared cached content. A user who accesses a portlet, which is configured to use shared cache, will see the exact cached content regardless of his access rights. A consequence might be that the user gets access to too much or too little data.</p>
Render Strategy	<p>Select the appropriate render strategy to be used for the portlet. Available options are:</p> <ul style="list-style-type: none"> • Inline: The portlet will load and render together with the rest of the page. • On load: The portlet will load and render after the DOM has finished loading for the page. • Manual: The portlet will not automatically load and render. You should implement the necessary code to load and render the portlet using the iKnowBase JavaScript function <code>reloadComponent</code>, and the appropriate triggers. <p>Note: If you specify other render strategies than Inline, portlet decorations will automatically be rendered for the portlet (i.e. a div-tag with id and class attributes).</p>

Text elements Tab

The properties on this tab enable you to define texts to be used in the component. The texts are available as FreeMarker model objects from the Template used for the Page. Multiple languages are supported.

The screenshot shows the iKnowBase console interface. At the top, there is a navigation bar with tabs for 'user directory', 'development tools', and 'metadata management'. Below this, there is a sub-navigation bar with tabs for 'edit', 'component', 'text elements', and 'usage'. The main content area displays the title 'maintain "/autotest/newpage" of type "page"' and a sub-action 'Test'. Below the title, there is a text input field for 'enter text labels you want to use in the template. all labels are translateable'. The input field contains a table with two columns: 'id' and 'text'. There are four rows of input fields, each with a 'us' language indicator to its right.

Property	Description
Id	Type an identifier for the label.
Text	Type the text labels that you want to use in the page. If multiple languages are supported in the solution, each language displays a box, in which you can

Property	Description
	type the display form name. When you place the cursor in the Text field, the language box appears. The language code is placed behind the field.

23.2 Testing your Page

To test your page, either click the Test action for the page on the List pane, or click the Test action link on the Edit pane tabs for the page.

Note

The Test actions become available for a page after you specify a path and perform the initial save of the page.

24. Parameter

iKnowBase enables you to define parameters and associate them with targets, viewers, search sources, and forms. Parameters are used to transfer values through targets to portlets and components.

A parameter enables you to specify or filter content that you want to display on target destinations. For example, you can create a parameter and associate it with an attribute named Employee ID. You can then add this parameter to a target and a viewer present on the target destination. The target destination will only display the content that is associated with the given Employee ID.

iKnowBase enables you to create two types of parameters:

- **iKnowBase parameter:** An iKnowBase parameter enables you to create a parameter that is mapped to an iKnowBase attribute.
- **SQL parameter:** An SQL parameter enables you to create dynamic parameters using an SQL string and a WHERE clause.

24.1 iKnowBase Parameter Properties

This section describes the properties of an iKnowBase parameter, as shown on the corresponding Edit pane.

The screenshot shows the 'edit' pane for a parameter named 'ACL'. The title is 'maintain "acl" of type "parameters"'. The pane is divided into two main sections: 'definition of dynamic parameters' and 'database information'.

definition of dynamic parameters:

- subsystem: TEST
- parameter type: iKnowBase parameter
- * name: ACL
- description: (empty text area)
- alias (for uri-param): p_acl_id
- * select attribute: Access Group
- condition: Equal
- condition locked in filter:
- available as add attribute in search:
- length in search filter: 99

database information:

- guid: 881FF5929D0744A3E040000A17003880
- id: -69064
- created: 03.06.2010 15:12 by ORCLADMIN
- updated: 03.06.2010 15:12 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.

Property	Description
Parameter type	Displays the parameter type as iKnowBase.
Name	Type a name for this parameter.
Description	Type a description for this parameter.
Alias (for URL-param)	Type the alias for the parameter. All parameters are sent with the default naming convention such as p_d_i/p_d_v and p_d_c. To increase the readability of the URLs, you can use aliases. For example, the IKB DocumentID attribute has ID = -121. By adding the p_document_id alias, a portlet that uses this parameter can change the URL from p_d_i=-121&p_d_c=IS&p_d_v=<value> to p_document_id=<value>.
Select attribute	Select the appropriate attribute.
Wildcard condition	Only available for title and search string attribute. When checked, it will add a wildcard when used as a search criteria.
Condition	Select the appropriate condition that is used as default in a search source where the parameter is used. Note This is applicable only for search sources that are created in the standard mode. Valid values depend on the type of attribute.
Condition locked in filter	Select this check box to lock the selected condition in the filter dialog box. The condition then becomes mandatory for the user, and the user cannot choose to use other conditions for this parameter. Note This is applicable only for search sources that are generated in the standard mode.
Available as Add Attribute in search	Select this check box to be able to use the iKnowBase parameter in the search filter under the Add Attribute function. This functionality makes the attribute searchable, even if it is not a part of the predefined filter.
Length in search filter	Type the maximum length of the text that a user can type in a search filter box.

24.2 SQL Parameter Properties

This section describes the properties of a SQL parameter, as shown on the corresponding Edit pane.

edit usage	
Save Save and close Cancel Copy	
maintain "sqlparam with dyn query attribute" of type "parameters"	
definition of dynamic parameters	
subsystem	<input type="text" value=""/>
parameter type	SQL parameter
* name	SqlParam with dyn query attribute
description	Possible to select values in a search source.....
alias (for url-param)	p_opttest
filter attribute	Fagområde
* condition	and exists (select 1 from document_attribute da1 where da1.dimension_id = #PARAM# and oi1.document_id = da1.document_id)
database information	
guid	A0F2CCC0A3146E33E040000A17007720
id	-100397
created	15.04.2011 12:49 by ORCLADMIN
updated	26.04.2011 15:59 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Parameter type	Displays the parameter type as SQL parameter.
Name	Type a name for this parameter.
Description	Type a description for this parameter.
Alias (for URL-param)	Type the alias for the parameter. All parameters are sent with the default naming convention such as p_d_i/ p_d_v and p_d_c. To increase the readability of the URLs, you can use aliases. For example, the IKB DocumentID attribute has ID = -121. By adding the p_document_id alias, a portlet that uses this parameter can change the URL from p_d_i=-121&p_d_c=IS&p_d_v=<value> to p_document_id=<value>.
Filter attribute	If the condition has a #PARAM# notation (means it will use a dynamic value as input) you can define an attribute which can be used as a filter attribute in a search viewer. The value will also define the value list for the filter attribute.
Condition	Type the where-condition that adds itself to the SQL produced by the component in which it is used, typically a viewer or search source. These components extracts data from the DOCUMENT table with prefix oi1. The condition must start with AND. You can use variables in the where-condition: <ul style="list-style-type: none"> • #USERID# which will be substituted with numeric user ID. • #SITEID# which will be substituted with the active site ID.

Property	Description
	<ul style="list-style-type: none"> • #PARAM# which will be substituted by the value of the dynamic parameter that is submitted through a target, where the dynamic parameter is the same as this parameter. <p>You can also define functions that are executed within the condition. The function must return a value. Functions are specified within curly brackets: <i>{functionName}</i>.</p> <p>Note: The execution is done only once, rather than one time per document that are extracted, and might be smart regarding performance.</p> <p>Example:</p> <pre data-bbox="456 685 1382 779">AND (oil.document_id_ref IS NOT NULL AND (oil.owner_id = #USERID# OR oil.owner_id = {dbbruker.get_manager(#USERID#)}))</pre>
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

25. Presentation Style

Presentation styles are used by viewers, task viewers and search sources to present data. While the viewer or search source decides which information objects should be shown, the presentation style decides which information to present and the look and feel of the data. By having them separate makes it possible to reuse presentation styles, and thus get a uniform look and feel across your portal. iKnowBase supports two different types presentation styles, with different properties.

Note

We recommend that you use FreeMarker templates as much as possible. You can convert existing Form- and Tabular based templates to FreeMarker templates by using the Convert to template, either one by one, or as a bulk operation available from iKnowBase Studio/Development tools/ Presentation styles. You can by any time revert the style back to its original state.

Property	Description
Template	Enables you to write your own FreeMarker code to format content.
SOLR	Used by SOLR viewers to enhance a result set from SOLR

In the presentation style you must specify which data source the data should be extracted from. You can choose between data sources for the iKnowBase content store, or external data sources which you define yourself.

When you specify an external data source, the columns defined for this external data source will be available as attributes in the presentation style. They can be presented with the same flexibility as iKnowBase attributes. They will be displayed as `<External: ColumnName>`, where *ColumnName* is the name that you have given the column in the external data source. If the external data source is independent, only the columns defined for the external data source will be available. Alternatively, if the external data source is dependent, the columns defined for the external data source will be available in addition to standard iKnowBase attributes.

When a presentation style which is set up with an external data source is connected to a viewer or a search source, it automatically builds an expression with the select, from, and where parts from the external data source. The parameters defined for the external data source will be available in the viewer and search source for building the where condition. They will be categorized as **External parameters**.

25.1 Template-based presentation style properties

This section describes the properties of a template-based or SOLR based presentation style, as shown on the corresponding Edit pane.

Edit Tab

edit
attributes
order conditions
style
advanced
icons
text elements
usage
main
help

Presentation style: Show documents

Define and edit presentation styles

Enter a name and a language and select attributes. Decide if you will allow create links or edit links to be generated.

<small>Subsystem</small>	<input type="text" value=""/>
<small>Selected layout</small>	<small>Template</small>
<small>* Name</small>	<input type="text" value="Show documents"/>
<small>Language</small>	<input type="text" value="English/American"/>
<small>Datasource</small>	<input type="text" value="<iKnowBase - Documents>"/>
<small>Show Add links</small>	<input checked="" type="checkbox"/>
<small>Show Edit links</small>	<input checked="" type="checkbox"/>
<small>Use the prompt from the attribute</small>	<input type="checkbox"/>

Template set

Add shared templates or create an inline template definition

Action	identifabel	inline/shared	Template	Implementation Type
<input checked="" type="checkbox"/> <small>copy share</small>	main	inline	Edit template in separate tab	FREEMARKER

<p><small>Database information</small></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td><small>Guid</small></td><td>0769261AA48FC6A3E05000A18000D3C</td></tr> <tr><td><small>Id</small></td><td>113950</td></tr> <tr><td><small>Created</small></td><td>09.11.2014 08:39 by ORCLADMIN</td></tr> <tr><td><small>Updated</small></td><td>23.04.2015 11:32 by ORCLADMIN</td></tr> <tr><td><small>Master table</small></td><td>PORTLET_STYLE_SET (Presentation styles)</td></tr> <tr><td><small>Detail tables</small></td><td>PORTLET_STYLE_SET_ITEM,PORTLET_STYLE_SET_ORDER</td></tr> </table>	<small>Guid</small>	0769261AA48FC6A3E05000A18000D3C	<small>Id</small>	113950	<small>Created</small>	09.11.2014 08:39 by ORCLADMIN	<small>Updated</small>	23.04.2015 11:32 by ORCLADMIN	<small>Master table</small>	PORTLET_STYLE_SET (Presentation styles)	<small>Detail tables</small>	PORTLET_STYLE_SET_ITEM,PORTLET_STYLE_SET_ORDER	<p><small>Patch sets</small></p> <p><small> <input type="button" value="Add to patch set"/> </small></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Action</th> <th style="text-align: left;">Id</th> <th style="text-align: left;">Name</th> <th style="text-align: left;">Last built</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table>	Action	Id	Name	Last built	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>Guid</small>	0769261AA48FC6A3E05000A18000D3C																				
<small>Id</small>	113950																				
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<small>Master table</small>	PORTLET_STYLE_SET (Presentation styles)																				
<small>Detail tables</small>	PORTLET_STYLE_SET_ITEM,PORTLET_STYLE_SET_ORDER																				
Action	Id	Name	Last built																		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		

Property	Description
Subsystem	Select the appropriate subsystem.
Selected layout	Displays the type of presentation style.
Name	Type a name for the presentation style.
Language	<p>Select the appropriate language for the form.</p> <p>If you do not select a language, it is automatically set according to: a) the user language, b) the browser language, c) the domain language in the given order.</p>
Datasource	<p>Select the appropriate data source for this presentation style. For SOLR the value is always set to <iKnowBase - Documents>.</p> <p>The following data sources are available:</p> <ul style="list-style-type: none"> <iKnowBase - Documents>: Regular iKnowBase documents. <iKnowBase - Versioned documents>: Versioned iKnowBase documents (current + old versions) <Workflow task>: Tasks from the process engine. With this data source selected, only the task viewer portlet can use this presentation style. <p>In addition to these data sources you will also have access to select all defined external data sources.</p>
Show Add links	<p>Specify whether to generate links to add new documents or not.</p> <p>Note</p> <p>You need to specify which links to generate in the viewer or search source configuration (on the quick links tab on the Edit pane), and select the <Add links> attribute for this presentation style.</p>
Show Edit links	Specify whether to generate icons to modify and delete documents or not.

Property	Description
	<p>Note</p> <p>You also need to select the appropriate attributes, such as <Edit> and <Delete>, for the presentation style.</p>
Use the prompt from the attribute	Select the check box to retrieve the labels from the attribute definition.
Template set	Please see the Template Set section for more information.
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

Attributes Tab

On the Attributes tab you can select the attributes or special functions to be used in the presentation style. Make sure to select only the attributes needed.



Property	Description
Attributes	Select among all regular attributes defined. Some of the attributes available from iKnowBase content store data sources are in fact special functions.
Special functions	<p>Select among all special functions defined.</p> <ul style="list-style-type: none"> <Title link> This attribute is used to displays the title field. You can specify how you want to view the attributes on the Advanced tab. You can select this attribute several times. <Links> This attribute is used to create links for an attribute. To define a link, you must specify a target page and the attribute that you want to send as a value.

Property	Description
	<ul style="list-style-type: none"> • <Add subdocument> This attribute is used to create a link to a form. The document that is created from the form opened from this link becomes a subdocument. • <Stored function> This attribute is used to call a database function. You can use this attribute when information is not directly available in the extracted document, but needs to be retrieved from the database. For example, display the author's department where the department is not a part of the extracted document. For configuration see the Advanced tab. • <Image Property> Will try to extract from the image itself this property. • <Transformations> This attribute displays a link that will perform the configured transformation, see the Advanced tab. • <Edit> This attribute creates a link to form, which may be used to edit the document. Note: Ensure that the Show Edit links property is set. To display the links, the user must have access to update the document. • <Edit document using WebDAV> Will open the file using WebDav (require WebDav of course). To display the link, the user must have access to update the document, and the format must be activated for WebDav. • <Change document type> This attribute generates an icon or link that opens a dialog box to select a new document type. Note: You must configure this attribute in the Advanced tab with a quick link that displays the forms for the document types that can be selected. For these forms you must ensure that the Save document type on update property is selected. • <Check in/out> This attribute generates an icon or link to use the check-in and check-out (CICO) functionality. Note: You must activate CICO for the appropriate document types. The links will only be displayed for information objects of these types. An information object with activated CICO will not be available for edit until the user checks it out. It will not be available for checkout if already checked out by another user. • <Delete> This attribute creates a link that opens a dialog box to delete the document. Note: Ensure that the Show Edit links property is set. To display the link, the user must have access to delete the document. <p>You can reorder the attribute list by using drag and drop for each line (click the leftmost icon).</p> <p>You can deselect attributes by clicking on the delete icon and save the data.</p>

Order conditions

Select the attributes to be used to order the result set. A order condition can either be a regular attribute or a database function. If the viewer extracts tree structures you can also define the sort order of the siblings.

edit attributes **order conditions** style advanced template icons text elements usage

presentation style: xnext: documentlist (title, process, created, issuestatus) with box Save (s) Save and close (x) Cancel

define how you want to sort the data initially, it will sort in the order you add the attributes

Attributes Special functions

selected attributes	direction	case sensitive?	nulls first?	attribute
<input checked="" type="checkbox"/> Oppgavesstatus	Descending	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Descending	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Annen kompetanse	Descending	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Ansattstilling	Descending	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Ansvarlig	Descending	<input type="checkbox"/>	<input type="checkbox"/>	

order siblings if the viewer display document structures (with connect by)

Attributes

selected attributes	direction	case sensitive?	nulls first?

Property	Description
Attributes	Select among the attributes in the list.
Spesial functions	Select among the database functions in the list.
Sort order	You can reorder the conditions by drag-and-drop up or down.
Direction	Decide the sort direction, either Descending or Ascending.
Case Sensitive	Set to Checked if you want to do case sensitive search (e.g. A and a is ordered differently).
Nulls first	Set to Checked if you want to sort null values first (default is last).
Attribute	Select an attribute if its needed by the database function.
Siblings	Only applicable if the viewer returns tree structured data and are used to order the siblings.

Icon Tab

edit attributes order conditions style advanced **icons** text elements usage main

Presentation style: /SYSTEST/PresentationStyle/RELATEDFILE Save (s) Save and close (x) Cancel

icons

Enter your own settings for icons used to sort. The defaults is shown behind the prompt. The icons is used if sorting is selected (only in tabular views)

New icon for sorting (ascending) =

New icon for selected sorting (ascending) =

or

New icon for sorting (descending) =

New icon for selected sorting (descending) =

Icon - Checked out document

Icon - Checked out by others

Icon - Checked out by me

Item icons

Define icons used by the selected attributes

	Image	Height	Width
7: FILE PDF	<input type="text"/>	<input type="text"/>	<input type="text"/>
8: FILE Text	<input type="text"/>	<input type="text"/>	<input type="text"/>
9: FILE HTML	<input type="text"/>	<input type="text"/>	<input type="text"/>
10: FILE Text (replace)	<input type="text"/>	<input type="text"/>	<input type="text"/>
11: FILE HTML (replace)	<input type="text"/>	<input type="text"/>	<input type="text"/>
12: edit	/ressurs/evta/IKB/Desktop/images/commonmed-item.gif	<input type="text"/>	<input type="text"/>

Property	Description
New icon for sorting (ascending)	Enter the path of the icon for an unselected ascending sort, for example / resource/icons/sortxx.png.
New icon for selected sorting (ascending)	Enter the path of the icon for a selected (active) ascending sort, for example / resource/icons/sortxx.png.

Property	Description
New icon for sorting (descending)	Enter the path of the icon for an unselected descending sort, for example / resource/icons/sortxx.png.
New icon for selected sorting (descending)	Enter the path of the icon for a selected (active) descending sort, for example / resource/icons/sortxx.png.
Icon - Check out documents	Enter the path of the icon for the "check out documents" command. You can click the icon and check out a document.
Icon - Checked in by others	Enter the path of the icon to display this status. A ToolTip displays the name of the user who checks in a document and the time of check-in.
Icon - Checked in by me	Enter the path of the icon to display this status. You can click the icon and check in a document.
Image	<p>Type the path to the image. This will override the label, but the label will be used as tooltip for the link.</p> <p>You can define default values in installation properties for edit- and delete operations. Set the instance qualifier to * and the property names needs this syntax:</p> <ul style="list-style-type: none"> Edit : classic.style.default.icon.edit Edit WebDav: classic.style.default.icon.webdav Change document type: classic.style.default.icon.change.documenttype Delete : classic.style.default.icon.delete
Height	Type the height of the image in pixels.
Width	Type the width of the image in pixels.

Style Tab

Attribute	Reference name	Label
1: Person	ikbPerson	Person
2: Mobiltelefon	ikbMobilePhone	Mobiltelefon
3: Telefon	ikbPhone	Telefon
4: E-post	ikbEmail	E-post
5: Fagansvar	ikbSubjectAreaResponsible	Fagansvar
6: Prosessansvar	ikbProcessAreaResponsible	Prosessansvar
7: Min status	myStatus	My status
8: <Link>	linkPerson	
9: <Link>	linkProcess	
10: <Link>	linkSubject	
11: <Stored function>	stEmail	

Property	Description
Attribute	Displays the list of selected attributes.

Property	Description
Reference name	Type the reference name of the attribute. If you want to identify the attribute in the template, you must provide a reference name. This reference name must be unique.
Label	Type the label that you want to display for the specific attributes. <div style="border: 1px solid black; padding: 5px;"> <p>Note</p> <p>It is recommended to use text elements rather than the Label property. This property doesn't have language support.</p> </div>

Advanced Tab

The screenshot shows the 'Advanced' tab in the iKnowBase configuration tool. It includes sections for 'Title elements', 'Regular items', 'Links', and 'Transformations'. The 'Title elements' section has a table with columns for 'Show title', 'Restrict format', 'Link type', 'Link to', and 'Tooltip'. The 'Regular items' section lists 27 attributes with their respective database functions and link types. The 'Links' section defines links between attributes like 'Kjernekompetanse' and 'Interesseområde'. The 'Transformations' section shows a transformation for 'Bilde Person' using 'Image scale Thumbnail (65x65)'. The 'Text/Image' section shows quick links for 'Edit document' and 'Edit'.

Property	Description
Title elements	
Show title	Select this check box to display the document title itself. Rather than displaying the document title, you can display a label or image for the title attribute. For this, you must define the label or image in the Label property on the Style tab.
Restrict format	Select the appropriate format restriction. <ul style="list-style-type: none"> All types: The title will be displayed for documents with all content formats. Text: The title will be displayed only for documents with text content.

Property	Description
	<ul style="list-style-type: none"> • File: The title will be displayed only for documents with file content. • Links: The title will be displayed only for documents with link content. • File/link: The title will be displayed for documents with file and link content.
Link type	<p>Select the appropriate link type.</p> <ul style="list-style-type: none"> • Link: A link is always be generated for the title attribute. • Link only if content: A link will be generated for the title attribute if the document has content (file, URL, or text content) • No Link: No link will be generated for the title attribute.
Link to	<p>Select the appropriate option to display the document when the user clicks on the title link.</p> <ul style="list-style-type: none"> • Content: The document is displayed on the target destination in case of text-based content. Otherwise, the URL or file is opened in a new browser window. • Target: The document is displayed on the target destination.
Tooltip	<p>Select the appropriate tooltip function.</p> <p>You can use the tooltip to preview an image or display the details of a document.</p> <p>New tooltip functions may be implemented as PL/SQL functions. Have a look at IKB_TOOLTIP.SHOW_ADVANCED_TOOLTIP_INGRESS as an example implementation. Register the new functions in the database table IKB_TOOLTIP_FUNCTION to make them available in the dropdown box.</p>
Regular items	
Show/Hide	Select whether you want to display or hide the attribute.
Database function	<p>By default, iKnowBase applies a default format to the item being displayed. If you want to customize this output, create a database function and use that for column formatting. Normally, you will not need to use a function.</p> <p>For more information on properties of database function, see Properties.</p>
Links	
Link to	Select the attribute value to pass as parameter.
Text source	Select the text to be displayed on the link. Available options are the label for the <link> attribute or one of the attributes selected for the presentation style.
Target	Select the target to use for the link.
Transformations	

Property	Description
Source	Select the source attribute for the transformation. Choose among all file attributes and image/document link attributes
Transformation type	Select the a predefined transformation type. If not given, you need to apply a transformation instruction.
Transformation instruction	Enter the transformation instruction yourself.
Stored function	
Show/hide	Select whether to display or hide the title attribute.
Package/function	Select the database function.
Attribute	Select the attribute to pass as parameter to the database function. Use the option <code><Simple function></code> , if the database function takes no parameters. Otherwise select the appropriate attribute. Note If the function is not a simple function, it must have the signature described in <code><Database Functions></code> (Pres.Style:Database Function).
Text/image	
Select quick link	Select the appropriate quick link to use for this link/icon. Applicable to <code><Add subdocument></code> and <code><Change document type></code> .

Template Tab (only available for template based style)

iKnowBase enables you to design and create the template-based presentation style layout using your own FreeMarker template. See the FreeMarker reference chapters for information about iKnowBase-specific model objects available for use in the FreeMarker template.

Note

If you update the selected attributes in the presentation style, you must also update the FreeMarker template to reflect the changes. You can generate a new template or manually update the template.

There are two action buttons available:

- **Create new template:** Click this button to generate a default template, with placeholders for the attributes in the presentation style. You may then change this template as needed.
- **Update:** Click this button to update your template with new attributes. iKnowBase will scan the existing template, and find attributes that are missing. Then, it will generate default template code for these attributes, and add to the bottom of the template. Move this code around as required.

edit attributes order conditions style advanced **template** icons text elements usage help

Presentation style: xNext: Personal profile Save (s) Save and close (X) Cancel

Template

```

Fullscreen (F11) text html groovy
1 <!-- INCLUDE GOOGLEMAP LINK WITH DOMAIN KEY TO ENABLE GOOGLEMAPS -->
2 <!--script src="http://maps.google.com/maps?file=api&v=2&key=ABQI3AAA9a1rX8o1a0-e1J3EKXtRBTp_AkQ-FuUfQX7p1-RmuFJEpcRTGLP0d8ap3FE4ka-z0vQw6X2yfg" type="text/javascript"></script-->
3
4 <div id="xmProfileEdit">
5 <list viewer.data as row>
6 {${row.fields.editLink.text?replace("Edit",viewer.strings.setting)}}
7 </div>
8
9 <div id="xmProfileFacts" align="center">
10 <#assign showMap=false/>
11
12 <#if row.fields.address?? && row.fields.address?has_content &&
13 row.fields.postalcode?? && row.fields.postalcode?has_content &&
14 row.fields.place?? && row.fields.place?has_content &&
15 row.fields.country?? && row.fields.country?has_content>
16 <#assign showMap=true/>
17 </#if>
18
19
20 <!-- REMOVE THE LINE UNDER TO ENABLE GOOGLEMAPS -->
21 <#assign showMap=false/>
22
23 {${row.fields.kbImage.text}}
24 <table summary="Personal profile" >
25 </table>

```

Create a new template Update

Available attributes

- 794 1: ikbImage (Image)
- 11 2: title
- 4721 3: ikbEmployeeDate
- 4734 4: ikbBirthDate (Date)
- 4736 5: ikbMobilePhone (String)
- 4793 6: ikbPhone (String)
- 4790 7: ikbEmail (String)
- 4731 8: ikbOrganization (Dimension)
- 5 9: edit
- 15125 10: address (String)
- 15126 11: postalcode (String)
- 15127 12: place (String)
- 15128 13: country (String)
- 646 14: ikbIngress (Clob)
- 4735 15: ikbInterestArea (Dimension)
- 4726 16: ikbSubjectArea (Dimension)
- 645 17: ikbDocumentId (Object)
- 11 18: statusForm
- 15723 19: favoriteBooks (String)
- 15724 20: favoriteMovies (String)
- 15722 21: favoriteMusic (String)
- 15766 22: tripAdvisor (Clob)
- 4737 23: ikbProcess (Dimension)
- 5 24: editLink
- 25:
- 16786 ikbAnnenKjernekompetanse (String)
- 7640 26: ikbCustomer (Dimension)
- 15707 27: ikbSubjectAreaC (Dimension)
- 3 28: linkCoreCompetence
- 3 29: linkInterestArea
- 3 30: linkCustomer
- 3 31: linkProcess
- 3 32: linkOrganization

Template	Type the FreeMarker template code.
Available attributes	A list of available attributes and their IDs available for use in the HTML template code.

Text elements tab

The properties on this tab enable you to define texts to be used in the component. The texts are available as FreeMarker model objects. Multiple languages are supported.

edit attributes order conditions style advanced **template** icons **text elements** usage help

Presentation style: xNext: Personal profile Save (s) Save and close (X) Cancel

Enter text labels you want to use in the template. All labels are translatable

id	Text
<input checked="" type="checkbox"/> name	Navn n
<input checked="" type="checkbox"/> edit	Rediger n
<input checked="" type="checkbox"/> link	Legg til lenke n
<input checked="" type="checkbox"/> postit	Legg til gul lapp n
<input checked="" type="checkbox"/> subject	faglige interesseområder og kompetanse n
<input checked="" type="checkbox"/> place	Sted n
<input checked="" type="checkbox"/> personal	personlige interesseområder og informasjon n
<input checked="" type="checkbox"/> interest	Interesseområde n
<input checked="" type="checkbox"/> competence	Kjernekompetanse n
<input checked="" type="checkbox"/> status	Status n
<input checked="" type="checkbox"/> books	Favorittbøker n
<input checked="" type="checkbox"/> music	Favorittmusikk n
<input checked="" type="checkbox"/> movies	Favorittfilmer n
<input checked="" type="checkbox"/> tips	Steder jeg har vært n
<input checked="" type="checkbox"/> process	Prosessfremføring n
<input checked="" type="checkbox"/> setting	Rediger min profil n
<input checked="" type="checkbox"/> otherCompetence	Annen kjernekompetanse n
<input checked="" type="checkbox"/> customer	Kunde n

Property	Description
Id	Type an identifier for the label.
Text	Type the text labels that you want to use in the template. If multiple languages are supported in the solution, clicking on the text box will display one text box per language, for easy editing.

25.2 FreeForm presentation style properties

The free form presentation style is only available for backward compatibility purposes; this document therefore does not fully describe this feature.

The FreeForm presentation style does not apply any of its own HTML formatting on the content. Instead, you need to use the property `<Text/image>` to enter the HTML formatting you want. At runtime, the viewer will output the formatting specified on the Style tab for each document in the source content.

26. Preview Pages

Preview pages are a mechanism you can use to enable document preview, typically during a publishing process.

To accomplish a preview feature in your iKnowBase application, perform the following:

1. Declare one or more preview page components for a given document type. Specify all appropriate targets for documents with the given document type and images representing those targets.
2. Use a Preview portlet to render all the available preview pages for a document with a given document type.

26.1 Properties

This section describes the properties of a preview page, as shown on the corresponding Edit pane.

The screenshot shows the 'Edit' pane for a preview page. The title is 'maintain "information" of type "preview pages"'. The page contains a table for defining targets (pages) for a selected information type. The table has columns for actions, target, image, and subsystem. Three targets are listed: 'IKB xNet Main Page', 'IKB xNet Resources - News Archive', and 'Sample: www.evita.no - Hovedside'. Below the table is a 'database information' section with fields for guid, id, created, and updated.

actions	target	image	subsystem
x	IKB xNet Main Page	/ressurs/evita/ikb_xnet/images/preview/xnet_main_thumb.gif	
x	IKB xNet Resources - News Archive	/ressurs/evita/ikb_xnet/images/preview/xnet_main_thumb.gif	ikB Content Studio
x	Sample: www.evita.no - Hovedside	/ressurs/evita/ikBDesktop/images/common/preview1.gif	

database information

guid	650D200EB2B048CD86B837F5A0688373
id	7643
created	14.11.2011 15:21 by ORCLADMIN
updated	14.11.2011 15:21 by ORCLADMIN

Property	Description
Document type	Select the document type that you want to map preview pages for. Note This property is not available for update after initial save of the preview page.
Target	Select a target that can be used for preview.
Image	Type the path of the image which illustrates the target page on the preview page. This image will be a link to the specified target. The image must be placed under the resource directory.
Subsystem	Select the appropriate subsystem.

27. Quick Links

iKnowBase enables you to create quick links for one-click publishing in iKnowBase. A quick link is associated with a form or a task wizard, and a target where the form or task wizard is displayed. You can specify parameters for the quick link to pass contextual values in order to populate attributes of the form or task wizard.

You can use quick links from four other iKnowBase components:

- Viewer
- Search source
- Presentation style
- Menu

A quick link may point to either one or more forms:

- If the quick link points to a single form, using the quick link opens that form directly.
- If the quick link points to more than one form, using the quick link opens a dialog page and asks the user which form to use.

27.1 Properties

This section describes the properties of a quick link, as shown on the corresponding **Edit** pane tabs.

Edit Tab

The screenshot shows the 'Edit' tab for a quick link in iKnowBase. The main area is titled 'maintain "cs publish image link" of type "quick links"'. It contains several input fields: 'subsystem' (dropdown menu), 'title' (text input), 'description' (text input), and 'target' (dropdown menu). Below these fields are two buttons: 'Add Forms' and 'Add Tasks'. A table lists existing quick links with columns for 'type', 'forms/task wizard', 'title', and 'target from form'. The table contains one entry: 'FORM CS Image' with 'Form wizard' in the title field and a checkbox in the target from form field. At the bottom, there is a 'database information' section with fields for 'guid', 'id', 'created', and 'updated'.

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for this quick link.
Description	Type a description for this quick link.

Property	Description
External key	Alternative key to the quick link. The value has to be unique.
Target	Select the target page in which to display the form.
Add form	Click the link to add new forms. You can reorder the list of forms/task wizards by using drag and drop.
Add task	Click the link to add new task wizard
Type	Displays the type; either form or task wizard.
Form/Task wizard	Displays the names of the available forms and task wizards.
Title	Type the title use to select this form. Applicable if the quick link contains multiple forms and task wizards and hence needs a title in the dialog window.
Target from form	Select this check box to override the Target property of the quick link with the target specified for the form or task wizard.

Parameters Tab

You can add parameters to the quick link, passing contextual values to the selected form or task wizard and hence the new document that you will create.

You can use three types of parameters with quick links:

- **iKnowBase:** Parameters defined as iKnowBase parameters, both iKnowBase and SQL, and parameters defined for iKnowBase external data sources.
- **Function:** Parameters defined as database functions. A value returned from the given database function is passed on to the form or task wizard.
- **Constant:** Parameters defined with a constant value.

Property	Description
Description	Displays the types of the parameters associated with this quick link.

Property	Description
	<p>You can use two types of parameters associated with quick links: iKnowBase parameters and functions. See the introduction to this chapter for a description of the parameter types.</p> <p>To add a new parameter, click on the new parameters icon for the appropriate parameter type.</p> <p>To remove a parameter, click on the respective remove icon.</p>
Parameter in form	Select the target parameter you want to assign value to. The list of selectable parameters is the union of all declared url parameters in all selected forms for this quick link.
Value	<p>For iKnowBase parameter: Select the parameter whose value you want to pass on to the form or task wizard.</p> <p>For Function parameter: Select the PL/SQL database function that will generate the parameter value.</p> <p>For Constant parameter: Type the constant value.</p>

28. RSS feed

Use the RSS feed component to define RSS-feeds that are available from the iKnowBase application to the outside world.

To configure an RSS feed you must create a search source which defines which documents to include in the feed, and a target to be used to display the entries of the RSS feed.

RSS feed supports RSS 2.0 and RSS 0.91. The standard format of the RSS feed is RSS 2.0. By adding the parameter `p_version = 91` to the URL to the feed, RSS 0.91 will be generated.

If the RSS feed component is set up correctly, you will see the link to the feed in the link to RSS feed region on the Edit pane. You can test the RSS feed by copy the URL to the feed into a preferred RSS reader.

By default the feed is limited to ten articles. You can change this number by using the parameter `maxrows`.

28.1 Properties

This section describes the properties of an RSS feed, as shown on the corresponding Edit pane.

iKnowBase®

User: ORCLADMIN (us)
 Database: IKNOWBASE@ORCL@prosjekt10
[About - ikb\\$console - Mode=deployment](#)

user directory
development tools
metadata management

edit
usage

Apply OK Cancel

maintain "sample: rss feed" of type "rss feeds"

configuration of rss feeds in the portal

subsystem	<input type="text" value="iKB Demo application"/>
* title	<input type="text" value="Sample: RSS feed"/>
target	<input type="text" value="xNext: Show content"/> +
* search source	<input type="text" value="Sample: RSS search"/> +
* sort field	<input type="text" value="Author"/>

rss feed properties

Properties below describes the RSS feed

link (url)	<input type="text" value="http://www.lo.no"/>
description	<input type="text" value="Dette er en feed for LO"/>
copyright info	<input type="text" value="Copyright Meg"/>

picture for feed

Define the picture that describes the RSS feed - mandatory information

title	<input type="text" value="Tittel på bilde"/>
description	<input type="text" value="Beskrivelse på bilde"/>
path to picture (http://...)	<input type="text" value="http://www.lo.no/ressurs/img/bilde.gif"/>
link beside picture	<input type="text" value="http://www.lorgnett.no"/>
width	<input type="text" value="50"/>
height	<input type="text" value="50"/>

link to rss feed

Below you will find a link to the RSS feed if all mandatory items are entered, copy this link and paste it into a RSS reader, you can also change the value on maxrows (or p_antall) to the number of articles extracted. You can also add &p_version=91 to use RSS 0.91. The default is RSS 2.0

/ikbStudio/pls/rss_feed.rss?p_feed_id=7667&maxrows=10

database information

guid	92781C947F134B8686FCC928BC7994BD
id	7667
created	06.02.2006 13:10 by ORCLADMIN
updated	02.02.2010 12:27 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type unique title of the feed. This will display as the name of the feedn in an RSS reader.
Target	Select the target to be used as the URL for individual entries in the RSS-feed, and where the user will be directed if he clicks the entries in the feed.
Search source	The search source which extracts the data (documents) that will be shown by the feed.
Sort field	Enter the sort order. Determines the order in which documents are listed. Valid values are date (newest first), title (ascending) and author (ascending).

Property	Description
Link	Type an URL which will be added to the RSS-feed output.
Description	Type a description which will be added to the RSS-feed output.
Copyright info	Type the copyright information which will be added to the RSS-feed output.
Title	Type a title for the image section which will be added to the RSS-feed output.
Description	Type a description for image which will be added tot the RSS-feed output.
Path to picture	Type a fully qualified path to an image, including the starting protocol specification (http://...), which will be added to the RSS-feed output.
Link beside picture	Type an URL which will be added as a link in the image section in the RSS-feed output.
Width	Type the width of the image.
Height	Type the height of the image.
Link to RSS feed	Displays the link to the RSS feed, when it is correctly configured.

29. Schedule

The Oracle database contains a feature that enables you to schedule PL/SQL jobs (procedures) for execution at given times and at given intervals. While this feature is very powerful, it is also fairly complex to use. Therefore, iKnowBase Development Studio contains a web user interface to configure such jobs.

29.1 Properties

This section describes the properties of a schedule, as shown on the corresponding Edit pane.

The screenshot shows the 'edit' pane for a job schedule. The title is 'Schedule: iKB: Cleanup the session data in iKnowBase'. The interface includes a 'Define job schedule and code to be executed at runtime.' section with the following fields:

- Subsystem: iKB Desktop
- Title: iKB: Cleanup the session data in iKnowBase
- Comments: Cleanup the session data in iKnowBase
- Start date: 16.06.2006 20:00
- Job status: DISABLED
- Enabled: FALSE
- Last start date: 04.07.2010 20:00
- Next run date: 26.11.2015 20:00
- Last run duration (in sec): 550324
- Failure count: 0
- Interval: FREQ=DAILY
- PL/SQL code to be executed: BEGIN ikb_common_procs.cleanup_session;END;

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a title for the job schedule.
Comments	Type a description for the job schedule.
Start date	Enter the first date and time that the schedule should run. Format: DD.MM.YYYY hh24.mi.
Job status	Displays the current job status. E.g. DISABLED, ENABLED, RUNNING
Enabled	Displays if the job is enabled or disabled.
Last start date	Displays the date and time when the schedule was last run.
Next run date	Displays the next run date and time for the schedule.
Last run duration (in sec)	Displays the number of seconds the batch job used last time it ran.
Failure count	Displays the number of times the batch job failed has failed.
Interval	Type the frequency of the job schedule, using the Oracle Database syntax. Examples: <pre>SYSDATE +1 FREQ=DAILY FREQ=WEEKLY</pre>

Property	Description
PL/SQL code to be executed	Enter PL/SQL-code to execute as per the specified interval.
Action available	Select action <ul style="list-style-type: none"><li data-bbox="443 421 863 450">• Disable - The job will be disabled<li data-bbox="443 483 852 512">• Enable - The job will be enabled<li data-bbox="443 546 1353 607">• Run immediate - The job will be executed immediate. It will not change the settings of the scheduled job

You can enable or disable for all jobs (in the lists of all jobs).

30. Search Sources

A search source is the definition of a set of searchable documents, including both a form for entering the search criteria and a definition of the result output.

Search sources can apply to both regular iKnowBase documents and external data sources.

To accomplish a search feature in your iKnowBase application, perform the following:

1. Create a presentation style to be used for the search result, if you don't already have an appropriate presentation style which can be reused.
2. Create a search source component associated with the previously created presentation style.
3. Use a Search source portlet to display the configured search source.

You can use the Build search dialog portlet together with one or more configured search sources. The Build search dialog portlet will display a search dialog to the user where he can perform a free text search using one of the associated search sources.

The Search Source is a specialized form of a Viewer, with the addition of the input search form.

30.1 Properties

This section describes the properties of a search source, as shown on the corresponding Edit pane tabs.

Edit Tab

Property	Description
Subsystem	Select the appropriate subsystem.
Name	Type a name for this viewer.
Display title	Type a title for this viewer. This may be presented to the end-user by a Presentation Style. The title supports multiple languages.

Property	Description
External key	Type the appropriate external key.
SQL Hint	<p>For advanced users only, type the appropriate SQL hint. The syntax is the name of the hint, like FIRST_ROWS.</p> <p>The hint will be inserted into the SQL-query; using the appropriate hint may help speed up query execution.</p>
Custom access control	<p>Type the name of the appropriate database procedure to use a special access control, if you want to extend the default access control.</p> <p>Warning</p> <p>You should use this sparingly and carefully. The default security model is being overridden, and errors in this custom code may create SQL-injection vulnerabilities.</p> <p>The following signature must be used for the database procedure:</p> <pre>PROCEDURE <package>.<procedure name> (site_id in number, user_id in number, reference_path in varchar2, result out);</pre> <p>The returned result must be an SQL fragment which fits into the SQL WHERE clause generated by the Viewer. For example, the function could return</p> <pre>or oil.owner_id = 125</pre> <p>and the query would then be</p> <pre>... and (oil.owner_id = <userid> or ((oil.acl_guid is null or oil.owner_id = 125 or oil.acl_guid in (select v_acl.acl_guid from v_acl) ... </pre>
Presentation style	Select the Presentation style you want to use to format the output.
Override styleset	Select the Styleset you want to apply. If set, this will override the styleset defined on the Presentation style.
Target for text	Select the target page to use for link to documents with text content.
Target for links	Select the target page to use for link to documents with file or url content.
Callback function	<p>A function used as callback from Forms when adding new documents or editing existing documents initiated from the viewer.</p> <p>You can use this property to avoid page redirect upon save from form. The parameter passed to the callback function is a json object with the properties action and documentId. The callback function could for example reload the search source.</p>

Property	Description
JS script before search	<p>Defines a custom javascript function. It will execute before the search is posted to the server and can be used e.g. to validate input criterias. If the function returns false, the search will not be executed.</p> <pre data-bbox="456 389 1378 770"> ... <script type="text/javascript"> function myValidator() { var lval = \$("#p_value_122").val(); if (lval == "money") { alert("Do not search for money"); return false; } return true; } </script> ... </pre>
Target to show_more page?	<p>Select the target page to use for the "show more" link. Please note that the target definition should have a parameter named p_search_id as Parameter1.</p>
Search source on the show_more page	<p>To reuse a single target page for multiple "show more" pages, select the search source you want to display on the target page.</p>
# records	<p>Type the number of rows that you want to extract at a time. The default value is 10.</p>
Start from record	<p>Type the row number from which you want to display the result set. The default value is 1.</p>
Max records	<p>Type the maximum number of documents that you want to extract. The default value is 100.</p>
Cache interval (0 is none)	<p>Type the time in minutes for which you want to keep content in the cache.</p>
Show total number of rows	<p>Select this check box to display the total number rows on the status line.</p>
Override homeplace mapping	<p>Select this check box to use the targets defined on this Viewer rather than the target selector mechanism.</p>
Use "Target for text" for all content types	<p>Select this check box to use the target defined in the Target for text property for all links to documents, disregarding the content type.</p>
Save dynamic variable	<p>Select this check box to use a session save on all the dynamic parameters. If these values are not in the URL, this property allows iKnowBase to use the saved values. e.g. sortinfo.</p> <p>If you do not save the session variables, no content appears when you enter the page without the necessary dynamic parameters specified on the portlet.</p>

Property	Description
Print header also with no hits	Select this check box to display the title of the portlet if the search finds no documents.
Show quicklink inside header	Select this check box to display the quick links within the header section of the viewer.
Always print quicklinks	Select this check box to display the quick links even it mandatory attributes are not set.
Print portlet decoration	Select this check box to print the portlet decoration that surrounds the content in a portlet.
Log read operation	Uncheck if you want to avoid logging to the document statistic table. By default it will insert one row everytime a document with HTML-content is displayed.
Create cacheable URLs?	If set, all URLs to files will has a cache instruction set in the URL. e.g. / cache=timestamp
HTML Filter generator	Select this check box to build the search form using the HTML-based generator. You must enter the appropriate HTML code on the HTML form tab. If you don't select this check box, the limited, rule based generator is used.
Save search criteria	Select this check box to save the search statistics of a user. When you select this check box, the search statistics of the user are logged in the LOG_SEARCH_VALUES table.
Available as select list	Select this check box to use the search source as a list for selection of documents or dimension values. This list may be connected to a form as a new selector of values.
Dynamic attribute selector	Select this check box to allow a user to manually add attributes to the search criteria. When this is checked, iKnowBase will display a drop down list of all searchable attributes in the search form; selecting one will add that attribute to the search form.

Attributes Tab

You can choose between four types of parameters:

- **Dynamic parameter:** Parameters defined as iKnowBase parameters.
- **SQL parameter:** Parameters defined as SQL parameters.
- **Attribute:** iKnowBase attributes, used to set constant values in the query.
- **External:** Parameters defined for iKnowBase external data sources. Only available if the data source is an external datasource.

When the parameter is selected, you must save before you can set any values.

Property	Description
Actions	Delete the parameter by clicking the icon.
Attribute	Displays the names of the selected attributes to use as conditions for the Search source.
Disabled?	You can for debugging reasons disable attributes.
Sql Clause	Used for performance reasons for advanced users. Will generate a SQL with either IN or EXISTS.
Condition	Select the appropriate conditions for the selected attributes. The conditions depend on the type of attribute. Note: You cannot select a condition for parameters.
Value	Select or enter the appropriate values for the selected attributes. Available options depends on the attribute/parameter type. Applicable to SQL parameters only when the parameter is defined with an attribute.

Traverse Tab

The properties on the Traverse tab enable you to define a Search source with traverse features, e.g. possibilities to display subdocuments or versions of the extracted documents. Examples are discussion forums and view all versions of a document.

When running the query will automatically add a condition for selecting subdocuments for the current document.



User: ORCLADMIN (us)
 Database: IKNOWBASE@ORCL@projekt10
[About - ikb\\$console - Mode=deployment](#)

user directory
development tools
metadata management

edit
traverse
quick links
filter
style
html form
usage

maintain "ava search" of type "search sources"

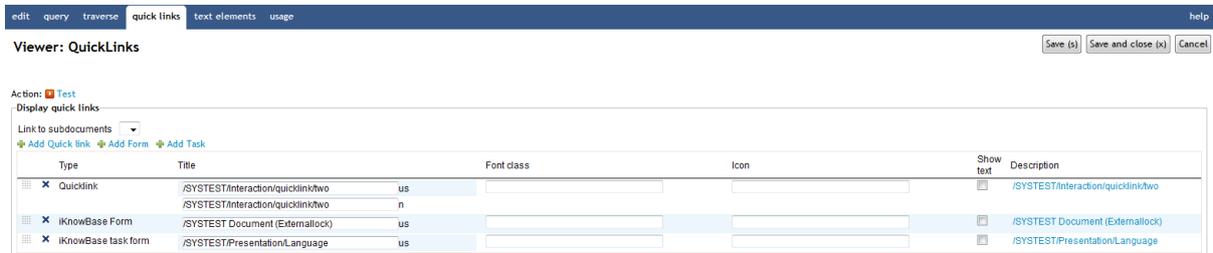
traverse document structure

select method No traversal

Property	Description
Select method	<p>Choose how you want to traverse the document structure. You can choose between :</p> <p>No traversal: will not retrieve any subdocuments</p> <p>Traverse down by using a connect-by clause: will fetch all subdocuments for every documents retrieved. It will use the same presentation style as defined on the main viewer definition. When selected, you can enter the number of levels you want to traverse.</p> <p>Traverse up by using a connect-by clause: will fetch all documents above for every documents retrieved. It will use the same presentation style as defined on the main viewer definition. Suitable for viewers showing only one document where you want to see the top levels. When selected, you can enter the number of levels you want to traverse.</p> <p>Traverse by using search sources: For each document it will run a new viewer. This is not as efficient (performance) as the above methods, but gives you the flexibility of defining separate conditions and presentation style for each level.</p>
Level	Type the level for the extraction source. Level 1 specifies first level, but you may specify extraction sources that traverse further on level 2 documents, etc.
Select source	Select the appropriate Search source as the base for the extraction of subdocuments. You can vary the style and layout on different levels.
Expand Collapse	To enable the expand/collapse functionality for the subdocuments, click Yes. To display the subdocuments directly, click No.
Icon Expand	Enter the reference to the icon to be used to expand the list of subdocuments. Note: You must click Yes in the Expand Collapse list.
Icon Collapse	Enter the reference to the icon to be used to collapse the list of subdocuments. Note: You must click Yes in the Expand Collapse list.

Quick links Tab

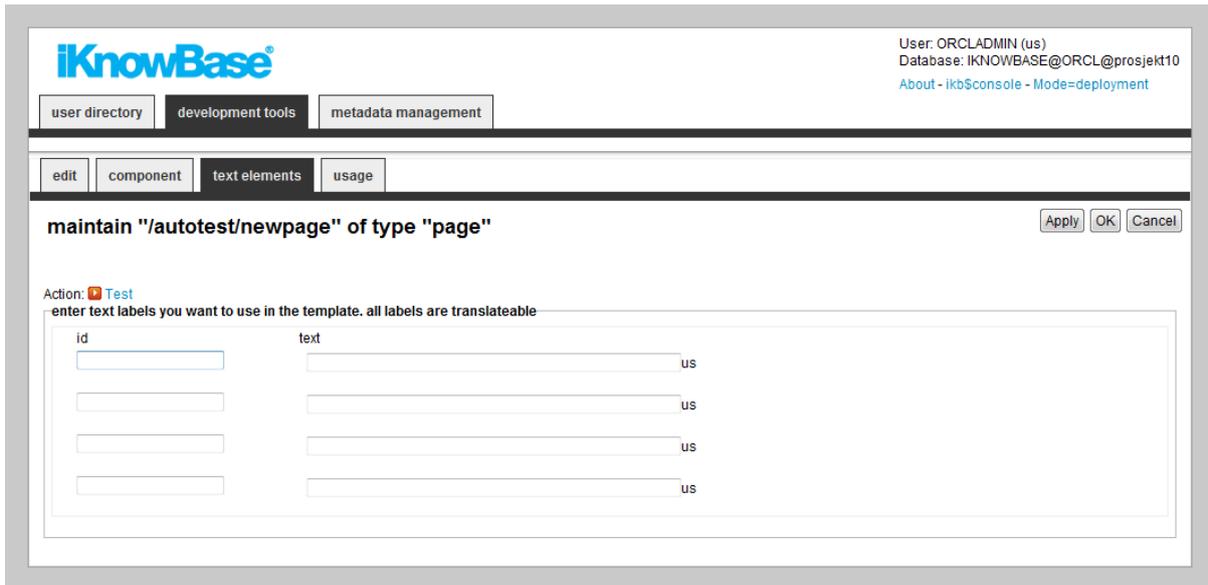
The properties on the Quick links tab enable you to generate links to create new documents in the Viewer. The link can point to a quick link, iKnowBase Form or Task Wizard. In order to use the Quick link to create a subdocument, you should define the Quick link to take a document ID as a dynamic parameter, which may be used to set the parent document for the document to be created.



Property	Description
Link to subdocuments	Select the appropriate dynamic parameter, must be a document ID, to pass to the Quick link in order to be able to create a subdocument.
Add quicklink	The link opens a window with all available quicklinks. Select one or more.
Add Form	The link opens a window with all available iKnowBase Forms. Select one or more.
Add Task	The link opens a window with all available task wizards. Select one or more.
Title	Type the title that to use for the Quick link. If multiple languages are supported in the solution, each language displays a box, where you can type the title that appears. When you click in the Title box, the language box appears. The language code is placed behind the box.
Font class	Type the font class to use for the Quick link text.
Icon	Type the path of the image to use for the quick link.
Show text	Select this check box to display both text and image.
Sort	Type the sorting IDs to sort the quick links that you select.
Description	Displays the description of each quick link.

Text elements Tab

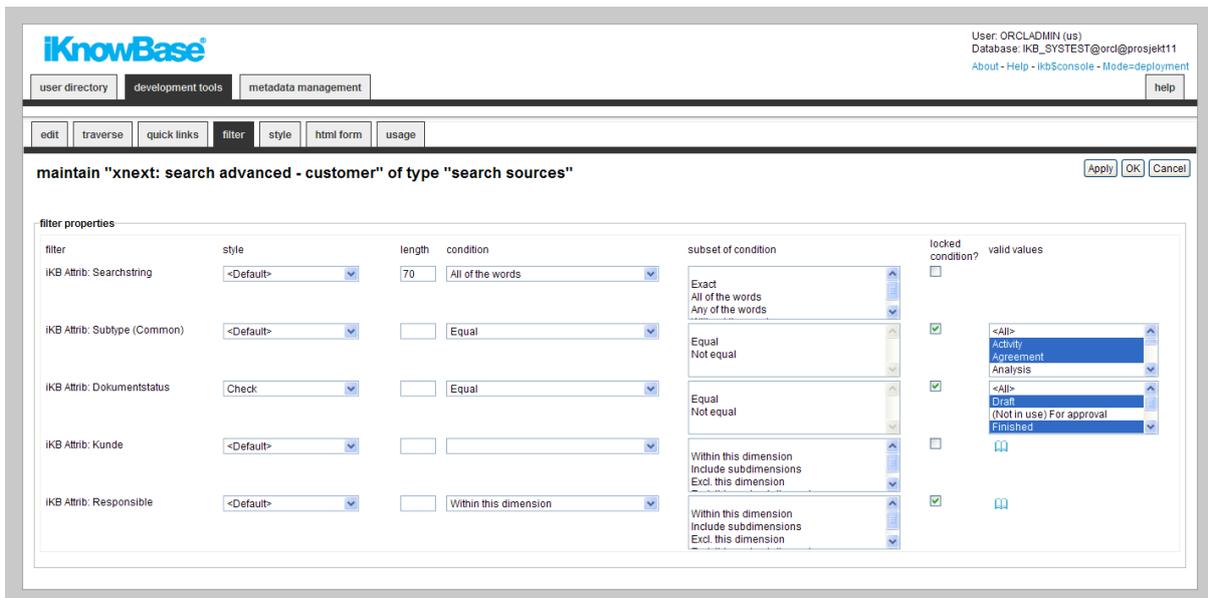
The properties on this tab enable you to define texts to be used in the component. The texts are available as FreeMarker model objects from the Template used for the Page. Multiple languages are supported.



Property	Description
Id	Type an identifier for the label.
Text	Type the text labels that you want to use in the page. If multiple languages are supported in the solution, each language displays a box, in which you can type the display form name. When you place the cursor in the Text field, the language box appears. The language code is placed behind the field.

Filter tab

You can use the properties on the Filter tab to define how to present the various dynamic parameters.



Property	Description
Filter	Displays the selected attributes that makes up the search criteria for the search source.

Property	Description
Style	Select the appropriate styles for the input fields of the search criteria. Available options for lists of values are radio buttons, check boxes, select box, multiselect box, or <default>. If you define Valid values for a dimension attribute, the input field for this attribute is treated as a list of values.
Length	Type the lengths of the input fields of the search criteria.
Condition	Select the default conditions for the search criteria.
Subset of condition	Select the conditions which will be available for selection in the search form. If none is selected, all will be available.
Locked condition?	Select the check box to restrict the user from selecting a condition for the given search criterion in the search form. In this case the value given in the Condition will be used. Note If you lock the condition, the automatically created HTML code on the HTML form tab will not include the iKnowBase condition-tag. You are able to include it yourself though, and thereby override this property.
Valid values	Select the values which will be available for selection in the search form. Applicable to value list and dimension attributes.

Style tab

The properties on the Style tab enables you to define labels and styles for the attributes in the search form.

User: ORCLADMIN (us)
Database: IKB_SYSTEST@orcl@projekt11
[About](#) - [Help](#) - [iKBConsole](#) - [Mode=deployment](#)

user directory | development tools | metadata management | help

edit | traverse | quick links | filter | style | html form | usage

maintain "xnext: search advanced - customer" of type "search sources" Apply OK Cancel

enter prompt and styles for the selected attributes

filter	prompt	style prompt	style input-fields	style conditions
iKB Attrib: Searchstring	Free text <input type="text"/> us Fritekst <input type="text"/> n	<input type="text"/>	<input type="text"/>	<input type="text"/>
iKB Attrib: Subtype (Common)	Type <input type="text"/> us	<input type="text"/>	<input type="text"/>	<input type="text"/>
iKB Attrib: Dokumentstatus	Status <input type="text"/> us	<input type="text"/>	<input type="text"/>	<input type="text"/>
iKB Attrib: Kunde	Customer <input type="text"/> us	<input type="text"/>	<input type="text"/>	<input type="text"/>
iKB Attrib: Responsible	Responsible <input type="text"/> us	<input type="text"/>	<input type="text"/>	<input type="text"/>

Property	Description
Prompt	Type the label you want to use for the dropdown used to manual add attributes to the search criteria. Available when the Dynamic attribute selector property is selected. If multiple languages are supported in the solution, each language displays a box, in which you can type the prompt. The language code is placed behind the field.
Style prompt	Enter the style class to use for the label for the dropdown used to manual add attributes to the search criteria. Available when the Dynamic attribute selector property is selected.
Style dropdown	Enter the style class to use for the dropdown used to manual add attributes to the search criteria. Available when the Dynamic attribute selector property is selected.
Style prompt	Enter the style class to use for the label for the manually added search criterion. Available when the Dynamic attribute selector property is selected.
Style input-fields	Enter the style class to use for the value input field for the manually added search criterion. Available when the Dynamic attribute selector property is selected.
Style conditions	Enter the style class to use for the condition field for the manually added search criterion. Available when the Dynamic attribute selector property is selected. Enter prompt and styles for the selected attributes
Filter	Displays the names of the selected filter attributes.
Prompt	Type the labels for the respective filter attributes. If multiple languages are supported in the solution, each language displays a box, in which you can type the prompt. When you place the cursor in the Prompt field, the language box appears. The language code is placed behind the field.
Style prompt	Enter the style classes to use for the labels of the respective filter attributes.
Style input-fields	Enter the style classes to use for value input fields of the respective filter attributes.
Style conditions	Enter the style classes to use for the condition fields of the respective filter attributes.

HTML Form tab

When using a search source, you typically create a form where the user can enter the desired search criteria.

iKnowBase enables you to design and create the search form layout using your own HTML markup, rather than using the automatically generated search form. The notation in the setup is based on HTML

with several extensions to generate dynamic fields for iKnowBase, pretty much the same as for regular Forms.

You can write the HTML template code in the HTML form tab.

Note

If you update the selected attributes in the search form, you must also update the HTML template to reflect the changes. You can generate a new template or manually update the template, and insert IKB tags for new attributes or delete old tags.

There are two action buttons available:

- **Create new template:** Click this button to generate a default template, with placeholders for the attributes in the search source. You may then change this template as needed. If you do in fact not need to change this template, then a rule-based search form is generally a better choice.
- **Update:** Click this button to update your template with new attributes. iKnowBase will scan the existing template, and find attributes that are missing. Then, it will generate default template code to edit these attributes, and add to the bottom of the template. Move this code around as required.

The screenshot shows the iKnowBase web interface. At the top, there's a header with the iKnowBase logo and user information: 'User: ORCLADMIN (us)', 'Database: IKB_SYSTEST@ord@prosjekt11', and links for 'About - Help - ikbSconsole - Mode=deployment'. Below the header is a navigation bar with tabs: 'user directory', 'development tools', and 'metadata management'. Underneath is another set of tabs: 'edit', 'traverse', 'quick links', 'filter', 'style', 'html form', and 'usage'. The main content area is titled 'maintain "xnext: search advanced - customer" of type "search sources"'. It features an 'html editor' section with a text area containing HTML and Oracle PL/SQL code. To the right of the text area is a list of 'available parameters' with columns for ID and description. At the top right of the editor area, there are buttons for 'Apply', 'OK', 'Create new template', 'Update', and 'Cancel'.

Property	Description
HTML code	Type the HTML template code. Note Use the action buttons Create new template or Update to automatically create or update HTML template code.
Available parameters	A list of available parameters and their IDs available for use in the HTML template code.

Picklist Tab

If you define the search source to be available as a select list, property **Available as select list** on the Edit tab, you get access to the Picklist Tab.

Pick lists are used to select one or more values, for example document ID or dimension ID, from a list of iKnowBase documents, and then return those values back to a given dialogue, such as a TinyMCE- or other attribute field in a Form.

When the search source is used as a pick list, the extracted documents are displayed together with check boxes or radio buttons, which enables the end user to select one or more documents. The specified values for the selected documents are returned to the calling dialogue. By default, radio buttons are generated if the calling dialogue only accepts one return value, and check boxes are generated otherwise.

The screenshot shows the iKnowBase interface for configuring a picklist. The title is "maintain 'cs component documents picklist' of type 'search sources'". The "properties for select list" section includes:

- root-level selectable?
- always radio button?
- return value: <DocID>
- javascript action on button: (empty text area)
- javascript: (empty text area)
- html-code at bottom: (empty text area)

Property	Description
Root-level selectable?	Select this checkbox to make documents at the upper most level selectable. Applicable if you have defined the search source with traverse features, e.g. to extract and display subdocuments on one or more sublevels.
Always radio button?	Select this check box to always display a radio button, even though the calling dialogue accepts more than one return value.
Return value	Select which value to return; typically document ID or dimension ID. Available options are decided by the Presentation style associated with the Search source.

Property	Description
	The selection must correspond to the value expected from the calling dialogue. If the calling dialogue is a related document or image attribute on a form, a document ID must be returned. If the calling dialogue is a dimension attribute on a form, a dimension ID must be returned.
JavaScript action button	Type the JavaScript code that runs when the end user clicks the radio button in the pick list. Rather than typing your own code, you can use two pre-defined actions: <ul style="list-style-type: none"> • <code>StartReturnFromPickList ()</code>: This can be used where you use the pick list from an attribute field on a Form. It will return the selected value back to the calling dialogue. • <code>ReturnToEditor ()</code>: This can be used where you use the pick list from a TinyMCE field on a Form.
JavaScript	Type your own JavaScript code if needed, could for example be run using the button.
HTML-code at bottom	Enter the HTML code to be generated at the end of the page, after the extracted data. Examples can be a button which returns the selected values.

Using the `StartReturnFromPickList()` function

As mentioned above, you can use the `StartReturnFromPickList()` function to return from a picklist. This works as follows:

- Make sure to enter the value `StartReturnFromPickList()` for the javascript action button.
- Next, make sure that the picklist is opened in a new window, and that values are passed for the URL parameters `cbFunction` and `cbClosure`.
- When the user selects an item, the predefined function `StartReturnFromPickList()` is called. This function, in turn, calls the built-in function `ReturnFromPickList()`, passing the values for `cbFunction` and `cbClosure`.
- `ReturnFromPickList` will fetch the selected item's information (id and label), and call the function named in `cbFunction`, in the window that originally opened the picklist.

31. Solr Configuration

When using the Solr search engine, we need to define what kind of information we should index for each document. This screen allows you to add fine grained definitions for each attribute you want to index and also how it should be represented in Solr.

In Solr we differ between three main types of storage :

- **Store:** The value is stored and can be retrieved by the client.
- **Search:** The value will be searchable.
- **Index:** The value will be indexed in its own index and can be used as a filter (e.g. facet).

These three types can be combined.

In addition it is also possible for most attributes to index the ident (either the id or the GUID) for the value and the Path for dimensions. The SOLR representations for these fields will be attributeName__ident, attributeName__guid or attributeName__path.

In many implementations the labels are in more than one language and in those cases all labels with NLS support will be populated into separate fields in Solr. By default, Solr is set up to support Norwegian and English. It is also possible to add extra value to the indexer by using custom written PL/SQL functions. They can be triggered document-based or for each attribute.

As a rule, you should have only ONE Solr configuration for each search engine and share it between all Solr events populating data to the index.

31.1 Properties

This section describes the properties of an Solr configuration, as shown on the corresponding Edit pane tab.

Edit tab

edit candidates indexable file formats bulk operations usage
help

Save (s) Save and close (x) Copy Delete Cancel

SOLR configuration: Default (full)

General properties

Subsystem

* Title

* Description

* Search engine name

Language (if null = multilingual)

Function

Max filesize MB

Path to viewer

Path separator

Attribute to index

[Add Attribute](#) [Add document properties](#)

Actions	Attribute	Source	Datatype	Prefix	Solr name	Search	Index	Store	ID	GUID	ExtKey	Username	Path	Function
	Bredtekst	Document	Big text	body	body	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DokumentID	Document	Numeric	document_id	document_id_integer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
✘	Dokumentstatus	Document	ValueList	status	status_n	N/A	N/A	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A
	Dokumenttittel	Document	Alpha	title	title	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dokumenttype	Document	Document type	type	type_n	N/A	N/A	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	N/A
✘	Ekstern nøkkel	Document	Alpha	external_key	external_key_index_store	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A
✘	Endret av	Document	Userdata	updated_by	updated_by_store	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	N/A	N/A
✘	Endret dato	Document	Date	updated	updated_index_store_date	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	N/A	N/A	N/A	N/A
	Gyldig fra	Document	Date	valid_from	valid_from	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Gyldig til	Document	Date	valid_to	valid_to	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a name for the Solr Configuration.

Property	Description
Description	Type a description for Solr Configuration.
Search Engine	When you index data to more than one solr instance, you need to define separate names for the destination. These are logical names, but refer to Installation properties where you define index- and search URLs to the instances. If you define a new search name, Installation properties will be populated by dummy data.
Language	Select a language if you have a single language environment and the index should only handle that specific language. Set the value to blank if you want to index the values in all languages defined in iKnowBase.
Function	<p>A custom function is used to execute your own built-in function to add / remove content before it is sent to the indexer service. (e.g. You want to create a Solr field for sorting where you select an attribute value if it exists, else you use the document timestamp). The function is executed after the document data is populated. The signature is defined in the Database function-section. To add an extra field for indexing, it must be added to the object type ct_solr_rows like this:</p> <pre> p_solr_data.EXTEND; p_solr_data (p_solr_data.COUNT) := ot_solr_row ('<a name>', '<type>', -- Value can be VALUE_CHAR/DATE/NUMBER/XML/BLOB <char-value>, <number-value>, <date-value>, <xml-value>, <blob-value>, <mimetype>); </pre>
Max filesize	Defines maximum size of a binary file to be indexed. Very large files can be time consuming to index and should be avoided.
Path to viewer	Defines where and how the link should be generated when indexed. Default values is retrieved from domain preferences, but can be overridden here.
Path separator	Defines the separator used when building path elements from dimensions.
Attribute to index	<p>You can choose between two types of attributes:</p> <ul style="list-style-type: none"> • Document properties: Values from the document itself. The required attributes are already selected when you create a new configuration. • Attributes: Regular attributes tagged on the document.
Actions	Delete the parameter by clicking the icon. Mandatory attributes are not possible to delete.
Attribute	Name of the attribute / property.
Source	Document means it's a document property, Attribute means its a regular attribute on the document.
Datatype	Display the datatype.

Property	Description
Prefix	First part of the name used for the attribute in Solr. For attribute values the full name is generated when you select how to store/index/search the value in Solr. Some document properties are locked and will be named by the same value as the prefix.
Solr Name	The full name in Solr for the attribute.
Search	Select (if available) if you want the value to be searchable.
Index	Select (if available) if you want the value to be indexed.
Store	Select (if available) if you want the value to be stored.
ID	Select (if available) if you want to index and store the Ident of the value. The Solr name will be <prefix>__ident.
GUID	Select (if available) if you want to index and store the GUID of the value. The Solr name will be <prefix>__guid.
ExtKey	Select (if available) if you want to index and store the External key of the value. The Solr name will be <prefix>__external_key.
Username	Select (if available) if you want to index and store the Username of the value. The Solr name will be <prefix>__username.
Path	Select (if available) if you want to store the path of the value. The Solr name will be <prefix>__path.
Function	A custom function is used to execute your own built-in function to add / remove content before it is sent to the indexer service. The signature is defined in the Database funtion-section. This function is called if the attribute exists.

Candidates

edit	candidates	indexable file formats	usage		
Save (s) Save and close (x) Cancel					
solr configuration: solr index configuration					
attributes with usage in solr configuration					
actions	attribute	datatype	prefix	solr name	num values
<input checked="" type="checkbox"/>	Kunde	Dimension	customer	customer_search_index_store_#LANG#	161484
<input checked="" type="checkbox"/>	Prosess	Dimension	process_all	process_all_search_index_store_#LANG#	149433
<input checked="" type="checkbox"/>	Ansvarlig	Dimension	responsible	responsible_search_index_store_#LANG#	90654
<input checked="" type="checkbox"/>	Type	Valuelist	sublist	sublist_search_index_store_#LANG#	56023
<input checked="" type="checkbox"/>	Organisasjon	Dimension	org	org_search_index_store_#LANG#	42731
<input checked="" type="checkbox"/>	Fagområde	Dimension	subject	subject_search_index_store_#LANG#	38324
<input checked="" type="checkbox"/>	Produkt	Dimension	product	product_search_index_store_#LANG#	15417
attributes with usage but not in configuration					
actions	attribute	datatype	prefix	solr name	num values
<input type="checkbox"/>	HelpDeskType	Valuelist			129861
<input type="checkbox"/>	HelpDeskTema	Valuelist			126962
<input type="checkbox"/>	HelpDeskSendmail	Valuelist	send_mail		53699
<input type="checkbox"/>	HelpDeskStatus	Valuelist			28122
<input type="checkbox"/>	HelpDeskPrioritetKunde	Valuelist			28094
<input type="checkbox"/>	HelpDeskAppForvalter	Dimension			26196
<input type="checkbox"/>	Aktiv prosesssteg	Dimension			24849
<input type="checkbox"/>	Forvaltningsprosjekt	Dimension			22900
<input type="checkbox"/>	HelpDeskRettelDato	Date			18253
<input type="checkbox"/>	E-post	Alpha			18022
<input type="checkbox"/>	HelpDeskLæsningsVerdi	Valuelist			12152
<input type="checkbox"/>	AppForvalter	Dimension			11574
<input type="checkbox"/>	Dato	Date			11364
<input type="checkbox"/>	Bildearkiv	Dimension			8329
<input type="checkbox"/>	HelpDeskLæsnings	Alpha			8154
<input type="checkbox"/>	Komponenter	Dimension			7263
<input type="checkbox"/>	Arbeidsrom	Dimension			7014

Property	Description
Attributes with usage in Solr Configuration	Displays all selected attributes and how many times they are used by documents. This might indicate if the attribute is a useful indexed attribute. The only available operation you can do is to delete the attribute from the configuration.
Attributes with usage but not in Solr Configuration	Displays all attributes not in the configuration and how many times they are used by documents. This might indicate if the attribute is a useful indexed attribute. The only available operation you can do is to add the attribute to the configuration.

Indexable file formats

edit candidates indexable file formats usage
Save (s) Save and close (x) Cancel

solr configuration: solr index configuration

lists all file formats in use. valid operations are add or remove index flag for a file format

mimetype	format	extension	num docs	indexable?
text/html	HTML	HTM	54479	<input checked="" type="checkbox"/>
application/msword	MS Word	DOC	48201	<input checked="" type="checkbox"/>
application/pdf	PDF	PDF	11715	<input checked="" type="checkbox"/>
application/vnd.openxmlformats-officedocument.wordprocessingml.document	Microsoft Word	DOCX	11293	<input checked="" type="checkbox"/>
application/vnd.ms-powerpoint	Microsoft PowerPoint	PPT	6223	<input checked="" type="checkbox"/>
application/vnd.ms-excel	MS Excel	XLS	4766	<input checked="" type="checkbox"/>
text/plain	Text	TXT	3365	<input checked="" type="checkbox"/>
application/vnd.openxmlformats-officedocument.presentationml.presentation	Microsoft PowerPoint	PPTX	2988	<input checked="" type="checkbox"/>
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet	Microsoft Excel	XLSX	1187	<input checked="" type="checkbox"/>
application/rtf	RichText	RTF	536	<input checked="" type="checkbox"/>
text/html	HTML unix	HTML	188	<input checked="" type="checkbox"/>
text/xml	Extensible Markup Language	XML	145	<input checked="" type="checkbox"/>
application/vnd.oasis.opendocument.text	Open Office (word)	ODT	33	<input checked="" type="checkbox"/>
text/html	JSP	JSP	22	<input checked="" type="checkbox"/>
application/x-outlook-msg	Outlook Item	MSG	22	<input checked="" type="checkbox"/>
application/vnd.oasis.opendocument.spreadsheet	OpenDocument Spreadsheet	ODS	11	<input checked="" type="checkbox"/>
image/jpeg	JPEG	JPG	12966	<input type="checkbox"/>
image/gif	GIF	GIF	5066	<input type="checkbox"/>
application/octet-stream	Unknown	UKNO	3841	<input type="checkbox"/>

Property	Description
File formats supported in Solr Configuration	Displays all used file formats in iKnowBase. You can decide if files with this format should be indexed or not.

Bulk operations

user directory metadata management development tools advanced database admin
help

edit candidates indexable file formats bulk operations usage

view information for "solr for internet" of type "solr configuration" Cancel

bulk operations for events using the configuration

- SOLR - Example Event (internet). Number of documents in changelog are 32
- SOLR - Index documents (both). Number of documents in changelog are 31
- SOLR - Example Event (default minimum). Number of documents in changelog are 32
- SOLR - All cards (default). Number of documents in changelog are 212
- SOLR - Example Event (internet) - Arbeidsdok med vedlegg. Number of documents in changelog are 1

Reindex Delete

Property	Description
Select events for bulk operation	Displays all events using the current configuration. You can easily reindex all documents for all events using the configuration, or delete all documents from solr by checking the boxes and then press the desired button.

Property	Description
Cleanup misconfigured changelog entries	The SOLR changelog might have entries originally created by a event or a solr configuration. If the event definition / solr configuration is deleted or changed, the changelog can 'come out of sync'. Use cleanup to remove entries without a correct event or solr configuration. The option is only available if such misconfiguration exists.

32. Stylesets

Stylesets are reusable fragments of HTML-markup that can be used to "decorate" certain other components, in order to customize the HTML-markup from them. In general, stylesets are used with components that do not allow template-based output.

There are three different styleset types:

- **Style for iKnowBase:** You can use this type of styleset for Form, Viewer and Presentation style components, as well as Build search dialog portlets.
- **Style for menus:** You can use this type of styleset for the menu portlets Advanced menu and Advanced iKnowBase menu.

32.1 Styleset iKnowBase Properties

This section describes the properties of an iKnowBase style set, as shown on the corresponding Edit pane.



User: ORCLADMIN (us)
 Database: IKNOWBASE@ORCL@projekt10
[About - ikb\\$console - Mode=deployment](#)

user directory

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edit

usage

Apply

OK

Cancel

maintain " xnext: banner search dialog" of type "stylesets"

apply style characteristics for either a menu style or a viewer. you can add html-code, and there is help text available if you hold the cursor over the question mark.

subsystem	xNext Solution
* description	xNext: Banner search dialog
header	<div id="xnSearchDialog">
footer	</div>
table tags	
html-tags for rows	
tags for select-list in search	class=""
alternative row	nowrap
row tag to labels	class=""
tags on input-field in search dialog	class=""
table tags for status line	
html-tags for the text on the status line	
font class for buttons	class=""

database information

guid	5E1D99C2F5BCB893E040000A17002064
id	15095
created	16.12.2008 00:08 by ORCLADMIN
updated	06.02.2009 12:37 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Description	Type a description for this style set.
Header	Type the HTML header you want to render at the top of the style set, before rendering content. You may use substitution tags to insert context-specific content into the header.
Footer	Type the HTML footer you want to render at the end of the style set, after rendering content. You may use substitution tags to insert context-specific content into the footer.
Table tags	Type the attributes you want rendered for the <TABLE> tag enclosing the content.

Property	Description
	<p>iKnowBase will render the value inside the tag, like this:</p> <pre><table HERECOMESTHECONTENT></pre>
HTML-tags for rows	<p>Type the attributes you want rendered for the <TR> tag enclosing each row of the content.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><tr HERECOMESTHECONTENT></pre>
Tags for Select-list in search	<p>Type the attributes you want rendered for the <SELECT> tag that will be rendered when selecting between multiple search sources in a search dialog.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><select HERECOMESTHECONTENT></pre> <p>Applicable for Build search dialog portlets.</p>
Alternative row	<p>Type the attributes you want rendered for the <TR> tag for alternate rows (2,4,6, ...). Use this to highlight alternate rows.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><tr HERECOMESTHECONTENT></pre>
Row tag to labels	<p>Type the attributes you want rendered for the <TR> tag for heading rows for a tabular list.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><tr HERECOMESTHECONTENT></pre>
Tags on input-field in search dialog	<p>Type the attributes you want rendered for the <INPUT> tags that will be rendered for search forms.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><select HERECOMESTHECONTENT></pre>
Table tags for status line	<p>Type the attributes you want rendered for the <TABLE> tag enclosing the navigation controls (first/next), if enabled.</p> <p>iKnowBase will render the value inside the tag, like this:</p> <pre><table HERECOMESTHECONTENT></pre>
HTML-Tags for the text on the status line	<p>Type the tags you want rendered for the text rendered in the navigation controls (first/next), if enabled.</p> <p>iKnowBase will render the value inside the tag.</p>
Font class for buttons	<p>Type the font class you want rendered for any buttons rendered.</p>

32.2 Styleset Menu Properties

This section describes the properties of an menu style set, as shown on the corresponding Edit pane.



User: ORCLADMIN (us)
 Database: IKNOWBASE@ORCL@projekt10
[About - ikb\\$console - Mode=deployment](#)

user directory

development tools

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edit

usage

maintain "cs component dimension navigator" of type "stylesets" Apply OK Cancel

apply style characteristics for either a menu style or a viewer. you can add html-code, and there is help text available if you hold the cursor over the question mark.

subsystem * description header footer table tags html-tags for rows fontclass for menus fontclass for menu items font class for active menu element root menu: table tags root menu: table row tags root menu: font class for text font class for buttons	<div style="border: 1px solid gray; padding: 2px;"> <input type="text" value="CS Component Dimension Navigator"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <pre><h1><JAVA1KB>DIMENSIONNAVIGATOR</JAVA1KB></h1> <div class="csDimNav"></pre> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <pre></div></pre> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <pre>cellpadding="0" cellspacing="0" border="0" width="100%"</pre> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input 100%"="" type="text" value="width="/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input align="left" top"="" type="text" value="valign="/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div> <div style="border: 1px solid gray; padding: 2px; margin-top: 5px;"> <input type="text"/> </div>
---	---

database information

guid	766EBD52DB671CDFE040000A1700491F
id	50578
created	21.10.2009 12:00 by ORCLADMIN
updated	22.10.2009 09:17 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Description	Type a description for this style set.
Header	Type the HTML header you want to render at the top of the style set, before rendering content. You may use substitution tags to insert context-specific content into the header.
Footer	Type the HTML footer you want to render at the end of the styleset, after rendering content. You may use substitution tags to insert context-specific content into the footer.

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Property	Description
Table tags	Type the attributes you want rendered for the <TABLE> tag enclosing the content. iKnowBase will render the value inside the tag, like this: <pre><table HERECOMESTHECONTENT></pre>
HTML-tags for rows	Type the attributes you want rendered for the <TR> tag enclosing each row of the content. iKnowBase will render the value inside the tag, like this: <pre><tr HERECOMESTHECONTENT></pre>
Font class for menus	Type a font class for menu items that have sub menus.
Font class for menu items	Type a font class for menu items that do not have sub menus.
Font class for active menu element	Type a font class for active menu elements.
Root menu: Table tags	Type the appropriate HTML tags. If the root menu appears, these tags are inserted in the <TABLE> tag that encloses the root menu.
Root menu: Table row tags	Type the appropriate HTML tags. These tags are inserted in the <TR> tag that contains the root menu.
Root menu: Font class for text	Type a font class that is for the text of the root menu.
Font class for buttons	Type the font class for any buttons rendered.
Guid	Displays a globally unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Id	Displays a unique identifier number for this component. This property appears after you save a component. You cannot update the information of this property.
Created	Displays when the component was created and by whom it was created.
Updated	Displays when the component was last updated and by whom it was updated.

32.3 Substitution Tags

In the HTML fields (header and footer), you can use substitution tags insert context-specific content.

Property	Description
#TITLE# or \${viewer.style.portletTitle}	You can use this tag to display the portlet name inside the header text.
:LANGUAGE_ID or \${viewer.logic.languageId}	If the NLS-supported text is also entered in the HTML code, you can use this tag.
\${viewer.param.referencePath}	You can use this tag to display the reference path of the portlet instance in the header text.
#SHOW_MORE# OR \${viewer.navigation.moreLink}	If you want to create a link to a new search source, you can use this tag. You must set up a search source and a target page in the viewer. You must build the a-tag. <pre><a #SHOW_MORE#>Show more</pre>

You can also use <ORACLE> tags to run PL/SQL commands inside the text.

For example:

```
<oracle>
BEGIN
Http.p(Ikb_nls_string.get_string('<objectID>', ':LANGAUGE_ID', '<StringID>');
END;
</oracle>
```

33. Subsystem

Subsystems enable you to divide metadata into different areas to get an overview of where the metadata is used. For example, you can create a Subsystem for testing or a Subsystem for the intranet. When a new metadata is created, such as a Form, you can select the Subsystem that this Form belongs to.

33.1 Properties

This section describes the properties of a subsystem, as shown on the corresponding Edit pane.

The screenshot shows the 'maintain subsystem' edit pane in iKnowBase. The title is 'maintain "ssd" of type "subsystem"'. The form contains the following fields:

- * name:** SSD
- description:** SDD
- external key:** SSDS
- access:** [Access Control List icon]
- hide:**

Below the form is the 'database information' section:

guid	740EDECA550D2F87E040000A17005031
id	46325
created	21.09.2009 09:58 by ORCLADMIN
updated	16.06.2010 14:23 by ORCLADMIN

Property	Description
Name	Type a name for the subsystem.
Description	Type a description for the subsystem.
External key	Type an external key for the subsystem.
Access	Select the appropriate access control list. This field specifies who can update, delete, or add metadata associated with this subsystem.
Hide	Hides the elements tagged with this subsystem, to avoid accidental editing.

34. Targets

A target is a generic concept that is used to specify destinations for links and the content information to be displayed in the destination. Web-based applications use URLs to specify the content information and the location of the information. With iKnowBase, the task of generating context-based URL is abstracted into easy-to-use targets. You can view content information as is or add parameters that enable you to specify or filter the content that you want to display on the destination page.

iKnowBase enables you to create four types of targets:

- **Popup targets:** A popup target opens the given link in a new window. Used where you want to show the link in another window than the base window. For this target type you can define height and width of the new window.
- **Page targets:** A page target opens the given target destination and passes the specified parameters. For this target type you must specify the destination, which could be of type iKnowBase page or URL, and which parameters to pass.
- **Parameter targets:** A parameter target opens the given link and passes the specified parameters. For this target type you must specify which parameters to pass.
- **Template targets:** A template target runs a template, and returns the output to the user. A template target corresponds roughly to a Java servlet or a Groovy Groovlet.

You can use parameters with Page targets and Parameter targets. All parameters are transmitted as URL parameters, and might be used by the portlets and components on the destination page. The following parameter types are available for targets:

- **URL parameter:** Use this parameter type to transfer a value from a URL parameter on the currently rendered page to a URL parameter on the destination page. For example, if the current page has the URL `http://www.example.com?mainmenu=value`, and you want to pass the `mainmenu=value` parameter to a new page, then you must define a URL parameter with them same name as the name of the parameter in the URL of the current page, e.g. `mainmenu`.
- **IKB-URL parameter:** Use this parameter type to transfer a value from an iKnowBase Parameter on the currently rendered page to an iKnowBase Parameter on the destination page. This removes the need to understand URL parameter naming.
- **Function:** Use this parameter type to execute a PL/SQL database function, and pass the return value as a parameter to the destination page. For example, if you want to send today's date as a parameter to a page, you must create a Function parameter for the target. Specify a name for the parameter, and choose the database function that generates the proper value. The function will be executed, and the return value of the function will be passed on the URL which will look something like this: `http://www.example.com?<paramName>=01012004`. It is undefined whether the function is executed when you click the page, or when the source page is first rendered.
- **Value from link:** Use this parameter to send a dynamic value from the link to a named parameter. This is typically implemented in the database layer where you build the URL programatically.
- **Constant:** Use this parameter when the value that is being sent is constant.
- **iKnowBase parameter:** Use this parameter to send a dynamic value to an iKnowBase parameter on the target page. This is typically implemented in the database layer where you build the URL programatically.

34.1 Properties

This section describes the properties of a target, as shown on the corresponding Edit pane.

The Parameters region on the Edit pane displays for Page targets and Parameter targets.

Property	Description
Subsystem	Select the appropriate subsystem.
Target type	Displays the target type that you select.
Name	Type a name for this target.
Description	Type a description for this target.
External key	Type the appropriate external key. This key is an alternative key for the target page, and can be used to call a target page without using the target ID.
Select target	<p>Select the appropriate target type and destination.</p> <ul style="list-style-type: none"> iKnowBase Page: If you want to go to an iKnowBase page, use this target type. Use the drop-down to the right to select the desired portal page. Template: A template target runs a script, and returns the output to the user. A template target corresponds roughly to a Java servlet or a Groovy Groovlet. The template can either be an inline template or a shared template. URL: If you want to go to a hardcoded URL, type the URL here. You can specify the URL in three ways: <ul style="list-style-type: none"> Enter an absolute URL, starting with <code>http://</code>. The specified URL will be used as is. Enter a relative URL, starting with <code>/</code>, to avoid hardcode of domain. The <code>/</code> will be substituted by the current domain. Example: <code>/ikbViewer</code> will produce <code>http://www.example.com/ikbViewer</code>.

Property	Description
	<ul style="list-style-type: none"> Enter a relative URL, starting with #, to call a pl/sql procedure. The notation is <code><provider>.procedure</code> where <i>procedure</i> should be replaced by the name of the pl/sql procedure. The <code><provider></code> will be substituted by the current domain and the appropriate provider. Example: <code><provider>.portel_manage_redirect.redirect</code> will produce <code>http://www.example.com/pls/portel_manage_redirect.redirect</code> Note: This property displays if you select the Page target type.
Run target thru JS-script	<p>You can define a target where the URL built for the target is used as an input to a javascript instead of navigating directly to the URL. The code generated will look like this :</p> <pre data-bbox="443 696 1134 763"></pre>
Listener Url	<p>Define a listener URL if you want to generate more readable URLs. By default all URLs will be generated where the parameters end up at the end like this: <code>/url?param=value1&param2=value2</code>. A Listener URL can take the parameters and place them with understandable values inside the URLs instead.</p> <p>You can either use one asterisk (*), which will be a placeholder for one fragment, or two asterisks (**), which means the value can contain slashes (/), for example a dimension path. The fragments and the order between them are defined for each parameter in the target.</p> <p>Examples:</p> <div data-bbox="454 1198 1380 1294" style="border: 1px solid #ccc; padding: 5px;"> <pre data-bbox="459 1205 1375 1288">/mypage/**/* Two fragments can be placed in the URL /mypage/**/* Two fragments can be placed in the URL, the first can contain "/"</pre> </div> <p>You may also use URI Templates, which lets you map parts of the URL to named parameters. Note that URI Templates will never be used for URL generation, only for URL parsing. This means that URI Templates are most useful with targets that you activate by URL (for example from a client side script), and not so much when the target is activated automatically (by selection in e.g. a Menu or Dimension viewer).</p> <p>Examples:</p> <div data-bbox="454 1630 1380 1697" style="border: 1px solid #ccc; padding: 5px;"> <pre data-bbox="459 1637 1375 1691">/mytarget/{from}/{to} The url /mytarget/OSL/CPH corresponds to /mytarget? from=OSL&to=CPH</pre> </div>
Convert function	<p>When defining a listener URL you need a custom function to build and parse the URL. The function will on BUILD get all parameter values for the target defined as fragments. The custom code must define how the value should appear in the URL. (e.g. a document ID should be presented as <code><docID>-<title></code>). Parse will do the opposite. The fragment will in example will be <code><docID>-<title></code> and should return the DocID.</p>

Property	Description
Template set (only for template targets)	Please see the Template Set section for more information.
Window or frame name	Type the name of the web browser window or iframe where you want to open the target. Use "_blank" to always get a new window. PLEASE NOTE: Specifying window size and decorations are not recommended, as various browsers, screens and devices will respond in different way. The frame name is rendered into the target-attribute of the HTML <a>-tag.
Scrollbar	Select this check box to display a scroll bar for the new window. This field is applicable only to the Popup target type.
Resizable	Select this check box to enable a user to resize the window. This field is applicable only to the Popup target type.
Toolbar	Select this check box to display the Windows Explorer toolbar. This field is applicable only to the Popup target type.
Menu bar	Select this check box to display the Windows Explorer menu bar. This field is applicable only to the Popup target type.
Width	Type the width of the window in pixels. This field is applicable only to the Popup target type.
Height	Type the height of the window in pixels. This field is applicable only to the Popup target type.
Type	Displays a list of parameters associated with this target. To add a new parameter, click on the new parameter icon of the appropriate type. See the introduction to this chapter for a description of the available parameter types. To remove a parameter, click on the respective remove icon.
Sort	Type the appropriate sort key, if you want the parameters in a specific order.
Parameter name	<ul style="list-style-type: none"> • URL parameter / Function / Value from link / Constant: Type a name for this parameter. This will be used as the parameter name on the destination page. • IKB-URL parameter / iKnowBase parameter: Select the parameter you want to pass to the destination page. The list of selectable parameters is the union of all declared iKnowBase parameters, both iKnowBase and SQL, and parameters defined for iKnowBase external data sources.
Value	<ul style="list-style-type: none"> • URL parameter: Type the appropriate name of the parameter whose value will be retrieved from the current page URL. • IKB-URL parameter: Select the parameter whose value you want to extract from the current page URL.

Property	Description
	<ul style="list-style-type: none">• Function: Enter the PL/SQL database function that will generate the parameter value.• Value from link: Select a parameter number that will be used in a custom function call.• Constant: Type a value that is sent to the target page.• iKnowBase parameter: Select a parameter number that will be used in a custom function call.
FragmentID	Used where a listener url is defined. The fragmentID correspond to the placement of the asterics (*) in the listener URL. If you have two * in the listener URL you should also have two fragments with id 1 and 2.

35. Task Wizard

Use the task wizard to design sequences of input steps to create a single iKnowBase information object (document). Rather than using a single form, this enables more intuitive user interfaces.

The task wizard will act as a supervisor to perform a task. The component will handle the navigation between the different components and storage between each step in the navigation. The Task wizard is document-oriented, e.g. information about the task wizard and the active step within it is saved to one document (information object). This means that each step of the task wizard must have actions that update this document.

To configure a task wizard, you must define the forms to be used in the task wizard. You also need to define a default Target to be used if no target is set on the individual steps of the task wizard, and a Form to be used to edit the information object after the user has finished all the steps in the task wizard.

In order to use a task wizard, you must first create a Page with a Process arrow in task wizard portlet, which will display the steps of the task wizard and which step the user is on, and a Form portlet.

Note

You may reuse this Page for different task wizards, as both these portlets are dynamic. Then you must create a quick link for the task wizard. Associate this quick link with a component such as a Viewer. Make this component available on a Page using the appropriate portlet such as the Shared content viewer portlet for a Viewer component. Now, the end user may click on the quick link to initiate the task wizard.

35.1 Properties

This section describes the properties of a task wizard, as shown on the corresponding Edit pane tabs.

Edit tab



User: ORCLADMIN (us)
 Database: IKNOWBASE@ORCL@projekt10
 About - ikb\$console - Mode=deployment

user directory
development tools
metadata management

edit
steps
usage

maintain "ava test" of type "task wizard"

Apply
OK
Cancel

create a new task wizard by entering a name and a description.

subsystem	<input type="text"/>
* name	<input type="text" value="AVA Test"/>
description	<input type="text"/>
* default target	<input type="text" value="AVA Test2"/> +
target upon exit from the task wizard	<input type="text"/> +
access restriction	
* post task wizard iknowbase form	<input type="text" value="xNext: Links"/> +
delete document if you cancel before completion?	<input type="checkbox"/>
* task type	<input type="text" value="Normal"/>

database information

guid	818DF27B540195D2E040000A17007EA6
id	61397
created	11.03.2010 23:35 by ORCLADMIN
updated	11.03.2010 23:35 by ORCLADMIN

Property	Description
Subsystem	Select the appropriate subsystem.
Name	Type a name for this task wizard.
Description	Type a description for this task wizard.
Default target	Select the default target for this task wizard. If no target is set on the individual steps, this target is used.
Target upon exit from the task wizard	Select the appropriate target to use after the task wizard has been completed.
Access restriction	Select the appropriate access control list. Only members with the create privilege in this access control list can use the task wizard.
Post task wizard iKnowBase Form	Select the Form to use for editing the information object after initial creation from this task wizard.
Delete document if you cancel before completion?	Select this check box to delete the document if the user clicks cancel in the middle of a task flow.
Task type	Select the appropriate task type. The following options are available:

Property	Description
	<ul style="list-style-type: none"> • Normal: Use this task type if the information object created using this task wizard should be kept in the database after completion of the wizard. • Temporary: Use this task type where the task wizard should write to a temporary information object, which is deleted upon completion of the wizard. NOTE: If you select Temporary the Temporary fields region appears on the Edit pane. You can use these properties to specify which fields should be updated in the document that initiated the task wizard (called master). The value is retrieved from the temporary document. By marking the check-your box you will set the field to be updated. In addition, all attributes will be transferred back to the main document.
Use temporary ACL on main document	<p>Select this check box to update the access group on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary STATUS on main document	<p>Select this check box to update the status on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary VALID_FROM on main document	<p>Select this check box to update the valid from date on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary VALID_TO on main document	<p>Select this check box to update the valid to date on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary TITLE on main document	<p>Select this check box to update the title on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary DESCRIPTION on main document	<p>Select this check box to update the description on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary CONTENT on main document	<p>Select this check box to update the content(URL, file, or text) on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary OWNER on main document	<p>Select this check box to update the owner on the main document, e.g. the document which initiated the task wizard.</p> <p>Only applicable to Temporary task type.</p>
Use temporary Post task wizard	<p>Select this check box to update the form information on the main document, e.g. the document which initiated the task wizard. The identification of the form</p>

Property	Description
iKnowBase Form on main document on exit	given in the Post task wizard iKnowBase Form property will be saved to the main document. This means that this form will be used for maintenance of the main document. Only applicable to Temporary task type.

Steps tab

The screenshot shows the iKnowBase user interface for configuring task wizard steps. At the top, the user is identified as 'ORCLADMIN (us)' with database 'IKNOWBASE@ORCL@projekt10'. The 'steps' tab is active, showing the configuration for 'maintain "ava test" of type "task wizard"'. Below the title, there is a table for entering task steps:

sort#	title	target	ikb form	dimension
<input type="text"/>	<input type="text" value="us"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="us"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="us"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text" value="us"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Property	Description
Sort#	Type the appropriate number to sort the steps.
Title	Type a name for the step. This name appears in the process arrow for the task wizard. If multiple languages are supported, each language displays a box, where you can type the title that appears. When you click in the Title box, language box appears. The language code is placed behind the field.
Target	Select the appropriate target for the step.
iKB Form	Select the appropriate form for the step.
Dimension	Select a dimension you want to associate with the step. You can use the associated dimension to display relevant content to the task wizard step, such as guidelines, etc.

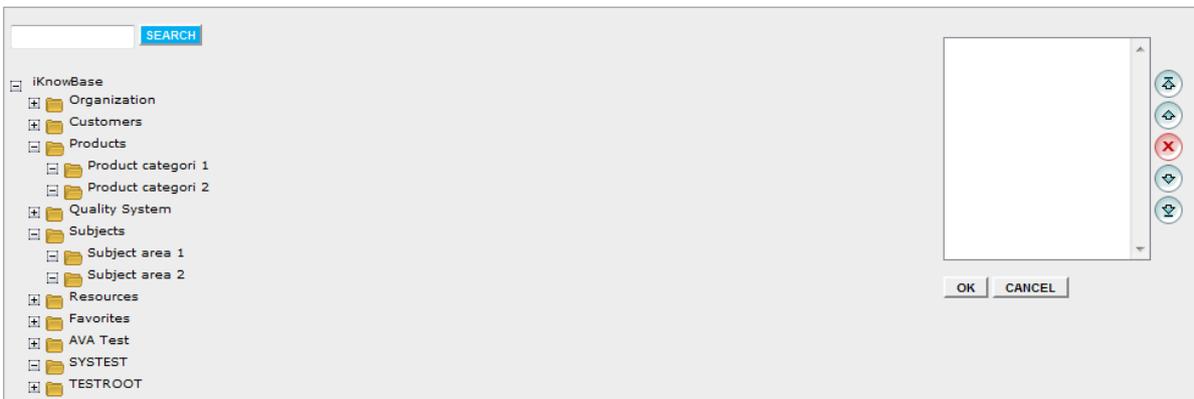
35.2 Creating a Task Wizard

Use the basic **create** actions to add a task wizard.

During the creation of a task wizard, you can have iKnowBase automatically generate steps matching a certain dimension structure. To use this feature, click the dimension navigator icon for **Select the steps**

for the task wizard from dimensions, and select the appropriate dimensions. After initial save of the task wizard, it will contain one step per selected dimension.

Dimension Navigator



35.3 Testing a Task Wizard

To test your task wizard, either click the **Test** action for the task wizard on the **List** pane, or click the **Test** action link on the **Edit** pane tabs for the task wizard.

Note

The **Test** actions become available for a content form after you specify the target **Target on show** for the form.

36. Template set

36.1 Concept

Template are used by a large number of components in iKnowBase. The template set feature allows you to define links to existing templates or/and create new inline templates used by the specific component. This chapter will focus on the user interface where you define such template set. To read more about scripts and templates, see [Using Scripts and templates](#) in the *iKnowBase API Reference*.

Features of Template set:

- Create inline templates
- Use existing shared templates
- Copy or share inline templates
- Detach a shared templates and make it inline

Properties

This section describes the properties of an template set.

Action	Ident/label	Inline/shared	Template	Implementation Type
✕ copy detach	main	Shared	[[/dev/activiti/starttask	groovy/lang Script
✕ copy share	/dev/activiti/starttask	Inline	Edit template in separate tab	groovy/lang Script

Property	Description
Add Shared template	Choose among shared templates for the specific component type. Only templates with the same template type as the context you are in will be available.
Add Inline template	Create a local, inline template used only by this component.
Action	The following actions are available: <ul style="list-style-type: none"> • Move up/down: Move a template up or down in the set • Delete: Delete the template from the template set • Copy: Will create a new inline template • Share: Will convert a inline template to a shared template • Detach: Will convert a shared template to an inline template (only if the template is used by one component)
Ident/label	Name of the template in the set. The default template will be the first template in the component.
Inline/shared	Displays if its a shared or inline template.

Property	Description
Template	For shared templates it will let you either go to the selected templated or call a popup to select another one. Inline templates are maintain within the component in a separate tab named after the ident of the template.
Implementation	Displays the implementation type.

Inline templates

This section describes how to maintain an inline template. Shared templates are described in the [Templates](#) section.

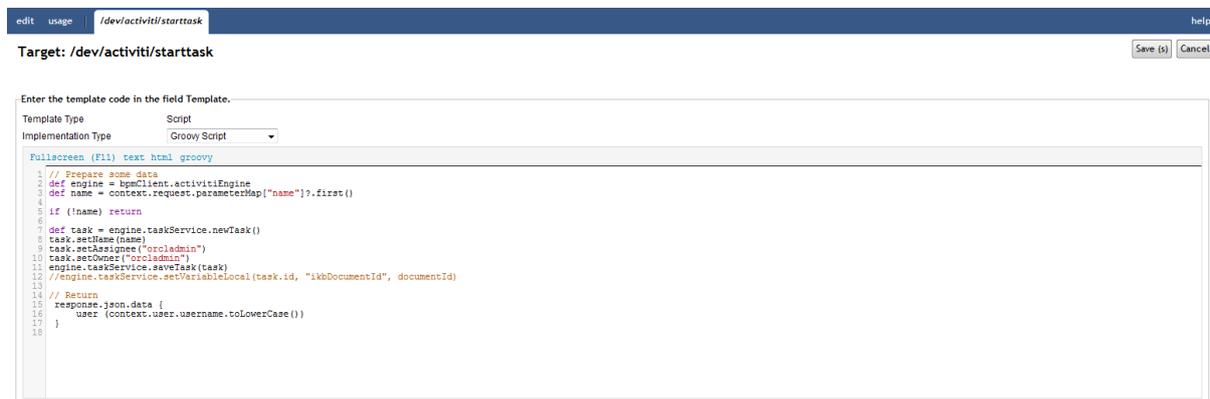
First, the inline template will be available as a separate tab named like Ident name you gave.



Target: /dev/activiti/starttask

Multiple inline templates will create multiple tabs.

The screen to maintain the inline tab looks like this:



Property	Description
Template type	The value is given by the context. e.g. a inline template for a presentation style will set the template type to Presentation style.
Implementation type	Select the appropriate implemetation type. Choose between the following options: <ul style="list-style-type: none"> FreeMarker template Groovy template

Property	Description
	<ul style="list-style-type: none">• Groovy XMLtemplate• Groovy script• Html Script• JavaScript
Template	Type the template code using the appropriate syntax (FreeMarker, html, javascript or Groovy). Click on the label to enter a full screen editing mode, where you can use CTRL+S to save.

37. Templates

Templates enforce a standard layout across multiple pages and within content regions on pages within your iKnowBase application. With templates, you can ensure that you have a consistent look and feel across the portal. You can create a template once and use it for multiple pages or layout pages. When you modify a template, the pages or the regions based on that template are automatically updated. You can use an existing template for a page or a layout page, or create your own template by writing your own FreeMarker template code.

See Part V for further information about FreeMarker and available FreeMarker model objects.

37.1 Properties

This section describes the properties of a template, as shown on the corresponding Edit pane tabs.

Edit Tab

The screenshot shows the 'Edit' tab for a template in iKnowBase. The title of the template is 'maintain "cs layout form image" of type "templates"'. The form contains the following fields and values:

- subsystem: IKB Desktop
- title: CS Layout Form Image
- external key: (empty)
- template type: Page
- implementation type: FreeMarker Template

The template code is as follows:

```
<div class="csHeading">
<h1>${page.strings.heading}</h1>
</div>

<table width="100%" class="csFormImageTable">
<tr>
<td class="csFormImage">
${page.regions.form}
</td>
<td class="csFormImagePreview">
${page.regions.preview}
</td>
</tr>
</table>
```

The 'database information' section shows:

```
guid: 73C678F242F8081EE04000A17005A52
id: 46133
created: 17.09.2009 14:51 by ORCLADMIN
updated: 04.12.2009 13:27 by ORCLADMIN
```

Property	Description
Subsystem	Select the appropriate subsystem.
Title	Type a name for this template. This name is used during the configuration and not available for the end user.
Template Type	Select the appropriate template type. A template type defines where the template can be used. Choose between the following options: <ul style="list-style-type: none"> • Page: Available for pages • Menu viewer: Available for menu instances

Property	Description
	<ul style="list-style-type: none"> • Dimension viewer: Available for dimension viewers • Script: Available for script targets and template viewers • Form: Available for Activiti forms • XML viewer: Available for XML viewers
Implementation type	<p>Select the appropriate implementation type. Choose between the following options:</p> <ul style="list-style-type: none"> • FreeMarker template • Groovy template • Groovy XMLtemplate • Groovy script • Html Script • JavaScript
Template	Type the template code using the appropriate syntax (e.g. FreeMarker or Groovy). Click on the label to enter a full screen editing mode, where you can use CTRL+S to save.

Text Elements Tab

The properties on this tab enable you to define texts to be used in the component. The texts are available as FreeMarker model objects. Multiple languages are supported.

The screenshot shows the iKnowBase web interface. At the top, there is a header with the iKnowBase logo on the left and user information on the right: "User: ORCLADMIN (us)", "Database: IKNOWBASE@ORCL@prosjekt10", and "About - ikb\$console - Mode=deployment". Below the header, there are three navigation tabs: "user directory", "development tools", and "metadata management". Underneath, there are three sub-tabs: "edit", "text elements", and "usage". The "text elements" tab is active, and the title of the page is "maintain "/test layoutpage (regions.clientpage)' of type 'templates'". To the right of the title are three buttons: "Apply", "OK", and "Cancel". The main content area contains a form with the instruction "enter text labels you want to use in the template. all labels are translateable". Below this instruction is a table with two columns: "id" and "text". There are four rows in the table, each with an input field for "id" and a text input field for "text" followed by a "us" label.

Property	Description
Id	Type an identifier for the text element.

Property	Description
Text	Type the text labels that you want to use in the template. If multiple languages are supported in the solution, clicking the text input item expands hidden input items for all the languages, the language codes are specified behind the input fields.

38. Web Widget Profiles

Web Widgets profiles is used to define a access point to a software application, e.g TinyMCE used for rich text editors. Other examples are date widgets. iKnowBase differs between three types of widgets; TinyMCE widgets, other text editor widgets and date widgets.

38.1 Properties

This section describes the properties of a Web Widget profile, as shown on the corresponding Edit pane.

The screenshot shows the 'Web widget profiles: Enkel' edit pane. The form includes the following fields and values:

- Name:** Enkel
- Description:** Enkel med kun basisfunksjoner
- Target type:** TinyMCE
- Default profile:**
- Theme:** advanced
- Script (once-only):** /ressurs/iknowbase/libs/tinyMCE3/tinyMCE/jscripts/tiny_mce/tiny_mce.js
- Definition:**

```

mode : "exact",
theme_advanced_buttons1 : "bold,italic,underline, strikethrough, separator, undo, redo, separator, cleanup, separator,bullist,numlist",
theme_advanced_buttons2 : "",
theme_advanced_buttons3 : "",
theme_advanced_buttons4 : "",
theme_advanced_toolbar_location : "top",
theme_advanced_toolbar_align : "left",
convert_urls : false,
paste_auto_cleanup_on_paste : true,
paste_convert_headers_to_strong : true,
entities : "",accessibility_focus : false,
plugins : "tabfocus",
tab_focus : "":prev,:next",
iknowbase : {
  imageURL : "",
  linkURL : ""
}

```

Property	Description
Name	Type a name for this Web Widget profile.
Description	Type a description for this Web Widget profile.
Target type	Select between TinyMCE, CLOB Widget and Date Widget
Default profile	Check this check box to have this TinyMCE profile be the default one. Only applicable for TinyMCE
Theme	Type the reference to the TinyMCE setup that is based on different themes. For more information on themes, see the TinyMCE documentation. Only applicable for TinyMCE.
Script	Enter the name of the script file required to configure this particular profile.
Definition	Enter tags used for building a web widget profile.

38.2 More about TinyMCE

iKnowBase, by default, uses the TinyMCE WYSIWIG html editor to edit HTML-based content. Define different TinyMCE profiles to use different TinyMCE configurations throughout the system.

iKnowBase contains TinyMCE plug-ins to access the iKnowBase document- and image archive. This enables the end user to insert document links and images into the TinyMCE editor from the iKnowBase archives.

When you first install iKnowBase, three TinyMCE profiles will be configured:

- Standard: Showing a selection of buttons on the TinyMCE toolbar.
- Simple: Displays only the basic functions on the TinyMCE toolbar.
- Full: Showing all of the buttons and features on the TinyMCE toolbar, including iKnowBase buttons.

The Simple profile is default on most description fields, and the Full profile is default for text content fields.

You can change the existing TinyMCE profiles or create you own to match your needs. The configured TinyMCE profiles are available when you set a style for a text field in a Form (on the Style tab of the Edit pane).

The TinyMCE documentation is available at: <http://tinymce.moxiecode.com/index.php>.

The following languages are supported: Norwegian and English. You can define more language profiles; see the TinyMCE documentation for information.

For TinyMCE the following scripts are included in the iKnowBase distribution:

```
/iknowbase/libs/tinymce3/tinymce/jscripts/tiny_mce/tiny_mce.js
```

To include iKnowBase buttons in the toolbar, the definition must contain the following:

```
plugins:"iknowbase"
theme_advanced_buttons1_add : "iknowbase.link, iknowbase.image"
iknowbase : {
  imageURL: '',
  linkURL: ''
}
```

For more information, see the TinyMCE documentation.

38.3 Testing your Web Widget profile

To test your Web Widget profile, click the View Widget on the Edit pane tabs for the profile.

39. Transformation

Transformations are used to transform content in iKnowBase. Typical examples are image scaling or transformation to a different content type (e.g. from word to PDF). Transformation are based on instructions to providers supported by iKnowBase. By now we have the following providers : cloudconvert, fileconverter (Oracle InsideOut), image (iKnowBase image converter), ordimg (Oracle ORDIMAGE) and ctxdoc (Oracle Text conversion). A transformation definition can have rules and include or exclude certain mimetypes or file formats.

39.1 Properties

This section describes the properties of an image variant, as shown on the corresponding Edit pane.

Property	Description
Subsystem	Select the appropriate subsystem.
Display name	Give the transformation a name to describe the transformation.
External key	External key is a logical name that will be used as an instruction to the transformation service. Its is more readable than the actual instruction and creates more readable links. e.g. /transformation=scale95x95 instead of /transformation=image:resize:200:200:best-fit-shrink. NOTE: be aware if you change the external key, all links using the name like the document body will not be changed.
Sort order	Used to order the variants in image selectors (e.g. the image selector used in editors).
Enable?	Defines if the variant is enabled. No variants will be created (or available from images functions) if the variant is disabled.
Content action type	Used from a content viewer and decides if the returning object should be a link or an image link.
Use in Wysiwyg-editors (image picklist)	Used when you want to insert a image link to a variant from the Wysiwyg-editor.
Use this variant as thumbnail?	Defines if the variant should be used as thumbnail in the image archive. Only one variant can be checked as thumbnail.

Property	Description
Define instructions and include / exclude content types	
Format	Create a rule for a certain file format. It can either be included or excluded. If you include the file format you need to give an instruction.
Mimetype	Create a rule for a certain mimetype. It can either be included or excluded. If you include the mimetype you need to give an instruction. Wildcard are allowed, e.g. image/*.
Transformation instruction	Enter a valid instruction if the rule is an including one.
Exclude	Decide if the rule is an excluding one.
Output format (extension)	Enter the extension to the transformed file. If not given, it will use the original extension. e.g when transforming to pdf the extension should also be set to pdf.

40. Viewer

A Viewer enables you to present content from iKnowBase. When configuring a viewer, you must specify which content to retrieve (similar to the WHERE clause in SQL). You can use both static and dynamic criteria. You can associate the Viewer with a Presentation style to define how to present the content. If you do not specify a Presentation style, iKnowBase tries to find a Presentation style at run-time based on current domain/document type. If the document type is not associated with any presentation style, the viewer cannot retrieve a document.

There are two types of viewers.

- **iKnowBase shared viewer:** Most common, used by a content viewer component on a page.
- **SOLR Viewer:** It is used to enhance the result set from SOLR by running a viewer with a presentation style. The presentation style can retrieve everything a shared viewer can, but will only be retrieved for documents in the SOLR result set. This will allow you to run database functions, build links and so on easily. Only appropriate properties are available for this mode.

40.1 Properties

This section describes the properties of a viewer, as shown on the corresponding Edit pane tabs. A SOLR viewer has only a subset of the properties available.

Edit Tab

Property	Description
Subsystem	Select the appropriate subsystem.
Name	Type a name for this viewer.
Display title	Type a title for this viewer. This may be presented to the end-user by a Presentation Style. The title supports multiple languages.
External key	Type the appropriate external key. For SOLR viewers external key is a mandatory field, otherwise its optional.

Property	Description
SQL-hint (inner query)	<p>For advanced users only, type the appropriate SQL hint for the inner query (where-condition part).</p> <p>The hint will be inserted into the SQL-query; using the appropriate hint may help speed up query execution.</p>
SQL-hint (outer query)	<p>For advanced users only, type the appropriate SQL hint for the outer part of the query (select-part).</p> <p>The hint will be inserted into the SQL-query; using the appropriate hint may help speed up query execution.</p>
Custom access control	<p>Type the name of the appropriate database procedure to use a special access control, if you want to extend the default access control. Note: You should use this carefully, as controlled security model may be set aside.</p> <p>The following signature must be used for the database procedure:</p> <pre>PROCEDURE <package>.<procedure name> (site_id in number, user_id in number, reference_path in varchar2, result out);</pre> <p>The returned result must be an SQL fragment which fits into the SQL WHERE clause generated by the Viewer. For example, the function could return</p> <pre>or oil.owner_id = 125</pre> <p>and the query would then be</p> <pre>... and (oil.owner_id = <userid> or ((oil.acl_guid is null or oil.owner_id = 125 or oil.acl_guid in (select v_acl.acl_guid from v_acl) ... </pre>
Presentation style	Select the Presentation style you want to use to format the output.
Override styleset	Select the Styleset you want to apply. If set, this will override the styleset defined on the Presentation style to be used.
Target for text	Select the target page to use for link to documents with text content.
Target for links	Select the target page to use for link to documents with file or URL content.
Callback function	<p>A function used as callback from Forms when adding new documents or editing existing documents initiated from the viewer.</p> <p>You can use this property to avoid page redirect upon save from form. The parameter passed to the callback function is a json object with the properties action and documentId. The callback function could for example reload the viewer.</p>

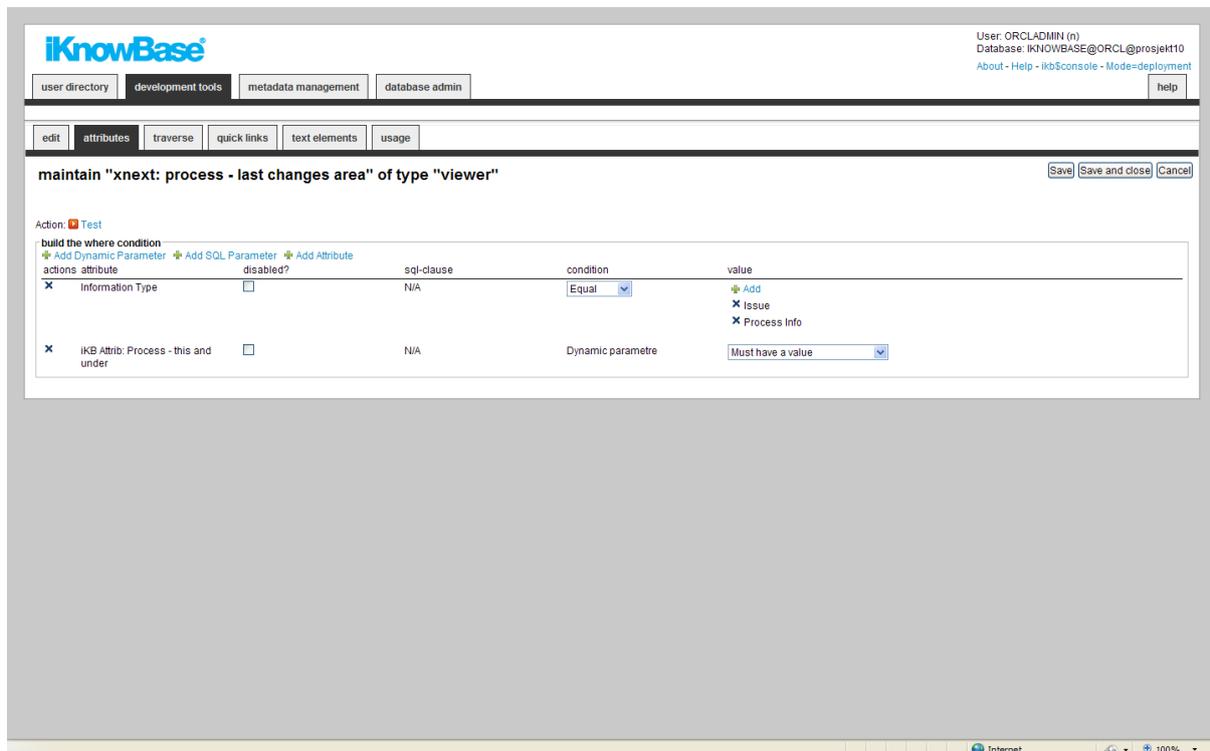
Property	Description
Target to show_more page?	Select the target page to use for the "show more" link. Please note that the target definition should have a parameter named p_search_id as Parameter1.
Search source on the show_mode page	To reuse a single target page for multiple "show more" pages, select the search source you want to display on the target page.
# records	Type the number of rows that you want to extract at a time. The default value is 10.
Start from record	Type the row number from which you want to display the result set. The default value is 1.
Max records	Type the maximum number of documents that you want to extract. The default value is 100.
Cache interval (0 is none)	Type the time in minutes for which you want to keep content in the cache.
Show total number of rows	Select this check box to display the total number rows on the status line.
Override homeplace mapping	Select this check box to use the targets defined on this Viewer rather than the target selector mechanism.
Use "Target for text" for all content types	Select this check box to use the target defined in the Target for text property for all links to documents, disregarding the content type.
Save dynamic variable	Select this check box to use a session save on all the dynamic parameters. If these values are not in the URL, this property allows iKnowBase to save the last values. If you do not save the session variables, no content appears when you enter the page without the necessary dynamic parameters specified on the portlet.
Print header also with no hits	Select this check box to display the title of the portlet if the search finds no documents.
Show quicklink inside header	Select this check box to display the quick links within the header section of the viewer.
Always print quicklinks	Select this check box to display the quick links even if mandatory attributes are not set.
Print portlet decoration	Select this check box to print the portlet decoration that surrounds the content in a portlet.
Log read operation	Uncheck if you want to avoid logging to the document statistic table. By default it will insert one row everytime a document with HTML-content is displayed.

Attributes Tab (only available for iKnowBase shared Viewer)

You can choose between four types of parameters:

- **Dynamic parameter:** Parameters defined as iKnowBase parameters.
- **SQL parameter:** Parameters defined as SQL parameters.
- **Attribute:** iKnowBase attributes, used to set constant values in the query.
- **External:** Parameters defined for iKnowBase external data sources. Only available if the data source is an external datasource.

When the parameter is selected, you must save before you can set any values.



Property	Description
Actions	Delete the parameter by clicking the icon.
Attribute	Displays the names of the selected attributes to use as conditions for the Search source.
Disabled?	You can for debugging reasons disable attributes.
Sql Clause	Used for performance reasons for advanced users. Will generate a SQL with either IN or EXISTS.
Condition	Select the appropriate conditions for the selected attributes. The conditions depend on the type of attribute. If the conditions <i>exists</i> or <i>not exists</i> are available you don't need to add any values. Note: You cannot select a condition for parameters.

Property	Description
Value	<p>Select or enter the appropriate values for the selected attributes. Available options depends on the attribute/parameter type. Date attributes allow use of NOW (with timestamp) and TODAY (truncated value)</p> <p>Applicable to SQL parameters only when the parameter is defined with an attribute.</p>

Traverse Tab (only available for iKnowBase shared Viewer)

The properties on the Traverse tab enables you to define a Viewer with traverse features, e.g. possibilities to display subdocuments or versions of the extracted documents. Examples are discussion forums and view all versions of a document.

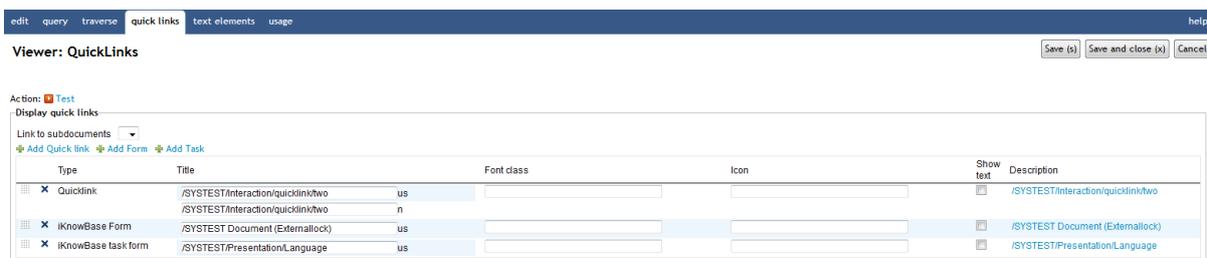
The screenshot shows the iKnowBase development console interface. At the top right, it displays user information: "User: ORCLADMIN (us)", "Database: IKNOWBASE@ORCL@prosjekt10", and "About - ikb\$console - Mode=deployment". The main navigation bar includes "user directory", "development tools", and "metadata management". Below this, there are tabs for "edit", "traverse", "quick links", "text elements", and "usage". The "traverse" tab is active, showing the configuration for a viewer named "maintain 'xnext: profile facts' of type 'viewer'". There are "Apply", "OK", and "Cancel" buttons. The configuration area includes a "traverse document structure" section with a "select method" dropdown menu currently set to "No traversal".

Property	Description
Select method	<p>Choose how you want to traverse the document structure. You can choose between :</p> <ul style="list-style-type: none"> • No traversal: will not retrieve any subdocuments Traverse down by using a connect-by clause: will fetch all subdocuments for every documents retrieved. It will use the same presentation style as defined on the main viewer definition. When selected, you can enter the number of levels you want to traverse. • Traverse up by using a connect-by clause: will fetch all documents above for every documents retrieved. It will use the same presentation style as defined on the main viewer definition. Suitable for viewers showing only one document where you want to see the top levels. When selected, you can enter the number of levels you want to traverse. • Traverse by using search sources: For each document it will run a new viewer. This is not as efficient (performance) as the above methods, but gives you the flexibility of defining separate conditions and presentation style for each level.
Level	Type the level for the extraction source. Level 1 specifies first level, but you may specify extraction sources that traverse further on level 2 documents, etc.

Property	Description
Select source	Select the appropriate Search source as the base for the extraction of subdocuments. You can vary the style and layout on different levels.
Expand Collapse	To enable the expand/collapse functionality for the subdocuments, click Yes. To display the subdocuments directly, click No.
Icon Expand	Enter the reference to the icon to be used to expand the list of subdocuments. Note: You must click Yes in the Expand Collapse list.
Icon Collapse	Enter the reference to the icon to be used to collapse the list of subdocuments. Note: You must click Yes in the Expand Collapse list.

Quick Links Tab (only available for iKnowBase shared Viewer)

The properties on the Quick links tab enable you to generate links to create new documents in the Viewer. The link can point to a quick link, iKnowBase Form or Task Wizard. In order to use the Quick link to create a subdocument, you should define the Quick link to take a document ID as a dynamic parameter, which may be used to set the parent document for the document to be created.



Property	Description
Link to subdocuments	Select the appropriate dynamic parameter, must be a document ID, to pass to the Quick link in order to be able to create a subdocument.
Add quicklink	The link opens a window with all available quicklinks. Select one or more.
Add Form	The link opens a window with all available iKnowBase Forms. Select one or more.
Add Task	The link opens a window with all available task wizards. Select one or more.
Title	Type the title that to use for the Quick link. If multiple languages are supported in the solution, each language displays a box, where you can type the title that appears. When you click in the Title box, the language box appears. The language code is placed behind the box.
Font class	Type the font class to use for the Quick link text.
Icon	Type the path of the image to use for the quick link.
Show text	Select this check box to display both text and image.
Sort	Type the sorting IDs to sort the quick links that you select.
Description	Displays the description of each quick link.

Text Elements Tab

The properties on the Text elements tab enable you to define texts to use in the component. The texts are available as FreeMarker model objects in template-based Presentation styles. Multiple languages are supported.

Property	Description
Id	Type an identifier for the viewer.
Text	Type the text labels that you want to use in a template. If multiple languages are supported in the solution, each language displays a box, where you can type the name of the form that appears. When you click in the Text box, the language box appears. The language code is placed behind the box.