How To...
Configure the Search UI
Version 1.00 – April 2007

Applicable Releases:
SAP NetWeaver 7.0
User Productivity Enablement - Enterprise
Knowledge Management
1 Scenario

This scenario describes how to configure the Search User Interface to meet your individual requirements. Configuration enables better customization, extensibility, modularity, and integration of custom development.

2 Introduction

A search dialog consists of two main areas – a search component set and a search options set. A typical search dialog appears as follows:

![Search Dialog](image)

Search components sets are comprised of modular parts called search components. There are several SAP delivered search components, or alternatively custom components may be created through the use of the KM APIs. These search components are grouped and arranged into a search component set.

A typical search component set is seen below:
For reference, below is a description of each of the areas one can specify component(s) for.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component for Basic Search Function</td>
<td>Yes</td>
<td>Component that provides the basic search functions.</td>
</tr>
<tr>
<td>Component for Search Options</td>
<td>No</td>
<td>Components that provide the search options.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For information on the configuration of these options, see Search Options.</td>
</tr>
<tr>
<td>Component below Search Options</td>
<td>No</td>
<td>Components to be displayed beneath the search options.</td>
</tr>
<tr>
<td>Component below Search Result</td>
<td>No</td>
<td>Components to be displayed beneath the search results.</td>
</tr>
</tbody>
</table>

For more information on Search Components, see [http://help.sap.com/saphelp_nw04s/helpdata/en/f9/b84d40cef71059e10000000a155106/content.htm](http://help.sap.com/saphelp_nw04s/helpdata/en/f9/b84d40cef71059e10000000a155106/content.htm)

Search options sets allow an administrator to specify which options are available to users during a search. Typical examples of search options are as follows: Index Groups, Predefined Properties, Show Related Terms, etc. Furthermore, an administrator can pre-set search criteria in the search options set.

A typical search options set is seen below:
View "UISearch_HowToGuide"

| Description | |
| Initial Display of Search Options | ✔ |
| Enable Large Search Field | ✔ |
| Close Options After Search | ✔ |
| Enable Search Options | ✔ |
| Enable Further Search After Quick Search | |
| Enable Search Scope Selection | ✔ |
| Default Search Scope * | INDEXES |
| Search Index Ds (csv) | |
| Index Groups (csv) | |
| Root Folders for Search (Scope = FOLDER) (csv) | |
| Enable Selection of Search Method | |
| Default Search Method * | AUTOMATIC |
| Enable Standard Properties | ✔ |
| Enable Result Parameters | ✔ |
| Enable Cascading Search | ✔ |
| Enable Sorting of Search Results | |
| Default Sorting Mode * | DESCENDING |
| Default Property for Sorting | |
| Allowed Sort Properties | |

Enable Item Selection

| Default Item Selection * | ALL |
| Additional Search Properties | |

Show Related Terms

| Max. No. of Related Terms * | 6 |
| Max. No. of Words in Snippet * | 30 |
| Max. No. of Search Results per Page * | 10 |
| Max. No. of Categories * | 0 |

Enable Predefined Properties

| Predefined Properties (csv) | |
| Fixed No. of Rows for Predef Properties * | 0 |
| Allowed Predefined Properties | |

Enable Custom Properties

| Custom Properties (csv) | |
| Fixed No. of Rows for Custom Properties * | 0 |
| Show No. of Hits | |

- 3 -
For additional information on Search options, see http://help.sap.com/saphelp_nw04s/helpdata/en/cc/f4e77ddef1244380b06fee5f8b892a/content.htm

In addition to configuring the search components and search options, one may change the layout set for the search results. By default, search results are displayed using the SearchResultLayoutSet, which is specified in the OTH file search.oth. Optionally, one may change the displayed parameters in the SearchResultLayoutSet, or one may create a new layout set and specify a corresponding OTH file.

To learn more about configuring layout sets for search results please visit http://help.sap.com/saphelp_nw2004s/helpdata/en/2a/4ff640365d8566e10000000a1550b0/frameset.htm.

3 Prerequisites

One must be assigned the System Administrator and Content Administrator roles to carry out the tasks described in this document. Furthermore, TREX must be operating and able to communicate with the portal. Finally, there must be at least two indexes created with attached data sources to use the search functionality.

For additional information on index creation, see http://help.sap.com/saphelp_nw04s/helpdata/en/73/66c090acf611d5993700508b6b8b11/content.htm

For TREX installation refer to the single or multiple host documents, see https://service.sap.com/instguides > SAP Netweaver > SAP Netweaver 2004s > Installation > Installation Stand-alone engines > Installation – Search and Classification Trex Single / Multiple Host
4 The Step By Step Solution

This solution involves four main steps, which are detailed below:

- Create search component set
- Create search options set
- Create search iView
- Configure search iView

4.1 Create Search Component Set

1. Navigate to System Administration → System Configuration → Knowledge Management → Content Management → User Interface → Show Advanced Options → Search

2. Navigate to Search Component Set

3. Click the “New” button to create a new Search Component Set

4. Enter a name and description as applicable.

5. Choose components for Basic Search Function. Use the “Add” and “Remove” buttons to move components from Not Selected to Selected.
Additionally, the order of components may be set via the “Top”, “Up”, “Down”, and “Bottom” buttons. In this example, the default standard_search has been removed and replaced with the search_input_indexes component.

6. Choose components for Search Options. The standard_search_options was added in this example.

7. Choose components for Below Search Options. The search_predefined_props props options were added in this example.

8. Choose components for Below Search Result. In this example, related_terms is selected.
9. Click the **OK** button to save.

### 4.2 Create Search Options Set

1. Navigate to System Administration → System Configuration → Knowledge Management → Content Management → User Interface → Show Advanced Options → Search

2. Navigate to Search Options Set

3. Click the “New” button to create a new Search Options Set

4. Enter a name and description as applicable.

5. Select options for the Search Options Set. Refer to the Appendix for additional information on search options.

6. Click the **OK** button to save.

### 4.3 Create Search iView

1. Navigate to Content Administration → Portal Content and select the folder in which the iView will be created.
2. Right-click on the folder (iViews) and select New → iView

3. Select the template KM Search iView

4. Click on the "Next >" button to continue

5. Complete the General Properties section according to your company’s naming standards.
6. Click on the **Next >** button to continue

7. Review the settings.

8. Click on the **Finish** button to complete the iView creation.

### 4.4 Configure Search iView

1. Open the newly created iView via the wizard or use the right-click method.
2. Define the Search Component Set and the Search Options Set in the iView configuration.

<table>
<thead>
<tr>
<th>Search Component Set</th>
<th>USearchComponents_HowToGuide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search Options Set</td>
<td>USearch_HowToGuide</td>
</tr>
</tbody>
</table>

Note: You may need to show all properties to see the Search Component Set and the Search Options Set parameters

3. Save the iView and preview to test.
Appendix

Search Components

The following search components are available:

**federated_search**

![Search Interface Example]

**Notes:**

- If one is running a federated portal environment, one can configure the search so that queries are sent to all producer portals.
- The search results are displayed on several tab pages. The first tab page contains the list of search results for the current portal. A separate tab page is displayed for each producer portal. The tab page for a producer portal displays the same results list as one would see if one were to run a standard search in this portal.
- Search options cannot be added to this component set.

For more on configuring a Federated Portal search, please go to [http://help.sap.com/saphelp_nw2004s/helpdata/en/44/5802b4a1293673e10000000a114a6b/frameset.htm](http://help.sap.com/saphelp_nw2004s/helpdata/en/44/5802b4a1293673e10000000a114a6b/frameset.htm)

**room_cm_search**

This particular component is used to limit a users search within a specific collaboration room. For information on how to configure search for room content please go to [http://help.sap.com/saphelp_nw2004s/helpdata/en/8c/d79e420fc40b31e10000000a1550b0/frameset.htm](http://help.sap.com/saphelp_nw2004s/helpdata/en/8c/d79e420fc40b31e10000000a1550b0/frameset.htm)
The Enable Search Scope Selection option must also be selected to enable the search scope functionality.

The Enable Standard Properties option must also be selected to enable the filter by properties functionality.

The Enable Result Parameters option must also be selected to enable the display results functionality.

Notes:

- The standard_search_button will add a Search button and the ‘Show/Hide Options’ link.
- The Enable Search Options option must be selected to enable the ‘Show/Hide Options’ link.
- The standard_search_button does not have any default search options.
Note: Unlike the `standard_search`, the `standard_search_input` does not have any default search options.

**search_input_index**es

You can search using Boolean keywords such as AND and OR. Use double quotes around phrases.

Note: Unlike the `standard_search`, the `search_input_index`es does not have any default search options.

**standard_search_options**

<table>
<thead>
<tr>
<th>Search Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Search Scope</strong></td>
</tr>
<tr>
<td>✓ Index Groups</td>
</tr>
<tr>
<td>✓ Miscellaneous</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Filter by Properties</strong></td>
</tr>
<tr>
<td>✓ Name</td>
</tr>
<tr>
<td>✗ Description</td>
</tr>
<tr>
<td>✓ Last Modified By</td>
</tr>
<tr>
<td>✗ Last Modified</td>
</tr>
<tr>
<td><strong>Display Results</strong></td>
</tr>
<tr>
<td>✓ Sort By</td>
</tr>
<tr>
<td>✓ Results Per Page</td>
</tr>
<tr>
<td>✓ Items</td>
</tr>
<tr>
<td>✗ Max No. of Categories</td>
</tr>
</tbody>
</table>

**Notes:**
- The **Enable Search Scope Selection** option must also be selected to enable the search scope functionality.
- The **Enable Standard Properties** option must also be selected to enable the filter by properties functionality.
- The **Enable Result Parameters** option must also be selected to enable the display results functionality.

**standard_search_toggle_options**
Notes:
- The `standard_search_toggle_options` will add a ‘Show/Hide Options’ link.
- The Enable Search Options option must be selected to enable the ‘Show/Hide Options’ link.
- One can place multiple ‘Show/Hide Options’ links in the search dialog.

**search_custom_props**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Add</th>
</tr>
</thead>
</table>

Notes:
- The Enable Custom Properties option must also be selected to enable this functionality.
- Custom properties should be incorporated via Property Metadata Service and Property Structure services and use the `search_predefined_props` option.
- This filter cannot force any formatting or validation and is not generally recommended for use in Productive environments.
Notes:
- The Enable Predefined Properties option must also be selected to enable this functionality.
- If one wants to display Predefined Properties in the Search Options then at least one document must have these properties assigned, and this document must be indexed.

Note: The Enable Search Scope Selection option must also be selected to enable this functionality.

Note: The Enable Result Parameters option must also be selected to enable this functionality.
**standard_search_scope**

<table>
<thead>
<tr>
<th>Search Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Index Groups: Show Indexes</td>
</tr>
<tr>
<td>- Miscellaneous</td>
</tr>
<tr>
<td>- Folders (and Subfolders): [Browse]</td>
</tr>
</tbody>
</table>

*Note: The Enable Standard Properties option must also be selected to enable this functionality.*

**related_terms**

<table>
<thead>
<tr>
<th>Terms Related To trex</th>
</tr>
</thead>
<tbody>
<tr>
<td>distributed TREX Installation</td>
</tr>
<tr>
<td>TREX 6.0</td>
</tr>
<tr>
<td>name server:</td>
</tr>
<tr>
<td>TREX Server</td>
</tr>
<tr>
<td>TREX Components</td>
</tr>
</tbody>
</table>
Search Options

The following search options are available:

**Initial Display of Search Options**
Specifies whether the search options are displayed in the search dialog box at the start of a search.

**Enable Large Search Field**
If activated a larger input field is provided for the search.

Activated

Deactivated

**Close Options After Search**
Specifies whether the search options are hidden in the search results list after a search.

**Enable Search Options**
If activated one can call up the search options using a link.

Activated

Deactivated

You can search using Boolean keywords such as AND and OR. Use double quotes around phrases.

**Enable Further Search After Quick Search**
Specifies whether or not an additional search can be started from the search results list of a quick search, which is typically launched from the Tools Area.

Activated

candy
Deactivated

Enable Search Scope Selection
Specifies whether the search scope can be selected in the search options.

Note: One of the following search components must also be enabled: standard_search, standard_search_options, or standard_search_scope.

Default Search Scope
Specifies the default search scope of either indexes or folders. Specific indexes may be specified in the Search Index IDs. Default index groups may be specified in the Index Groups parameter. If the folder option is chosen, the parameter Root Folder for Search should also be specified.

Search Index IDs
Comma-separated list of search index IDs to be used by default for a search.

Index Groups
Comma-separated list of index groups to be used by default for a search. Use the ID IDXG_BLANK for the index group Miscellaneous.

Root Folders for Search (Scope = FOLDER)
Folders from which the search is to be started. This parameter can only be used in combination with the parameter Default Search Scope = Folder.

Enable Selection of Search Method
Specifies whether the search method can be selected in the search options.

Default Search Method
Specifies the search method to be used for the search by default. Possible values are Automatic, Exact, Linguistic, and Fuzzy.
Enable Standard Properties
Specifies whether standard properties can be selected in the search options.

Enable Result Parameters
Specifies whether parameters for modifying the search results list are to be displayed in the search options parameters.

Enable Cascading Search
If this parameter is activated the cascading search is used for searches.

Activated

Deactivated
Enable Sorting of Search Results
If this parameter is activated one can sort the search results.

Default Sorting Mode
Specifies the default sort order for the search result list. Possible values are Ascending and Descending.

Default Property for Sorting
Specifies the default sort property for the search result list.

Allowed Sort Properties
Specifies properties by which the search results can be sorted.

Enable Item Selection
If activated, one can filter the search results list by item type (see the parameter Default Item Selection).

Default Item Selection
Default item type for filtering the search results list. Choices are as follows: ALL, ONLY FOLDERS, or ONLY DOCS.

Enable Language Selection
Allows the user to search for documents in a specific language. Only those languages that were selected during the TREX installation are displayed.

**Notes:**
- If activated, you can filter your results by language in two areas: 1.) On the header of the search results list 2.) The search result parameters

**Default Search Language Selection**
Specify the default language when performing a search.

**Notes:**
- The language can still be changed by the user from the drop down list.
- If the entry ALL is selected, the search results list displays documents in all languages.

**Additional Search Properties**
Properties that are considered for a search in addition to the standard properties (description, title, and content).

**Show Related Terms**
Displays the Related Terms function if activated.

**Max. No. of Related Terms**
Maximum number of terms that can be displayed by the Related Terms function in the search results list.
Max. No. of Words in Snippet
Maximum number of words in a text snippet.

Max. No. of Search Results per Page
Maximum number of search results per page.

Enable No. of Categories Selection
Specifies whether or not the ‘Max Number of Categories’ can be selected in the search options.

Max. No. of Categories
Maximum number of categories to be displayed in the search result.

Notes:
- This property can still be changed by the user from the drop down list.
- Requires the Enable No. of Categories must be enabled.

Enable Predefined Properties
Specifies whether predefined properties can be selected in the search options.

Notes:
- The search_predefinedprops component must also be enabled.
- If one wants to display Predefined Properties in the Search Options then at least one document must have these properties assigned, and this document must be indexed.

Predefined Properties
Comma-separated list of predefined properties (and corresponding values) that can be displayed and evaluated by default in the search options when searching.
Fixed No. of Rows for Predef. Properties
Specifies the number of rows in which predefined properties are to be displayed in the search options.

Meta Data for Predefined Properties
Specifies the meta data for predefined properties. For example, one may specify meta data for properties whose value is dependent upon another property.

Allowed Predefined Properties
Specifies predefined properties by which the search results can be filtered.

Enable Custom Properties
Specifies whether custom properties can be selected in the search dialog box. Note: The search_custom_props component must also be enabled.

Custom Properties
Comma-separated list of custom properties to be evaluated by default for a search. In order to use this parameter, the Enable Custom Properties parameter must be activated.

Fixed No. of Rows for Custom Properties
Specifies the number of rows in which custom properties are to be displayed in the search options.

Show No. of Hits
Number of hits to be displayed in the search result list. Note: Permissions are not taken into account here.

Enable Web Repository Access
If activated, queries for non-indexable properties can be sent to Web repositories to display these in the search results.