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Applies To:

Knowledge Management

The described scenario was set up on a NW 04 SPS 15 KM content system.

It should work on all currently supported NW 2004 and NW 2004s patch levels as well

Summary

Provide the *HTML Meta Tag* or *HTML Tag information* for a Web repository in the KM content environment. Use the *Details* dialog for the document to make extracted tags visible and searchable.

The aim of this *How-To-Guide* is to describe all basic configuration steps for this scenario.

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Introduction

You want to provide the *HTML meta tag* or *HTML tag information* for your Web repository in the KM content environment. All tags should be visible and searchable in the *Details* dialog.

Let me point out: **No additional coding is needed!**

All steps are merely configuration settings in the standard system. Each configuration step is simple. But in this special case it happens that the whole set reaches a relatively high level of complexity.

Because all steps take place in the SAP standard system, the explanation texts here provided are relatively brief. Instead, helpful links to the documentation are given. Take them as a starting point for advanced configuration settings.

Basic elements are:

- Define an accessible *Web repository* that contains the data of interest and the *HTML (meta) tag* information
- Attach *property extractors* to this repository
- Define the corresponding *metadata properties*
- Create the *TREX search index* and assign the repository as the data source
- Configure a *search option set* adapted to your specific requirements
- Display the extracted tags in the search results list

System administration permissions are required for all configuration settings.

Access path to all configuration steps: System Administration → System Configuration

In the detailed navigation: Knowledge Management → Content Management

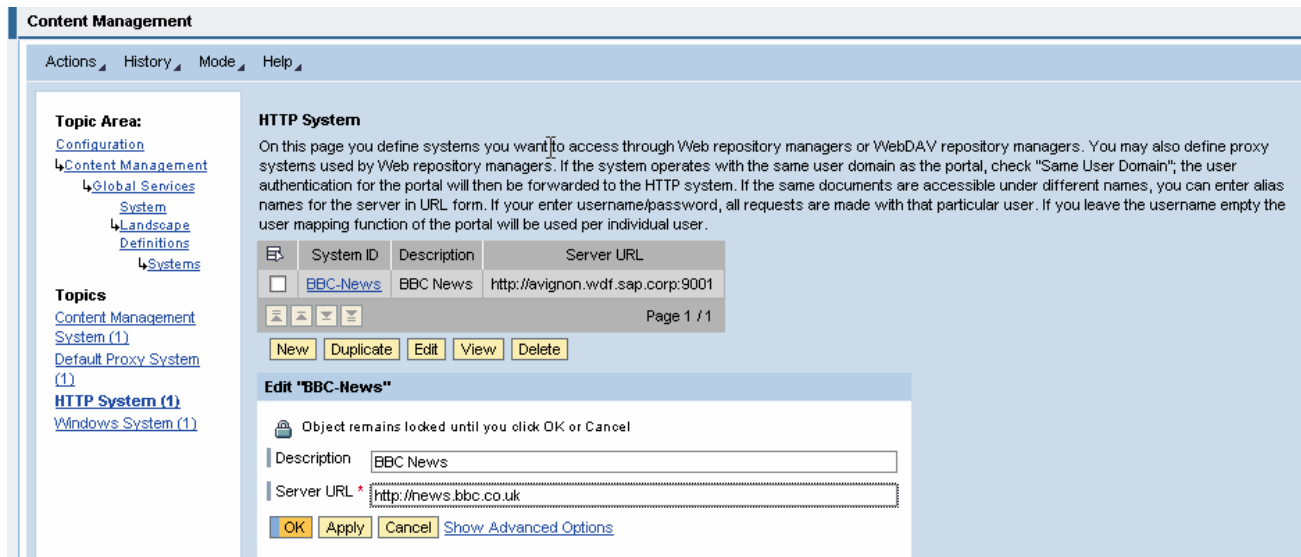
Or Knowledge Management → Index Administration

Defining the Web Site

System Landscape ID

You must define a system landscape for further access by the *Web repository manager*. For more information about this, see the [System Landscape Service](#) documentation.

Note that, in some cases, valid credentials are needed for access.



The screenshot shows the SAP Content Management interface for configuring an HTTP system. The left sidebar contains a navigation tree with 'Topic Area' and 'Topics'. The main content area is titled 'HTTP System' and includes a descriptive paragraph, a table of systems, and an 'Edit' form for the selected 'BBC-News' system.

Topic Area:
[Configuration](#)
[Content Management](#)
 ↳ [Global Services](#)
 ↳ [System](#)
 ↳ [Landscape](#)
 ↳ [Definitions](#)
 ↳ [Systems](#)

Topics
[Content Management](#)
[System \(1\)](#)
[Default Proxy System \(1\)](#)
[HTTP System \(1\)](#)
[Windows System \(1\)](#)

HTTP System
On this page you define systems you want to access through Web repository managers or WebDAV repository managers. You may also define proxy systems used by Web repository managers. If the system operates with the same user domain as the portal, check "Same User Domain"; the user authentication for the portal will then be forwarded to the HTTP system. If the same documents are accessible under different names, you can enter alias names for the server in URL form. If you enter username/password, all requests are made with that particular user. If you leave the username empty the user mapping function of the portal will be used per individual user.

<input type="checkbox"/>	System ID	Description	Server URL
<input type="checkbox"/>	BBC-News	BBC News	http://avignon.wdf.sap.corp:9001

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New Duplicate Edit View Delete

Edit "BBC-News"
Object remains locked until you click OK or Cancel

Description:

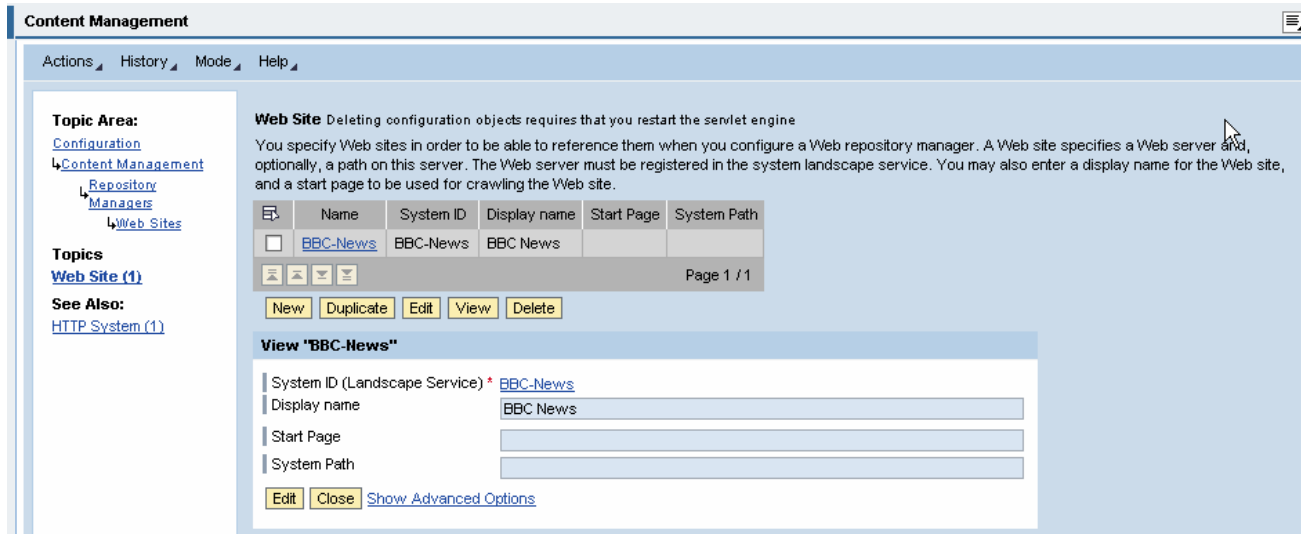
Server URL:

OK Apply Cancel Show Advanced Options

As an example Web page, the BBC News homepage was used. If you decide to make use of this page or any other public Web page, make sure that the page is called respecting the requested retrieval access delay. In addition, we recommend (especially for repeated testing) mirroring the content of any public Web page.

Web Site

The *Web site* is defined as follows:



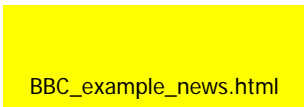
The screenshot shows the SAP Content Management interface for configuring a Web Site. The left sidebar contains a navigation tree with 'Web Sites' selected. The main area displays a table of Web Sites with columns for Name, System ID, Display name, Start Page, and System Path. Below the table is a form for editing the selected 'BBC-News' site, with fields for System ID, Display name, Start Page, and System Path.

For more information on related topics, see [Web Site](#).

Web Property Extractors

First take a look at a typical document on the *Web site* in question.

Below you can find a BBC Web document attached as an example:



Here is a screenshot of the relevant meta tag content:

```

<meta>
<title>BBC NEWS | Americas | US mine 'rescue' turns to tragedy</title>
<meta name="keywords" content="BBC, News, BBC News, news online, world, uk, international, foreign, british, online, service" />
<meta name="originalpublicationdate" content="2006/01/04 11:33:16" />
  <meta name="UKFS_URL" content="/1/hi/world/americas/4579754.stm" />
  <meta name="IFS_URL" content="/2/hi/americas/4579754.stm" />
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />

<meta name="Headline" content="us mine 'rescue' turns to tragedy" />
<meta name="Section" content="Americas" />
<meta name="Description" content="Families are distraught after it emerges that 12 US miners trapped underground had not all survived as reported." />
<link type="text/css" rel="stylesheet" href="/no1/shared/css/news_r4.css" />
<style type="text/css" media="all">
  @import "/shared/css/toolbar_banner.css";
</style>
<script src="http://newsimg.bbc.co.uk/no1/shared/js/no14.js" language="JavaScript" type="text/javascript"></script>
<script src="http://newsimg.bbc.co.uk/no1/ifs_news/js/av.js" language="JavaScript" type="text/javascript"></script>
</head>

```

HTML Properties

In line with this, create *HTML properties* for the *HTML meta tags* found (for example, *Headline*, *OriginalPublicationDate*, *Section*).

Content Management

Actions History Mode Help

Topic Area:
[Configuration](#)
[Content Management](#)
 ↳ [Repository Managers](#)
 ↳ [Web Property Extractors](#)
 ↳ [HTML Properties](#)

Topics
[HTML Property \(5\)](#)

HTML Property Deleting configuration objects requires that you restart the servlet engine

An HTML property definition specifies a property name and a procedure for generating the property value by analyzing the content of an HTML document. HTML properties are aggregated in HTML property extractors which can be used by Web repository managers. Use one of the "Select" fields to enter a comma-separated list of HTML tags or attributes whose values you want to extract. While "Select First" considers only the first occurrence of those tags, "Select All" considers all occurrences, as does "Select HREF". The latter rewrites the extracted values to be valid resource URIs in the repository's namespace. Use the "Exclude" field to enter a regular expression for the values you do not want to be extracted. You can also extract the values of HTML META tags with "Select First/All META". Specify the value of the name attribute, e.g. author, in the select method. The First/All META influences if the resulting property will be a single or multivalued. In the case of "First", only the value of the first META tag with that name will be extracted, all other values will be ignored.

<input type="checkbox"/>	Name	Case-insensitive	Select HREF	Exclude	Namespace	Property Name	Select All	Select All META
<input type="checkbox"/>	BBC-Headline				http://bbc	Headline		
<input type="checkbox"/>	BBC-IFS_URL				http://bbc	IFS_URL		
<input type="checkbox"/>	BBC-OriginalPublicationDate				http://bbc	OriginalPublicationDate		
<input type="checkbox"/>	BBC-Section				http://bbc	Section		
<input type="checkbox"/>	BBC-UKFS				http://bbc	UKFS_URL		

New Duplicate Edit View Delete

View "BBC-Headline"

Case-insensitive

Select HREF

Exclude

Namespace

Property Name

Select All

Select All META

Select First

Select First META

Edit Close

Combine all requested properties in a *Web property extractor*. Make sure you choose *Advanced Options* for further processing.

We recommend using a namespace for the respective properties. You can enter the *namespace* here. You can find instructions on setting up the *namespace* in the **Displayable and Searchable Properties** section. Make sure you do **not** use the alias, but the exact specification.

Web Property Extractors

Content Management

Actions History Mode Help

Topic Area:
[Configuration](#)
[Content Management](#)
 ↳ [Repository Managers](#)
 ↳ [Web Property Extractors](#)

Subareas
[Custom Properties](#)
[HTML Properties](#)
[Text Properties](#)

See Also:
[HTML Property \(5\)](#)
[Text Property](#)

Web Property Extractor Deleting configuration objects requires that you restart the servlet engine
 A property extractor comprises one or more HTML/Text/Custom property definitions. It can be used by Web repository managers to extract properties from the content of the accessed documents.

Name	HTML Properties	Text Properties
<input type="checkbox"/> BBC-Extractor	BBC-Headline, BBC-IFS_URL, BBC-OriginalPublicationDate, BBC-Section, BBC-UKFS	

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New Duplicate Edit View Delete

BBC-News > BBC-Extractor

View "BBC-Extractor"

HTML Properties *

Name
BBC-Headline
BBC-IFS_URL
BBC-OriginalPublicationDate
BBC-Section
BBC-UKFS

Page 1 / 1

Text Properties

Name
Not set

Page 1 / 1

Edit Close

For additional examples of defining HTML properties and Web property extractors, see [Web Property Extractors](#).

Web Repository

The Web repository gathers all previously configured settings for *system landscape ID*, *Web site*, *property extractors*, and *HTML properties*. In this example, a simple *memory cache* (*ca_websimple*) is used. This is fine for test purposes, but remember to configure an appropriate *memory cache* for your final configuration (especially for *Web repository managers*): [Caches](#)

Activate the *properties* repository service if you want to make use of *Classification* features as well. This scenario is not described here. For more information about this, see [Taxonomies and Classification](#).

Content Management

Actions History Mode Help

Topic Area:
[Configuration](#)
[Content Management](#)
[Repository Manager](#)

Topics
[BW Document Repository \(1\)](#)
[BW Metadata Repository \(1\)](#)
[Calendar Repository](#)
[CM Repository \(27\)](#)
[CmNemesisRepositoryManager \(1\)](#)
[File System Repository \(1\)](#)
[Reporting Repository \(1\)](#)
[Thumbnail Repository \(1\)](#)
[Virtual Root Repository \(1\)](#)
[Web Repository \(1\)](#)
[WebDAV Repository](#)

Related Areas
[Entry Point Providers](#)
[Web Addresses](#)
[Web Sites](#)

See Also:
[Memory Cache \(33\)](#)
[Web Site \(1\)](#)

Web Repository Deleting configuration objects requires that you restart the servlet engine

A Web repository manager provides read access to documents stored on remote Web servers. Once the repository contents are indexed, documents can be retrieved using search or category browsing. By default the settings of the landscape system 'DefaultProxy' are used. For error analysis or active configurations, you may want to look at the KM component monitor. The web repositories and their child objects offer runtime information as properties.

	Name	Description	Prefix	Services	Security Manager	ACL Manager Cache	Case-Sensitive URI Handling	Dynamic	Web Sites	HTML Property Extractors	Memory Cache
<input type="checkbox"/>	BBC-News	BBC-News	/BBC-News	properties			<input checked="" type="checkbox"/>	<input type="checkbox"/>	BBC-News	BBC-Extractor	ca_websimple

Page 1 / 1

New Duplicate Edit View Delete

View "BBC-News"

Description

Prefix (must start with /) *

Repository Services

Security Manager

ACL Manager Cache

Case-Sensitive URI Handling

Dynamic

Web Sites

HTML Property Extractors

Memory Cache *

Edit Close Show Advanced Options

Now your *Web repository* is alive and kicking.

For more information, see [Web Repository Manager](#).

Search Index

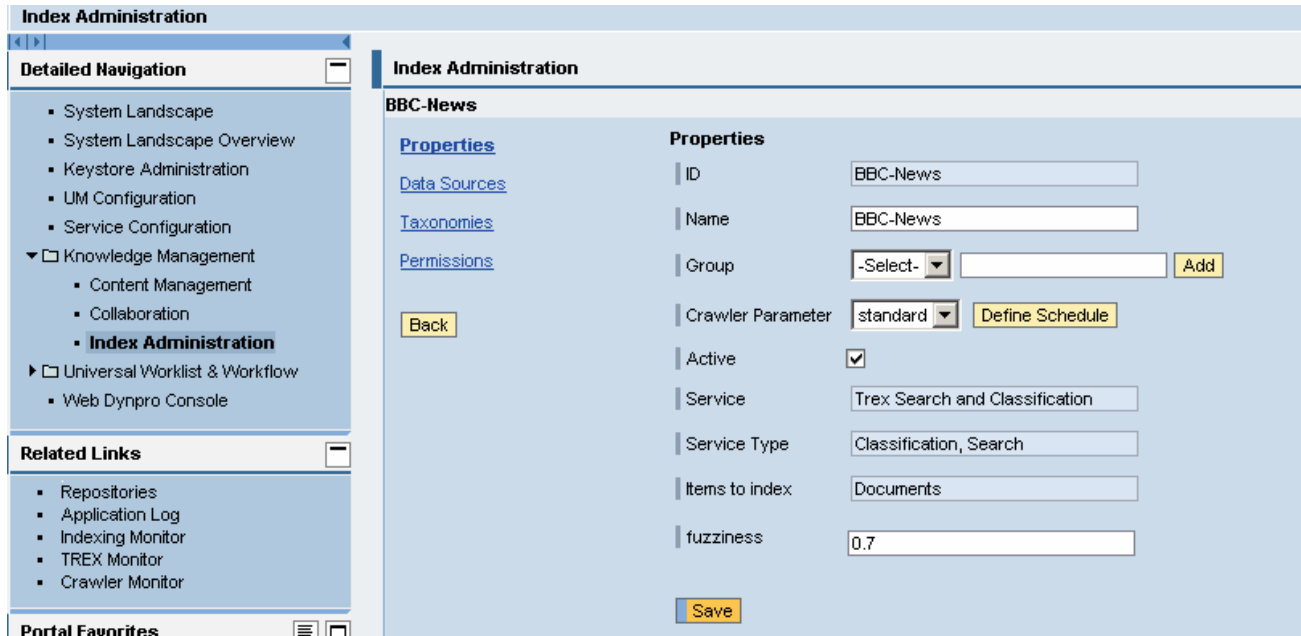
To access the *HTML* pages in the Web repository and their content, we need to define a *search index*. This starts a crawling process including the requested *HTML meta tag* property extraction.

By default, the *index administration* is located at:

System Administration → System Configuration → Knowledge Management → Index Administration

See also: [Index Administration](#)

Index Creation



The screenshot shows the 'Index Administration' interface. On the left is a navigation pane with sections: 'Detailed Navigation' (containing System Landscape, Keystore Administration, UM Configuration, Service Configuration, Knowledge Management, and Universal Worklist & Workflow), 'Related Links' (containing Repositories, Application Log, Indexing Monitor, TREX Monitor, and Crawler Monitor), and 'Portal Favorites'. The main area is titled 'Index Administration' and shows the configuration for an index named 'BBC-News'. Under the 'Properties' tab, the following fields are visible: ID (BBC-News), Name (BBC-News), Group (a dropdown menu with '-Select-' and an 'Add' button), Crawler Parameter (standard, with a 'Define Schedule' button), Active (checked), Service (Trex Search and Classification), Service Type (Classification, Search), Items to index (Documents), and fuzziness (0.7). A 'Save' button is at the bottom.

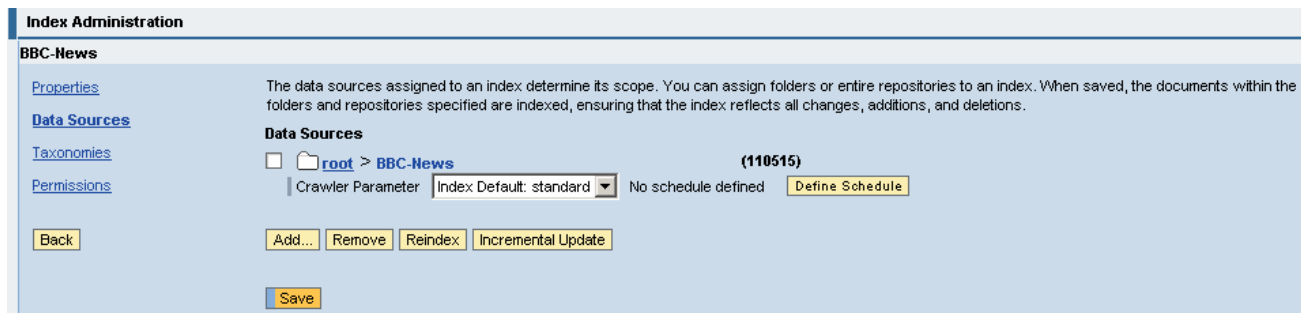
In this example, the *crawler parameter* is set to 'standard'. This is not necessarily a good selection, especially for public *Web repositories*. For more information, see the following links:

[Crawler and Crawler Parameters](#)

[Crawling and Indexing a Web Repository](#)

Attach the *Web repository* as a data source to the newly-created index.

Data Source



The screenshot shows the 'Data Sources' configuration for the 'BBC-News' index. A text box explains: 'The data sources assigned to an index determine its scope. You can assign folders or entire repositories to an index. When saved, the documents within the folders and repositories specified are indexed, ensuring that the index reflects all changes, additions, and deletions.' Below this, there is a section for 'Data Sources' with a tree view showing 'root > BBC-News (110515)'. A 'Crawler Parameter' dropdown is set to 'Index Default: standard', and it notes 'No schedule defined' with a 'Define Schedule' button. At the bottom, there are buttons for 'Add...', 'Remove', 'Reindex', 'Incremental Update', and 'Save'.

Within a short time, the crawler service starts to retrieve documents from the Web repository. Note that it takes some time before the documents are indexed. The indexing process can be monitored using the [Indexing Monitor](#) (available here as a *related link*).

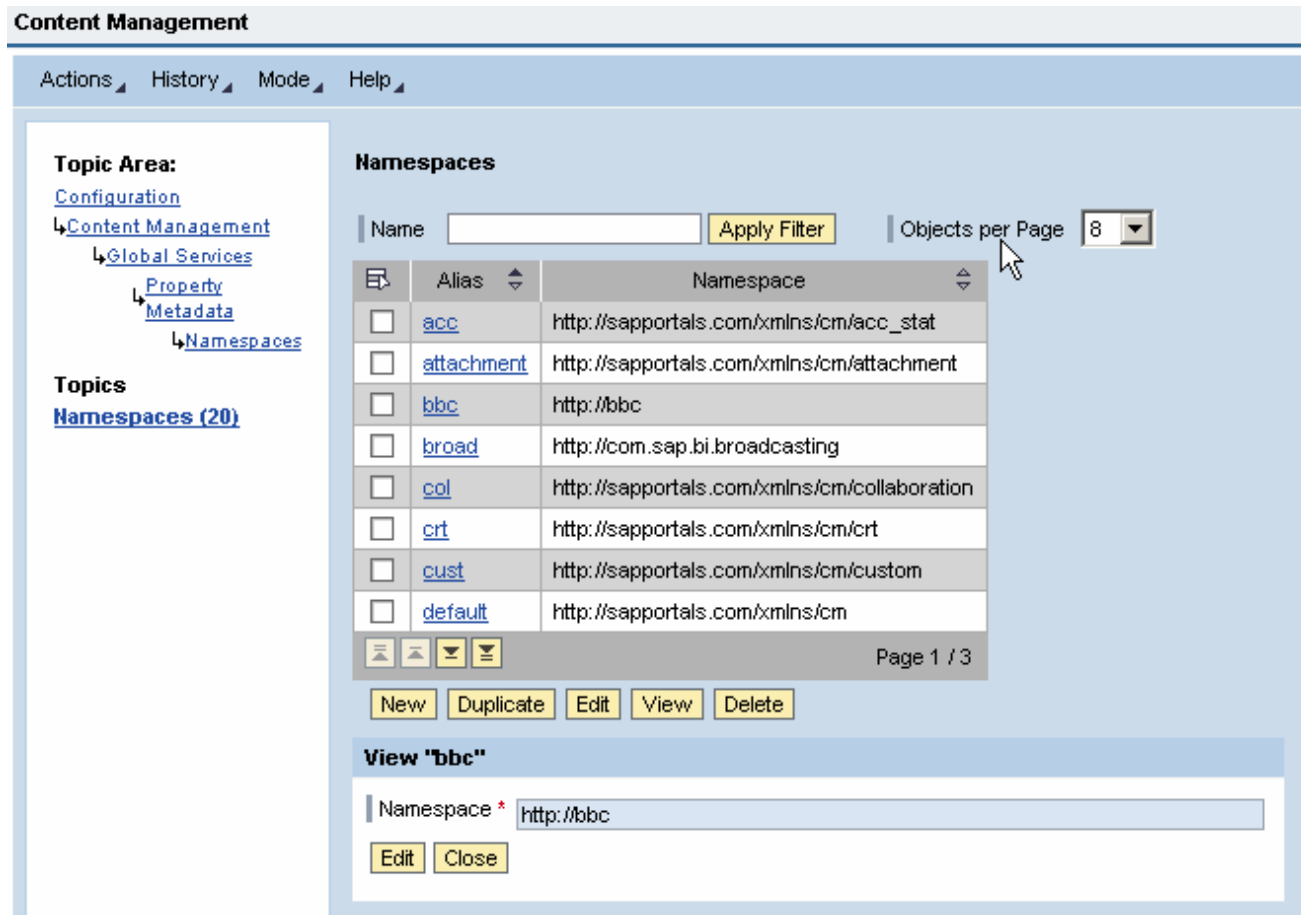
The default 'flush' time of the TREX server is 30 minutes, so do not expect documents to appear earlier, unless you change this setting using the [TREX Monitor](#).

Displayable and Searchable Properties

In order to publish the extracted Web properties, you must define additional property information.

We recommend using a separate *namespace* for the extracted properties:

Namespace



The screenshot shows the SAP Content Management interface for configuring namespaces. On the left is a navigation tree with 'Namespaces (20)' selected. The main area displays a table of namespaces with columns for 'Alias' and 'Namespace'. Below the table are buttons for 'New', 'Duplicate', 'Edit', 'View', and 'Delete'. A 'View "bbc"' dialog is open, showing the 'Namespace' field set to 'http://bbc'.

Alias	Namespace
acc	http://sapportals.com/xmlns/cm/acc_stat
attachment	http://sapportals.com/xmlns/cm/attachment
bbc	http://bbc
broad	http://com.sap.bi.broadcasting
col	http://sapportals.com/xmlns/cm/collaboration
crt	http://sapportals.com/xmlns/cm/crt
cust	http://sapportals.com/xmlns/cm/custom
default	http://sapportals.com/xmlns/cm

Properties



This partial screenshot shows the navigation tree with 'Property Metadata' selected under 'Global Services'.

View "Section"

Description	<input style="width: 95%;" type="text" value="Section"/>
Property ID *	<input style="width: 95%;" type="text" value="Section"/>
Namespace Alias *	bbc
Type *	<input style="width: 95%;" type="text" value="Text"/>
Group *	BBC
Mandatory	<input type="checkbox"/>
Multi-Valued	<input type="checkbox"/>
Read Only	<input checked="" type="checkbox"/>
Maintainable	<input type="checkbox"/>
Indexable	<input checked="" type="checkbox"/>
Default Value	<input style="width: 95%;" type="text"/>
Allowed Values (csv)	<input style="width: 95%;" type="text"/>
Key for Label	<input style="width: 95%;" type="text"/>
Meta Data Extension	<input style="width: 95%;" type="text" value="Not set"/>
Folder Validity Patterns (csv)	<input style="width: 95%;" type="text" value="/*"/>
Document Validity Patterns (csv)	<input style="width: 95%;" type="text" value="/*"/>
Resource Types (csv)	<input style="width: 95%;" type="text"/>

[Show Advanced Options](#)

Additionally, you can define a *property metadata group* (in this case, BBC) as a reference point for the properties. For more information about this, see [Property Metadata Service](#).

Integrate them in a *property structure* ([Property Structure Service](#)) as shown here:

Content Management

Actions ▾ History ▾ Mode ▾ Help ▾

Topic Area:
[Configuration](#)
 ↳ [Content Management](#)
 ↳ [Global Services](#)
 ↳ [Property Structures](#)
 ↳ [Property Groups](#)

Topics
[Property Group \(18\)](#)

See Also:
[Groups \(18\)](#)

Property Group

Apply Filter Objects per Page

	Name	Description	
<input type="checkbox"/>	access links		rnd:path,id,rnd:shortID,rnd:content
<input type="checkbox"/>	all groups		BBC,system,custom,rendering,lifel
<input type="checkbox"/>	AppContactPersonOverview	Contact person information	col:app_people_contact_person_f
<input type="checkbox"/>	BBC		
<input type="checkbox"/>	custom		
<input type="checkbox"/>	default		
<input type="checkbox"/>	ice offer component group		cm_ice_content-path,cm_ice_targ
<input type="checkbox"/>	lifetime		tbp:VALIDFROM,tbp:VALIDTO

New Duplicate Edit View Delete

View "BBC"

Description

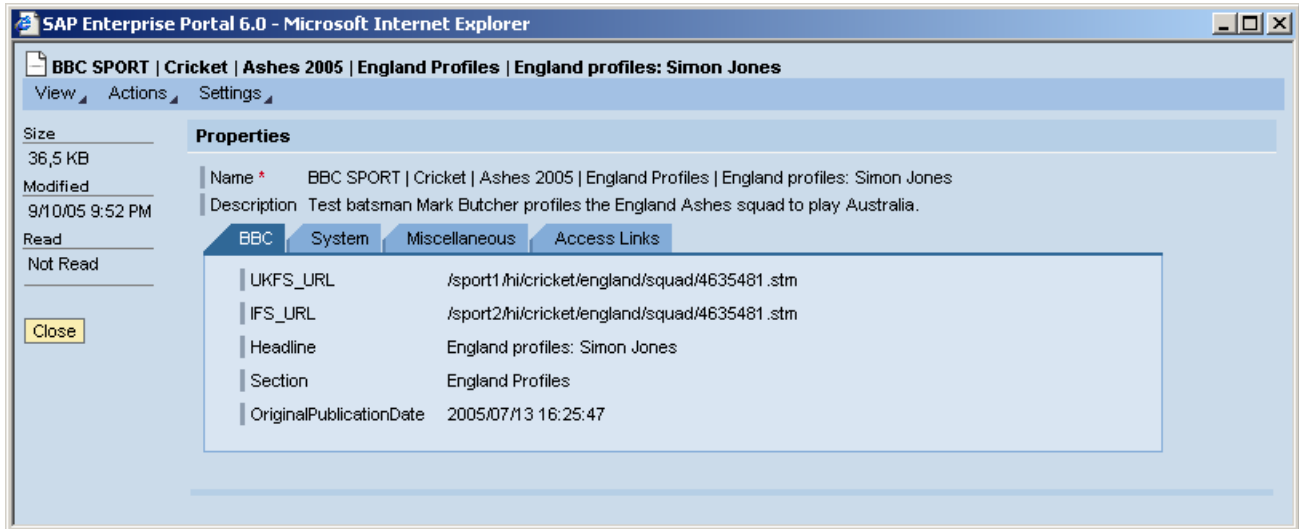
Group Items

Key for Label

Bundle File

Edit Close [Show Advanced Options](#)

Now the extracted properties are displayed in the *Details* → *Properties* window.



Search Dialog

As an example, two properties should appear in the customized search dialog: *Headline* and *Section*.

You must define a *search option set*.

Topic Area:

[Configuration](#)

↳ [Content Management](#)

↳ [User Interface](#)

↳ [Search](#)

View "BBC_Search"

Description	UI parameter configuration for BBC search
Initial Display of Search Options	<input checked="" type="checkbox"/>
Enable Large Search Field	<input type="checkbox"/>
Close Options After Search	<input type="checkbox"/>
Enable Search Options	<input checked="" type="checkbox"/>
Enable Further Search After Quick Search +	<input checked="" type="checkbox"/>
Enable Search Scope Selection	<input type="checkbox"/>
Default Search Scope *	INDEXES
Search Index IDs (csv)	
Index Groups (csv)	
Root Folders for Search (Scope = FOLDER) (csv)	
Enable Selection of Search Method	<input type="checkbox"/>
Default Search Method *	AUTOMATIC
Enable Standard Properties	<input type="checkbox"/>
Enable Result Parameters	<input type="checkbox"/>
Enable Cascading Search	<input checked="" type="checkbox"/>
Enable Sorting of Search Results	<input checked="" type="checkbox"/>
Default Sorting Mode *	DESCENDING
Default Property for Sorting	cm_rnd_rankvalue
Allowed Sort Properties	<div style="border: 1px solid #ccc; padding: 5px;"> <p style="text-align: right; margin: 0;">Unique ID ↕</p> <p>cm_contentlength</p> <p>cm_displayname</p> <p>cm_modified</p> <p>cm_modifiedby</p> <p>cm_rnd_rankvalue</p> <p>Section</p> <p style="text-align: right; margin: 0;">Page 1 / 1</p> </div>
Enable Item Selection	<input checked="" type="checkbox"/>
Default Item Selection *	ALL
Enable Language Selection	<input type="checkbox"/>

Default Search Language Selection *	ALL							
Additional Search Properties +	<table border="1"> <thead> <tr> <th>Unique ID</th> </tr> </thead> <tbody> <tr> <td>Headline</td> </tr> <tr> <td>Section</td> </tr> </tbody> </table>	Unique ID	Headline	Section				
Unique ID								
Headline								
Section								
Show Related Terms	<input type="checkbox"/>							
Max. No. of Related Terms *	6							
Max. No. of Words in Snippet * +	30							
Max. No. of Search Results per Page *	10							
Enable No. of Categories Selection +	<input type="checkbox"/>							
Max. No. of Categories * +	0							
Enable Predefined Properties	<input checked="" type="checkbox"/>							
Predefined Properties (csv)	Section,Headline							
Fixed No. of Rows for Predef. Properties *	2							
Allowed Predefined Properties	<table border="1"> <thead> <tr> <th>Unique ID</th> </tr> </thead> <tbody> <tr> <td>cm_contentlength</td> </tr> <tr> <td>cm_created</td> </tr> <tr> <td>cm_createdby</td> </tr> <tr> <td>cm_displayname</td> </tr> <tr> <td>cm_modified</td> </tr> <tr> <td>cm_modifiedby</td> </tr> </tbody> </table>	Unique ID	cm_contentlength	cm_created	cm_createdby	cm_displayname	cm_modified	cm_modifiedby
Unique ID								
cm_contentlength								
cm_created								
cm_createdby								
cm_displayname								
cm_modified								
cm_modifiedby								
Enable Custom Properties	<input type="checkbox"/>							
Custom Properties (csv)								
Fixed No. of Rows for Custom Properties *	0							
Show No. of Hits	<input type="checkbox"/>							
Enable Web Repository Access +	<input type="checkbox"/>							
<input type="button" value="Edit"/> <input type="button" value="Close"/> Hide Advanced Options (+ denotes advanced options)								

One option is to select properties with real meanings to be recognized during search (*Additional Search Properties* in *Advanced Options*). Properties with short string based values may be interesting as *allowed sort properties*. For more information, see [Search Options](#).

Note that so far all extracted properties are created with the type *Text*. Other types (Integer, String, Date, and so on) are not supported to date.

As an example for convenience, *allowed values* were introduced for the *Section* property.

Search Results List

In modifying the relevant search results list layout set, you might as well display the extracted properties in the search results.

Layout

Content Management

Topic Area:
[Configuration](#)
 ↳ [Content Management](#)
 ↳ [User Interface](#)
 ↳ [Settings](#)
 ↳ [Collection](#)
 ↳ [Renderer](#)
 ↳ [Settings](#)

Topics
[Basic Breadcrumb](#)
[Renderer Settings \(7\)](#)
[Basic Collection](#)
[Renderer Settings \(9\)](#)
[Collection Grid Renderer](#)
[Settings \(21\)](#)
[Collection List Renderer](#)
[Settings \(60\)](#)
[Collection Renderer](#)
[Settings \(43\)](#)
[Collection Tree Renderer](#)
[Settings \(9\)](#)

See Also:
[UI Command Groups](#)
 (318)
[Resource List Filter](#) (9)

Search Result Renderer Settings +

Settings for search result renderer

	Name	Description	Flavor	Breadcrumb Style
<input type="checkbox"/>	AlignmentSearchResultRenderer	Alignment renderer for search results		
<input type="checkbox"/>	BBCSearchResultRenderer	Standard renderer for search results		
<input type="checkbox"/>	StandardSearchResultRenderer	Standard renderer for search results		

View "BBCSearchResultRenderer"

Description	Standard renderer for search results
Flavor	Not set
Breadcrumb Style	
Breadcrumb Visibility Style	
Mass Actions Style	off
Mass Command Group	Not set
Collection Renderer	SearchResultListRenderer
Collection Command Group	Not set
Command Style for Root	off
Show Folder Name	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not set
Displayed Properties	rnd:icon(space-right=10/alignTop/alignLeft),rnd:displayname(contentLink.[1,2,3])
Column Header Coloring	off
Number of Columns	
Column Spacing	px
Folders Selection	
Links Selection	
Item Selection Mode	off
Command Display	

[Show Advanced Options](#)

The *displayed properties* could look as follows:

```
rnd:icon(space-right=10/alignTop/alignLeft),rnd:displayname(contentLink/[1;2-3]/alignTop/space-right=30) +
rnd:action(/alignTop), rnd:thumbnail(/noicons/alignTop/height=30),
```

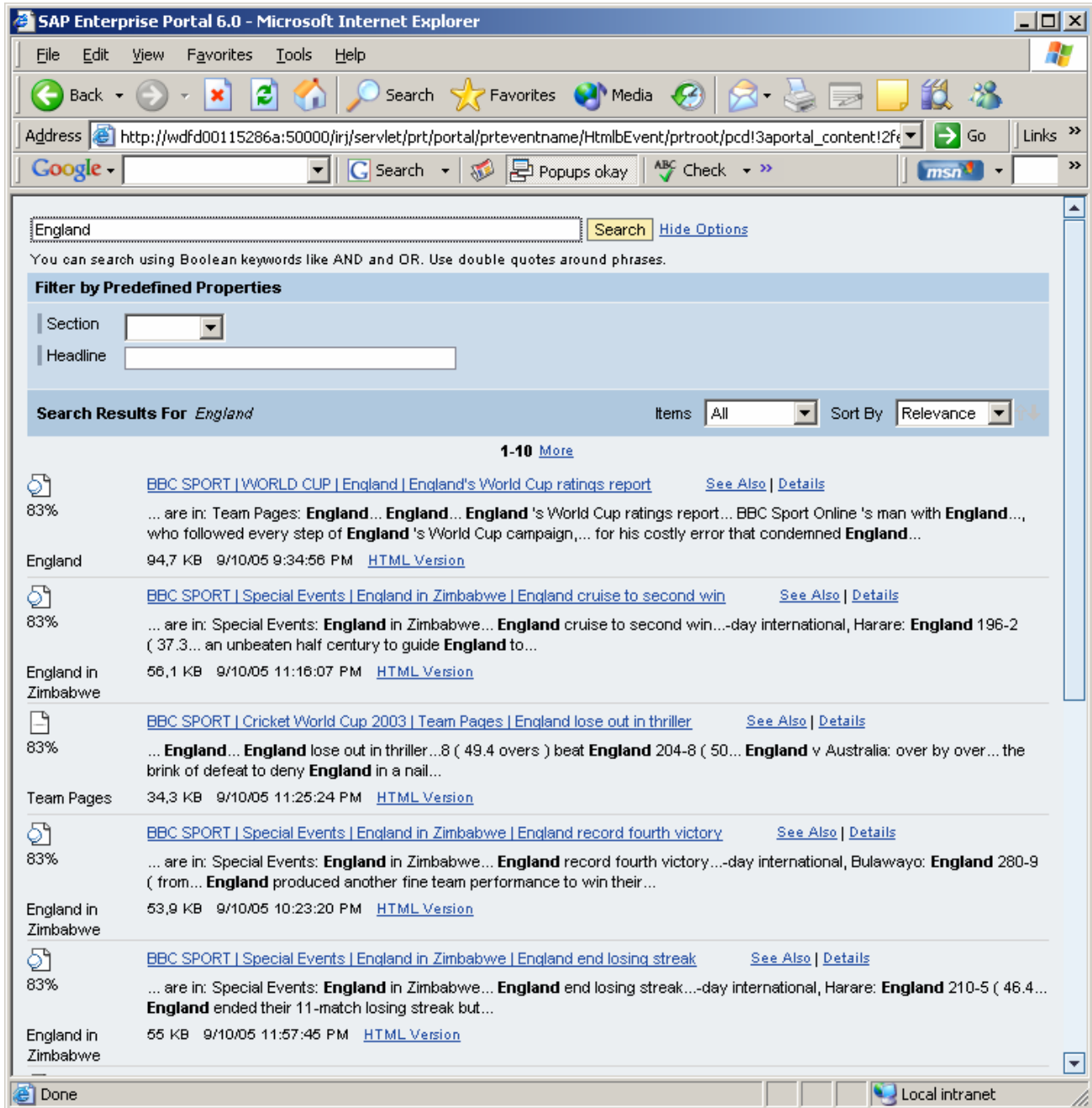


```
rnd:rankvalue([2;1]/alignLeft/alignTop/noColumnSpacing/space-right=10),rnd:documentabstract([2;2-9]/alignTop/primaryTextStyle),
```

```
bbc:Section([3;1]/noColumnSpacing/alignTop/alignLeft/spaceright=3),modifiedby([3;2]/alignTop/alignLeft/secondaryTextStyle/space-right=10) + contentlength(secondaryTextStyle/alignTop/space-right=10) + modified(secondaryTextStyle/alignTop/space-right=10) + rnd:highlighted_contentlink(space-right=10/alignTop/secondaryTextStyle),rnd:categories([4;2-9]/alignTop/space-right=10)
```

Attach this *search result renderer settings* to the responsible *layout set* for the search (default: *SearchResultLayoutSet*). For more information about the possibilities with *layout sets*, see the [User Interface](#) documentation.

Examples



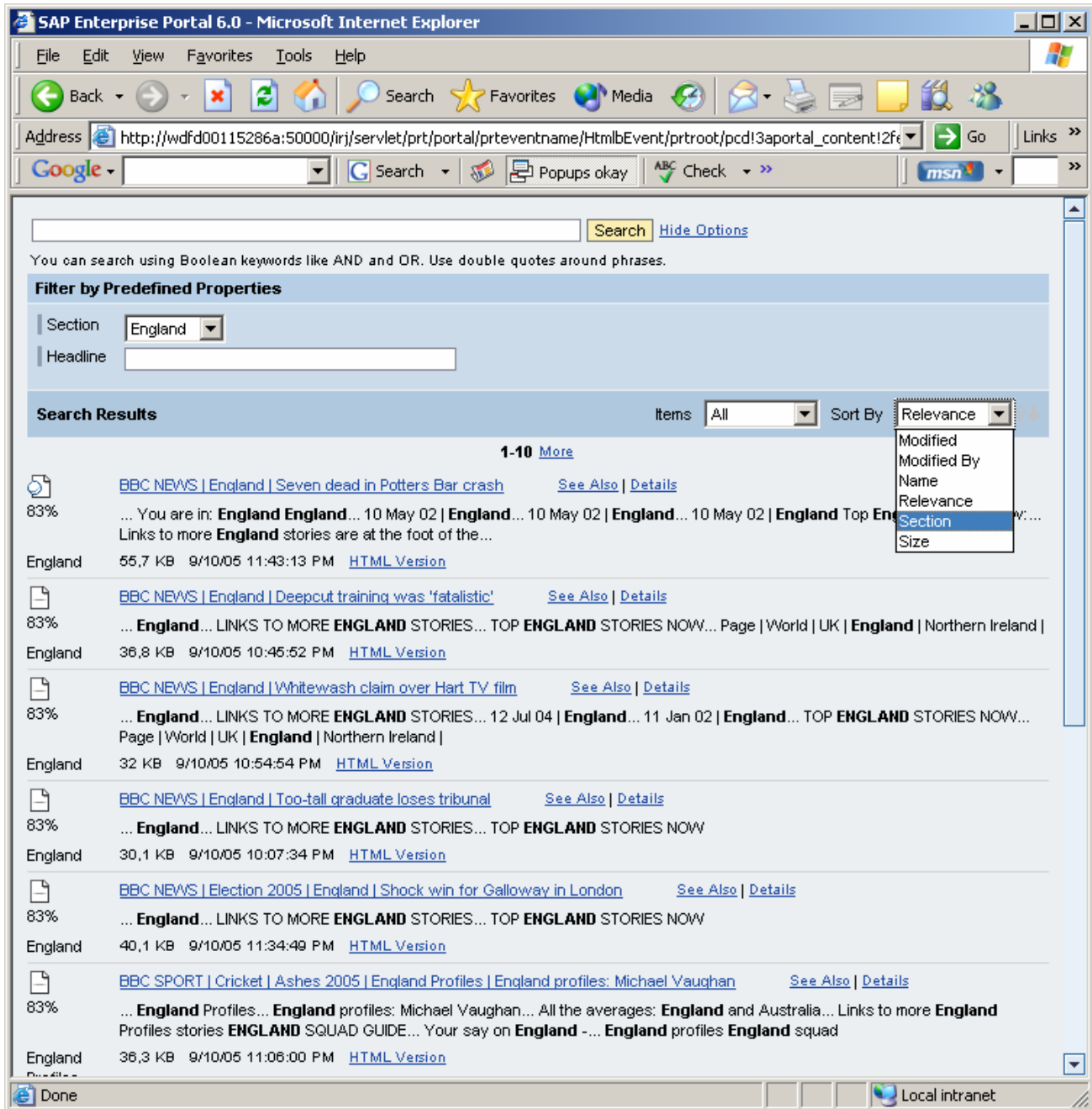
The screenshot shows a Microsoft Internet Explorer browser window displaying the SAP Enterprise Portal 6.0 search interface. The search term 'England' is entered in the search box, and the results are filtered by predefined properties. The search results list several articles from BBC Sport, including reports on England's World Cup ratings, their performance in Zimbabwe, and their record in the Cricket World Cup 2003.

Search Results for England

Items: All Sort By: Relevance

1-10 More

Thumbnail	Section	Headline	Size	Date	HTML Version	See Also	Details
	BBC SPORT WORLD CUP England	England's World Cup ratings report	94,7 KB	9/10/05 9:34:56 PM	HTML Version	See Also	Details
	BBC SPORT Special Events England in Zimbabwe	England cruise to second win	56,1 KB	9/10/05 11:16:07 PM	HTML Version	See Also	Details
	BBC SPORT Cricket World Cup 2003 Team Pages	England lose out in thriller	34,3 KB	9/10/05 11:25:24 PM	HTML Version	See Also	Details
	BBC SPORT Special Events England in Zimbabwe	England record fourth victory	53,9 KB	9/10/05 10:23:20 PM	HTML Version	See Also	Details
	BBC SPORT Special Events England in Zimbabwe	England end losing streak	55 KB	9/10/05 11:57:45 PM	HTML Version	See Also	Details



SAP Enterprise Portal 6.0 - Microsoft Internet Explorer

Address: http://wdf00115286a:50000/irj/servlet/prt/portal/prtEventname/HtmlbEvent/prtroot/pcd!3aportal_content!2fe

Search: Search Hide Options

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

Filter by Predefined Properties

Section:
 Headline:

Search Results Items: Sort By:

1-10 [More](#)

- BBC NEWS | England | Seven dead in Potters Bar crash** [See Also](#) | [Details](#)

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Done Local intranet

Author Bio



Dr. Matthias Roebig-Landau is a Knowledge Management developer and a member of the project responsible for the KM Search and Classification user interface and TREX connectivity.