Adding New Objects To The :::fast Search Engine

An Oracle "How To" Paper

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WHYDoTHIS?

The Siebel 8.0 demonstration environment has 34 objects indexed for the FAST InStream search engine. Other verticals, such as Public Sector, need more objects available for searching – Cases, Incidents, Leads and Evidence, for example. This document shows the way to accomplish this quickly and without faltering and stumbling along the path of enlightenment.

HOWTOSTEPS

Overview:

- Add the objects to an XML file.
- Add objects in the Administration Search view: Search Definition.
- Add available fields to the Search Definition in the Administration – Search view: Search Indices
- Index the Objects.
- Search the Objects.

XMLFILE

Located in the lovely /sea/siebsrvr/bin directory is the file, SIA_SCC_Field-Mappings.xml. Make a backup and edit this file. Here is an example of how we added the Case object:

```
X
```



```
nv-name="sblcreationdatednavigator"
           ui- name=""/>
    <field bc-name="Created By"</pre>
           ip-name="sblcreatedby"
           nv-name="sblcreatedbynavigator"
           ui-name=""/>
    <field bc-name="Updated"
           ip-name="sbllastupdatedate"
           nv-name="sbllastupdatedatenavigator"
           ui-name=""/>
    <field bc-name="Updated By"</pre>
           ip-name="sbllastupdatedby"
           nv-name="sbllastupdatedbynavigator"
           ui-name=""/>
    <field bc-name="Name"
           ip-name="title"
           nv-name="titlenavigator"
           ui-name="Name"/>
    <field bc-name="Description"</pre>
           ip-name="description"
           nv-name=""
           ui-name="Description"/>
    <field bc-name="Case Num"</pre>
           ip-name="textid"
           nv-name="textidnavigator"
           ui-name="Case Number"/>
    <field bc-name="Serial Number "</pre>
           ip-name="sgenfield00"
           nv-name="sqenfield00navigator"
           ui-name="Serial #"w/>
</BusComp>
```

where:

- field bc-name refers to the name of the business component's field that you wish to expose to the search administration view.
- Ui-name refers to the name of the field for the user interface.
- Ip-name is the Index-Profile name specified in the Index-Profile file.
- Nv-name refers to the name for navigational purposes.

Index profile fields are defined in the SSC_Index-Profile.xml file on the FAST server. These index profile fields are mapped to Business Component fields and Connectors in SSC_Field-Mappings.xml, to define searchable objects. The index profile fields are re-usable for mapping across Business Component fields and Connectors, therefore you should not need to create additional index profile fields. We didn't. We only mention it so that the reader knows the source of the values of the ip-name field, all of which are listed in the following table:



Field Name	Data Type	Description
author	String	Recommended for mapping to String fields, such as author, owner, user, or name.
body	String	Recommended for mapping to main content field.
description	String	Recommended for mapping to generic descriptive fields, such as comments, FAQ or details.
dgenfield00	Decimal	Recommended for mapping to any monetary or decimal field.
dgenfield01	Decimal	Recommended for mapping to any monetary or decimal field.
dtgenfield00	Date	Recommended for mapping to date or time fields.
dtgenfield01	Date	Recommended for mapping to date or time fields.
igenfield00	Integer	Recommended for mapping to whole number fields.
igenfield01	Integer	Recommended for mapping to whole number fields.
Keywords	String	Recommended for mapping to user-defined keywords field only.
location	String	Recommended for mapping to site, directory, or path fields.
namelist	String	Only to be used for 1:M field mapping.
sblbctype	String	Only to be used for mapping to Business Component name.
sblcollectionname	String	Only to be used for mapping to Logical Collection name.
Sblcreatedby	String	Only to be used for mapping to Siebel CreatedBy system field.
sblcreationdate	Date	Only to be used for mapping to Siebel Created system field.
Sbldescription	String	Recommended for mapping to any description or comments fields.
sblemailaddress	String	Recommended for mapping to email address fields.
sblfirstname	String	Recommended for mapping to first name fields.
sbllastname	String	Recommended for mapping to last name fields.
sbllastupdatedby	String	Only to be used for mapping to Siebel LastUpdatedBy system field.
Sbllastupdatedate	Date	Only to be used for mapping to Siebel LastUpdated system field.
Sblname	String	Recommended for mapping to name fields.
Sblphonenumber	String	Recommended for mapping to phone, fax, cell phone or pager number fields.
sblrowid	String	Only to be used for mapping to RowId system field.
sblstatus	String	Recommended for mapping to status fields.
sbluserid	String	Recommended for mapping to any String field.
Sblvisibilityid	String	Only to be used for mapping to Organization field or other equivalent visibility controller field.



Field Name	Data Type	Description
sblvisibilityinfo	String	Only to be used for mapping to Organization Information field or other equivalent visibility information field.
sblzipcode	String	Recommended for mapping to zip-code, postal-code or pincode fields.
sgenfield00	String	Recommended for mapping to any String field.
sgenfield01	String	Recommended for mapping to any String field.
sgenfield02	String	Recommended for mapping to any String field.
sgenfield03	String	Recommended for mapping to any String field. This field is not mapped out of the box, therefore it can be mapped to any new or existing String field.
sgenfield04	String	Recommended for mapping to any String field. This field is not mapped out of the box, therefore it can be mapped to any new or existing String field.
sgenfield05	String	Recommended for mapping to any String field. This field is not mapped out of the box, therefore it can be mapped to any new or existing String field.
Sgenlist	String	For 1:M mapping only.
Summary	String	Recommended for mapping to any summary or descriptive String field, such as Comments, FAQ or Details fields.
taxonomy1	String	Only to be used for taxonomical fields.
taxonomy2	String	Only to be used for taxonomical fields.
taxonomy3	String	Only to be used for taxonomical fields.
Textid	String	Recommended for mapping to ID fields.
Title	String	Recommended for mapping to the Business Component field which should serve as the search results title field.

Note: at a minimum you must have the BC Name and Id fields for indexing to work (in addition to your searchable fields). After saving the XML file to the appropriate location (you did make a back-up, right?) load it into Internet Explorer to see if the XML is well formed. If it doesn't display properly in Internet Explorer, find your error and correct it.



ADMINISTEROBJECTS

Launch the Siebel Application; mobile web client is okay. Go to the Administration - Search screen view, Search Definition, ensure the Call Center definition is selected and add the appropriate categories as shown in Figure 1.

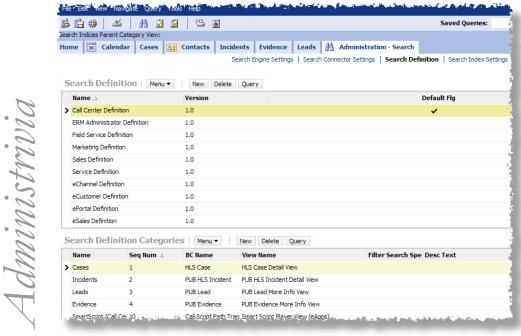


Figure 1: Administration Search - Search Definition View.

Note: be positively absolutely sure your values for the Name field match exactly with the name you specified in the XML file. Add the appropriate Search Indices Settings as in Figure 2:

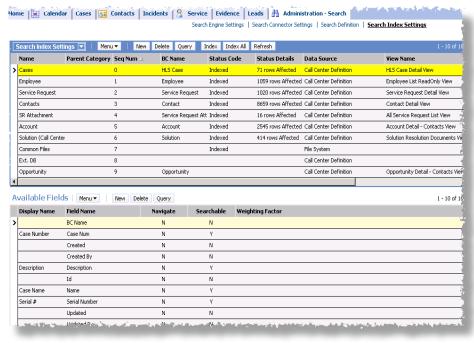


Figure 2: Administration Search - Search Index Settings View.



Ensure that you have added the correct Business Component for all of the Available fields. If you wish to search on a field you need to enter the display name and check the Searchable box.

To reiterate - there are several machinations that demand your attention: the Name field, "Cases" must match that of the declaration in the XML file; the BC name must be correct and all of the fields that you add to the Field Name field in the Available Fields Applet must exist. The Display Name is what will appear in the Search applet.

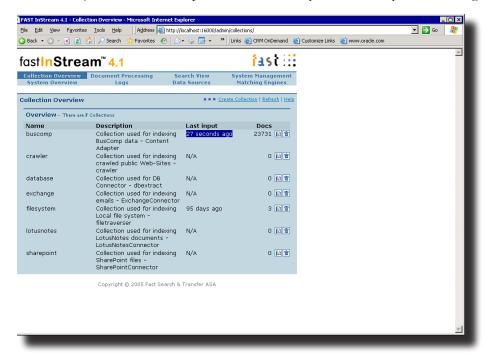
INDEXOBJECTS

Once you have added the Available fields, highlight the record in the top applet, "Cases", as shown in Figure 2 and click on the "Index" button. Never click on Index All.

Go to the FAST Search Adminstration Screen:

http://localhost:16000/admin/collections/

This is saved as a Favorites entitled: "FAST InStream 4.1 Admin". With the Collection Overview highlighted you should see a recent time (on the order of seconds) in the "Last input" column and you will see your indexing



process has begun. This means that you are indexing your new object. Another check of the "Matching Engines>srchhost" should show the Variable – Not indexed/Invalid documents as non-zero. THIS TAKES SOME TIME AND IS NOT IMMEDIATE. When this number is zero the indexing is complete. Refer to the video, **Search – FAST Instream Administration** on DVD 6.

We recommend you view the videos on DVD 6 and the TOIs listed in the References. They are quite helpful.



SEARCHOBJECTS

Test your new object by running a search without any search specifications as in Figure 3. The number returned should match the number indexed in the Administration - Search, Search Index Settings View.

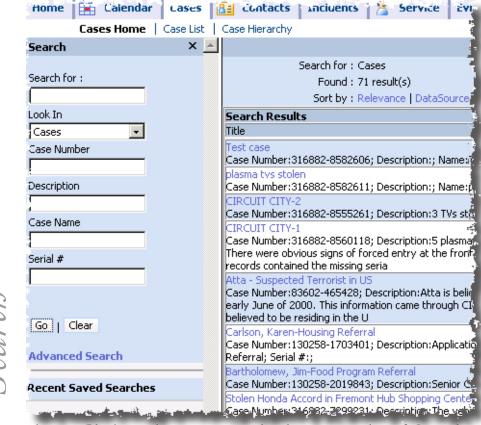


Figure 3: Blank search returns 71 results, the same number of Cases that were indexed.



BESTPRACTICES

Don't try to add everything at once; take your time and during your first attempt only add a few fields; this makes it much easier to debug.

Don't rush the indexing; be patient and monitor the progress through the FAST Search administration view.



In the demo launcher, the Search Processing group is not required (it is used for automatic refresh of indices).

It is a good idea to keep the Siebel server down

You don't have to bounce the FAST engine.

You'll want to be comfortable that the indexing is proceeding. Make sure you get the Indexed field back in Siebel saying how many records are indexed. Even then the indexing may not have completed yet. If you go into the FAST Admin console you can monitor to some extent what it is doing and see if the overall record number increases as in the video (see References section at the end of this document).

Make sure you have the two FAST InStream services started.

Never use the "Index All" button (at least for this version) you'll likely break everything. You'll only need to index the new objects.

We suggest you leave the Siebel App Server shutdown, log into the application with the windows client to kick off an index

Don't index one object after another. Index one, wait and test, once successful index the next.

And once again start simple with your object.

BACKGROUNDINFORMATION

Gartner Says...

In the past two years, Autonomy acquired Verity; IBM acquired iPhrase Technologies and announced its WebSphere Content Discovery Server; Oracle acquired TripleHop Technologies and announced its Oracle Secure Enterprise Search 10g; and Microsoft and SAP both announced significant investments in search capabilities. Autonomy, FAST, and Endeca offer the broadest set of capabilities across their platforms and have had the most success across a broad range of solution areas. FAST has rapidly gained market share relative to competitors but Autonomy will be a contender with its large market presence and sales force and excellent professional services organization. Endeca's quality product has helped spur quarterly revenue growth.

Google, IBM, Microsoft, and Entopia were strong performers with good success in one or two enterprise search solution areas. Google, IBM, and Microsoft will be the ones to watch in corporate search, in which companies use the products for searching across medium-to small-scale document repositories, collaboration systems, portals, and intranets, and in which high-volume query processing, indexing speeds, and capacities are not required. Corporate search will see significant price declines in the future as search becomes more commoditized.

REFERENCES

Vatch This

Siebel Search Administration Guide Version 8.0, Rev. A

DVD 6 – Search – FAST Instream Administration (48 minutes) - This video provides information on the 3rd party enterprise search engine FAST Instream newly integrated with Siebel 8.0. It replaces the previous Hummingbird Fulcrum engine and covers information on the administrative configuration and indexing information specific to the demonstration platform.

DVD 6 – Search – FAST Instream Client (17 minutes) - This video demonstrates Siebel enterprise search functionality for Siebel employee and customer applications with functional configurations and some observations specific to the deployment on the demonstration platform.

Online TOIs: http://ouweb.us.oracle.com/siebel/TOIs_8-0.html

8.0: Siebel Search Administration Functional Overview (14 minutes) by Hari Gutlapalli

8.0: Siebel Search Configuration and Execution Functional Overview (32 minutes) by Hari Gutlapalli.



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