

Textual Index

- Textual Index
- Operation

Textual Index

Introduction

A textual index is a data structure used in database systems to facilitate efficient search and retrieval of text-based information. It is designed to handle large volumes of textual data and provide quick access to relevant documents or records based on specified search criteria.

When a search query is performed on a database with a textual index, the index is queried to identify relevant documents or records that match the search terms. The index provides information about the location and relevance of the documents, which enables the database system to retrieve and present the results in a timely manner.

Textual indexes play a crucial role in enabling efficient search and retrieval of textual information in databases, making them an essential component in applications that handle large volumes of textual data, such as search engines, content management systems, and document repositories.

Soffid incorporates the textual index from version 3.5 using [the Apache Lucene library](#).

Index configuration

Soffid allows you to configure the objects you want to use in the textual index. To do this, you must select the proper object from the metadata page and enable the option "Use textual index". Once you enable this option, the textual index will be applied to the attributes of this object that have been included in the quick search.

Notice, from the user interface, it is not interpreted as a Lucene expression.

Example

1. Enable the "Use textual index" on the User object and save the changes.

soffid Search ?

Main Menu > Administration > Configuration > Global Settings > Metadata 9 / 12

Object type : com.soffid.iam.api.User

Description : Builtin user object

Use textual index : Yes III

Code	Label	Data type	Built-in type
Filter	Filter	Filter	Filter
__COMMONATTRIBUTES__	Common attributes	Separator	Yes
userName	User name	String	Yes
firstName	First name	String	Yes
lastName	Last Name	String	Yes
middleName	Middle name	String	Yes

2. Check the attributes included in the quick search.

soffid Attribute metadata ?

Main Menu > Administration > Configuration > Global Settings > Metadata 2 / 31

Object type : com.soffid.iam.api.User

Description : Builtin user object

Use textual index : Yes III

Code : userName

Label : User name

Data type : String

Letter case : Keep as entered by the user

User hint : User hint

Description : Description

Required : Yes II

Include in quick search : Yes II

Prevent duplicated values : II No

Multiple values : II No

Maximum number of rows to display : Maximum number of rows to display

How does the user interface search work?

Once you have configured the textual index for a specific object, Soffid will apply it when you use Quick Search on this object.

Example 1

1. If you search for users using the text "frankin", then Soffid will display all the users whose userName, firstName, lastName, or middleName match, to some degree, with the typed text following the textual index rules.

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 5

2. If you include the attribute manager in the quick search:

soffid

Attribute metadata

15 / 32

Object type :

Description :

Use textual index :

☐ Code

Filter

☐ rid
 ☐ fullName
 ☐ birthDate
 ☐ picture
 ☐ __ORGANIZ
 ☐ userType

Code :

Label :

Data type :

User hint :

Description :

Required :

Include in quick search :

Prevent duplicated values :

Multiple values :

Maximum number of rows to display :

manager

Manager

User

User hint

Description

☐ Yes ☐ No

☒ Yes ☐ No

☐ Yes ☐ No

3. And search for "frankin", then Soffid will display all the users whose userName, firstName, lastName, middleName, or manager match with the typed text following the textual index rules.

soffid

Search

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⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 8

Example 2

1. If you search for users using the text "manager:frank" Soffid will display all users whose manager matches the text "frank".

soffid

Search

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⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

≡

manager:frank

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[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

Notice the difference by searching "manager:frank?":

soffid

Search

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⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

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manager:frank?

🔍

[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 2

And by searching "manager:frank*":

soffid

Search

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⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

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manager:frank*

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[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

And also by searching "manager:fr*"

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Search

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

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manager:fr*

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[Quick](#)
[Basic](#)
[Advanced](#)

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	etaylor	Elizabeth Taylor	Movie Stars	Yes	Elizabeth	Taylor	freddie
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 5

Example 3

1. If you search for users using the text "userName:frank*" Soffid will display all users whose user name matches the text "frank" followed by any other text.

soffid

Search

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	frank	Frank Sinatra	Music	Yes	Frank	Sinatra	
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 3

Notice the difference by searching the text "userName:frank?":

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Search

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 2

Example 4

- If you search for users using the text "frank" plus the wildcard "?", Soffid will display all users whose userName, firstName, lastName, middleName, or manager match the typed text as long as it has variation in the characters where the wildcard has been used.

soffid

Search

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⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 6

Notice the difference by searching "fran?"

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 9

How does the SCIM interface search work?

1. First of all, you must install the SCIM addon in Soffid.

For more information, you can visit [the How to install SCIM in Soffid? page](#).

2. Then, you can use any REST client to test and consume our SCIM REST web service.

For more information, you can visit [the Testing tool page](#).

3. Finally, you can start to use the SCIM interface search by using Lucene syntaxis

Lucene syntaxis

Please browse the standard specifications in this link:

<https://bookstack.soffid.com/books/soffid-3-reference-guide/page/lucene-query-parser-syntax>

Term Modifiers

Lucene supports modifying query terms to provide a wide range of search options. Here are the most common ones:

Wildcard Searches	To perform a single character wildcard search use the "?" symbol. To perform a multiple character wildcard search use the "*" symbol.
Regular Expression Searches	Lucene supports regular expression searches matching a pattern between forward slashes "/"

Fuzzy Searches	<p>To do a fuzzy search use the tilde, "~", symbol at the end of a Single word Term</p> <p><u>Soffid Console <= 3.4 version</u></p> <p>~0.8: stricter search</p> <p>~0.1: more lax search</p> <p><u>Soffid Console > 3.4 version</u></p> <p>An additional (optional) parameter can specify the maximum number of edits allowed. The value is between 0 and 2.</p>
Range Searches	<p>Range Queries allow one to match documents whose field(s) values are between the lower and upper bound specified by the Range Query</p>
Boosting a Term	<p>To boost a term use the caret, "^", symbol with a boost factor (a number) at the end of the term you are searching. The higher the boost factor, the more relevant the term will be.</p>

Boolean Operators

OR	The OR operator links two terms and finds a matching document if either of the terms exist in a document. This is equivalent to a union using sets
AND	The AND operator matches documents where both terms exist anywhere in the text of a single document. This is equivalent to an intersection using sets.
+	The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document.
NOT	The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets.
-	The "-" or prohibit operator excludes documents that contain the term after the "-" symbol.

Escaping Special Characters

Lucene supports escaping special characters that are part of the query syntax.

The current list of special characters are + - & || ! () { } [] ^ " ~ * ? : \ /

Examples

Example 1

1. Use the wildcard search

1.1.*

Request

```
GET http://<domain>/webservice/scim2/v1/User?textFilter=fran*
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.userName+eq+'rfranklin'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'"
        }
      }
    }
  ]
}
```

```

        "effectiveGrants":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/User /2862/effectiveGrants"
        },
        "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
        "urn: soffid: com. soffid. iam. api. User"
    ],
    "modifiedDate": "2023-08-08 14:26:14",
    "attributes": {},
    "id": 2862,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
},
{
    "lastName": "Franklin",
    "createdByUser": "ActiveDirectory",
    "fullName": "Aretha Franklin",
    "active": true,
    "userName": "aretha",
    "mailAlias": "",
    "firstName": "Aretha",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
        "location":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/User /276397",
        "links": {
            "roleAccounts":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' aretha'
+and+enabled+eq+true",
            "groupUsers":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' aretha' +and+d
isabled+eq+false",
            "accounts":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users. user
. userName+eq+' aretha' ",
            "issues":

```

```

"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' aretha' "
,
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
    },
    "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
    "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:54",
"attributes": {},
"id": 276397,
"userType": "I",
"primaryGroupDescription": "World",
"primaryGroup": "world"
},
{
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
        "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
            "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
            "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
            "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user

```

```
.userName+eq+' frank' ",
    "issues":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' frank' ",
    "effectiveGrants":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/User /276435/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn: soffid: com. soffid. iam. api. User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/User /432644",
    "links": {
      "roleAccounts":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' franks'
+and+enabled+eq+true",
      "groupUsers":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' franks' +and+d
isabled+eq+false",
      "accounts":
```

```

"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks' "
,
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-10-05 15:32:40",
  "attributes": {},
  "id": 432644,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
}
]
}

```

1.2. ?

Request

```
http://<domain>/webservice/scim2/v1/User?textFilter=fran?
```

Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {

```

```
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' frank' ",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
```

```
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-10-05 15:32:40",
  "attributes": {},
  "id": 432644,
  "userType": "I",
  "primaryGroupDescription": "scientist",
```

```
        "primaryGroup": "scientist"
    }
}
}
```

Example 2

1. Use the wildcard search in a specific attribute

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=userName: frank
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "profileServer": "Void host",
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},

"id": 3910,

"userType": "I",

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        "homeServer": "Void host",
        "shortName": "pgarcia",
        "primaryGroupDescription": "Music",
        "primaryGroup": "Music"
    }
]
}

```

Example 3

1. Use the Fuzzy Searches

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~
```

Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank' +

```

```

and+enabled+eq+true",
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    "accounts":
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    "issues":
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    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn: soffid: com. soffid. iam. api. User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location":
"http: //soffid. 35x. lab: 8089/soffid/webservice/scim2/v1/User /432644",
    "links": {
      "roleAccounts":

```

```

"http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/RoleAccount?filter=userCode+eq+' franks'
+and+enabled+eq+true",
        "groupUsers":
"http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/GroupUser?filter=user+eq+' franks' +and+d
isabled+eq+false",
        "accounts":
"http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/Account?filter=type+eq+U+and+users. user
. userName+eq+' franks' ",
        "issues":
"http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/Issue?filter=user. userName+eq+' franks' "
,
        "effectiveGrants":
"http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/User /432644/effectiveGrants"
    },
    "resourceType": "User"
},
"modifiedByUser": "pgarcia",
"schemas": [
    "urn: soffid: com. soffid. iam. api. User"
],
"modifiedDate": "2023-10-05 15: 32: 40",
"attributes": {},
"id": 432644,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
}
]
}

```

2. Use the Fuzzy Searches: specify the maximum number of edits allowed

Request

```
GET http: //soffid. 35x. lab: 8089/soffid/webser vice/scim2/v1/User?textFilter=frankl~2
```

Response 200 OK

```

{
    "schemas": [

```

```
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "ActiveDirectory",
      "schemas": [
        "urn:soffid:com:soffid:iam:api:User"
      ],
      "modifiedDate": "2023-08-08 14:26:14",
```

```
    "attributes": {},
    "id": 2862,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  },
  {
    "lastName": "Franklin",
    "createdByUser": "ActiveDirectory",
    "fullName": "Aretha Franklin",
    "active": true,
    "userName": "aretha",
    "mailAlias": "",
    "firstName": "Aretha",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ]
  }
]
```



```

    ],
    "modifiedDate": "2023-09-06 13:12:54",
    "attributes": {},
    "id": 276397,
    "userType": "I",
    "primaryGroupDescription": "World",
    "primaryGroup": "world"
  },
  {
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' frank' ",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [

```

```

        "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
},
{
    "lastName": "Sherwood",
    "createdByUser": "pgarcia",
    "fullName": "Frank Sherwood",
    "active": true,
    "userName": "franks",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-10-05 15:32:40",
    "multiSession": false,
    "meta": {
        "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
        "links": {
            "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
            "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
            "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
            "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
            "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
        },
        "resourceType": "User"
    },

```

```

        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 15:32:40",
        "attributes": {},
        "id": 432644,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
}

```

Example 4

1. Use the boolean operator AND

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ AND Sinatra
```

Response 200 OK

```

{
    "schemas": [
        "urn:ietf:params:scim:api:messages:2.0:ListResponse"
    ],
    "totalResults": 1,
    "startIndex": 1,
    "Resources": [
        {
            "lastName": "Sinatra",
            "profileServer": "Void host",
            "createdByUser": "admin",
            "fullName": "Frankaaa Sinatra",
            "active": true,
            "userName": "frank",
            "mailAlias": "",
            "mailServer": "Void host",
            "firstName": "Frankaaa",

```

```
"emailAddress": "pgarcia@soffid.com",
"mailDomain": "soffid.com",
"createdDate": "2023-06-02 07:41:47",
"multiSession": false,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "admin",
"schemas": [
  "urn:soffid:com:soffid:iam:api:User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
  "picture":
"/9j/4AAQSkZJRgABAQAAQABAAQ/2wCEAAoHCBYWFRgVFRYYGRgaGhkYGHgaGBoYGHoYHBkaGhgZGhgcIS4lHB4rIRgYJ
jgmKy8xNTU1GiQ7QDs0Py40NTEBDawMBgYGEAYGEDEdFh0xMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTE
xMTExMTExMTExMTExMf/AABEIAKgBKwMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAAAAAAADAQIEBQYABwj/xABFEAACA
QIDBAcEQAQFAGcBAAABAgADEQOSIQUxQVEGEyJhcYGRmkKhsQcjUnKSwdHwFGKCoIQzY7LhU3NDZIOTo8LxPf/EABQBAQA
AAAAAAAAAAAAAAAAAAD/xAAUEQEAAAAAAAAAAAAAAAAAA/9oADAMBAAIRAxEAPwDeqIVZwEcBAQQiCIBHqIDgItogj
wICWiQIto4CAqiZn6ScNnDn7DI/wAcp/3TUKJX9JcNnWld0dNj5qMw+UD5zcQYh6qG+gPpGrQblAdThBHUsK3MfEw4wR5
n5QG4dtd8t8JU3DT0/wCZBpYVRvI9ZMpqq97ytxgTi44n8zz3D9+k4G+4ee79iR/4pF3C/iY2rtIAakD0gT6WH0lz4/v97
oZEPL7RzHu5/nM/U2wg3Fm+Eh1NsN7oA+MDWfxir7Kj975Fx00re04Xuvb+0a+kyVTaDtvC+ANh6CANQwNFw2wg3ZnP4R6
nX4SFV2y59kKv9x9Tp8JUXMab3gS62MZvaYnx0npI7Vo0oeAJiVKLAXINocl41njAJzixsdPnAUNEZpY7H2FiMSbUabM0L
nsOPFzp6XM9G60/R/SpEPiCKrjULb6tT906ue86d0DLdEuhz4krVqhkob+Iao0ScLP2vTmPWqNFUUIihVUBVUCwAG4AQw3
RpEBhEYVhjGkQA0sCZJYQbLAj00ZeFqLBQNAqwgSKphFGMCRwSEAhVWAFUsCToBqSdwHEmUmI6YYJCQapJH2Uc/G0r/pH2
y1FEpLcBwSx5gaBfz9J4/isWzHfab61ivpKwqexTrP32RB8Ww8ACU2J+lVrkU8MgHAvULf2qo+c8xZoL4G1xn0kY5/ZdKY
```

/00F/V80pMX0j xNX/ADMTVYHeM5Vfwr YfCUmaITAmCoI7r5Bz Tr mBYDFGDav3yJaKtNj wgG0JPj GHFNFXCkyTR2cDqxPgI
EA12PExERmPZBPgCZd0cIg0iE+MtKeznb2QQDwtv/esDLjBPxGXx/S0TB8zfwm2w/Rose1eX0H6PULtm3wMBhtiM5si+us
u8N0KdvaNvKwm/wAFhUQjIl7d36y1C0fcC+JEDzE9Csu8mFodF1G+3pN9XRuQ+cjFLDUQMvh+j6BtRbyhdq7DTJu56j9Ja
tvvFxL9gg3/AHXgeYYjZ6qWPLlu8ZsuhfRzDPSGIemHcsW7faUZTYWTdfxvKNkzswtcA30F766D4fGekbCw4TD01At2Qbd
51J8TeBNRQAABYDcBuHLHho2dAfeJmgY0mATNGs0YzRmeA8tBu0VngWeAjtBZo4vB5oG1QwimAVo4PAkq0KryIHjg8CJ0
k2DSxtLq6hZWGq0p7SHjpuIPEGeN9IuhWKwPLMhqU+FRaWfV5l3p56d89yDxy1IHZNEn0BtTozg8QSa1BMx3ul0bzKWv5z
M4z6L8M2t0tVp9zZXHyB+MDy0JPRqv0VVPcxKH71Nl+TGQNoFzWoI9Z61Iog1Az5iScqgXHMibJUp3498lrhlG+DanlPw
lmaV0Q/y/L/APIEXIL6CEWnyndfJ2BVScpNoDMNgGYiwB85ZJsuotiU08QZabMwig38949RNKmFDLrYwMxgKS3CurKeFx
++c02GwAt2XBHDSK0FKqLi45b/Cd1AGqi3h+kB38Jbe/oJJpBFGm+N0y8z6RmGIBvx5wDde5PZB8bWkoI1u03kJyM0JnV
sQAL6Ad/OAKpSHf6yvXnhuvFq7U1IWl++RhXz3vpAdm3yJjn7DW0IBsYdjy0m6QsShyt90/KBub0w/YVt9xmJ14k6fAes3
+DZcqoHViqqDYi+gHDhMLhELhETQMoGhsQNM5PLfaW+MxaU6iJTULLIuw9lRbUM3EnlA1BE6DLxM8B5Ea0b1k7NAY4g4Ux
pEATGBYw7iDKwAxmWHIEbpAv1hAIJYQGA4R4jBHKYBBFiAziYCGKI0mKIDxKHp4p/gnt9unfwzj87S+WVnSxL4Kv3Jn/Aw
b8oHi+LpAtpwCmTqVH6pL8j/uMFTp7yfD0AEYpCiI0BRfjrAqkoXa1o9sMyG/wCWhpCqLax+P2oEAAAZHXUc0EBuG2w9M
3yg25f8S2wnTncwDIV4XHw0mTxWiE/bsugPAWvz7+6Ds9sXW4G/mLgEEjkQQbwPYdnbdp0tlYa+nfLBmVhpuni2G2nk5ib
jox0jD9g+1A090oBmEitj0Q9owi4RzrKDaxdWsqFi0NtLWje1Nt1stqKgXF8zfvtjKHE9o3r4nX71hfmBI2JNUKk1xfQKD
qSeQ4eJg2Z8Ndy6U70EuEzszWubs29R690C1wGKw6nLnDhd2jL1KiMNDfvvYD0kKjgKuJp02alXZGKu1SmACAAVNNxYrch
iN8yiYoo/1QqBNzI3a6sg20f3l+Udb1TcaayG99YLDVibZuUk110vAhbBpXJHHMU8r3NvIXlxWpA0VAFrgj9+sZmA26uHx
LoVuxF8xPshgCQB4W9Zf5y75h7639bpf+4QLmn7I8B8opESLAQRSZxEYRAW84xVE5lgBYxpjmSMcQBuY08c0HaBqFEdaIo
jha60UCdaKIC3nTohMDoojLxYBVMbjSP1lGpT+2jp+JSB0WSKZgeB1Kp00ul7jkbk/vwlli6oegjjgSvkDp8CI/pbs/qcX
Wp7lc51+6/at4A3HlImFX6t6ZG7tr8j+UAlLC040F4zEbH7S52sx0vb2eXjNL0VIZATb/n9/KWu19kBxmXQj98IG0TYFU5
lennDEMHVwpzDQW0+1uGnHnNbsvolSSiy0Ls5zWXUILAKoYgXsAne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE
6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsAnu+Ufhgt75QfLjIuz+1RvxtHYapAj4/C02a5WxBBvoDo
d17eMqcZsNajEq+W9iylQwJGg0p0PfNTXoh1uN8rv4fnp++cBcFhkW6ZFym9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEw
opiBURg8h/4LZtB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI229jI9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqJVLK
bE72tckHSWHG5Mk70werdd9txNyL6knmx4+AECT0vHGNIGcTEvEvHgQ0DTs04iNJgKRB0sfnjWeBHCrt052gs8DUARwjVM
dA4CLEvEJgLmiXnRsB0VYwQl0DhDI0AIRTAxP0o7PNqWJUaLenUI4Am6E+eYeYmDw9UBh37/0e5VqSujI6hkYZWU6gg8Jg
drdBEO5qwxGSiNSGQu4/lQgj0eAvr4wM1sXH9VVKndfT4zd0cfmE80xrIxFsncKb2DEFhY21K6E7t30Xuwt07LJ8PLA2Ar
d3n06y5sYGLVBj0S8Cg6Z4oCnkHEzE7Io56qjvvL/ppibsEXgLM6G4G5LnU7v1gej7Jp2pnw/f78JGxerLHZ0nZ5iQ8ah
DHxgHwb8L/v8AZkhWdVEqkd1l3jjJLDFBhA51I3QLsRvk1jIWJ4wKjG4nWU+GrMa6sqrAmys1hY6kKCQ0EtMYmhJ/fK06
LJ2qrfcF/xE/lAs8Iju2dxlA0VbWpIv90b9DrrraTTFt0gdjSsIREGcyx6xWEEzQFcbwGNZ4wtAdeNaNBjjAG8FDNBWgaV
IVYNBCCAtowwgEaywEnRLR0DgI4CII4QHARwWcsKggKizyb6SuknWv1CEdWhsbns/E2Gr24Dc0Pdrun3SL+HpGjTI611N
ze2SnuJJ4E7v+bTxqtUN81wt9c7DtH7icB+7WJWz3GQ7rF2IsLC4VLi3C418pJw1TIwPCQcC+dKiBizLaqtxY2HZf4FT5Q
9B8ynmNfKBv8AAV8WUjWW00topRpFjvI0HMz0bBq2S54CU02tqmql+A3DugQ8XiC7Mx1JMteiW0CVCjGw0ovzmezzkuzAL
cnhaB7LhMcpbRh6ynx/SJDV6tFeq17HIhZVPe268pNh7EZShrs1j7oNvWbZB00RQEUK0AAA0w1AhbuLE7xy7ryn2jQek3
WJdk3uo3gfaHdlt60jjFKDrabFwe0VdbqZ1epbUyi21hjSb+IoeyT9YnAX94Dh3jvkLMVnTN3XgLjDmU21PLvgMBtE4cMh
pliTc62bcBfLa5XvGmshPisis53LZv7h+svMLthHUHQ8bw0o9JUB3G13ZSGv929s3leSqe26De/bhqDv46jSGQYeo tmRCD
vuo1MhbU6NKwLJdWt97dqAQfbHc3kRAnjF0yLiolueYTqeJRjZXRjyDAn0BmAqsY0UcEMBmsLtdQdXS+rQ0K+2ttcgXRD
e9gGs5INldRufMpF1ud+4ccu6B6SwgnWYXCbfq4dsr13UvlyN1aJTW1xZyBw58LTzb02lTrpnpsDb2gGBKnkcpIgPYRhEK
yxloAwJ0JlnZYAmg80M6wVoGLURyidVo9WgEUzmiRYDZ1o4LHBYAwIRRHBI9afpA5Fld0g22mFplmILkHIv8A9jyUSDtXp
fQpBshFRl35TdR4kanyE8l25t56z13bUm4JF2HIIl7IOV9YAdtY96jmo7asbl21uearvbkCQA0H0VYJ0qIW/nqaj46R5ze

0EAv79Q3Y9/a/SMrFTrUqM55LrbuudPSBKwG0enVR3emQDZl7PsEWYaC24mW01MAcPUsuqPc025r xUnmNPKxmedJuwW8S
T8BN30bdMVhuoqqQUsNfaAt2HUnlqPLvgR9m1s1F1XeF0g4ixmeqLlAvLV6L4StkfVT7LcGXn+o4SHj6gZrj0gRKKK28i3
jNVsJc0hzM6X7yJjqqyEbxLXZWyKdXXPc8V9lh+vH1gennFUKl06upAtexBt6RKg0aIATrVu0bCZzBdEcPa+errycDcByGs
sE6MYNd6FiL+3UbXfwB8IFliNoU1FzUQD74/WQ6rmqv10p0IY6KdeHP5QB2bhUYFKNPnws0nVm6k+Mt6LhBfjAr8ArglKo
9rnuInbSpBFsDpu/W02lWLLpvGt5SYmpUqsiXsSQo8WNh5m8CJJaud0QA5ew5W2j0HAbXkCJXdSp60K/VFKpSmST1be2VV
rjsaL7V7a6jjLPpIow2ITLotHEVKZ/7bpTqW/C7yp2jh7L1V7t1qlYdNVZqRPhYo3/qXgEo4qrTdHd2K0zldCmri/D00IP
BhoZ6XsnaiuoN73nmW0axavinDG1IBRfVWBdaZps0KntaeYtJ0ysU9FkKezUynIWGZMwzDxUjC3rY7w3nSHYi10upKPCmj
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gQ3KrUHABdK7zTcdpD7p3RNLy16Lq9JaRQDsGkU6zpfTIdb0ym6kHiNN8FVXQqXuAEps/NG7WEXpPshPIyLinS4esjFHZ
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ruuod7aC9PGo1rm2qtra54+sI6Z2am7KtVWvqfWU6ahxbRS677k6Xup011iToBqdRsz5Uic/wCdhXvapzemTx423jeMwjK
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```

WNKnflsNxGtjOnQNV0Y2pnQKx7SaG/EcD+veJpKeEaoQB0nQNJs3YoWxI1/f6SZtnGU8Jh3rsAci3VLhc77kQHvNok6B5J
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Q=="

    },
    "id": 3910,
    "userType": "I",
    "homeServer": "Void host",
    "shortName": "pgarcia",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  }
]
}

```

2. Use the boolean operator +

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ +bacall
```

Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Bacall",
      "createdByUser": "ActiveDirectory",
      "fullName": "Lauren Bacall",
      "active": true,
      "userName": "lbacall",
      "mailAlias": "",
      "firstName": "Lauren",

```

```
    "createdDate": "2023-08-08 14:26:14",
    "multiSession": true,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'lbacall'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'lbacall'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'lbacall'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'lbacall'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-08-22 17:34:07",
    "attributes": {},
    "id": 2844,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
  {
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
```



```
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' frank' ",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
  {
    "lastName": "Sherwood",
    "createdByUser": "pgarcia",
    "fullName": "Frank Sherwood",
    "active": true,
    "userName": "franks",
```

```

        "mailAlias": "",
        "firstName": "Frank",
        "createdDate": "2023-10-05 15:32:40",
        "multiSession": false,
        "meta": {
            "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
            "links": {
                "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
                "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
                "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.userName+eq+'franks'",
                "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
                "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
            },
            "resourceType": "User"
        },
        "modifiedByUser": "pgarcia",
        "schemas": [
            "urn:soffid:com.soffid.iam.api.User"
        ],
        "modifiedDate": "2023-10-05 15:32:40",
        "attributes": {},
        "id": 432644,
        "userType": "I",
        "primaryGroupDescription": "scientist",
        "primaryGroup": "scientist"
    }
}

```

3. Use the boolean operator -

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ - Sherwood
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+' frank' ",
          "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
```

```

        },
        "resourceType": "User"
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
        "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
}
]
}

```

Example 5

1. U

Request

```

GET
http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=(firstName:aretha OR
firstName:Rosalind)
AND lastName:Franklin AND birthDate:1979-01-01

```

Response 200 OK

```

{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Aretha Franklin",

```

```
    "active": true,
    "userName": "aretha",
    "mailAlias": "",
    "firstName": "Aretha",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 16:02:40",
    "attributes": {
      "birthDate": "1979-01-01 00:00:00"
    },
    "id": 276397,
    "userType": "I",
    "primaryGroupDescription": "World",
    "primaryGroup": "world"
  },
```

```

{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Rosalind Franklin",
  "active": true,
  "userName": "rfranklin",
  "mailAlias": "",
  "firstName": "Rosalind",
  "createdDate": "2023-08-08 14:26:14",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.userName+eq+'rfranklin'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-10-05 16:03:02",
  "attributes": {
    "birthDate": "1979-01-01 00:00:00"
  },
  "id": 2862,
  "userType": "I",

```

```
        "primaryGroupDescription": "scientist",  
        "primaryGroup": "scientist"  
    }  
]  
}
```

Operation

Operation

The Lucene index information is stored in files arranged in a folder structure. This folder structure is replicated in every Soffid Console and every Sync Server and also is saved in the database.

In case an instance (Docker, Kubernetes, or stand-alone) detects an inconsistency, the information will be overwritten with the database data.

When you update an object, marked as the textual index, a task will be created. The **soffid agent** will execute this task and the Sync Server will update the database tables related to the textual index.

Folder structure

The folder structure is the following:

- `../index/<TENANT>/<SOFFID_OBJECT>`

Example

1. Here you are the folder structure for the Soffid Console

```
root@da8136799e55:/opt/soffid/iam-console-3/index/master# ll
total 16
drwxr-x--- 4 root root 4096 Jun  2 09:58 ./
drwxr-x--- 3 root root 4096 Jun  2 08:53 ../
drwxr-x--- 2 root root 4096 Jun  2 09:58 com.soffid.iam.api.Group/
drwxr-x--- 2 root root 4096 Jun  2 10:45 com.soffid.iam.api.User/
root@da8136799e55:/opt/soffid/iam-console-3/index/master#
```

```
root@da8136799e55:/opt/soffid/iam-console-3/index/master# cd com.soffid.iam.api.Group/
root@da8136799e55:/opt/soffid/iam-console-3/index/master/com.soffid.iam.api.Group# ls
_1f.fdm  _1f.kdi      _1f_Lucene90_0.tim  _1p.fdt  _1p.kdm      _1p_Lucene90_0.tip  _1q.si  _1s.cfs
_1f.fdt  _1f.kdm      _1f_Lucene90_0.tip  _1p.fdx  _1p_Lucene90_0.doc  _1p_Lucene90_0.tmd  _1r.cfe  _1s.si
_1f.fdx  _1f_Lucene90_0.doc  _1f_Lucene90_0.tmd  _1p.fnm  _1p_Lucene90_0.dvd  _1p.si             _1r.cfs  segments_1n
_1f.fnm  _1f_Lucene90_0.dvd  _1f.si             _1p.kdd  _1p_Lucene90_0.dvm  _1q.cfe            _1r.si  write.lock
_1f.kdd  _1f_Lucene90_0.dvm  _1p.fdm           _1p.kdi  _1p_Lucene90_0.tim  _1q.cfs            _1s.cfe
root@da8136799e55:/opt/soffid/iam-console-3/index/master/com.soffid.iam.api.Group#
```

2. And the folder structure for the Sync Server


```
root@17beaa887a1e:/opt/soffid/iam-sync/index/master# ll
total 16
drwxr-xr-x 4 root root 4096 Jun  2 11:00 ./
drwxr-xr-x 3 root root 4096 Jun  2 09:39 ../
drwxr-xr-x 2 root root 4096 Jun  2 11:00 com.soffid.iam.api.Group/
drwxr-xr-x 2 root root 4096 Jun  2 10:45 com.soffid.iam.api.User/
root@17beaa887a1e:/opt/soffid/iam-sync/index/master#
```

```
root@17beaa887a1e:/opt/soffid/iam-sync/index/master/com.soffid.iam.api.Group# ls
_1f.i.liv  _1f.kdi  _1f_Lucene90_0.tip  _1p.fnm  _1p_Lucene90_0.dvm  _1q.cfs  _1s.cfs  write.lock
_1f.fdm  _1f.kdm  _1f_Lucene90_0.tmd  _1p.kdd  _1p_Lucene90_0.tim  _1q.si  _1s.si
_1f.fdt  _1f_Lucene90_0.doc  _1f.si  _1p.kdi  _1p_Lucene90_0.tip  _1r.cfe  _1t.cfe
_1f.fdx  _1f_Lucene90_0.dvd  _1p.fdm  _1p.kdm  _1p_Lucene90_0.tmd  _1r.cfs  _1t.cfs
_1f.fnm  _1f_Lucene90_0.dvm  _1p.fdt  _1p_Lucene90_0.doc  _1p.si  _1r.si  _1t.si
_1f.kdd  _1f_Lucene90_0.tim  _1p.fdx  _1p_Lucene90_0.dvd  _1q.cfe  _1s.cfe  segments_1o
root@17beaa887a1e:/opt/soffid/iam-sync/index/master/com.soffid.iam.api.Group#
```

Database

The database tables involved:

- **SC_LUINPA**
- **SC_LUNIND**

Example

1. The database structure

```
MariaDB [soffid_35x]> select * from SC_LUNIND;
+-----+-----+-----+-----+
| LIP_ID | LIP_NAME | LIP_TEN_ID | LIP_TIMSTA |
+-----+-----+-----+-----+
| 5378 | master/com.soffid.iam.api.User | 1 | 1685702740517 |
| 5774 | master/com.soffid.iam.api.Group | 1 | 1685703228965 |
+-----+-----+-----+-----+
```

```
MariaDB [soffid_35x]> select * from SC_LUINPA \G;
***** 1. row *****
LIP_ID: 5379
LIP_LIN_ID: 5378
LIP_NAME: _v_Lucene90_0.dvd
LIP_ORDER: 0
LIP_TEN_ID: 1
LIP_DATA: ?\Lucene90DocValuesData  Mi!k
Lucene90_0 e(Y;RooGaYI(  m
LIP_TIMSTA: 1685697735029
***** 2. row *****
LIP_ID: 5380
LIP_LIN_ID: 5378
LIP_NAME: _v.fdm
LIP_ORDER: 0
LIP_TEN_ID: 1
LIP_DATA: ?\Lucene90FieldsIndexMeta  Mi!k
0  0  6  A  0  $  (  )
LIP_TIMSTA: 1685697735025
***** 3. row *****
LIP_ID: 5381
```

soffid agent

You can check the soffid agent status by visiting the Sync Server monitoring page:

Main Menu > Administration > Monitoring and reporting > Sync server monitoring

Example

1. A soffid agent pending task:

soffid

Agent

Filter

soffid

SSO

soffid

Name

soffid

Url

local

Version

3.5.0-beta-1

Task	Priority	Executions	Execution time	Message	Scheduled
Filter	Filter	Filter	Filter	Filter	Filter
IndexObject com.soffid.iam.api.User 3864	1				

Displayed rows: 1

Close

Step-by-step

Example 1

1. You update one user's data and save the changes.

soffid

Administration > Resources > Users

BasicsGroupsAccountsRolesEffective RolesShared accountsSessionsUser processes

Common attributes

User name : iberghman

First name : agata

Last Name : bergman

Middle name : Middle name

Internal id : Internal id

Full name : agata bergman

Birth Date : 12/15/1999

Picture :

Organization

Type : Internal user

Primary group : Movie Stars

Home server : Home server

Profile server : Profile server

Manager : rfranklin

2. New tasks are created and executed.

soffid

Agent

Filter

soffid

SSO

soffid

Name

soffid

Url

local

Version

3.5.0-beta-1

Task	Priority	Executions	Execution time	Message	Scheduled
Filter	Filter	Filter	Filter	Filter	Filter
IndexObject com.soffid.iam.api.User 3897	1				
UpdateUser iberghman	1				

Displayed rows: 2

Close

3. Then Sync Server indexes the updated text and places the index file.

```

root@da8136799e55:/opt/soffid/iam-console-3/index/master/com.soffid.iam.api.User# ls -al
total 108
drwxr-x--- 2 root root 4096 Jun  2 13:23 .
drwxr-x--- 4 root root 4096 Jun  2 09:58 ..
-rw-r----- 1 root root 405 Jun  2 10:42 _12.cfe
-rw-r----- 1 root root 2437 Jun  2 10:42 _12.cfs
-rw-r----- 1 root root 350 Jun  2 10:42 _12.si
-rw-r----- 1 root root 405 Jun  2 13:16 _15.cfe
-rw-r----- 1 root root 2608 Jun  2 13:16 _15.cfs
-rw-r----- 1 root root 350 Jun  2 13:16 _15.si
-rw-r----- 1 root root  67 Jun  2 09:40 _b_2.liv
-rw-r----- 1 root root 405 Jun  2 09:22 _b.cfe
-rw-r----- 1 root root 3463 Jun  2 09:22 _b.cfs
-rw-r----- 1 root root 385 Jun  2 09:22 _b.si

```

4. Then Sync Server and updates the database table SC_LUNIND by upgrading the LIP_TIMSTA field of the User object or by creating a new record if it did not previously exist.

```

MariaDB [soffid_35x]> select * from SC_LUNIND;
+-----+-----+-----+-----+
| LIP_ID | LIP_NAME                                | LIP_TEN_ID | LIP_TIMSTA |
+-----+-----+-----+-----+
| 5378   | master/com.soffid.iam.api.User         | 1          | 1685711801976 |
| 5784   | master/com.soffid.iam.api.Group        | 1          | 1685703660618 |
+-----+-----+-----+-----+

```

5. When the following search will be performed, the very first thing to do is check the database file. If it is necessary update the file system and finally perform the search.

Example 2

1. The task engine mode is Read only

soffid Search

Main Menu > Administration > Configuration > Integration engine > Smart engine settings

Task engine mode: **Read only** (blue arrow points here)

Tasks limit per transaction: 15 (If a single transaction creates more than this number of tasks, tasks will be held until Soffid administrator releases them.)

Scripting language: Javascript

Undo Confirm changes

2. You update one user's data and save the changes.

soffid Search

Main Menu > Administration > Resources > Users

Basics Groups Accounts Roles Effective Roles Shared accounts Sessions User processes

Common attributes

User name: ibergman

First name: **agata** (blue arrow points here)

Last Name: bergman

Middle name: Middle name

Internal id: Internal id

Full name: agata bergman

Birth Date: 12/15/1999

Picture: [icon]

Organization

Type: Internal user

Primary group: Movie Stars (Movie Stars icon)

Home server: Home server (server icon)

Profile server: Profile server (server icon)

Manager: rfranklin (Rosalind Franklin icon)

3. A new task is created and executed

soffid

Main Menu > Admin

Agent

Filter

soffid

SSO

soffid

Name

soffid

Url

local

Version

3.5.0-beta-1

Task

Priority

Executions

Execution time

Message

Scheduled

Filter

Filter

Filter

Filter

Filter

Filter

IndexObject com.soffid.iam.api.User 3897

1

Displayed rows: 1

Close

4. Then Sync Server indexes the updated text and places the index file.
5. Then Sync Server and updates the database table SC_LUNIND by upgrading the LIP_TIMSTA field of the User object or by creating a new record if it did not previously exist.
6. When the following search will be performed, the very first thing to do is check the database file. If it is necessary update the file system and finally perform the search.