

LDAP

LDAP en UNIFACE

LDAP

- The Lightweight Directory Access Protocol (LDAP)
- Hulp tool
- Asn file
- Nu in Uniface
- Trial en error
- Oplossing
- Code!

Hulp tool

- JXplorer (Gratis!!)

The screenshot shows the 'Open LDAP/DSML Connection' dialog box. It contains the following fields and options:

- Host: 10.50.5.40
- Port: 389
- Protocol: LDAP v2
- DSML Service: (empty)
- Optional Values: Base DN: OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb,DC=LOCAL
- Security: Level: User + Password, User DN: koldijk, paul, Password: *****
- Use a Template: Save, LDAP Gebruiker, Delete, Default
- Buttons: OK, Cancel, Help

The screenshot shows the JXplorer Java application window. The main content area displays a welcome message:

Welcome to JXplorer Java

This panel will display the results of your directory browsing and searches.

If you need any assistance, use the help option on the menu bar above.

The 'Open LDAP/DSML Connection' dialog box is overlaid on the main window, showing the same configuration as the previous screenshot, but with the 'Use a Template' section expanded to show the 'LDAP Gebruiker' template selected.

At the bottom of the JXplorer window, the status bar indicates 'Not Connected'.

- Let op het pad en multiple value fields

The screenshot shows the JXplorer interface with the following details:


- Address Bar:** ldap://10.50.5.40:389
- Tree View:** World > LOCAL > agisweb > AGIS > Accounts > Gebruikers > Aalten, Lia van
- Table View:**

| attribute type | value |
|--------------------------|--|
| objectCategory | 207069177E7E261802 |
| extensionAttribute3 | V |
| extensionAttribute4 | AA181923 |
| extensionAttribute5 | 392311 |
| extensionAttribute6 | Zorg 34 |
| facsimileTelephoneNumber | 033 445 67 96 |
| garbageCollPeriod | 0 |
| givenName | Lia |
| homeDirectory | \\srv-files01\users2\AaltenL |
| homeDrive | H: |
| homeMDB | CN=Users A-G,CN=First Storage Group,CN=InformationStore,CN=SRV-MA... |
| homeMTA | CN=Microsoft MTA,CN=SRV-MAIL10,CN=Servers,CN=Amf1,CN=Administr... |
| instanceType | 4 |
| l | AMF1-van Asch van Wijkstraat |
| lastLogoff | 0 |
| lastLogon | 129504480038961106 |
| lastLogonTimestamp | 129499260525658605 |
| legacyExchangeDN | /O=Agis/OU=Amf1/cn=Recipients/cn=AaltenL |
| lockoutTime | 0 |
| logonCount | 5133 |
| logonHours | □□□□□□□□□□□□□□□□□□□□□□□□ |
| mail | L.van.Aalten@AgisWeb.nl |
| mailNickname | AaltenL |
| mDBUseDefaults | TRUE |
| memberOf | CN=ALG-D-EXT-AGIS-FINAN,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=ALG-D-EXT-AGIS-KLANT,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=ALG-D-EXT-AGIS-OVERT,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=ALG-D-EXT-AGIS-SCHAD,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=ALG-D-EXT-APART,OU=Groepen,OU=Accounts,OU=AGIS,DC=agiswe... |
| memberOf | CN=ALG-D-EXT-INEX,OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb,... |
| memberOf | CN=ALG-D-EXT-ZORGKANTOO,OU=Groepen,OU=Accounts,OU=AGIS,DC=... |
| memberOf | CN=ALG-G-ADM-KS-ZRG-BO2,OU=Groepen,OU=Accounts,OU=AGIS,DC=... |
| memberOf | CN=ALG-G-ADM-KS-ZRG-YRH,OU=Groepen,OU=Accounts,OU=AGIS,DC=... |
| memberOf | CN=ALG-G-AUTORI-HARD,OU=Groepen,OU=Accounts,OU=AGIS,DC=agis... |
| memberOf | CN=ALG-G-AUTORI-MOB,OU=Groepen,OU=Accounts,OU=AGIS,DC=agis... |
| memberOf | CN=ALG-G-AUTORI-NXVIEW,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=ALG-G-AUTORI-UIT,OU=Groepen,OU=Accounts,OU=AGIS,DC=agisw... |
| memberOf | CN=ALG-G-AUTORI-VOOR,OU=Groepen,OU=Accounts,OU=AGIS,DC=agl... |
| memberOf | CN=ALG-G-MT-AWBZ,OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb,... |
| memberOf | CN=AMF1-G-ADM-ACTIV-AV,OU=Groepen,OU=Accounts,OU=AGIS,DC=a... |
| memberOf | CN=AMF1-G-ADM-AV,OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb,... |
| memberOf | CN=AMF1-G-ADM-BIP,OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb... |
| memberOf | CN=AMF1-G-ADM-DECL-AV,OU=Groepen,OU=Accounts,OU=AGIS,DC=agi... |
| memberOf | CN=AMF1-G-ADM-DTKWALITEIT,OU=Groepen,OU=Accounts,OU=AGIS,D... |
| memberOf | CN=AMF1-G-ADM-FRAUDE,OU=Groepen,OU=Accounts,OU=AGIS,DC=agi... |
- Buttons:** Submit, Reset, Change Class, Properties
- Footer:** Connected To 'ldap://10.50.5.40:389'

De ASN file

- LDAP driver
- PATHS
- ENTITIES

```
H:\Paul\Project\Test9302\Asn\Test9302.asn *
1 [SETTINGS]
2 $SEARCH_OBJECT DBMS_FIRST
3 $SEARCH_DESCRIPTOR DBMS_FIRST
4 $LICENSE_OPTIONS 7188@srv-app07
5 $LANGUAGE USA
6 $PUTMESS_LOGFILE ..\LOG\ONTW.LOG
7
8 [DRIVER_SETTINGS]
9 SOL U3.4
10 SEQ U1.0
11 LDP U1.0
12 USYS$LDP_PARAMS addbase:off
13
14 [PATHS]
15 $SOL SOL:Shmem Solid:|dba|dba
16 $LDP LDP:10.50.5.40:OU=Accounts,OU=AGIS,DC=agisweb,DC=LOCAL|Koldijk, Paul ██████████
17
18 $DEF $SOL
19 $UUU $SOL
20 $IDF $SOL
21 $SYS $SOL
22
23 [ENTITIES]
24 GEBRUIKER.LDAP $LDP:GEBRUIKER@OU=Gebbruikers,OU=Accounts,OU=AGIS,DC=agisweb,DC=LOCAL
25 GROEP.LDAP $LDP:GROEP@OU=Groepen,OU=Accounts,OU=AGIS,DC=agisweb,DC=LOCAL
26 *.LDAP $LDP:*. *
27
28
```



Nu in Uniface...

- Probleem met 'multiple value' veld
- Max 255 lang?

Data Storage and Retrieval on LDAP

LDAP differs substantially in structure from traditional relational databases.

Consider the following factors when retrieving or writing data to an LDAP server:

- Only fixed-length string data can be accessed via the LDAP connector. Variable-length data, or strings longer than 255 characters, are truncated to a length of 255 characters. Binary data cannot be accessed.
- The LDAP connector does not support overflow tables, so fields must not be formatted as C* or R*.
- LDAP does not support entity names. A Uniface entity is no more than a grouping of fields to LDAP. It is always necessary to specify a retrieve profile that limits the amount of data retrieved. See [Map LDAP Entries to Uniface Entities](#)



Hoe opgelost?

- Trial en error
- 8189

```
[Inactive idf Transcript]
File
Fatal error: 8035 - Fixed part of table '' exceeds DBMS () limits.

*finished*
```

Define Entity: LDAP

| Entity Name | Description | Modified |
|---------------|---------------------------|--------------------|
| ALG_G_DATAGIS | Globale Groep Datagis med | 16-mar-11 08:28:29 |
| GEBRUIKER | Gebruiker | 16-mar-11 09:49:22 |
| GROEP | Groepen | 16-mar-11 08:28:29 |
| LDAP_DATA | 1e Level | 16-mar-11 08:28:29 |

Details of 'ALG_G_DATAGIS'

Entity Abbreviation: ALG_G_DATAGIS

Occurrence Interface Name: ALG_G_DATAGISOCC

Collection Interface Name: ALG_G_DATAGISCOLL

Business Object

Default Data Access: DBMS Path: LDAP (LDP)

Entity Service Name: []

Locking: Optimistic, Cautious, No Updates

Option: Border

Number of Occurrences: Minimum [], Maximum []

Interface: Shorthand C*, Widget Type None

Fields... Keys... Relationships... Triggers... OK Cancel

Define Field: GEBRUIKER.LDAP

| Field Name | Description | Label | Modified |
|----------------|-------------|-------|--------------------|
| CN | | | 04-apr-11 16:29:36 |
| DISPLAYNAME | | | 04-apr-11 16:29:36 |
| DISTINGUISNAME | | | 16-mar-11 10:20:26 |
| MAIL | | | 04-apr-11 16:29:36 |
| NAME | | | 04-apr-11 16:29:36 |
| SAMACCOUNTNAME | | | 04-apr-11 16:29:36 |
| MEMBEROF | | | 04-apr-11 16:36:03 |

Details of 'MEMBEROF'

Widget Type: EditText, HTML Control: Text, Initial Value: []

Characteristics: Database String, Date type [], Classification []

Interface: Shorthand C7872, Syntax: Template, Layout: Template

Pop-up Menu: []

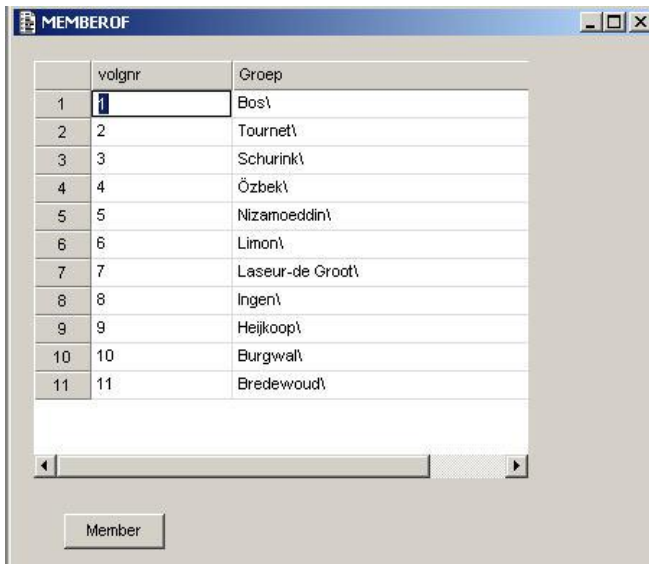
For Technical use only:

Comments: []

Triggers... OK Cancel

Code!

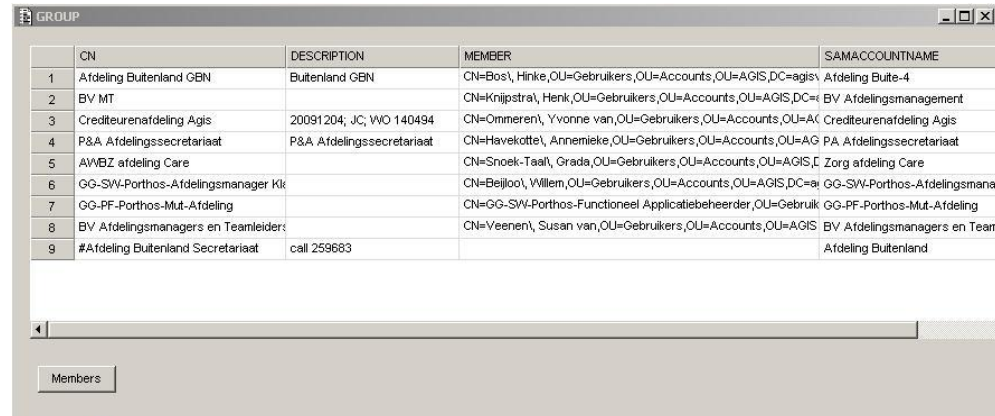
- `clear`
`$Groep$ = ".*Afdeling.*"`
`Retrieve`
- `read u_where`
`(samaccountname=$Groep$)`



The screenshot shows a window titled 'MEMBEROF' with a table of members. The table has two columns: 'volgnr' and 'Groep'. The data is as follows:

| volgnr | Groep |
|--------|------------------|
| 1 | Bos\ |
| 2 | Tournet\ |
| 3 | Schurink\ |
| 4 | Özbek\ |
| 5 | Nizamoeddin\ |
| 6 | Limon\ |
| 7 | Laseur-de Groot\ |
| 8 | Ingen\ |
| 9 | Heijkoop\ |
| 10 | Burgwal\ |
| 11 | Bredewoud\ |

At the bottom of the window, there is a button labeled 'Member'.



The screenshot shows a window titled 'GROUP' with a table of groups. The table has four columns: 'CN', 'DESCRIPTION', 'MEMBER', and 'SAMACCOUNTNAME'. The data is as follows:

| | CN | DESCRIPTION | MEMBER | SAMACCOUNTNAME |
|---|-------------------------------------|---------------------------|---|-------------------------------------|
| 1 | Afdeling Buitenland GBN | Buitenland GBN | CN=Bos\, Hinke,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | Afdeling Butte-4 |
| 2 | BV MT | | CN=Krijpstra\, Henk,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | BV Afdelingsmanagement |
| 3 | Crediteurenafdeling Agis | 20091204; JC; WO 140494 | CN=Ommeren\, Yvonne van,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | Crediteurenafdeling Agis |
| 4 | P&A Afdelingssecretariaat | P&A Afdelingssecretariaat | CN=Havekotte\, Annemieke,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | PA Afdelingssecretariaat |
| 5 | AWBZ afdeling Care | | CN=Snoek-Taalt\, Grada,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | Zorg afdeling Care |
| 6 | GG-SW-Porthos-Afdelingsmanager Kl | | CN=Beijlouw\, Willem,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | GG-SW-Porthos-Afdelingsmanager Kl |
| 7 | GG-PF-Porthos-Mut-Afdeling | | CN=GG-SW-Porthos-Functioneel Applicatiebeheerder,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | GG-PF-Porthos-Mut-Afdeling |
| 8 | BV Afdelingsmanagers en Teamleiders | | CN=Veenen\, Susan van,OU=Gebruikers,OU=Accounts,OU=AGIS,DC=agis\ | BV Afdelingsmanagers en Teamleiders |
| 9 | #Afdeling Buitenland Secretariaat | call 259683 | | Afdeling Buitenland |

At the bottom of the window, there is a button labeled 'Members'.