

LDAP105: Clients

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awilliam@whitemice.org

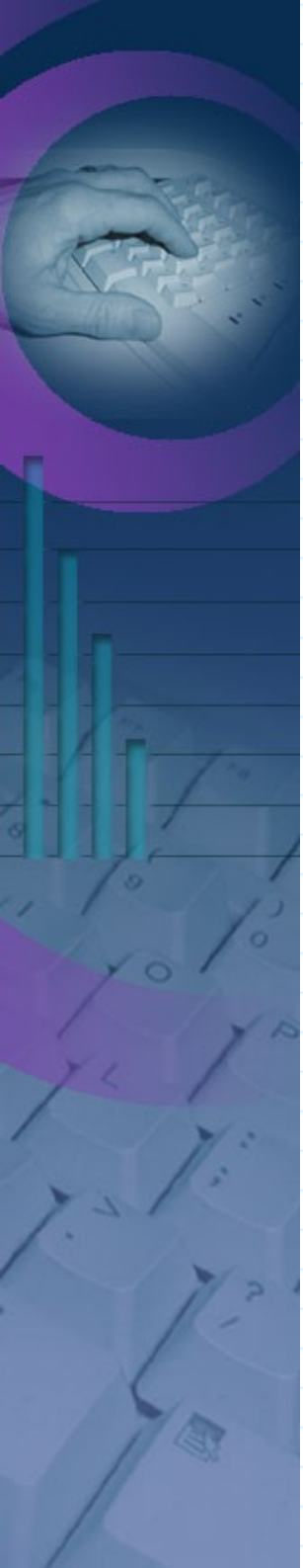


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ldapsearch w/simple bind

(command line)

```
sardine:~ $ ldapsearch -x \
-LLL \
-ZZ \
-h throw.morrison.iserv.net \
-b "o=Morrison Industries,c=US" \
-D "cn=Adam
Williams,ou=People,ou=Entities,ou=SAM,o=Morrison
Industries,c=US" \
-W \
(&(objectclass=morrisonuser)(uid=adam)) \
initials morrisonttymenu
Enter LDAP Password: *****
dn: cn=Adam Williams,ou=People,o=Morrison Industries,c=US
initials: ATW
morrisonttymenu: 1103
```

“simple” authentication

less chatter to standard out

demand encryption

DSA, FQDN if using SSL/TLS

search base

bind dn

prompt for password

search filter

attribute list



ldapsearch w/SASL bind

```
sardine:~ $ ldapsearch \  
-U adam \  
-Y DIGEST-MD5 \  
-ZZ \  
-LLL \  
-h throw.morrison.iserv.net \  
-b "o=Morrison Industries,c=US" \  
-W \  
(&(objectclass=morrisonuser)(uid=adam)) \  
initials morrisonttymenu
```

SASL user id

SASL mechanism

prompt for password

Enter LDAP Password: *****

{some SASL noise here}

dn: cn=Adam Williams,ou=People,o=Morrison Industries,c=US

initials: ATW

morrisonttymenu: 1103



LDIF Modifications

dn: cn=Modify Me,dc=example,dc=com

changetype: modify

replace: mail

mail: modme@example.com

Replace value of
the mail attribute.

-

add: title

title: Grand Poobah

Add a title attribute
with specified value.

-

add: jpegPhoto

jpegPhoto:< file:///tmp/modme.jpeg

Load value from file

-

delete: description

Remove description attribute(s)

-

dn: cn=Barbara Jensen,dc=example,dc=com

changetype: delete

Delete this object.



ldapmodify

```
sardine:~ $ ldapmodify \
```


```
-U adam \
```

```
-Y DIGEST-MD5 \
```

```
-ZZ \
```

```
-f file.ldif
```

LDIF file to process.



- v Verbose mode, diagnostics to standard out.
- n Perform no modifications, report what would be done.



DSML

Directory Service Markup Language

- DSML is an OASIS standard that provides the ability to inter-operate with a directory via XML.
 - <http://www.dsml.org/download/DSMLdatasheet.pdf>
- DSML has two versions
 - DSMLv1 represented the state of a directory
 - Read only
 - DSMLv2 represents LDAP operations and results
 - Read/Write
 - Also defines a SOAP specification of accessing directory as a traditional Web Service.

DSML: Query

Search Specs

Search Filter

Search Elements

```
<?xml version="1.0" encoding="UTF-8"?>
<dsml:batchRequest xmlns:dsml="urn:oasis:names:tc:DSML:2:0:core"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <dsml:searchRequest
    dn="ou=People,ou=Entities,ou=SAM,o=Morrison Industries,c=US"
    scope="wholeSubtree"
    derefAliases="neverDerefAliases"
    sizeLimit="5">
    <dsml:filter>
      <dsml:and>
        <dsml:equalityMatch name="objectclass">
          <value>morrisonperson</value></dsml:equalityMatch>
          <dsml:equalityMatch name="title">
            <value>Service Manager</value></dsml:equalityMatch>
          <dsml:equalityMatch name="morrisonbranch">
            <value>BRT</value></dsml:equalityMatch>
        </dsml:and>
      </dsml:filter>
      <dsml:attributes>
        <dsml:attribute name="mail"/>
      </dsml:attributes>
    </dsml:searchRequest>
  </dsml:batchRequest>
```




DSML: Response

```
<?xml version="1.0" encoding="UTF-8"?>
<batchResponse xmlns="urn:oasis:names:tc:DSML:2:0:core"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <searchResponse requestID="6">
    <searchResultEntry
dn="cn=*****,,ou=People,ou=Entities,ou=SAM,o=Morrison
Industries,c=US" requestID="6">
      <attr name="mail">
        <value>*****</value>
      </attr>
    </searchResultEntry>
    <searchResultDone requestID="6">
      <resultCode code="0" descr="Success"/>
    </searchResultDone>
  </searchResponse>
</batchResponse>
```



DSML: Services

- DSML is broadly supported
 - DSML for eDirectory
 - <http://developer.novell.com/ndk/dsml.htm>
 - WDI's BIE (Business Integration Engine)
 - <http://www.brunswickwdi.com/bie>
 - Exolab's Castor
 - <http://castor.codehaus.org/>
 - DSML Tools
 - <http://www.dsmltools.org/>
 - DSML import, export, query, and bidirectional gateway.
 - DSML Services for M\$-Windows
 - <http://www.microsoft.com/windows2000/server/evaluation/news/bulletins/dsml.asp>
 - Canada's Public Work's DSML to LDAP Gateway
 - http://fdis.srv.gc.ca/dsml/dsml_e.htm
 - Just requires a web server with CGI support & Perl



GQ

<http://biot.com/gq>

- gq is an LDAP v3 utility for GNOME/GTK:
 - Features/Advantages
 - DIT browsing and editing.
 - BLOB handling
 - Image rendering for JPEG formats.
 - X.509 Certificates and Certificate Revocation Lists
 - Password encryption
 - Connection encryption (TLS)
 - LDAPv3 schema browser.
 - Objectclasses, attribute types, matching rules, and ldapSyntaxes.
 - Simple, DIGEST-MD5, and Kerberos binds.
 - Exporting to LDIF.
 - Bugs/Problems
 - Development more-or-less stalled.
 - Is a GTK1 vs. GTK2 app.
 - Likes to crash during configuration
 - Hangs if connection to the DSA is lost.
 - No printing support.

GQ

Color Coding

- How the attribute of an object relates to the schema is presented to the user via the color of the attribute name.

- **blue**

- An attribute required by one of the object's objectclass attributes.

- **black**

- An attribute allowed, but not required by the object's objectclass attributes.

- **red**

- Special attributes such as DSA meta-information or attributes allowed by the presence of an **extensibleObject** objectclass attribute.

- **orange**

- An attribute that belonged to an objectclass that has been removed from the object. These will be deleted when **Apply** is clicked.

- **purple**

- An attribute the user added to an object; applies only to **extensibleObject** objects.



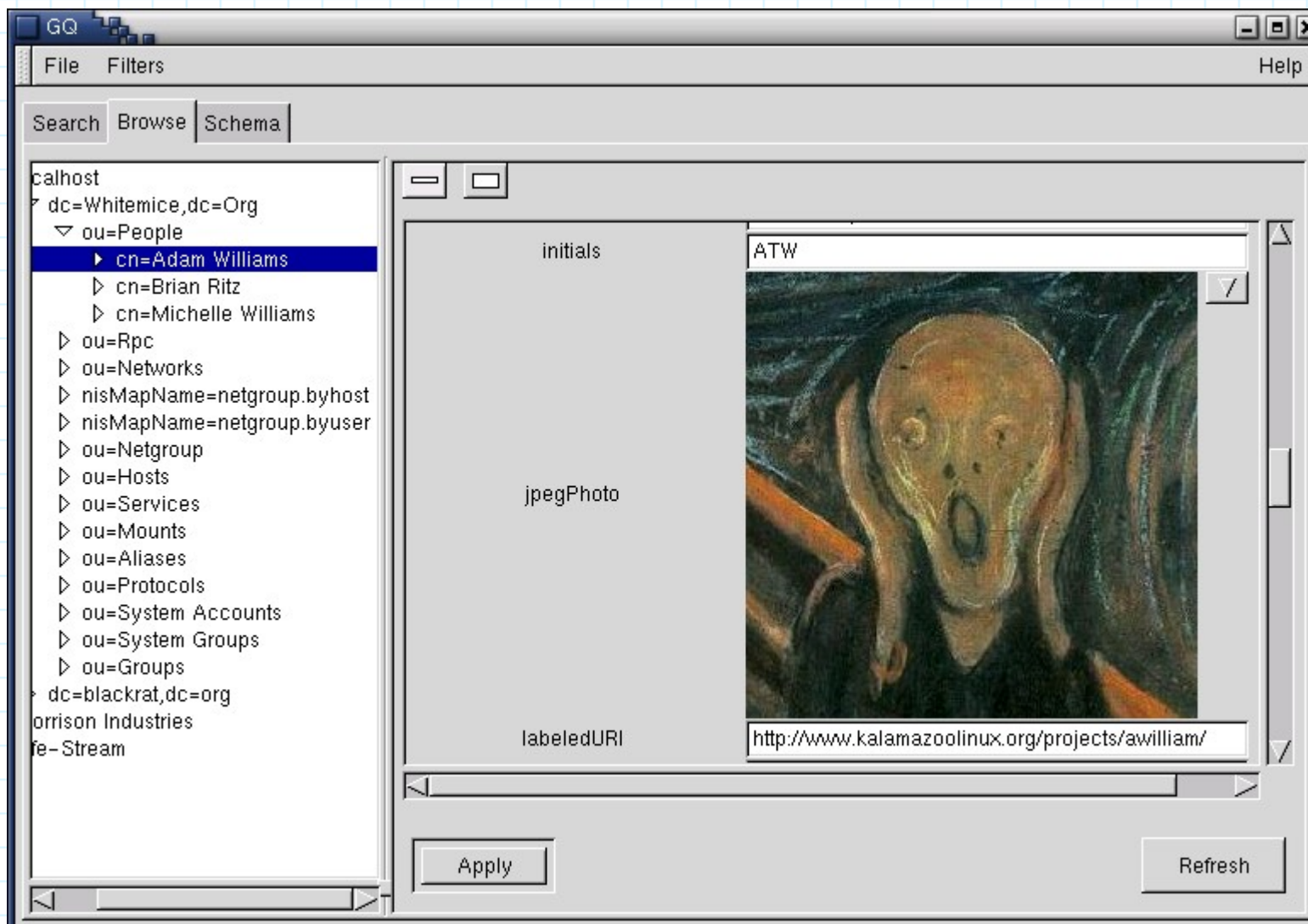
cn=Sally Ward,ou=People,o=Morrison Industries,c=US

dn	cn=Sally Ward,ou=People,o=Morrison Industries,c=US	
	top	▼
	organizationalPerson	▼
	inetOrgPerson	▼
	morrisonperson	▼
	posixAccount	▼
	sambaAccount	▼
	inetLocalMailRecipient	▼
	morrisonuser	▼
sn	Ward	
cn	Sally Ward	
userPassword	{crypt}A/uG3PgUfeHx6	Crypt ▼
telephoneNumber	8102276311	
seeAlso		
description		

Apply Refresh Close

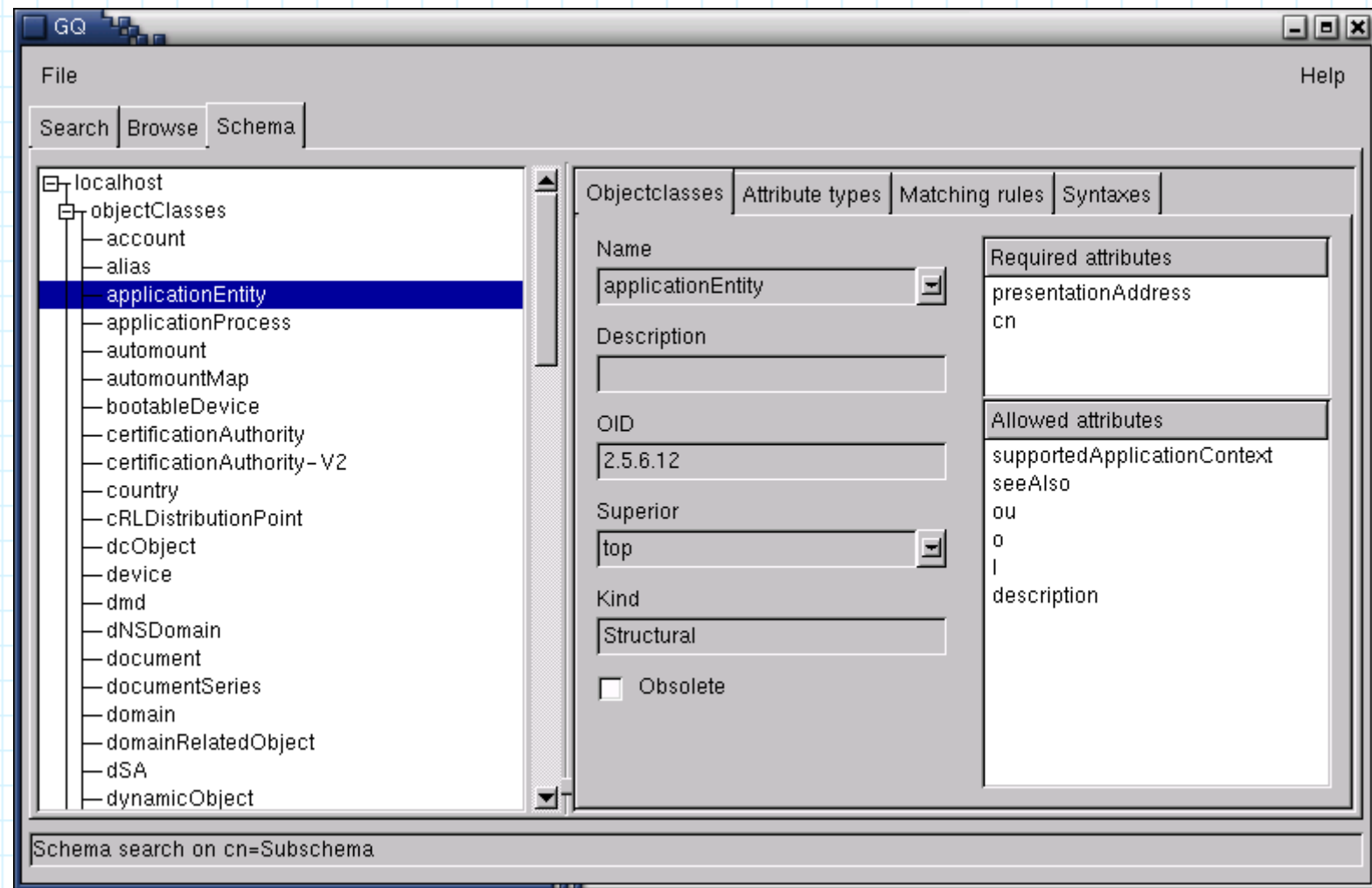
GQ BLOBS

- GQ has built in viewers for:
 - JPEG images
 - crypted passwords
 - X.509 certificates
 - X.509 certificate revocation lists.
- In GQ parlance these are called **custom displaytypes**.



GQ

(Schema Browser)



GQ

This zone is for loading and unloading only.

- Managing complex datatypes in a Dit is greatly facilitated by the GQ's object browser.
 - Non-string and numeric attribute values can be:
 - Displayed in various notations
 - Plain
 - Base64 encoded
 - Hexidecimal
 - Loaded from a file
 - Unloaded to a file



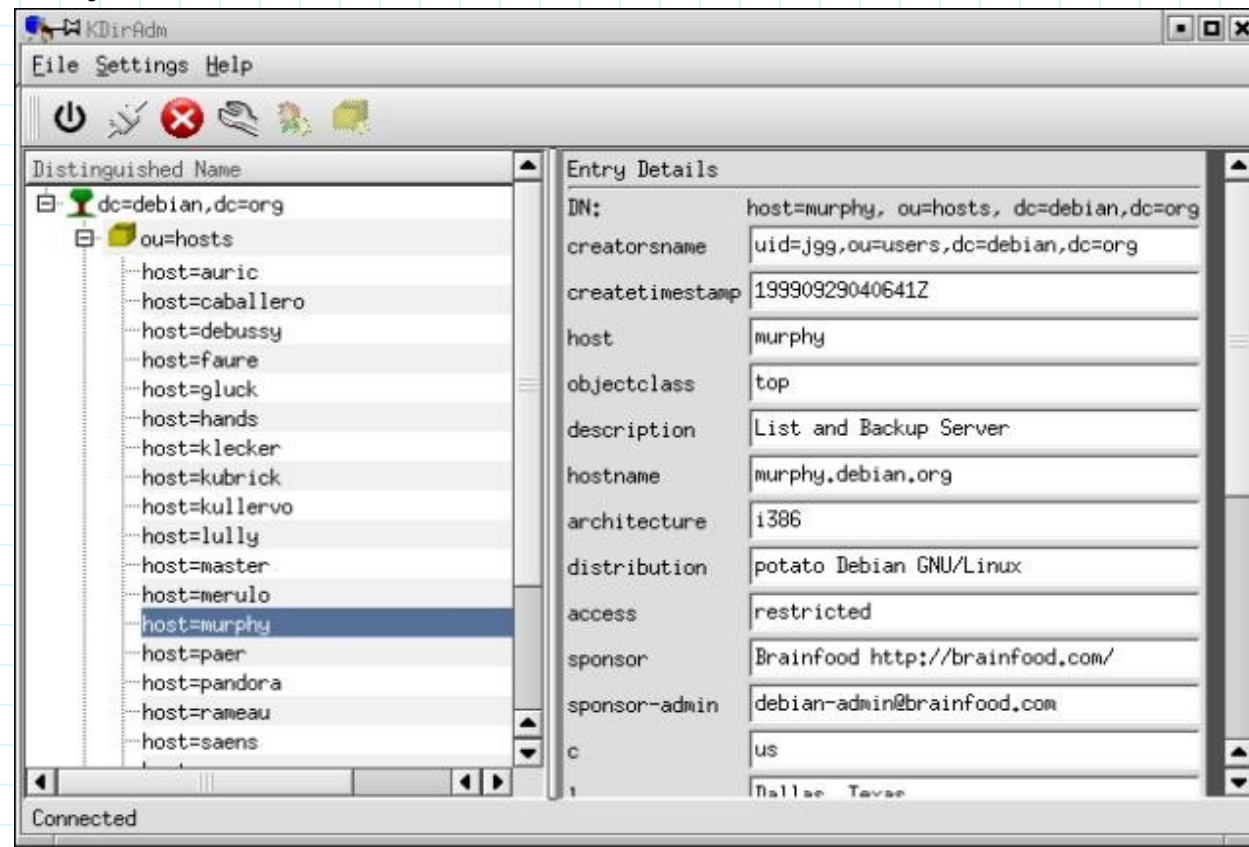
Import
Export
Delete

Plain
Base64
Hex

KDirAdm

<http://www.carillonis.com/kdiradm/>

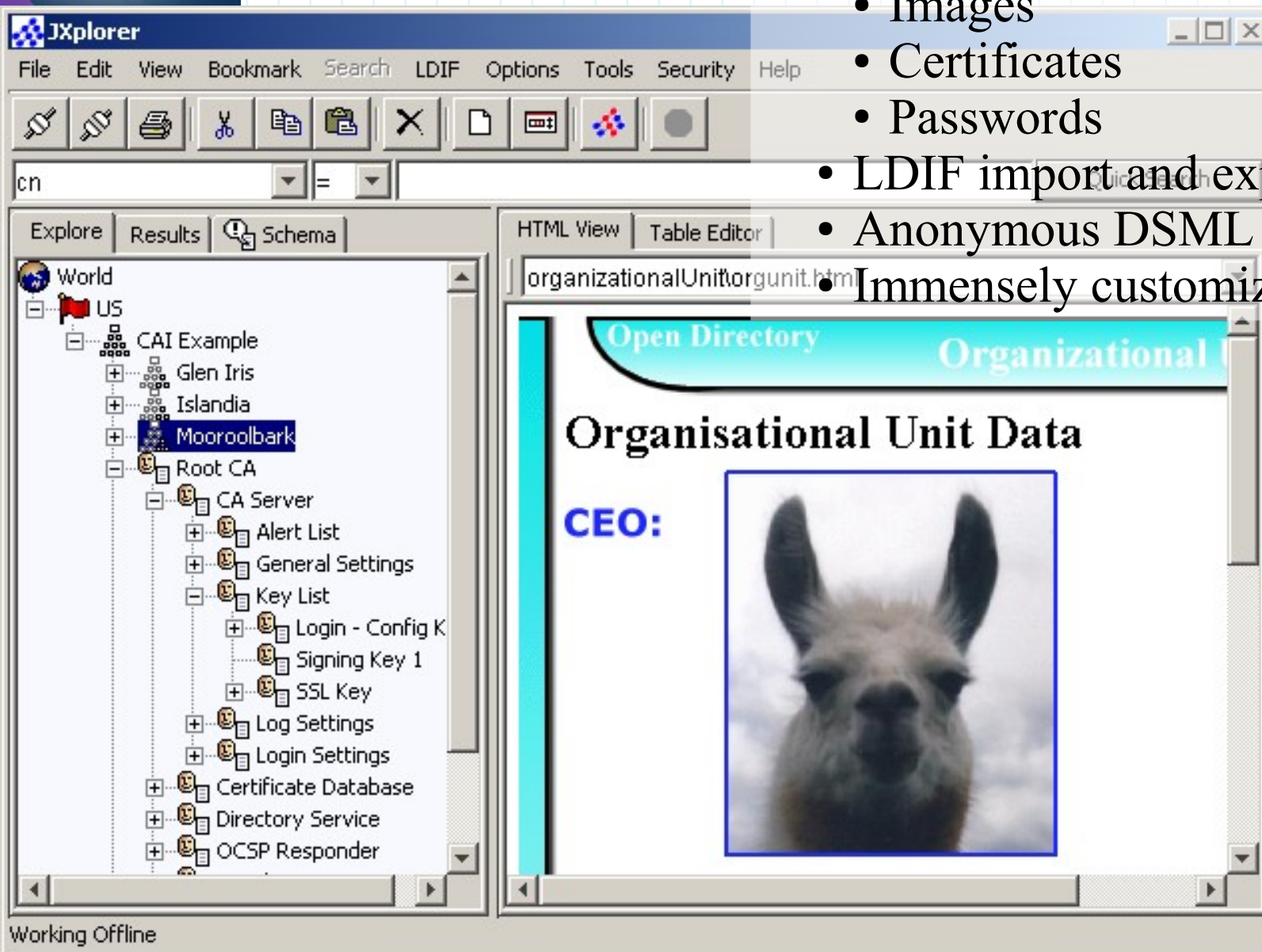
- KDE Directory Administrator is the equivalent of GNOME's gq
 - Including schema browsing
 - It does not support Kerberos V (GSSAPI) or SSL, so all communication with the DSA is performed in the clear.
 - Development equally stalled.



jXplorer

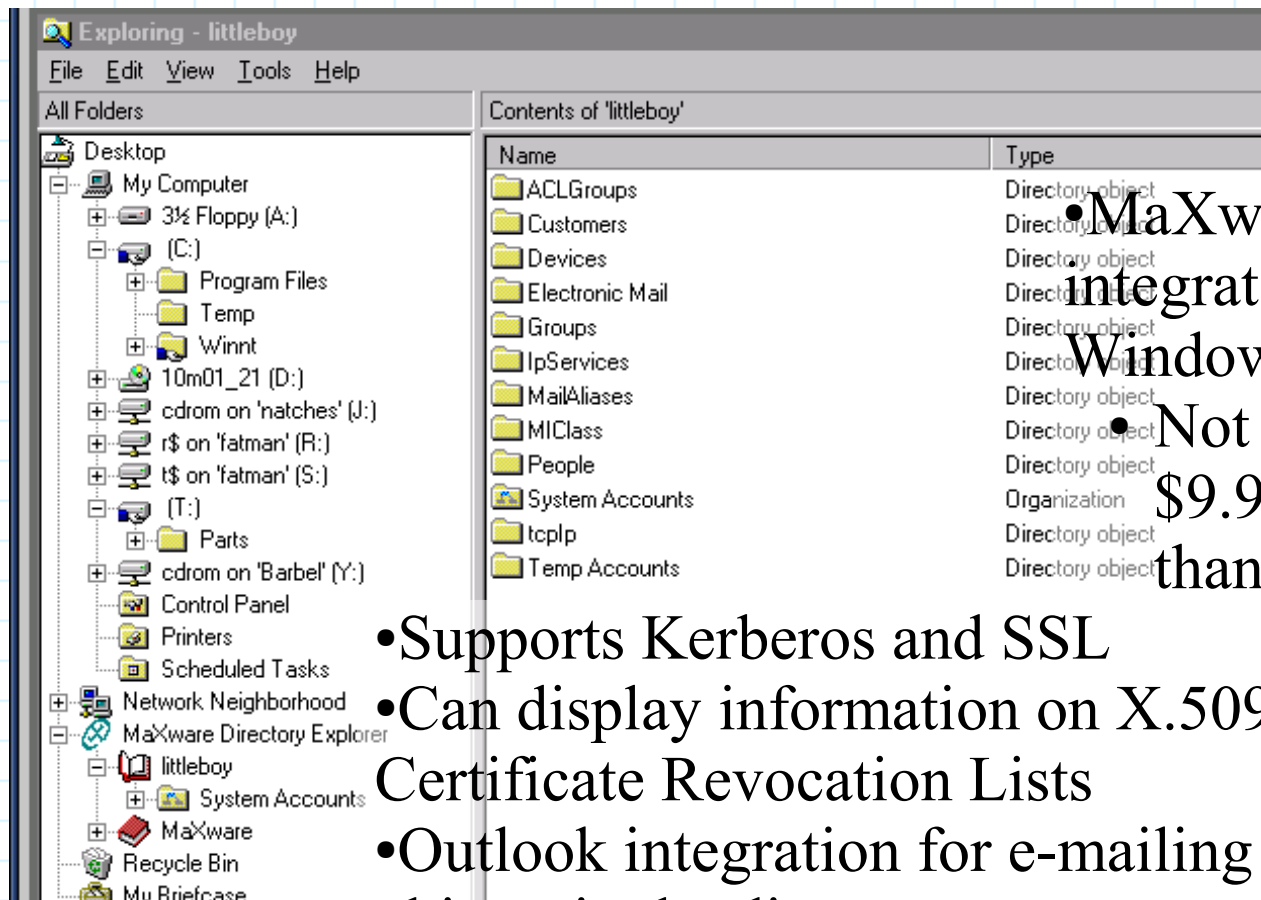
<http://www.jxplorer.org/>

- jXplorer is a Java LDAP browser and management tool.
 - Supports SSL and SASL
 - BLOB & complex value management
 - Images
 - Certificates
 - Passwords
 - LDIF import and export
 - Anonymous DSML
 - Immensely customizable



MaXware' MDE

<http://www.maxware.com/Products/MDE/>

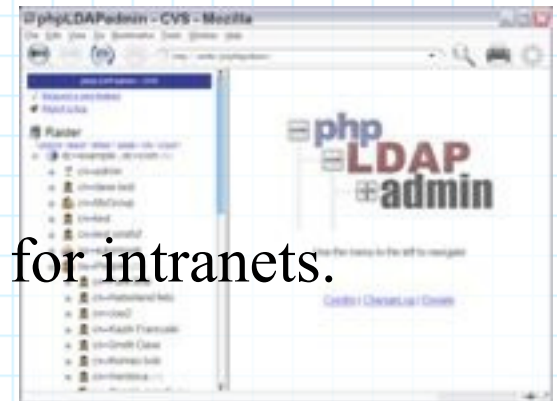


- MaXware's MDE integrates into Microsoft Windows Explorer.
- Not a FREE package; \$9.95 a seat for less than 500 seats.
- Supports Kerberos and SSL
- Can display information on X.509 Certificates and Certificate Revocation Lists
- Outlook integration for e-mailing to groupOfNames objects in the directory.
- Runs on Windows 95/98, >NT4sp3, 2000, and XP.

phpLDAPadmin

<http://phpldapadmin.sourceforge.net/>

- phpLDAPadmin is a LDAP browser/editor for intranets.
 - Features/Advantages
 - DIT browseing and editing.
 - BLOB handling
 - Image rendering for JPEG formats.
 - Password encryption
 - Connection encryption (TLS)
 - LDAPv3 schema browser.
 - Objectclasses, attribute types, matching rules, and ldapSyntaxes.
 - LDIF (import and export) and DSML (export) support.
 - Wizard for creating, copying, and renaming objects.
 - Relevant attributes (mail, seeAlso, etc...) are rendered as hyperlinks.
 - Bugs/Problems
 - No SASL bind support
 - This is actually more PHP's fault than phpLDAPadmin's.
 - No certificate management support.



phpLDAPadmin

DSA's schema can
be browsed.

“Wizard” for creating
new object.

The screenshot displays the phpLDAPadmin web interface in a Mozilla browser window. The address bar shows the URL `http://raider/phpldapadmin/`. The interface is divided into two main panels. The left panel, titled 'phpLDAPadmin - CVS', contains a sidebar with links for 'Request a new feature', 'Report a bug', and a tree view of the LDAP directory structure. The tree view shows a root entry 'Raider' with sub-entries like 'dc=example, dc=com (9)', 'cn=admin', 'cn=dave test', 'cn=MyGroup', 'cn=test', 'cn=test smith2', 'ou=automount', 'ou=People (22)', 'cn=Funk Bob', 'cn=Haberland felix', 'cn=Joe2', 'cn=Kazik Francuski', 'cn=Smith Dave', 'cn=thomas bob', 'cn=Verónica (1)', and 'ou=People-copy8 (21)'. A green arrow points from the 'ou=People (22)' entry to the 'Create Object' wizard. The right panel, titled 'Create Object', shows the 'Step 1 of 2: Name and ObjectClass(es)' wizard. It includes fields for 'RDN:' (containing 'cn=new entry'), 'Container:' (containing 'dc=example, dc=com'), and a list of 'ObjectClasses'. The 'ObjectClasses' list includes 'ou=People (22)', 'cn=Funk Bob', 'cn=Haberland felix', 'cn=Joe2', 'cn=Kazik Francuski', 'cn=Smith Dave', 'cn=thomas bob', 'cn=Verónica (1)', and 'ou=People-copy8 (21)'. A green arrow points from 'cn=Haberland felix' to the 'ObjectClasses' list. The 'ObjectClasses' list is expanded, showing various object classes like 'ou=People (22)', 'cn=Funk Bob', 'cn=Haberland felix', 'cn=Joe2', 'cn=Kazik Francuski', 'cn=Smith Dave', 'cn=thomas bob', 'cn=Verónica (1)', and 'ou=People-copy8 (21)'. The 'organizationalPerson' class is highlighted. At the bottom of the wizard, there is a 'Hint: You must choose at least one structural objectClass' and a 'Proceed >>' button.

phpLDAPAdmin

Sophisticated query tool.

Support for jpegPhoto attributes.

phpLDAPAdmin - CVS

[Request a new feature](#)
[Report a bug](#)

Raider
([schema](#) | [search](#) | [refresh](#) | [create](#) | [info](#) | [import](#))

- dc=example , dc=com (9)
 - cn=admin
 - cn=dave test
 - cn=MyGroup
 - cn=test
 - cn=test smith2
 - ou=automount
 - ou=People (22)
 - cn=Funk Bob
 - cn=Haberland felix
 - cn=Joe2
 - cn=Kazik Francuski
 - cn=Smith Dave
 - cn=thomas bob
 - cn=Verónica (1)
 - ou=People-copy8 (21)
 - uid=bäb
 - uid=dsmith
 - uid=esanford
 - uid=gsanford

Advanced Search Form
([Simple Search Form](#) | [Predefined Searches](#))

Server: Raider
Base DN: dc=example,dc=com
Search Scope: Sub (entire subtree)
Search Filter: jpegPhoto=*
Show Attributes: cn, jpegPhoto, postalAddress
[Search]

Searching...
Entries found: **121** (1.67 seconds).
Showing results **1** through **50**.
« 1 2 3 »

cn=Haberland felix
dn: cn=Haberland felix,ou=People,dc=example,dc=com
cn: Haberland felix
jpegPhoto: mono::

cn=Joe2
dn: cn=Joe2,ou=People,dc=example,dc=com
cn: Joe2
jpegPhoto:

Waiting for raider...

LDAP Account Manager

<http://lam.sourceforge.net/>

- A web based interface loosely associated with the Samba project.
- Supports the various NSS related objectclasses.
- Supports the Samba v3 schema.



Evolution

- Of all the clients tested Novell's Evolution has the most complete and robust LDAP support.
- Pros
 - Write support!
 - Lots of information exposed.
- Cons
 - No support for SASL binds.
- Notes
 - Requires the installation of the Evolution specific schema.
 - These objectclasses are structural, and thus create objectclass chaining problems.
 - Use the mHybridPerson objectclass.

Evolution

Creating an LDAP Addressbook

In the “Contacts” view right click in the sources pane and select “New Address Book”.

The 'Address Book Properties' dialog box is shown with the 'General' tab selected. The 'Display' section has 'Name' set to 'MI4 Enterprise Directory (Aliases)'. The 'Server Information' section has 'Server' set to 'littleboy.morrison.iserv.net', 'Port' set to '389', and 'Use secure connection' set to 'Always'. The 'Authentication' section has 'Log in method' set to 'Using distinguished name (DN)' and 'Login' set to 'cn=Adam Williams,ou=People,o=M'. A green arrow points from the 'Login' field to the text 'No SASL support for DSA binding!' at the bottom of the slide.

Address Book Properties

General Details

Display

Name: MI4 Enterprise Directory (Aliases)

Server Information

Server: littleboy.morrison.iserv.net

Port: 389

Use secure connection: Always

Authentication

Log in method: Using distinguished name (DN)

Login: cn=Adam Williams,ou=People,o=M

Cancel OK

The 'Address Book Properties' dialog box is shown with the 'Details' tab selected. The 'Searching' section has 'Search base' set to 'stems,o=Morrison Industries,c=US' and 'Search scope' set to 'Sub'. The 'Downloading' section has 'Timeout' set to '1' minute and 'Download limit' set to '100' cards. The 'OK' button is highlighted with a blue border.

Address Book Properties

General Details

Searching

Search base: stems,o=Morrison Industries,c=US

Find Possible Search Bases

Search scope: Sub

Downloading

Timeout: 1 5 minutes

Download limit: 100 cards

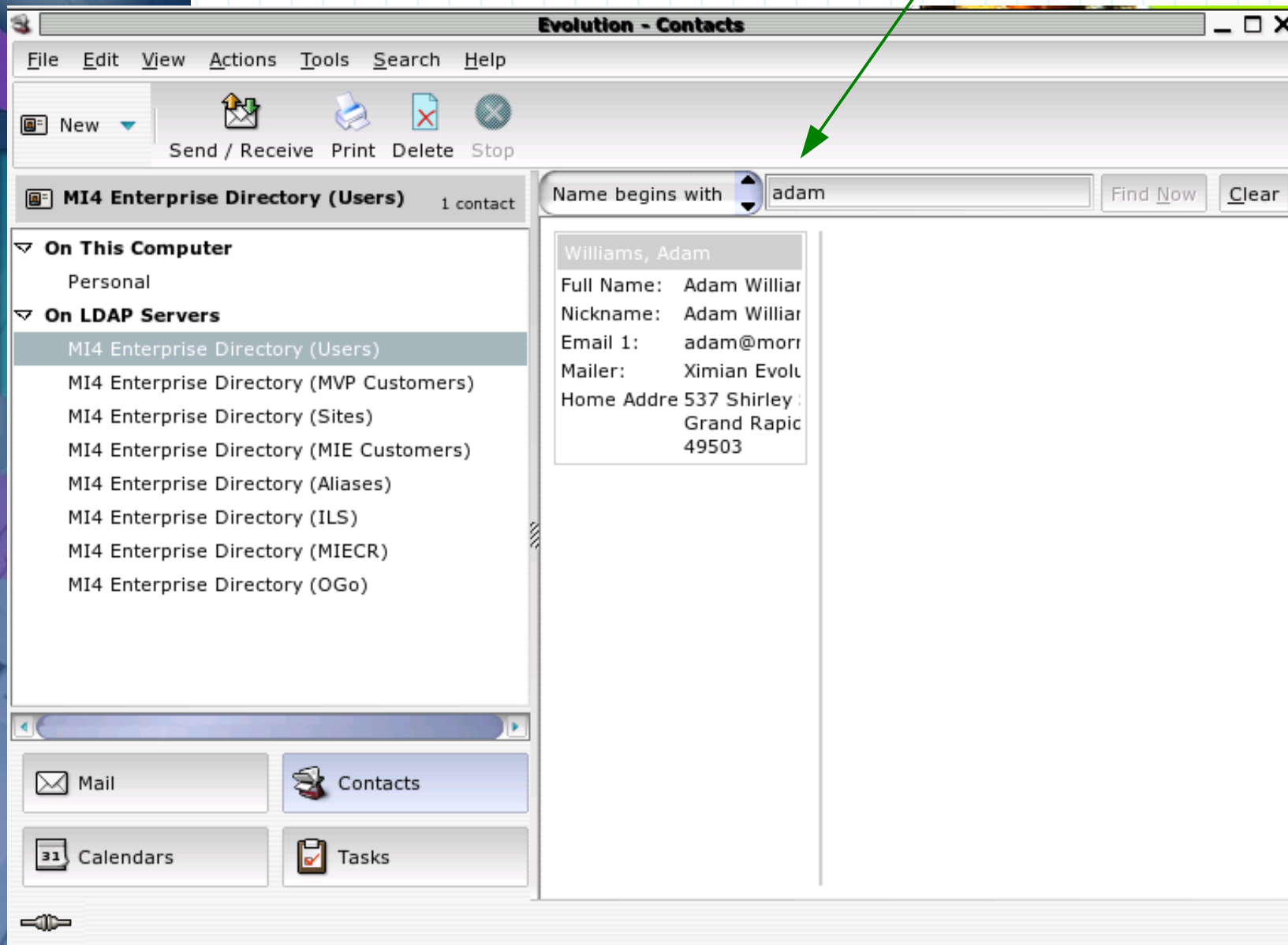
Cancel OK

No SASL support for DSA binding!

Evolution

Contact Search

Searching works the same as with a local address book.




Evolution

Contact Information

Contact Editor

Contact Personal Information Mailing Address

 Full Name: Adam Williams Nickname: Adam Williams
File under: Williams, Adam Where: MI4 Enterprise Directory (Users)
Categories:

Email




Work: adam@morrison-ind.com Other:
Home: Other:
☐ Wants to receive HTML mail

Telephone

Business Fax: 663611124 Business Phone: 6164473822
Home Phone: 6164568931 Other Fax: 6163611775
Assistant Phone: 6164473820 Other Phone:
Mobile Phone: 665818010 Other Phone:

Instant Messaging

AIM: ICQ:
Yahoo: GroupWise:

 Help  Cancel  OK

cn

fileAs*

displayName

mail

facsimileTelephoneNumber

homePhone

telephoneNumber

mobile

Evolution

Contact Information

labeledURI

calCalURI

calFBURL

businessRole*

organizationName

roomNumber

spouseName*

note*

title

organizationalUnitName

managerName*

assistantName*

birthDate*

anniversary*

Help

Cancel

OK

Contact Editor

Contact Personal Information Mailing Address

Web Addresses

Home Page:

Web Log:

Calendar:

Free/Busy:

Video Chat:

Job

Profession:

Title:

Company:

Department:

Manager:

Assistant:

Miscellaneous

Office:

Birthday:

Spouse:

Anniversary:

Notes:

Evolution

Contact Information

Contact Editor _ □ ×

Contact Personal Information **Mailing Address**

Home

Address: 537 Shirley St. NE
Grand Rapids, Mi.
49503

City:

Zip/Postal Code:

State/Province:

PO Box:

Country:

Work

Address: 1825 Monroe Ave NW
Grand Rapids, Mi.
49505

City:

Zip/Postal Code:

State/Province:

PO Box:

Country:

Other

Address:

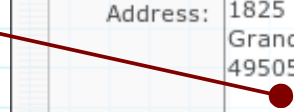
City:


Zip/Postal Code:


State/Province:


PO Box:


Country:





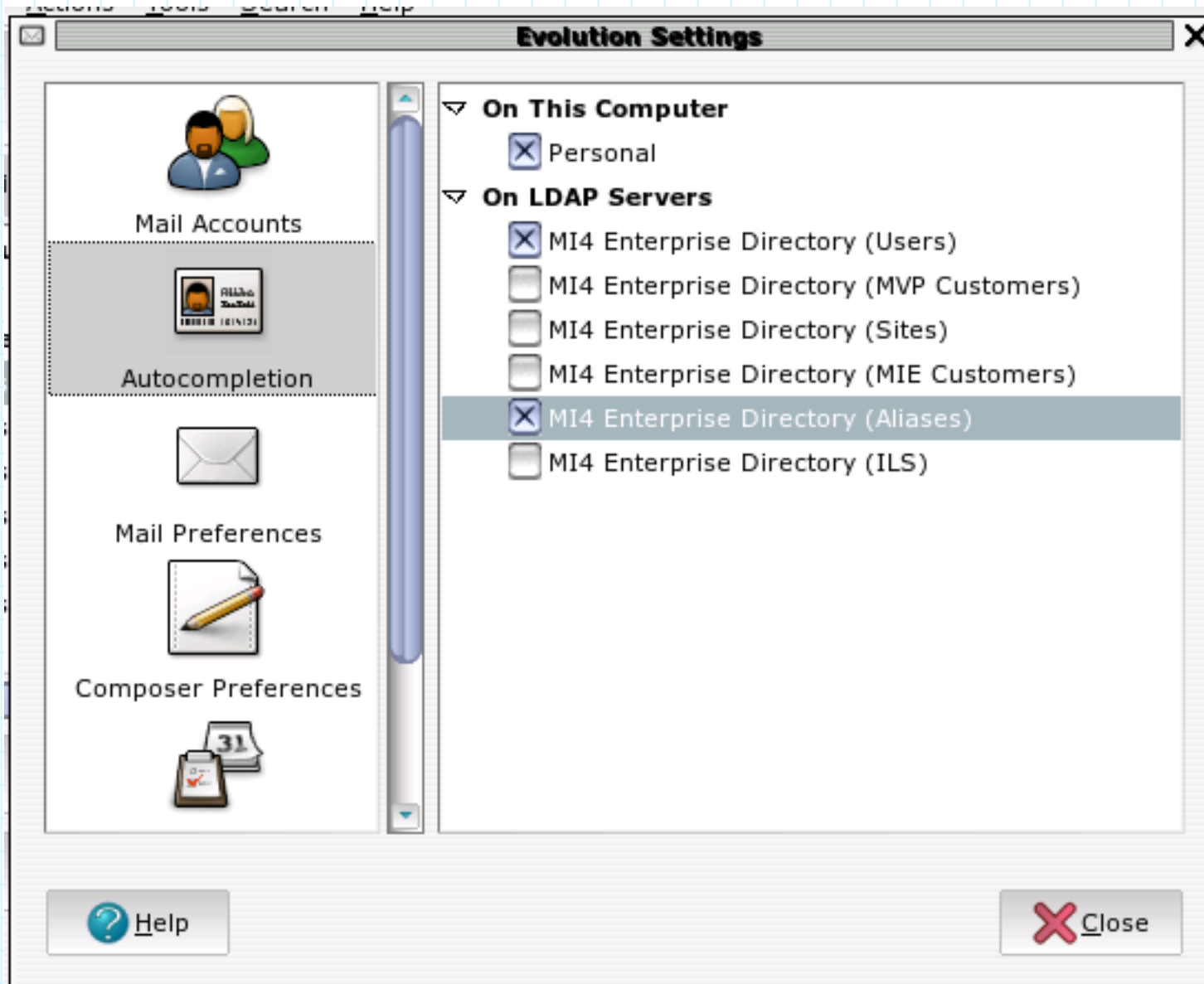
 Help

 Cancel

 OK

Evolution

Autocompletion



Evolution

(Meetings)

Appointment - No summary

Appointment Recurrence Scheduling **Invitations**

Organizer: Adam Tauno Williams <awilliam@whitemice.org>

Attendees

Attendee	Type	Role	RSVP	Status
awilliam@whitemice.org	Individual	Required Participant	Yes	Needs Action
Steve VanderZouwen	Individual	Required Participant	Yes	Needs Action

Steve VanderZouw...
Steve Echtenaw <se...
Stevens, Debra <d...
Steve Cerutti <ceru...
Steve Johnson <sj...

+ Add
- Remove
Contacts...

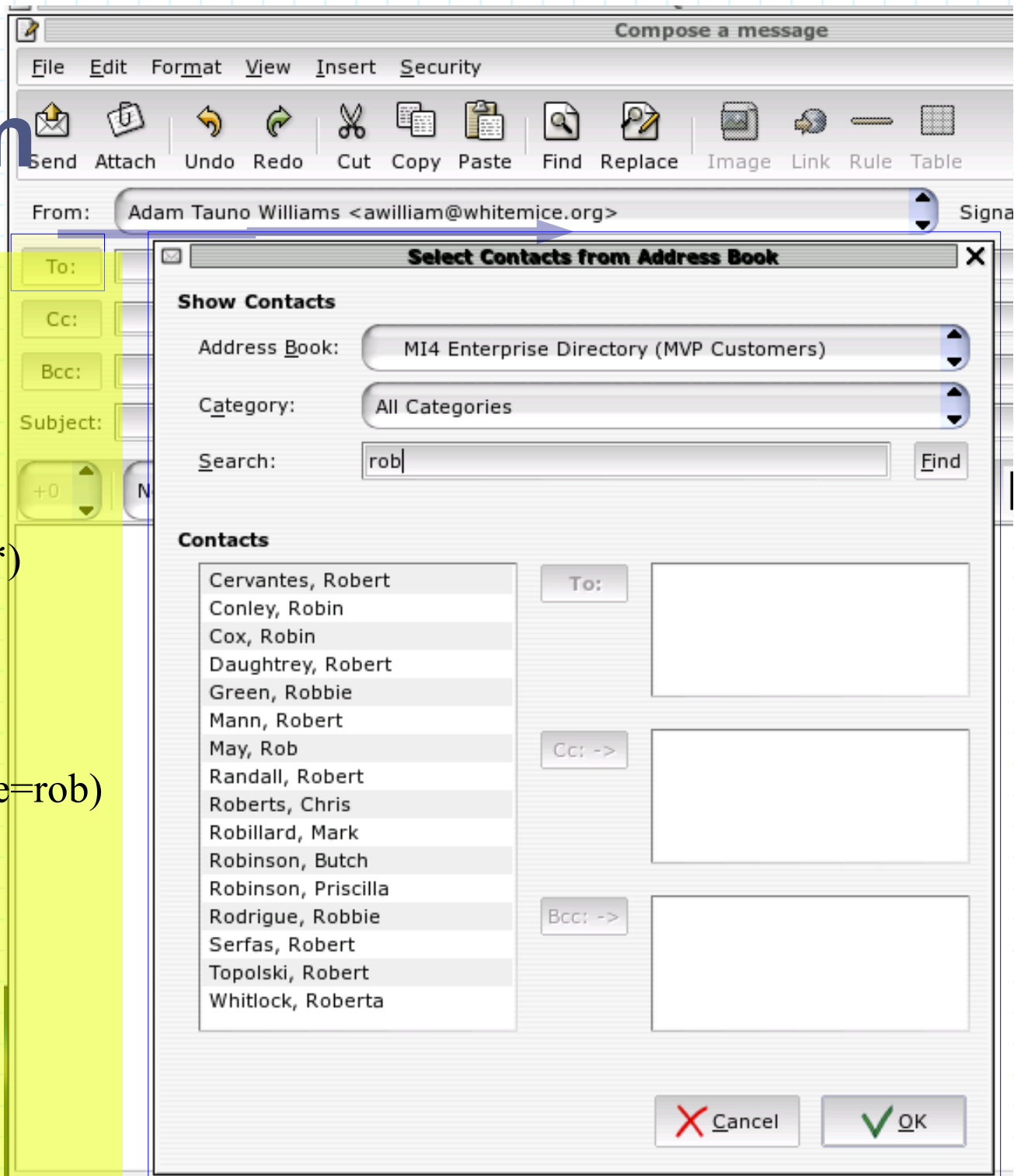
X Cancel OK

Autocompletion sources are available for selecting as meeting attendees as well.

Evolution

(Search Dialog)

```
>(& and
  >(| or
    >(| or
      >(fileAs=rob)
      >(& and
        >(! not
          >(fileAs=*)
          >
        >(sn=rob)
        >
      >)
    >
  >(displayName=rob)
  >(| or
    >(cn=rob)
    >(sn=rob)
    >
  >(mail=rob)
  >
  >(mail=*)
  >
)
```





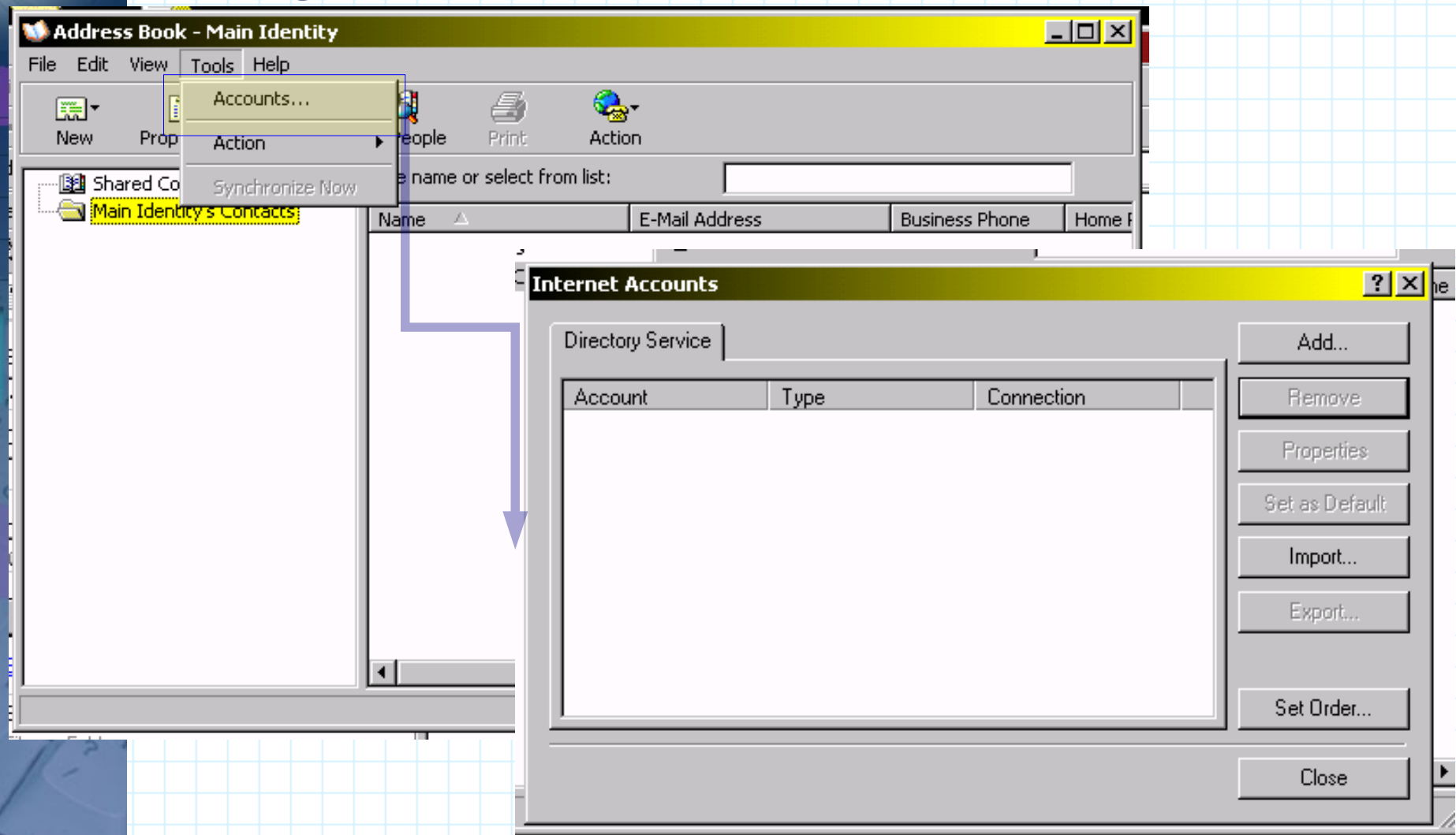
WAB

Windows Address Book

- WAB is the address book integrated into most Microsoft Windows applications, including Microsoft Outlook.
- Pros
 - Used by most Windows applications
 - Lots of information exposed.
 - Supports SSL
- Cons
 - Read only.
 - No support for SASL binds.
- Notes
 - Requires the installation of the Outlook specific schema.
 - These objectclasses are structural, and thus create objectclass chaining problems.
 - Use the mHybridPerson objectclass.

WAB

Creating an LDAP source



WAB

Configuration

Internet Accounts

Internet Connection Wizard

Internet Directory Server Name

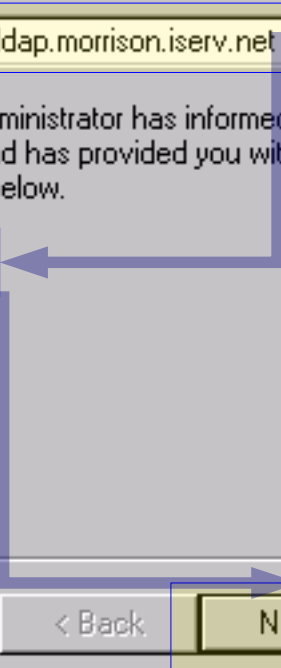
Type the name of the Internet directory (LDAP) server your Internet service provider or system administrator has given you.

Internet directory (LDAP) server:

If your Internet service provider or system administrator has informed you that they require you to log on to your LDAP server and has provided you with an LDAP account name and password, select the check box below.


☒ My LDAP server requires me to log on

< Back Next > Cancel



WAB

Configuration



The image shows a screenshot of the 'Internet Connection Wizard' window, specifically the 'Internet Directory Server Logon' step. The window has a yellow title bar and a light gray background. The title bar contains the text 'Internet Connection Wizard' and a close button. The main title 'Internet Directory Server Logon' is in bold black text. Below the title, there is a text box for the LDAP account name and a password field. The account name is 'cn=Adam Williams,ou=People,o=Morrison Industries,c=US'. The password is masked with 'xxxxxxx'. Below the password field, there is a checkbox for 'Log on using Secure Password Authentication (SPA)'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A blue arrow points from the 'Next >' button to the 'Log on using Secure Password Authentication (SPA)' checkbox.

Internet Connection Wizard

Internet Directory Server Logon

Type the LDAP account name and password your Internet service provider has given you.

Account name:

Password:

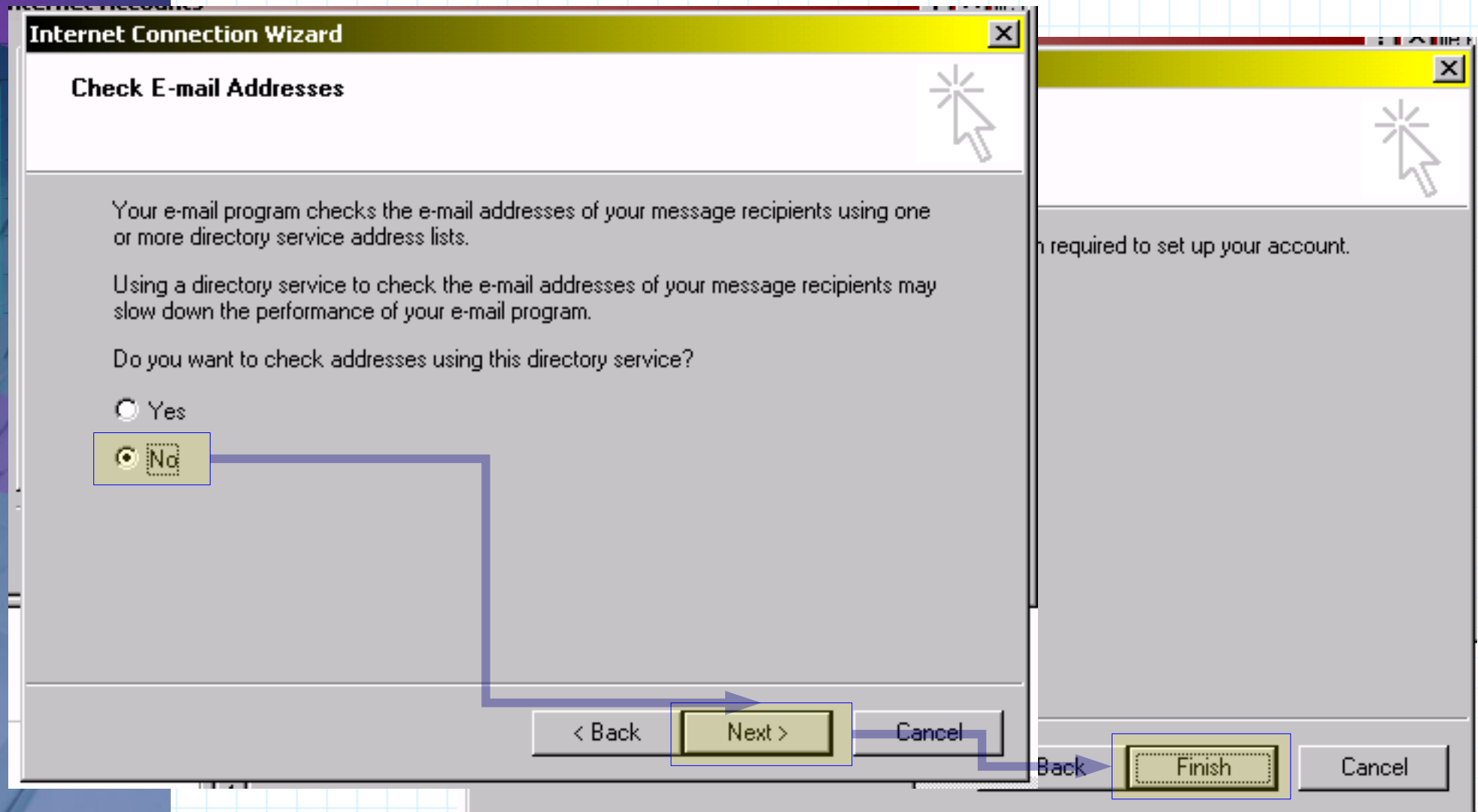
If your Internet service provider requires you to use Secure Password Authentication (SPA) to access your LDAP account, select the 'Log On Using Secure Password Authentication (SPA)' check box.

☐ Log on using Secure Password Authentication (SPA)

< Back **Next >** Cancel

WAB

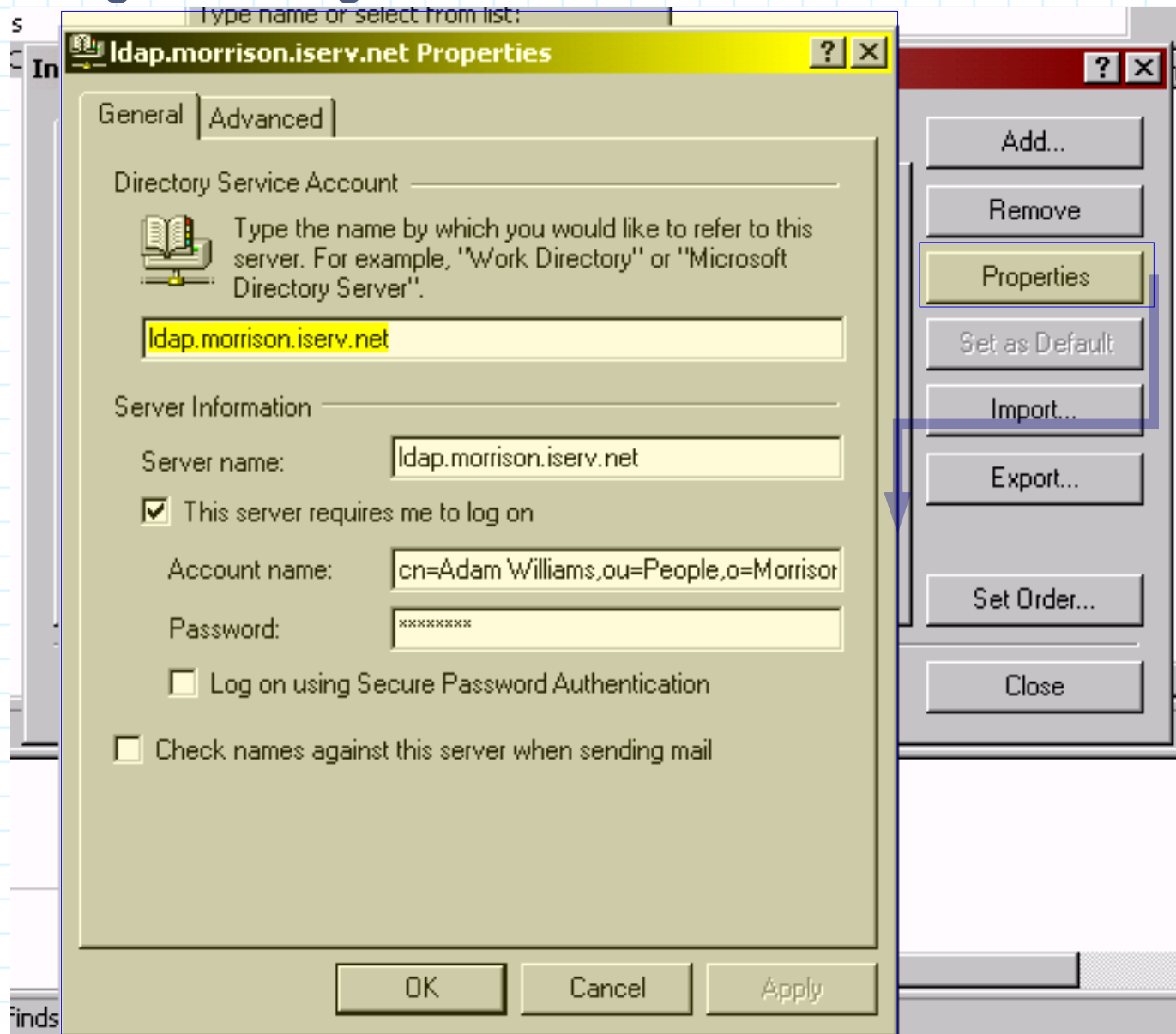
Configuration



WAB

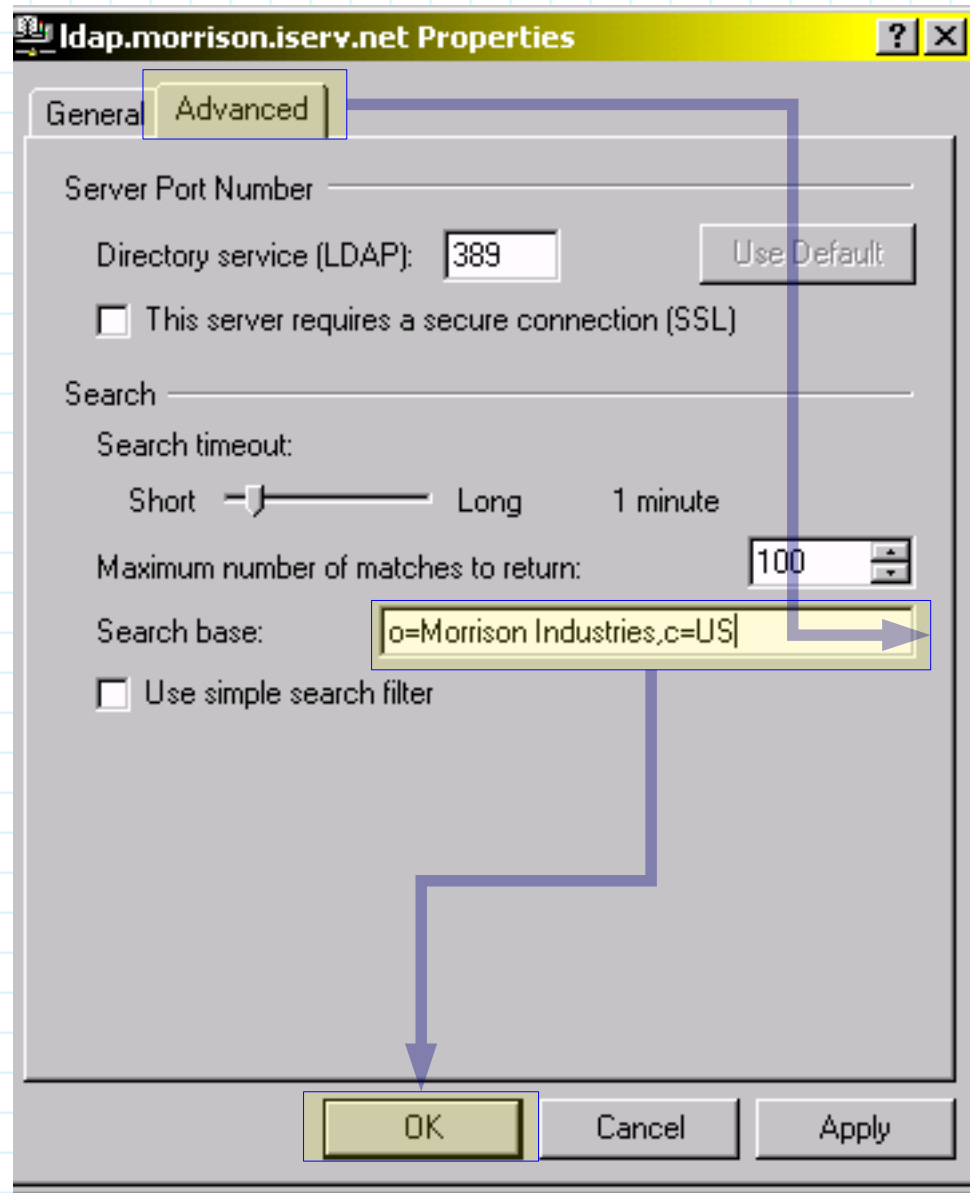
Viewing the configuration

If you thought you were done configuring WAB because you clicked “Finish”, in typical Microsoft fashion – you're wrong.



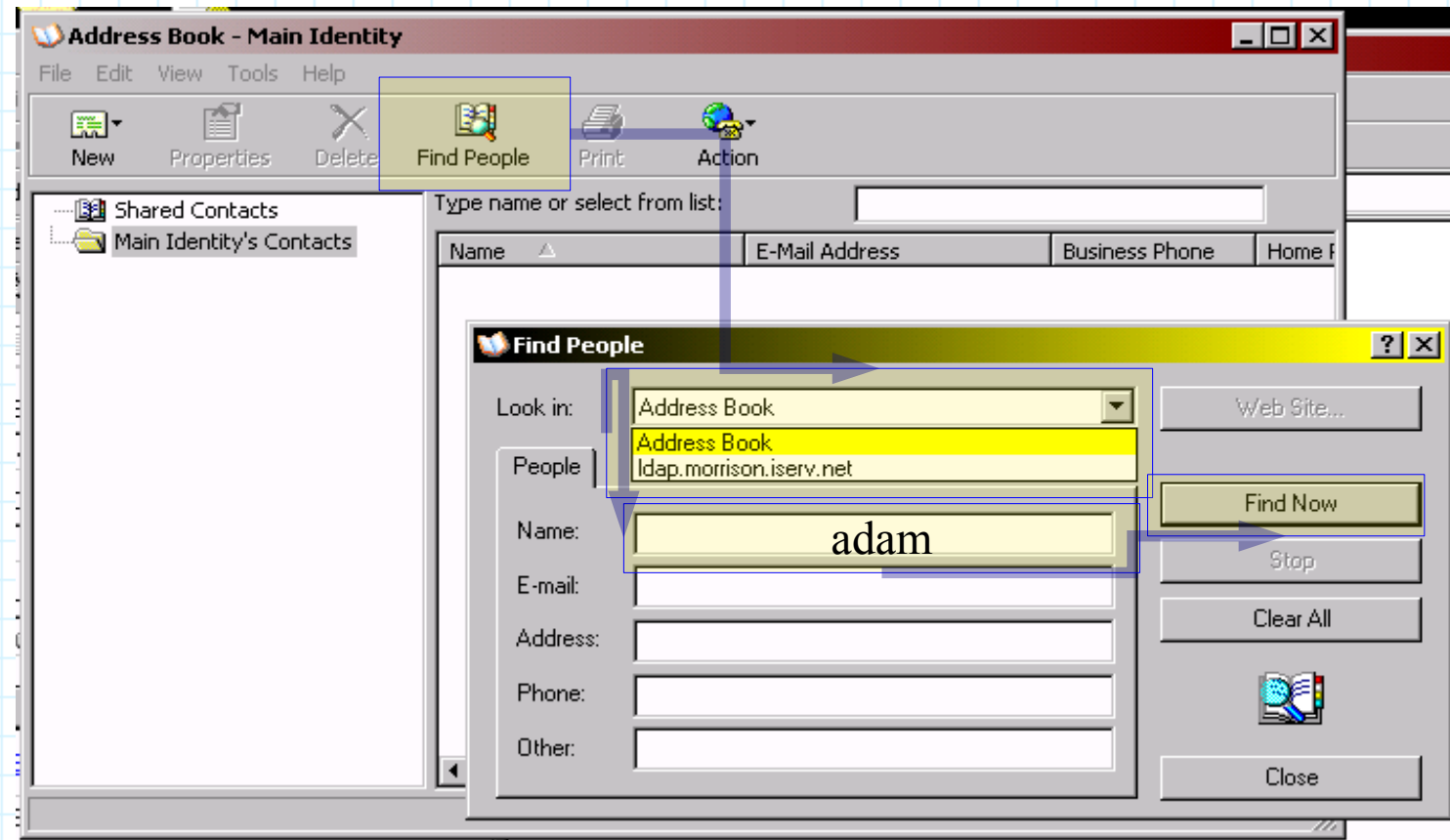
WAB

Setting the search base



WAB

Simple Search



WAB

Simple Search


Find People - (1 entries found) [?] [X]


Look in:

People | **Advanced**

Name:

E-mail:



Name	E-Mail Address
 Adam Williams	adam@morrison-ind.com

```
>(& and
> (mail=*)
> (| or
> (mail=rqxwe*)
> (| or
> (cn=rqxwe*)
> (| or
> (sn=rqxwe*)
> (givenname=rqxwe*)
> )
> )
> )
> )
```

WAB

Advanced Search


Find People - (81 entries found) [?] [X]










Look in:

People | **Advanced**

Define Criteria

Organization contains lift



Name	E-Mail Address
 Aaron Lueck	alueck@wisconsinlift.com
 Al Maslag	alfred.maslag@crown.com
 Alvin Ayers	ayerslift@aol.com
 Bill Flood	wousley@clarkliftforlando...
 Bob Callahan	bobcallahan@clarkmhc.com
 Boyd Harvey	boyd_harvey@floridalift.com
 Brian Riggs	briggs@wisconsinlift.com
 Candie Riehl	criehl@liftincorporated.com
 Charles Laska	claska@wisconsinlift.com

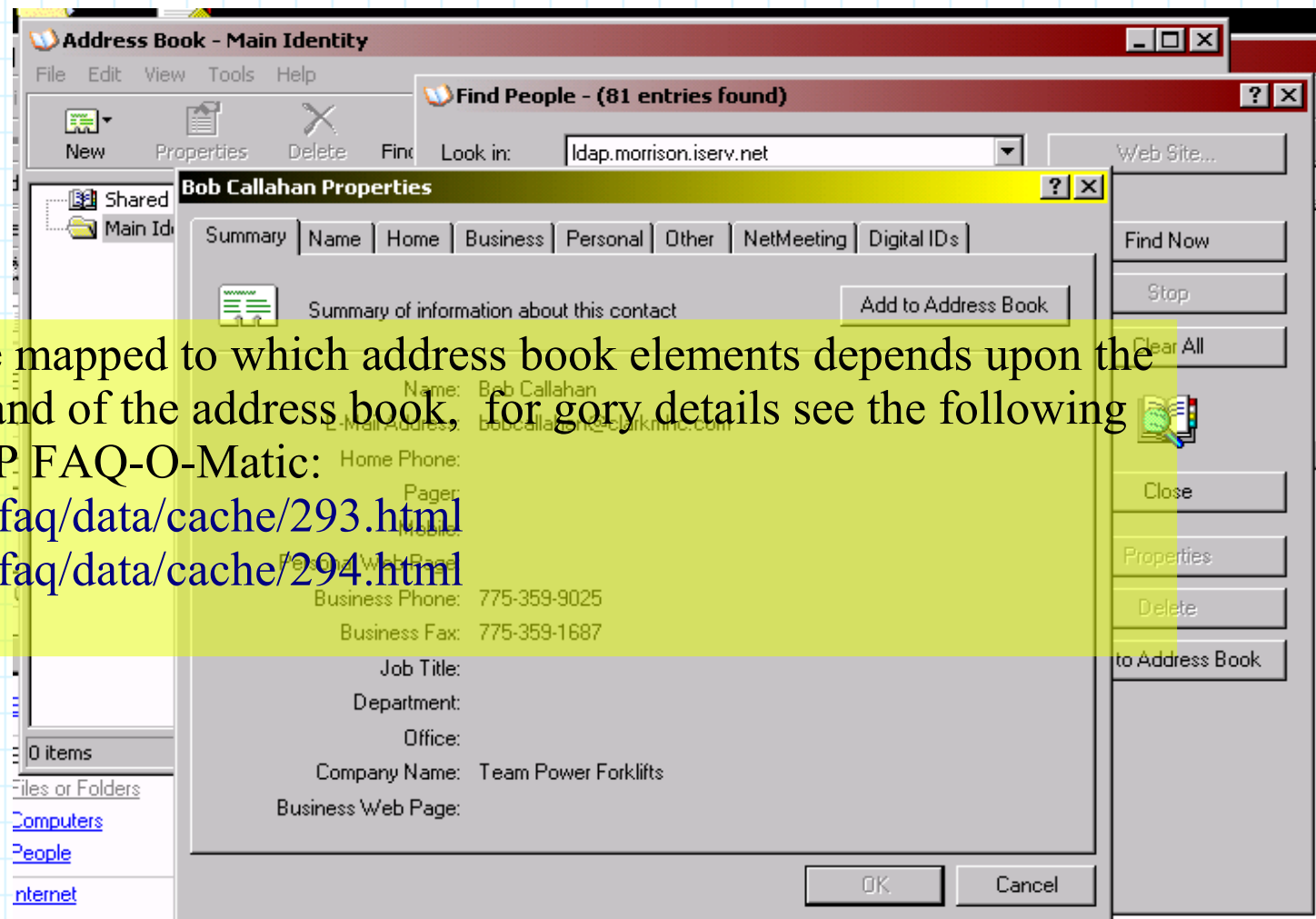
WAB

Contact Information

What LDAP attributes are mapped to which address book elements depends upon the version of MS-Windows and of the address book. For more details see the following sections of the OpenLDAP FAQ-O-Matic:

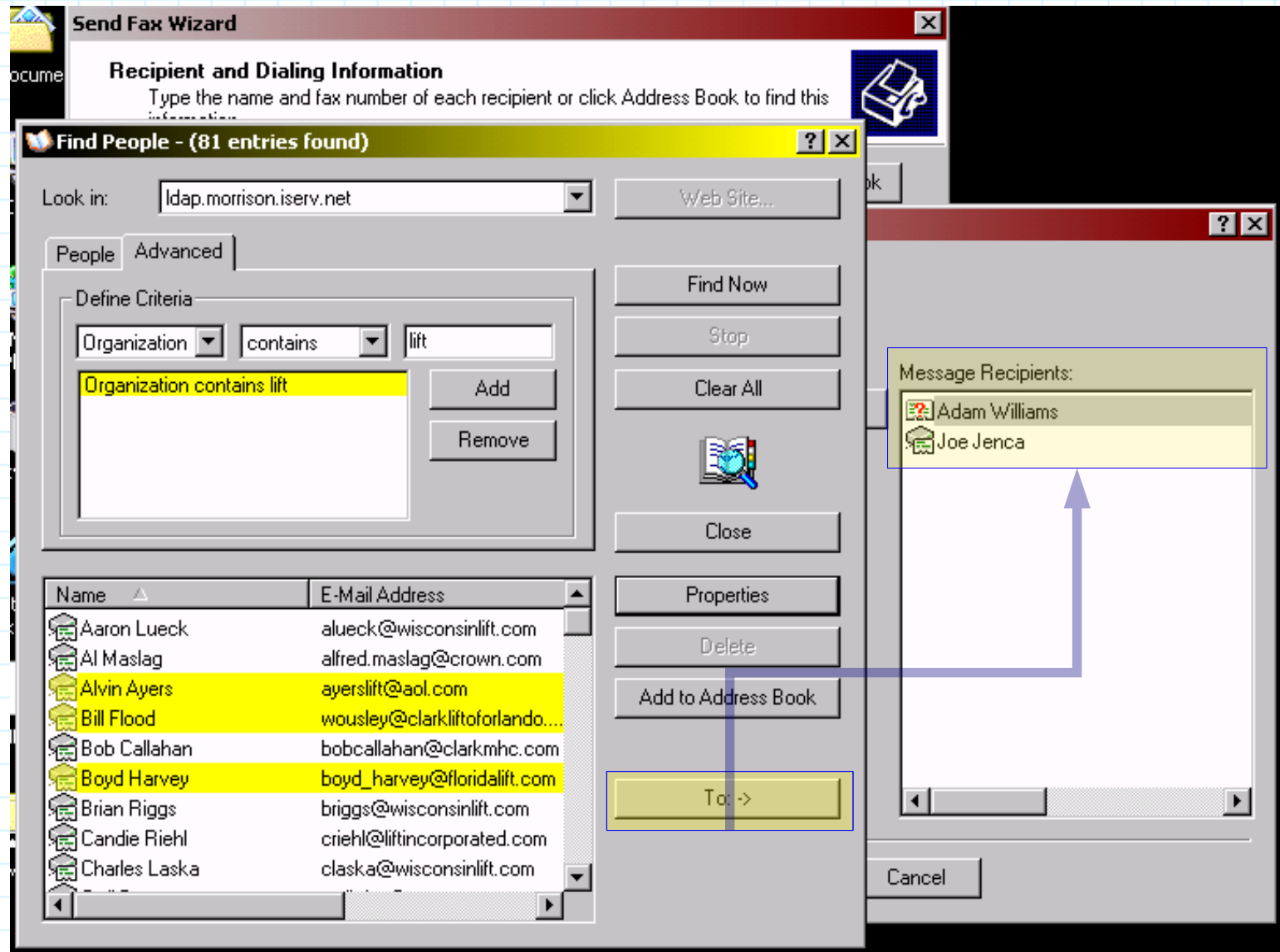
<http://www.openldap.org/faq/data/cache/293.html>

<http://www.openldap.org/faq/data/cache/294.html>



WAB

Called from another application



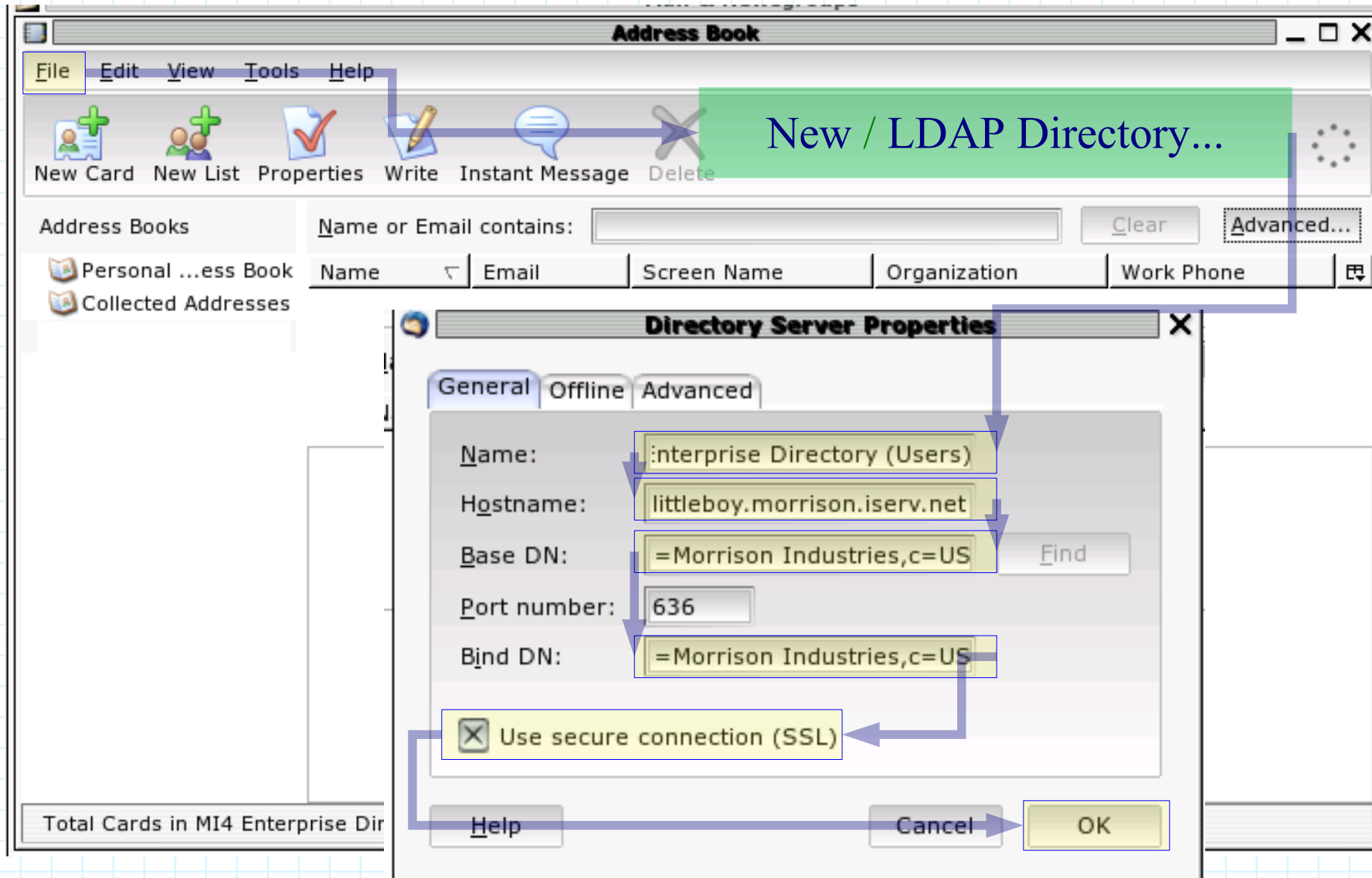


Thunderbird

- Thunderbird inherits its LDAP support (and its limitations) from the Mozilla project
 - Pros
 - Supports SSL
 - But apparently not TLS
 - Offline cache
 - Cons
 - Read only.
 - No support for SASL binds.
 - Limited information presented.
 - Thunderbird's address book is clearly an *e-mail client's address book* rather than a general purpose contact management interface.

Thunderbird

Configuration



Thunderbird

Addressbook

The screenshot displays the Thunderbird Address Book window. The menu bar includes File, Edit, View, Tools, and Help. The toolbar contains icons for New Card, New List, Properties, Write, Instant Message, and Delete. The Address Books sidebar on the left lists Personal ...ess Book, Collected Addresses, and MI4 Enter... (Users). The main pane shows a search for 'adam' with 2 matches found. The search results table lists Adam Williams and Randa Williams. A detailed card for Adam Williams is shown below the results.

Address Book

File Edit View Tools Help

New Card New List Properties Write Instant Message Delete

Address Books: Personal ...ess Book, Collected Addresses, MI4 Enter... (Users)

Name or Email contains: Clear Advanced...

Name	Email	Screen Name	Organization	Work Phone
Adam ...	adam@morr...		Morrison Industries	6164473822
Randa ...	radams@m...		Morrison Industrial ...	5742874290

Card for Adam Williams

Contact	Phone
Display Name: Adam Williams Email: adam@morrison-ind.com	Work: 6164473822 Home: 6164568931 Fax: 6163611124 Mobile: 6165818010
Work System and Network Administrator CIS/IT Morrison Industries Grand Rapids, Mi 49505	

2 matches found

Thunderbird

Contact Details`

givenName

sn

cn

[Wrong!]

mail

telephoneNumber

homePhone

facsimileTelephoneNumber

pager

mobile

Thunderbird - Edit Card

Edit Card for Adam Williams

Contact Address Other

Name

First: Adam

Last: Williams

Display: Adam Williams

Nickname:

Internet

Email: adam@morrison-ind.com

Additional Email:

Prefers to receive messages formatted as: Unknown

Screen Name:

Phones

Work: 64473822

Home: 64568931

Fax: 63611124

Pager:

Mobile: 65818010

Cancel OK

Thunderbird

Contact Details

title

organizationalUnitName

organizationName

l

st

postalCode

Edit Card for Adam Williams

Contact Address Other

Home

Address:

City:

State/Province: ZIP/Postal Code:

Country:

Web Page:

Work

Title:

Department:

Organization:

Address:

City:

State/Province: ZIP/Postal Code:

Country:

Web Page:

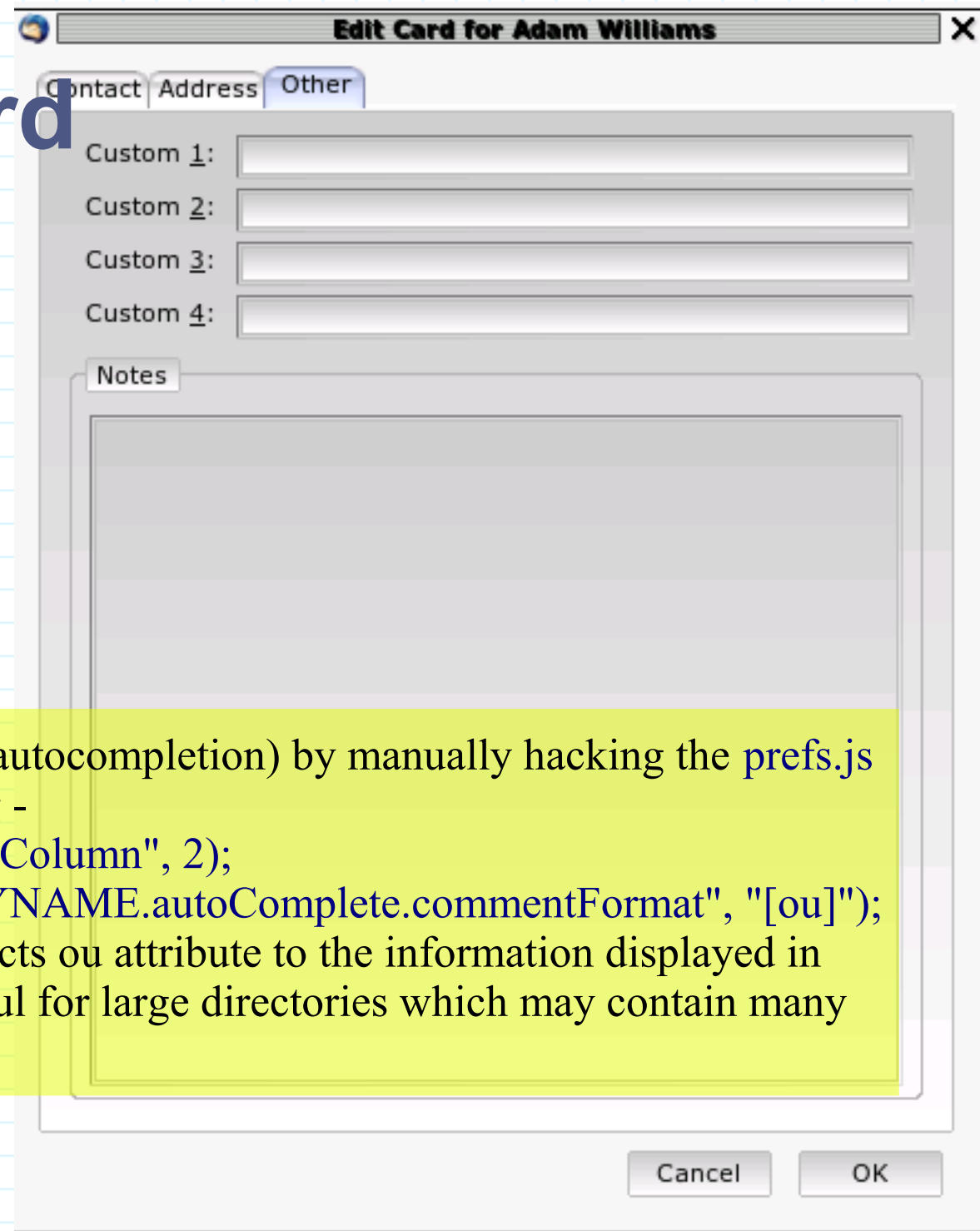
Cancel OK

Thunderbird

Contact Details

Totally useless.

You can tweak the address 'typedown' (autocompletion) by manually hacking the `prefs.js` file in your Thunderbird profile; adding -
`user_pref("mail.autoComplete.commentColumn", 2);`
`user_pref("ldap_2.servers.DIRECTORYNAME.autoComplete.commentFormat", "[ou]");`
- for instance, adds the value of the objects ou attribute to the information displayed in the typedown pop-up. This is very useful for large directories which may contain many duplicate common names.



The screenshot shows a window titled "Edit Card for Adam Williams" with a close button (X) in the top right corner. The window has three tabs: "Contact", "Address", and "Other", with "Other" being the active tab. Below the tabs, there are four "Custom" fields labeled "Custom 1:", "Custom 2:", "Custom 3:", and "Custom 4:", each followed by an empty text input box. Below these fields is a "Notes" section with a large, empty text area. At the bottom of the window, there are two buttons: "Cancel" and "OK".

Thunderbird

Contact Details

Advanced Address Book Search

Search in: **MI4 Enterprise Directory (U...)** **Search** **Clear**

☐ Match all of the following ☒ Match any of the following

Organization contains **lift**

More **Fewer**

Name	Email	Organization	Work Phone
Becky Sava...	rsavage@nissan...	Nissa...	
Erika Byxbe	ebyxbe@nissanf...	Nissa...	
Greg Van ...	gvanhees@niss...	Nissa...	
Heather Ne...	hnewton@nissa...	Nissa...	
Scott Edwa...	sedwards@niss...	Nissa...	

Properties **Write**

5 matches found

Other Clients...



- Administrative Tools

- LUMA
 - Platform: Python/Qt
 - <http://luma.sourceforge.net/>
- lat
 - Platform: C#/GTK#
 - <http://people.mmgsecurity.com/~lorenb/lat/>
- GOsa
 - Platform: PHP
 - <https://gosa.gonicus.de/>
- Erudite
 - Platform: Python/GTK
 - <http://edsadmin.sourceforge.net/>
- Eye Of Newt
 - Platform: Java
 - <http://freshmeat.net/projects/eon/>