

M-Switch X.400 Evaluation Guide

Configuring R19.0 release of Isode's X.400 Messaging Servers on Windows and Linux Platforms for use as an X.400 Messaging System that could be used in both EDI and Aviation Solutions.

Contents

Introduction	3
Objectives	3
Using Isode Support.....	5
Preparing the Server Environment.....	6
Naming the Server	6
Install the Isode Software	6
Activating the Isode Products.....	6
Creating the Messaging Configuration	7
Running the M-Console Configuration Wizard.....	7
Starting the Services	20
Configuring the X.400 P7 Users	23
Testing the System with XUXA	29
Adding an External MTA and Address Book entries.....	43
Configuring the External MTA with M-Console.....	43
Adding Address Book Entries with Sodium	54
Sending a Message to an External X.400 User with XUXA.	61
What Next?.....	64
Whitepapers	64
Copyright	65

Introduction

This guide is intended to give the reader basic information on how to configure Isode’s M-Switch, M-Vault and M-Store X.400 Server Products. These Products combine to create an X.400 Messaging Solution. You will also use Isode’s XUXA X.400 User Agent to test the system.

More information on these products can be found at the URLs below.

<https://www.isode.com/product/x-400-message-switch/>

<https://www.isode.com/product/x-400-message-store/>

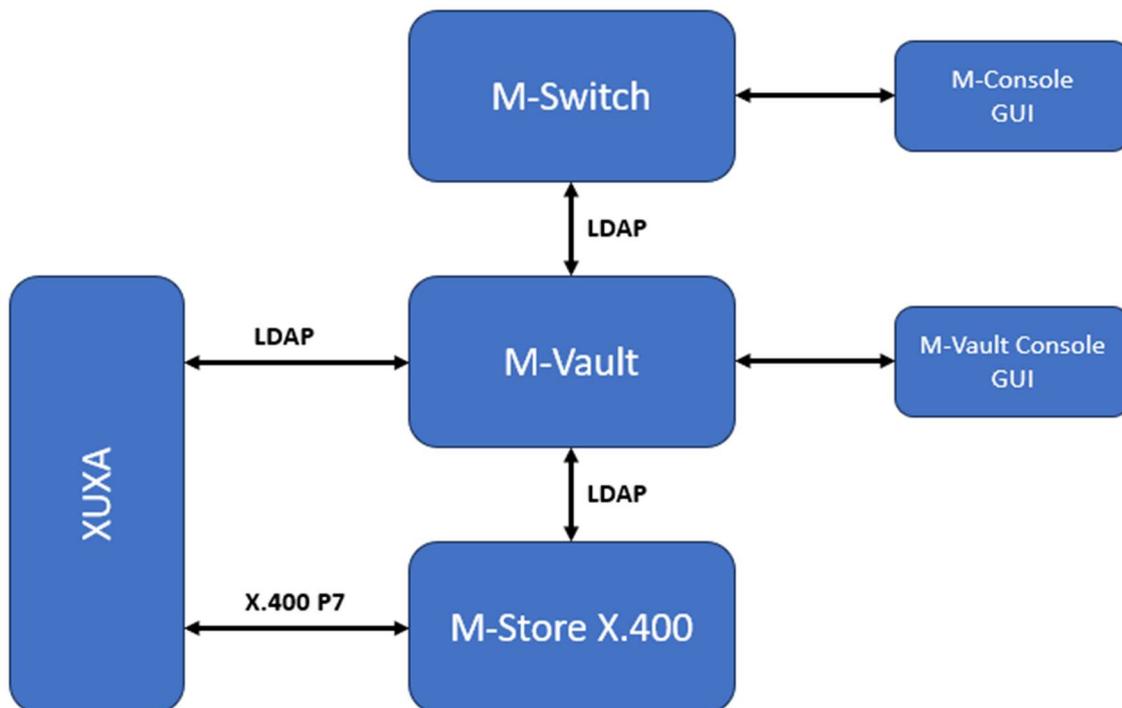
www.isode.com/product/ldap-x-500-directory/

Objectives

In this guide you will be shown how to configure the X.400 PRMD “/P=X400/A=Isode/C=GB/ and to configure connections to other X.400 MTAs.

The diagram below gives an overview of this setup.

System Overview



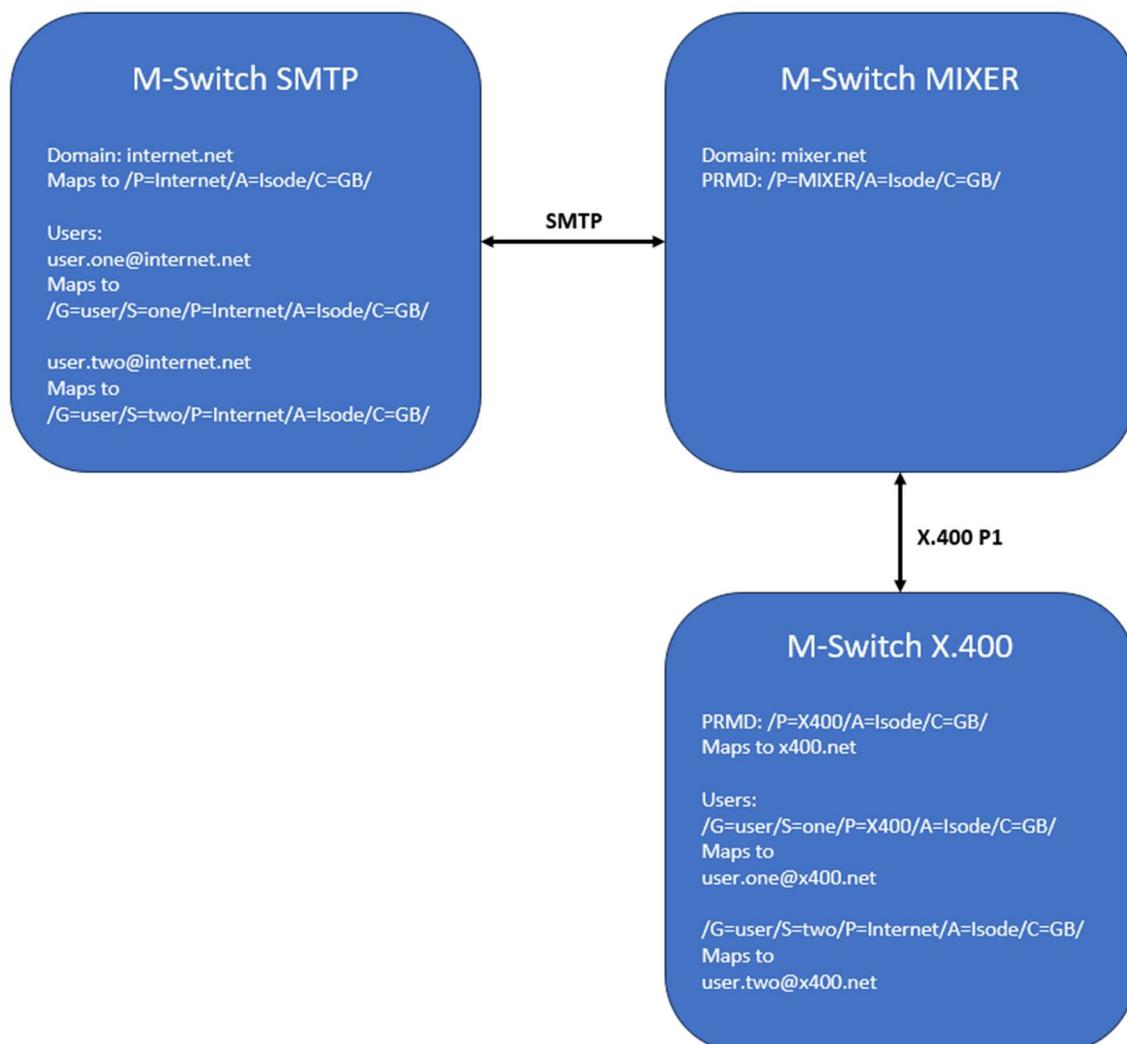
By the end of this guide you will have:

1. Installed the M-Switch, M-Vault, and M-Store X.400 products.
2. Configured M-Switch and M-Vault using M-Console.
3. Provisioned Users using M-Console.
4. Configured XUXA to connect to these Users.
5. Logged in using XUXA and sent Messages between Local X.400 Users
6. Created a connection to an external X.400 MTA server (M-Switch MIXER).

For the purposes of this evaluation, we have assumed this is a "clean" installation of the Isode Software on to a physical or virtual machine. If you have previously installed the Isode Software on the hardware or VM you are using for this evaluation, please make sure you have completely uninstalled that version and any configurations before proceeding.

This guide is part of a set of three Guides; M-Switch SMTP, M-Switch MIXER and M-Switch X.400 and they connect to each other as below.

M-Switch SMTP, M-Switch MIXER & M-Switch X.400



Using Isode Support

You will be given access to Isode support resources when carrying out your evaluation. Any queries you have during your evaluation should be sent to isode.support@isode.com. Please note that access to the Self-Service Portal for web-based ticket submission and tracking is not available to evaluators.

Preparing the Server Environment

You should visit <https://www.isode.com/support/platform-support/> to discover which operating systems are supported for Isode evaluations.

Naming the Server

In this eval guide the machine name is: ISODE-X400-EVAL

In this eval guide there is no dns suffix for the server.

Alternatively, you may use your own names or add dns entries in a dns server or hosts file.

Install the Isode Software

Follow the instructions in the release notes for the appropriate platform for the products. For this guide, the following products were used:

M-Switch 19.ov21

M-Vault 19.ov21

M-Store X.400 19.ov21

MAS 1.1

On Windows, select the default install options when executing the installer for the Isode Products.

Remember to install an appropriate java runtime engine (refer to product release notes) and in a Windows environment the visual c++ redistributable package.

On Linux, install all the RPMs with the command:

```
# sudo rpm -i ISD*.rpm
```

Please use a supported web browser as documented in the product release notes.

Activating the Isode Products

The Isode Products are Activated using the Isode Messaging Activation Server (MAS). You should refer to the MAS Evaluation Guide for how to Activate the Products.

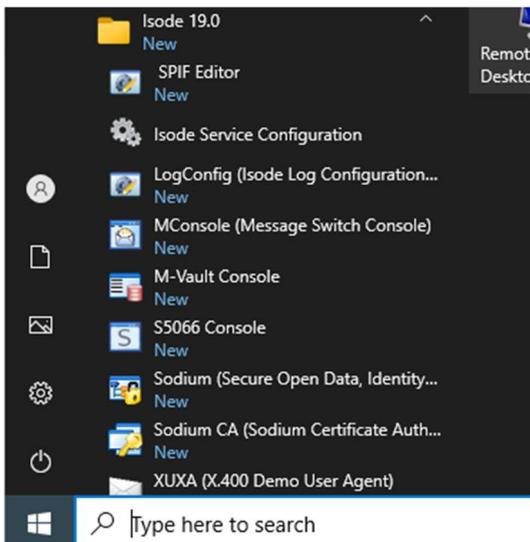
Creating the Messaging Configuration

Running the M-Console Configuration Wizard

In this chapter we will create the Messaging Configuration, which is held in M-Vault, and use M-Console to do this.

To start M-Console on Windows from the Windows Start Menu; Windows→Isode 19.0→M-Console

Start M-Console



On Linux type the command:

```
# /opt/isode/isode/bin/mconsole
```

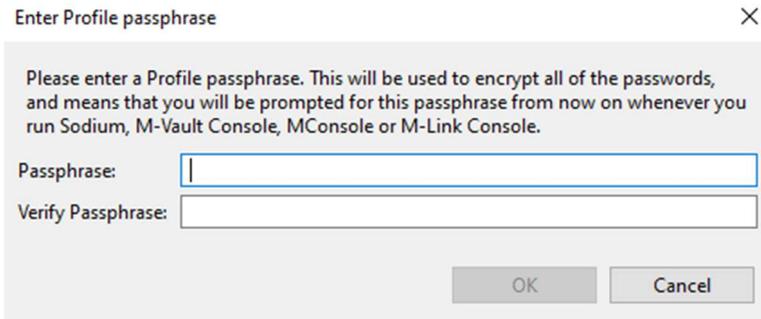
You will see the following prompt.

Encrypt the Bind Profile



Click "Yes"

Enter Bind Profile Passphrase



Enter Profile passphrase

Please enter a Profile passphrase. This will be used to encrypt all of the passwords, and means that you will be prompted for this passphrase from now on whenever you run Sodium, M-Vault Console, MConsole or M-Link Console.

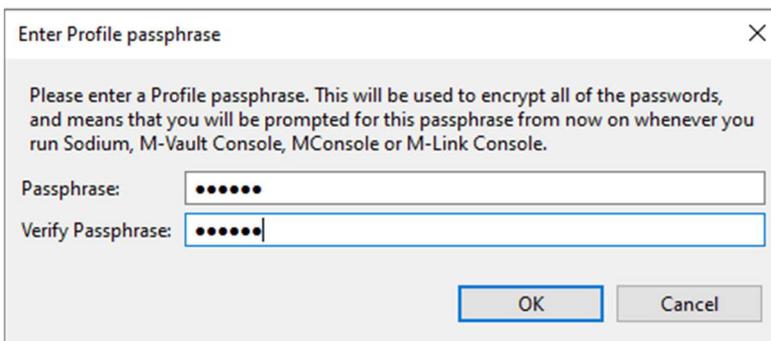
Passphrase:

Verify Passphrase:

OK Cancel

Enter your chosen passphrase, for evaluations we suggest “secret” so that if you need Isode Support we do not have to fix forgotten passwords etc.

Bind Profile Passphrase Entered



Enter Profile passphrase

Please enter a Profile passphrase. This will be used to encrypt all of the passwords, and means that you will be prompted for this passphrase from now on whenever you run Sodium, M-Vault Console, MConsole or M-Link Console.

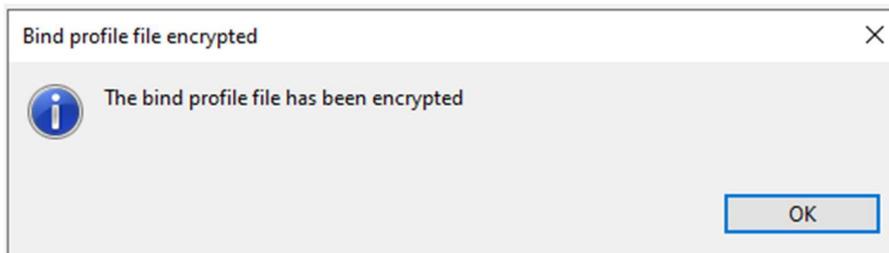
Passphrase:

Verify Passphrase:

OK Cancel

Click “OK”

Bind Profile Encrypted



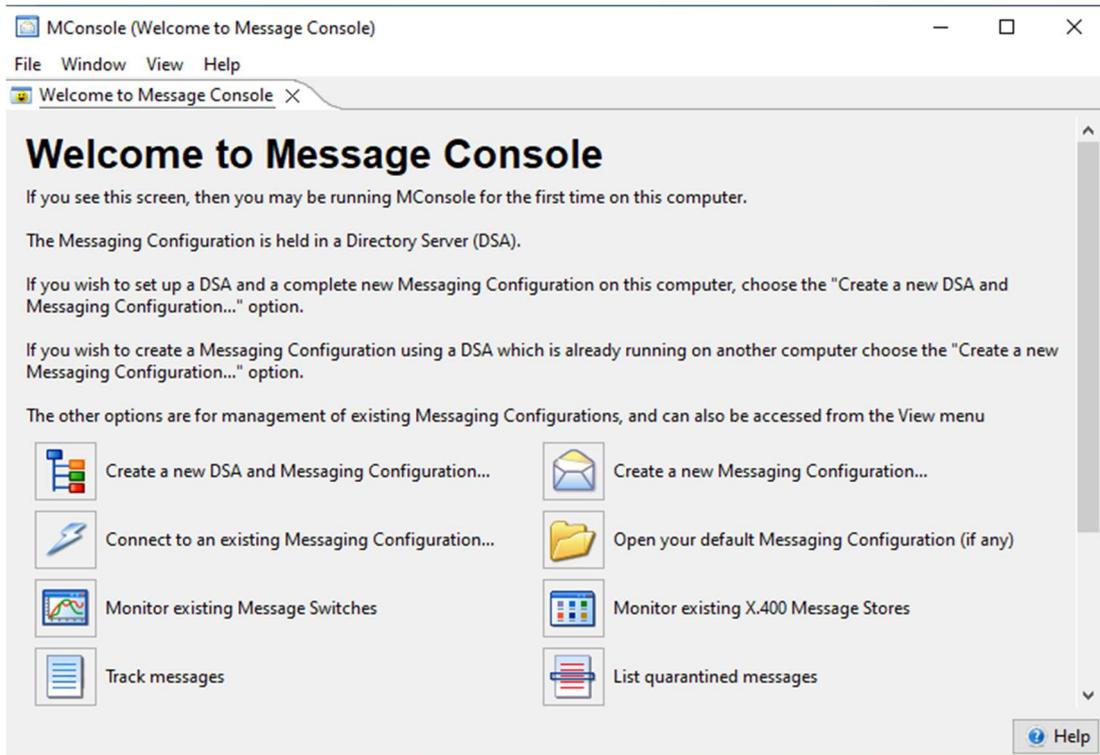
Bind profile file encrypted

The bind profile file has been encrypted

OK

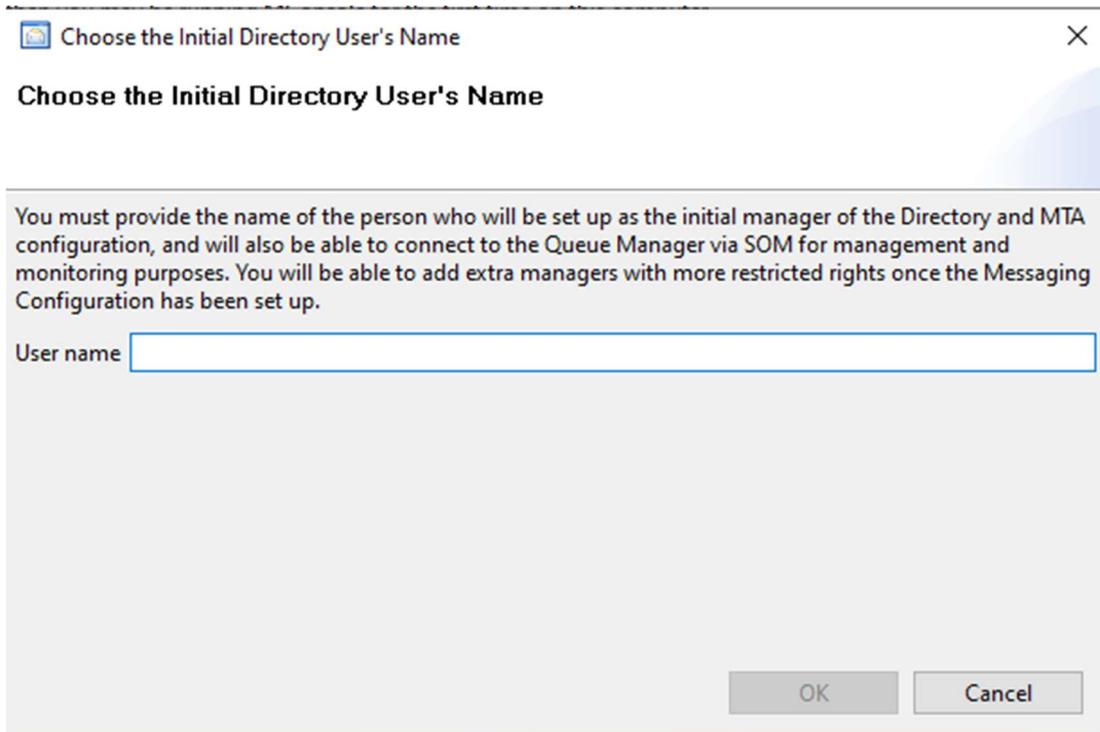
Click “OK”

M-Console Welcome Screen



Select “Create a new DSA and Messaging Configuration.”

Enter a User Name



Typically, we use “Messaging Admin” here, but you can choose your own if you wish.

User Name Entered

Choose the Initial Directory User's Name

Choose the Initial Directory User's Name

You must provide the name of the person who will be set up as the initial manager of the Directory and MTA configuration, and will also be able to connect to the Queue Manager via SOM for management and monitoring purposes. You will be able to add extra managers with more restricted rights once the Messaging Configuration has been set up.

User name

Enter your User Name and Click “OK”.

Enter Base DN

Create Directory Server

DIT structure configuration

Adjust the DNs provided by the template to suit your requirements

Base DN

Initial Directory User: This user is put into all the initial groups, and the bind profile created will bind as this user. Afterwards you can create more users and change which users are put in which roles. You should change the common name to a suitable value for a real person.

Enter the Base “Distinguished Name” (DN) for your directory server. You can use the default or choose one of your own.

Base DN entered

Create Directory Server

DIT structure configuration

Adjust the DNs provided by the template to suit your requirements

Base DN

o=X400

Initial Directory User: This user is put into all the initial groups, and the bind profile created will bind as this user. Afterwards you can create more users and change which users are put in which roles. You should change the common name to a suitable value for a real person.

cn=Messaging Admin,cn=Users,o=X400

< Back Next > Finish Cancel

In this guide we have changed the Base DN to “X400”. Click Next>”

Enter Password

Create Directory Server

Password configuration

Passwords are auto-generated, but can be modified here if required

Initial Directory User: cn=Messaging Admin,cn=Users,o=X400

Password: ●●●●●●●● Show

Copy password to clipboard Save password to file

Record user authentication times (authTimestamps)

Password Hashing

Hashed passwords are more secure, but are not compatible with password-based SASL mechanisms other than PLAIN, LOGIN and SCRAM-SHA-1.

Note that while non-hashed passwords may be recovered from the DSA database, hashed passwords are NOT recoverable.

Hash all passwords using SCRAM-SHA-1

< Back Next > Finish Cancel

The GUI will auto-create a Password for the initial directory user – but you can change this to one of your own. In this guide we will use “secret”.

Password entered

Create Directory Server

Password configuration

Passwords are auto-generated, but can be modified here if required

Initial Directory User: cn=Messaging Admin,cn=Users,o=X400

Password: Show

Record user authentication times (authTimestamps)

Password Hashing
 Hashed passwords are more secure, but are not compatible with password-based SASL mechanisms other than PLAIN, LOGIN and SCRAM-SHA-1.

Note that while non-hashed passwords may be recovered from the DSA database, hashed passwords are NOT recoverable.

Hash all passwords using SCRAM-SHA-1

Always check the password you have entered by checking the “Show” checkbox, then click “Next>”.

Bind Profile Summary

Create Directory Server

Bind Profile Names and Filesystem Location

Use the suggested values, or enter your own

Management bind profile name: Used to manage the DSA in M-Vault Console

The folder which will contain the directory server's database and configuration (this folder will be created in order to initialize the DSA):

Click “Next>”.

Directory Server Summary

Create Directory Server

Address Configuration
Enter the server hostname / IP address and ports to listen on

Hostname:

Enable:
 LDAP DAP

Port numbers:
 Standards, no messaging: 389 / 102
 Standards with messaging: 389 / 19999
 Isode default: 19389 / 19999
 Alternate 2: 29389 / 29999
 Alternate 3: 39389 / 39999
 Alternate 4: 49389 / 49999
 Alternate 5: 59389 / 59999

Click “Next>”.

Directory Server Configuration Confirmation

Create Directory Server

Confirm Details
Check the details below before creating the DSA

DSA creation template:
Simple DSA setup for Messaging Evaluations

DSA address:
Host ISODE-X400-EVAL, X.500 on port 19999, LDAP on port 19389

DSA name:
cn=dsa,o=X400

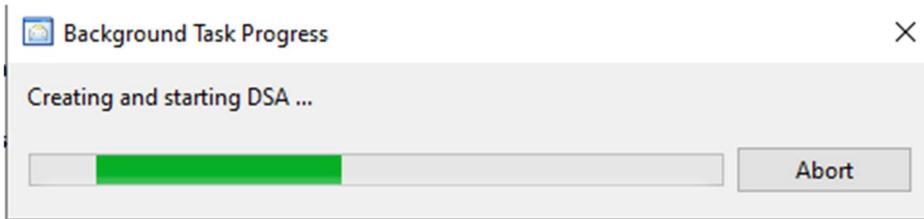
Bind profile name:
cn=dsa,o=X400 / Messaging Admin

Password hashing:
SCRAM-SHA-1

Click “Finish”.

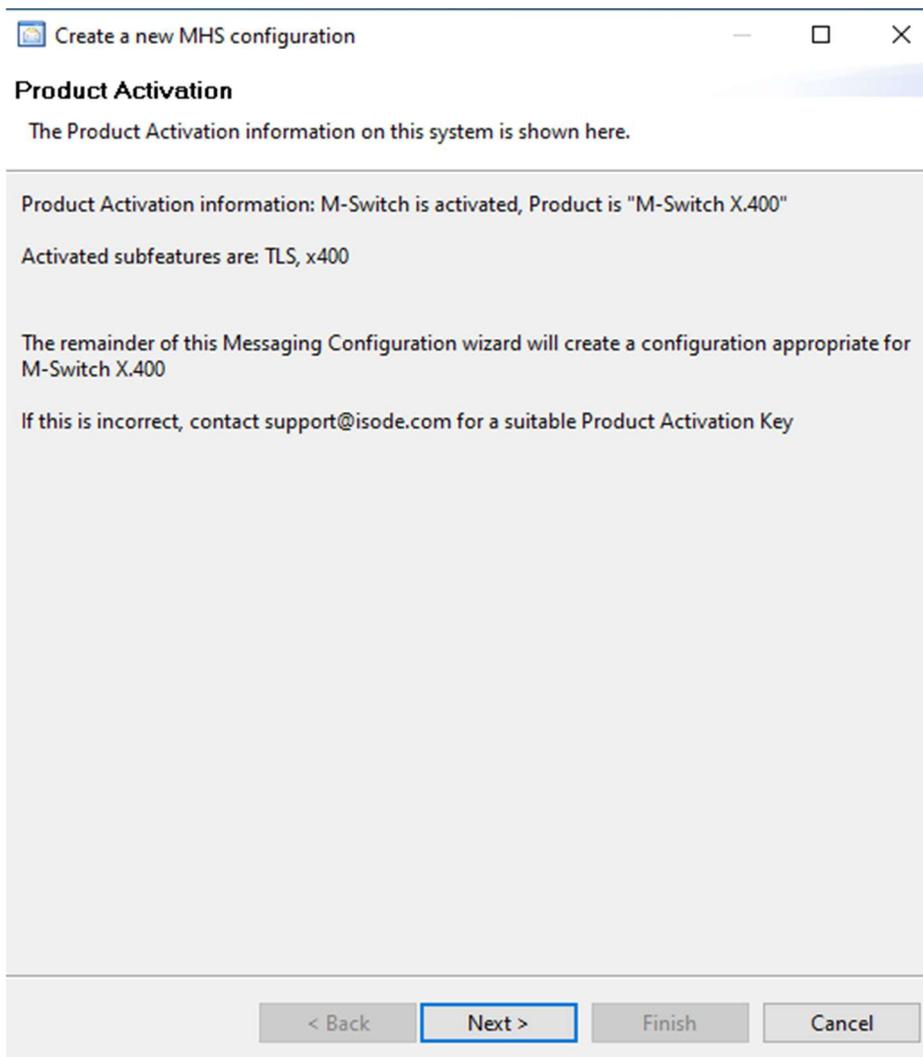
You will see the following – wait.

Directory Server Creation and Starting



You will then see the following screen.

Product Activation Summary



Click “Next>”.

Set the Messaging Configuration Base DN

Create a new MHS configuration

Set the Messaging Configuration Base DN

Select the entry under which a Messaging Configuration entry will be created

> o=X400

If you provide an organization name, an entry for the organization name provided will be created automatically under the entry you select.

Create organization name

Messaging configuration name
Messaging Configuration

Base DN: o=X400
MHS DN: cn=Messaging Configuration,o=X400

< Back Next > Finish Cancel

You should select the top entry, o=X400 in this example.

Set the Messaging Configuration Base DN

Create a new MHS configuration

Set the Messaging Configuration Base DN

Select the entry under which a Messaging Configuration entry will be created

> o=X400

If you provide an organization name, an entry for the organization name provided will be created automatically under the entry you select.

Create organization name

Messaging configuration name
Messaging Configuration

Base DN: o=X400
MHS DN: cn=Messaging Configuration,o=X400

< Back Next > Finish Cancel

Click “Next>”.

Set the Hostname

This should display the Hostname of your server, if it does not change it to the Hostname of your Server. Do not change the SASL Password. Click “Next>”.

Administrator details

You should not have to make any changes here. Click “Next>”.

X.400 Configuration

Create a new MHS configuration

X.400 configuration

Enter the O/R Address prefix to be the local O/R Address space for this MTA

X.400 Address Prefix

ISO 3166 Country Code

Single Space ADMD Missing PRMD

Organization

OU1 OU2

OU3 OU4

Create an X.400 Message Store for local P7 users
 Create a legacy X.400 Message Store
 Do not create an X.400 Message Store

< Back Next > Finish Cancel

You now need to set your X.400 Address Space - /P=X400/A=Isode/C=GB/ in our example.

X.400 Configuration

Create a new MHS configuration

X.400 configuration

Enter the O/R Address prefix to be the local O/R Address space for this MTA

X.400 Address Prefix

ISO 3166 Country Code United Kingdom

Single Space ADMD Missing PRMD

Organization

OU1 OU2

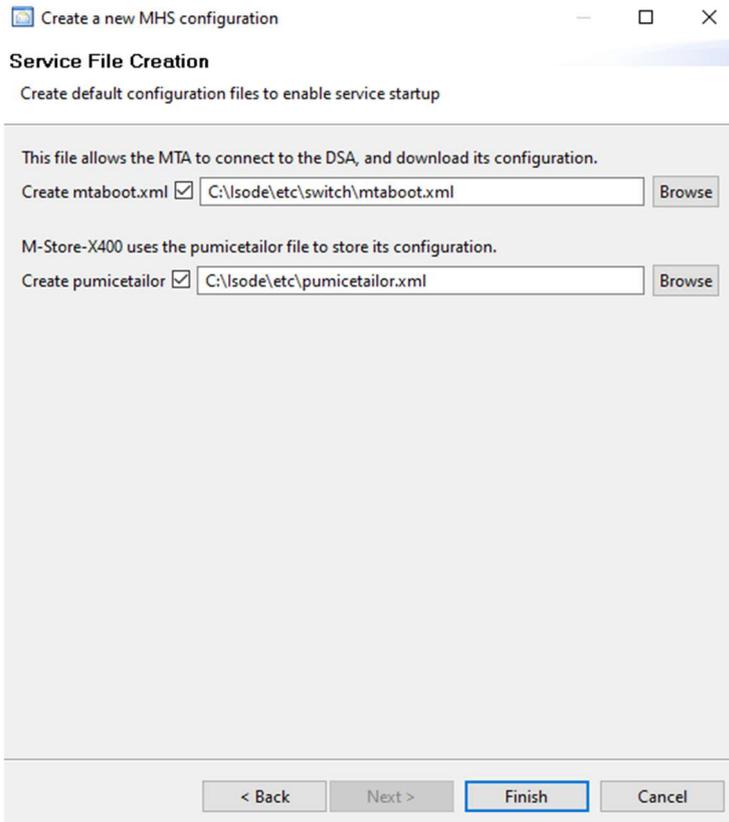
OU3 OU4

Create an X.400 Message Store for local P7 users
 Create a legacy X.400 Message Store
 Do not create an X.400 Message Store

< Back **Next >** Finish Cancel

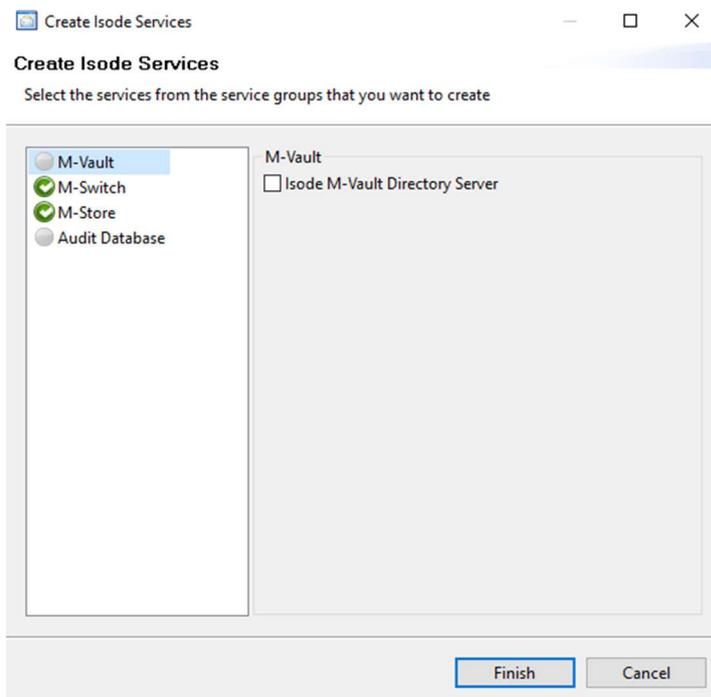
Enter the details and leave “Create and X.400 Message Store for local P7 Users” Checked. Click “Next>”.

Service File Creation



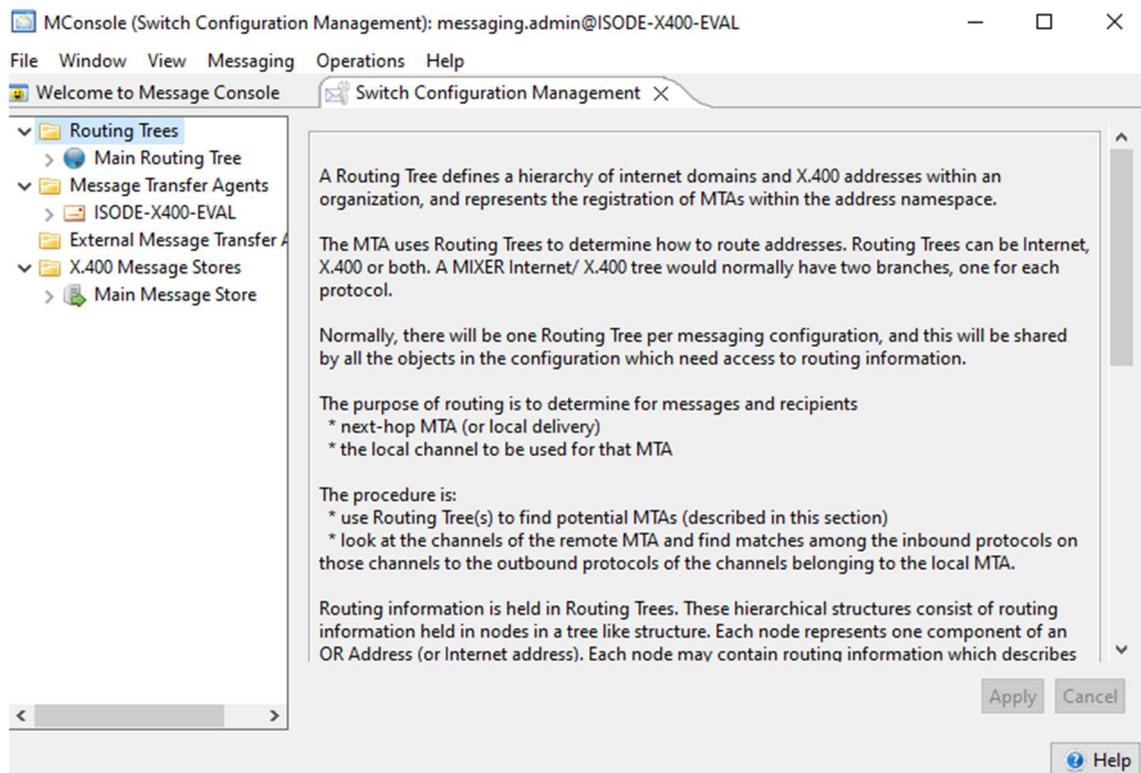
Click “Finish”.

Service File Creation



Click “Finish”.

Switch Configuration Management



You have now created your base M-Switch X.400 Configuration. We now need to start Services.

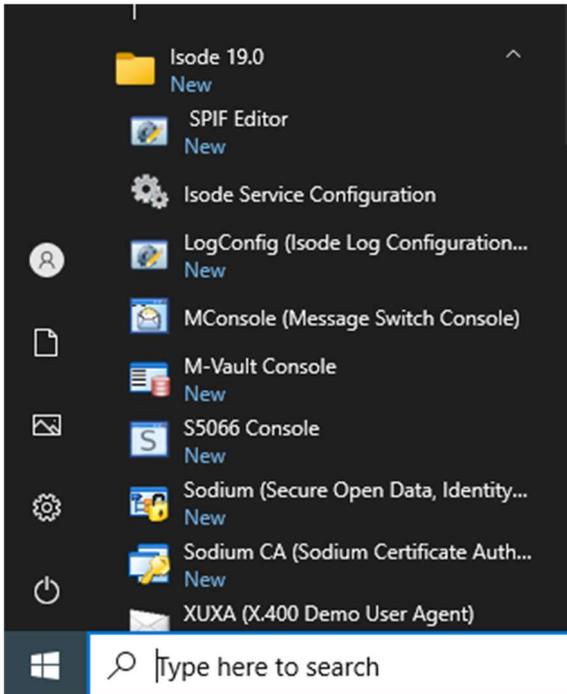
Starting the Services

On Linux use the following command.

```
# systemctl start pp
# systemctl start pumice
```

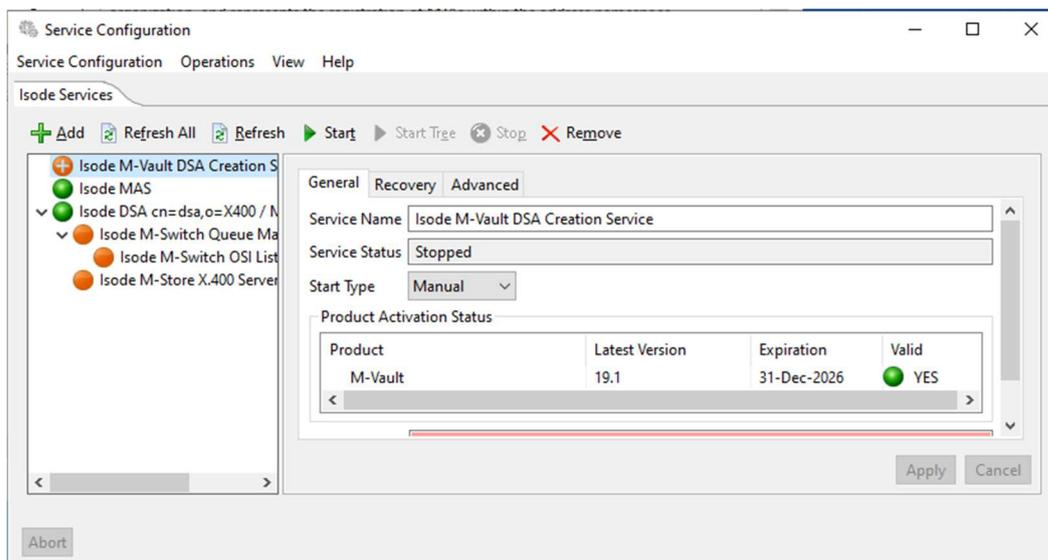
From the Start Menu Windows→Isode R19.0→Isode Service Configuration

Isode Services Configuration Tool



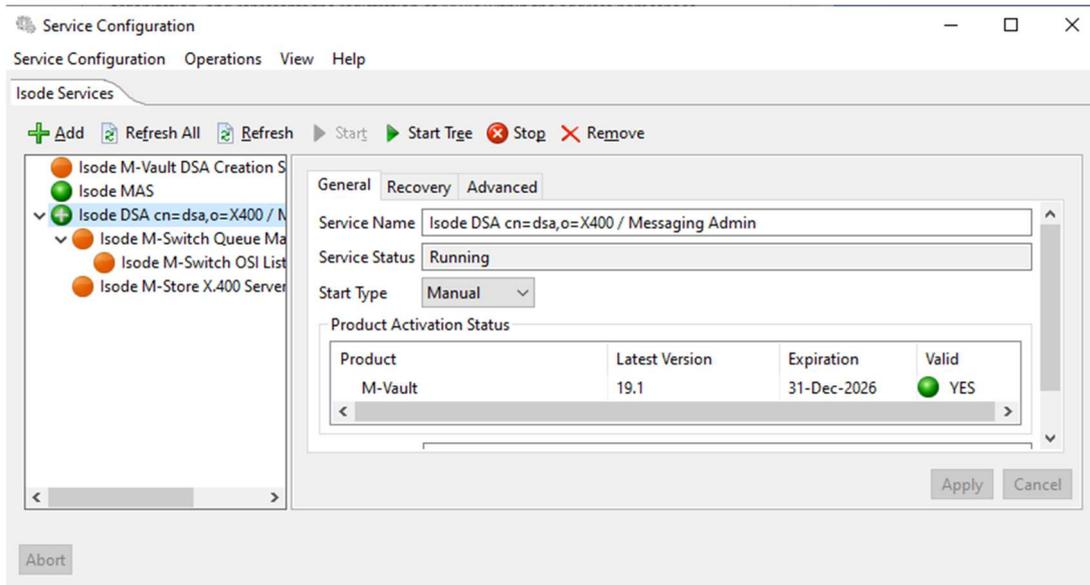
The following screen is displayed.

Isode Services Configuration Tool



Select the “Isode DSA cn=dsa, o=x400...” Service.

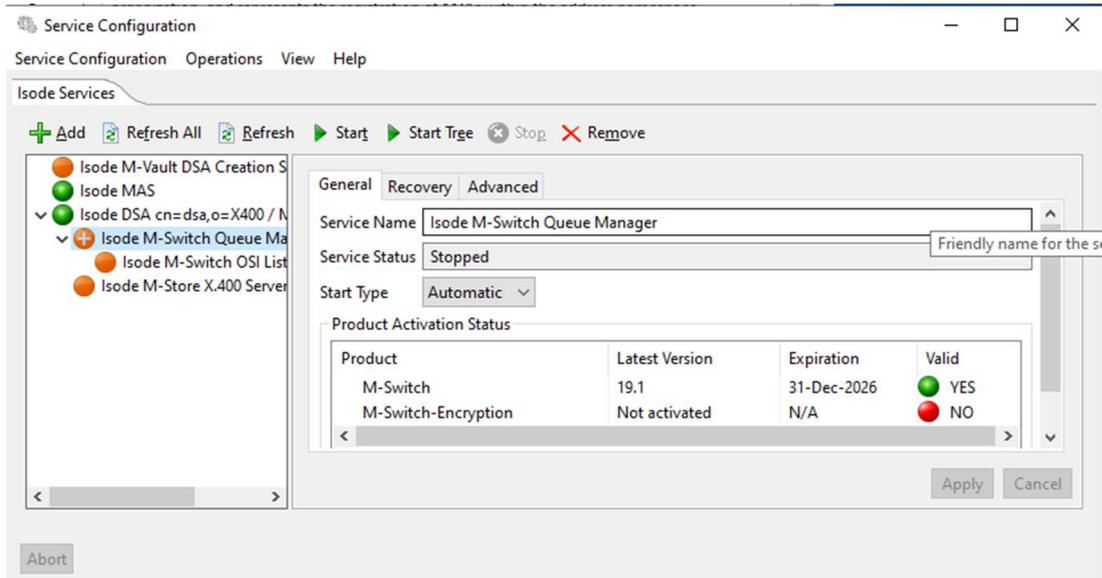
Isode Services Configuration Tool



Change the “Start Type” from “Manual” to “Automatic” using the Drop Down and Click Apply.

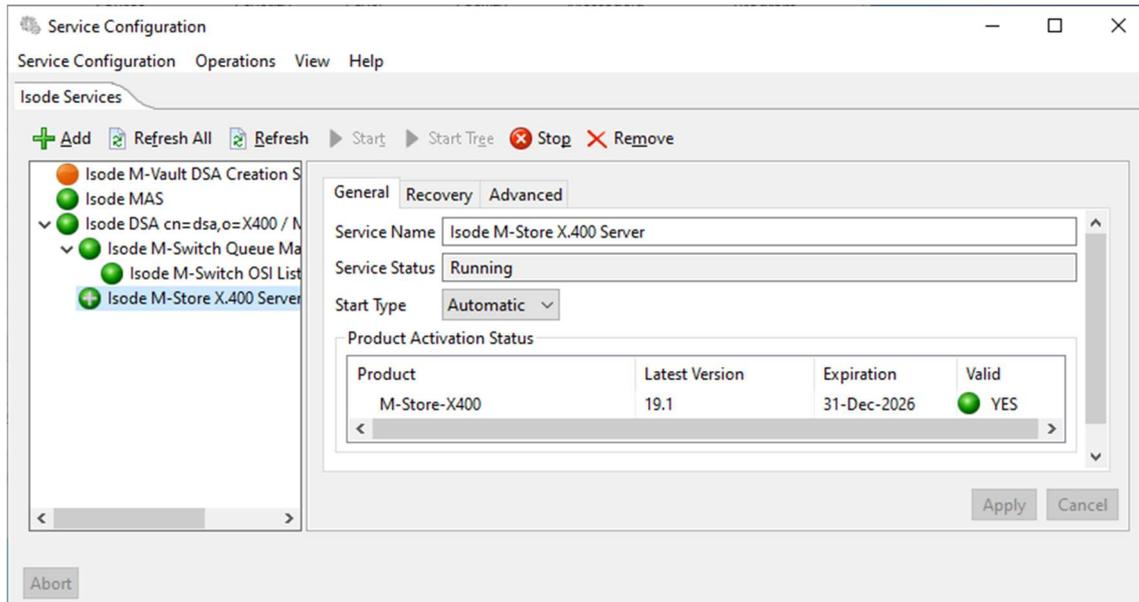
Do the same for the “Isode M-Switch Queue Manager”, “Isode M-Switch OSI Listener” & “Isode M-Store X.400 Server”.

Isode Services Configuration Tool



Then Start the “Isode M-Switch Queue Manager”, “Isode M-Switch OSI Listener” & “Isode M-Store X.400 Server” services.

Isode Services Configuration Tool

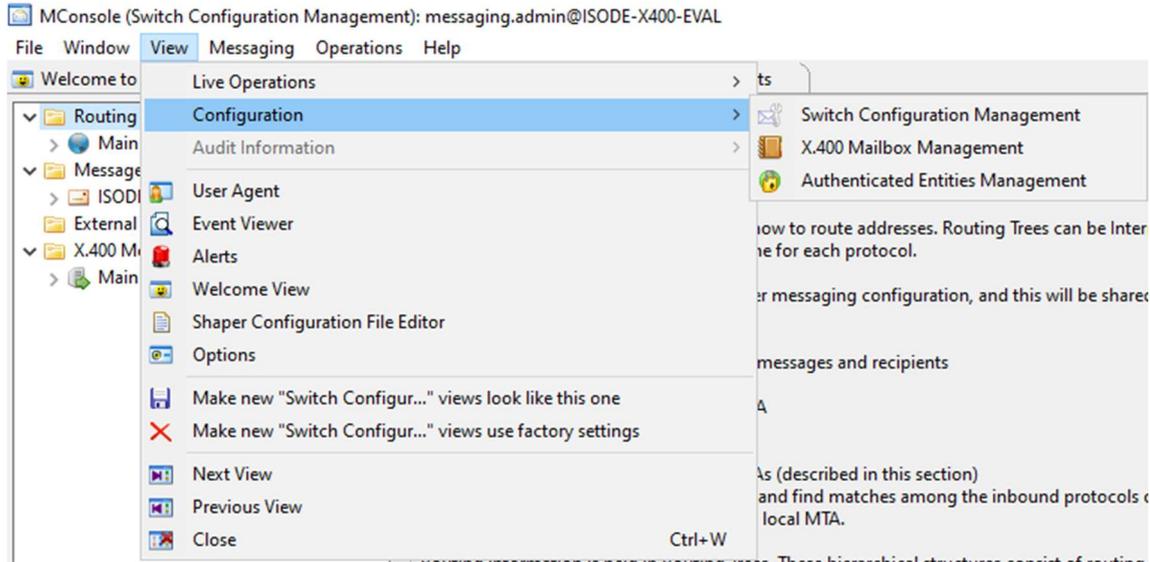


This completes the Windows Services Configuration. We will now return to M-Console to configure the X.400 P7 Users.

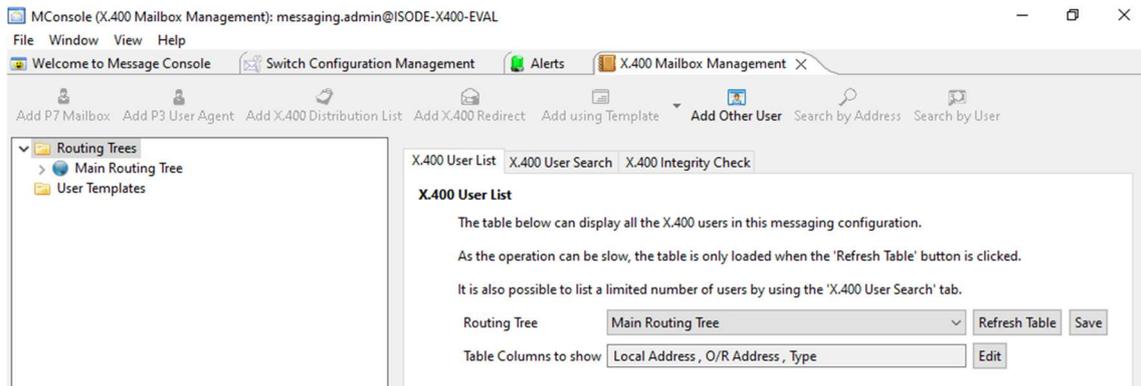
Configuring the X.400 P7 Users

From M-Console select View→Configuration→X.400 Mailbox Management.

M-Console X.400 Mailbox Management

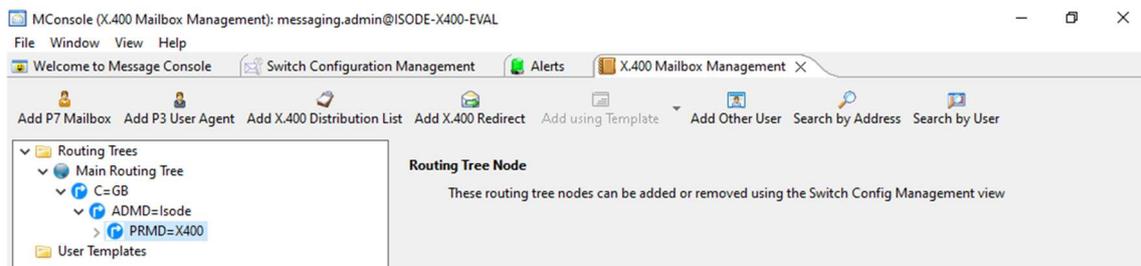


M-Console X.400 Mailbox Management



Expand the “Main Routing Tree” on the left until you reach your X.400 Address Space (/P=X400/A=Isode/C=GB/) in this example and select it.

M-Console X.400 Mailbox Management



Click “Add P7 Mailbox”.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

Address Form
Choose the address form to use for this node

Address form

- Personal Name
- Common Name
- Common Name and Personal Name
- Organizational Unit
- AMHS (Aviation) CAAS Addressing
- AMHS (Aviation) XF Addressing
- Other

< Back Next > Finish Cancel

Select “Personal Name” (or whatever suits your deployment) and Click “Next>”.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

Node name (Personal Name Addressing)
Enter the Personal Name for this node

Surname

Given name

Initials

Generation Qualifier

< Back Next > Finish Cancel

Enter “one” for “Surname” and “user” for “Given name”.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

Node name (Personal Name Addressing)
Enter the Personal Name for this node

Surname	<input type="text" value="one"/>
Given name	<input type="text" value="user"/>
Initials	<input type="text"/>
Generation Qualifier	<input type="text"/>

< Back **Next >** Finish Cancel

Click “Next>”.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

O/R Address
Confirm the chosen O/R Address for this node

O/R Address

< Back **Next >** Finish Cancel

Click “Next>”.

M-Console X.400 Mailbox Management

White Pages (Address Book) Entry
Configure a White Pages entry for this address

Do not set up a White Pages entry
 Create new White Pages entry

Directory Root
Select where in the DIT the White Pages entry will be created

Directory:

Common Name:

Initials:

Surname:

Given name:

Amend existing White Pages entry

Directory Entry
Select the existing Directory entry to amend

Directory Entry:

Advanced White Pages values can be set within the White Pages tab in X.400 Mailbox Management

Click “Next>”.

M-Console X.400 Mailbox Management

MTA and Message Store Details
Configure which Message Store, MTA and delivery channel this user will use

Message Store

Supporting MTA

P3 Delivery Channel

Click “Next>”.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

Passwords
Set the User's P7 and P3 passwords

P7 Message Store Password Show

P3 Access Password Show

< Back Next > **Finish** Cancel

Change both Passwords to “secret” and Click “Show” on each of them to confirm.

M-Console X.400 Mailbox Management

Add P7 Mailbox using Personal Name Naming

Passwords
Set the User's P7 and P3 passwords

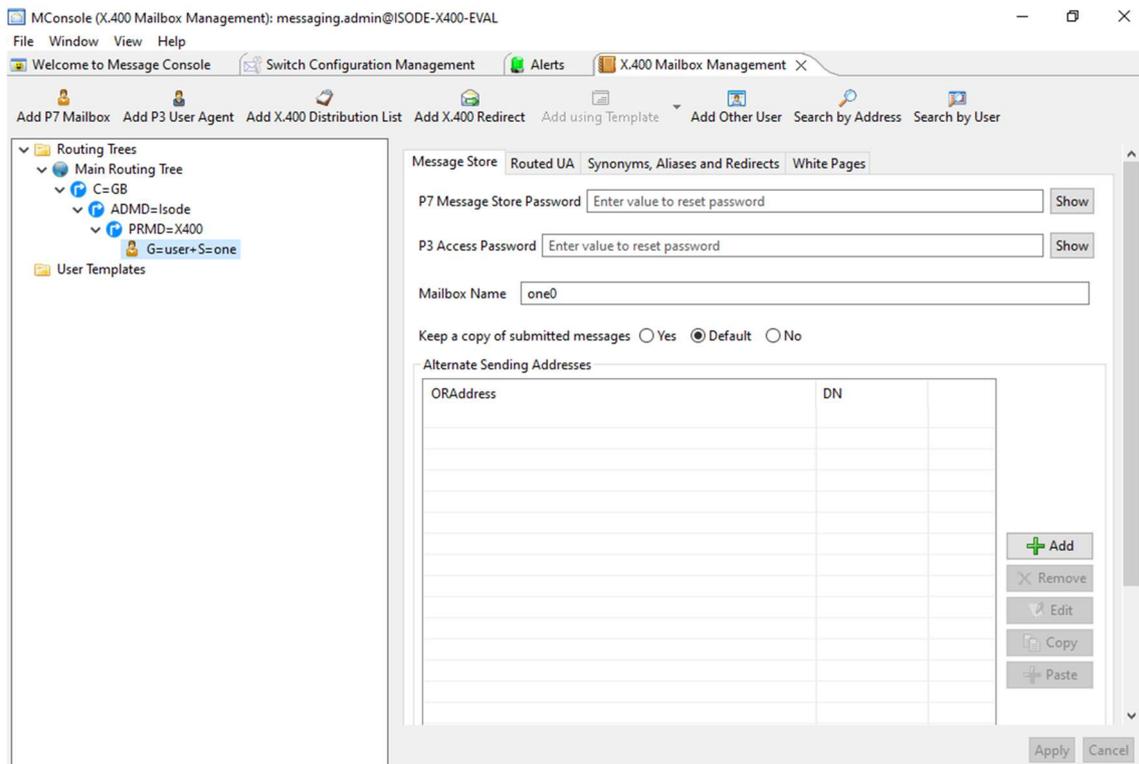
P7 Message Store Password Hide

P3 Access Password Hide

< Back Next > **Finish** Cancel

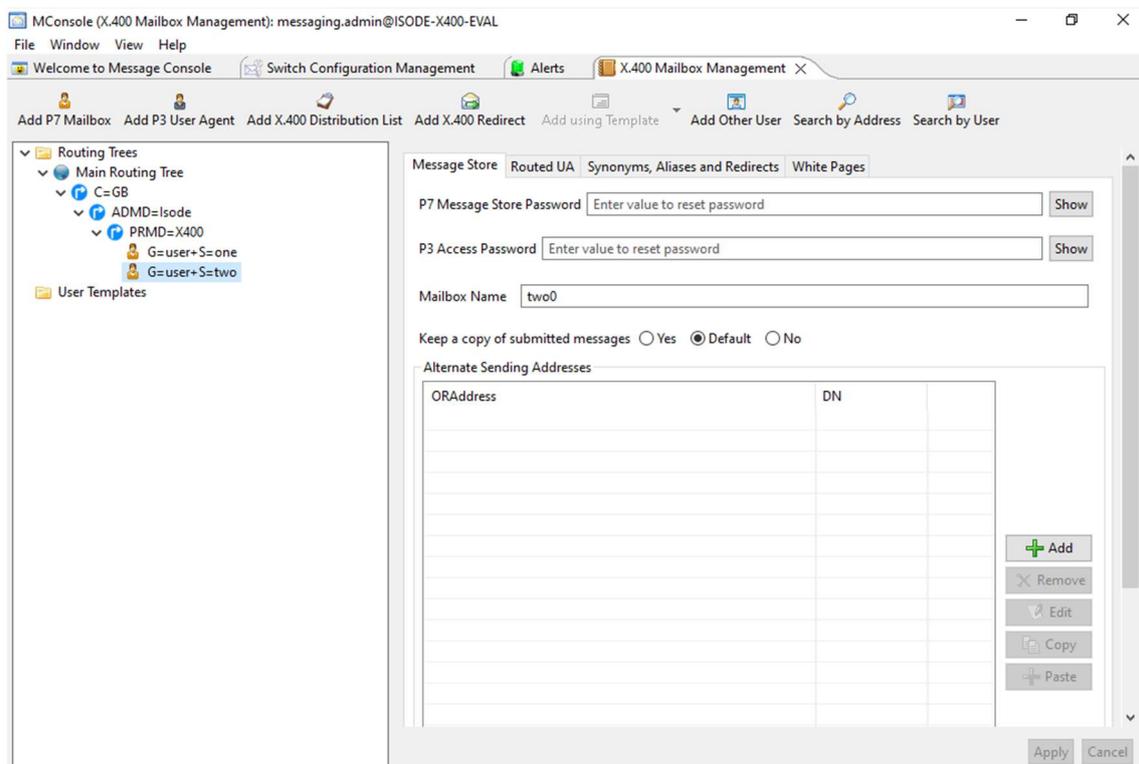
Click “Finish”.

M-Console X.400 Mailbox Management



Repeat the process for “user two” (/G=user/S=two/P=X400/A=Isode/C=GB/).

M-Console X.400 Mailbox Management



This completes the configuration of the System for Local Users. We will now test the system with XUXA.

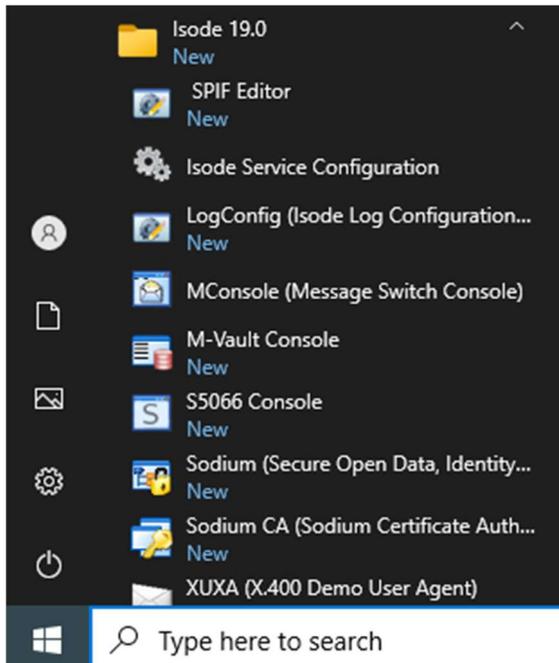
Testing the System with XUXA

XUXA is started on Linux as below.

```
% /opt/isode/bin/xuxa
```

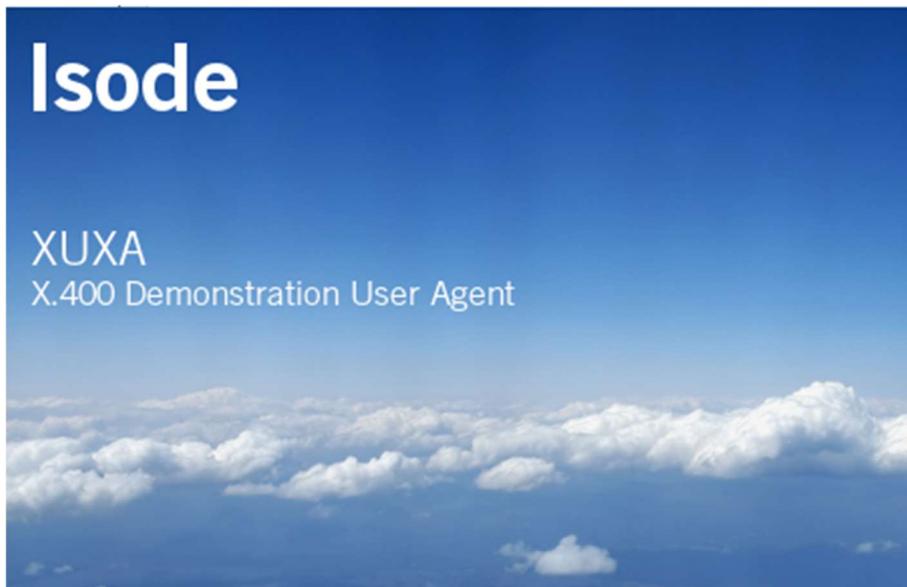
On Windows Start→Isode R19.0→XUXA (X.400 Demo User Agent)

XUXA Start



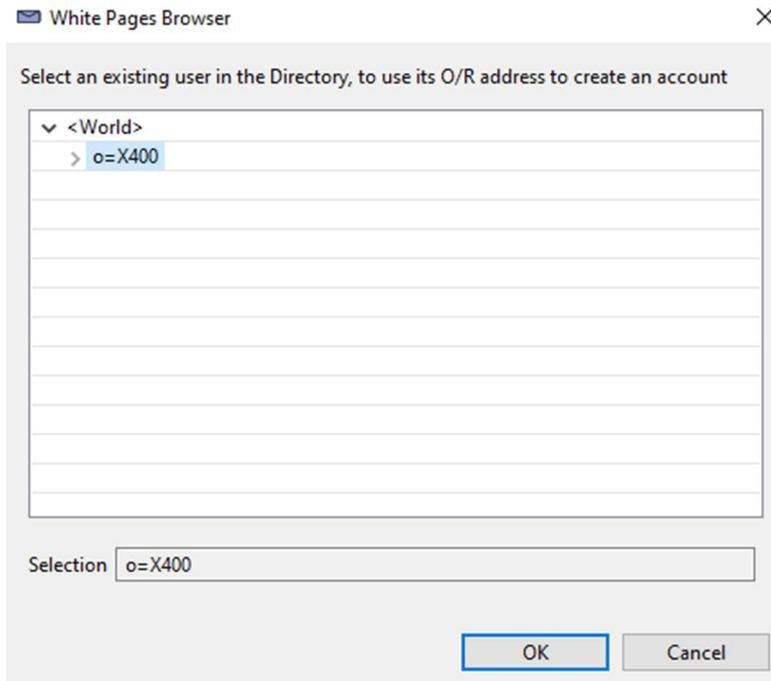
The following splash screen is displayed.

XUXA Splash Screen



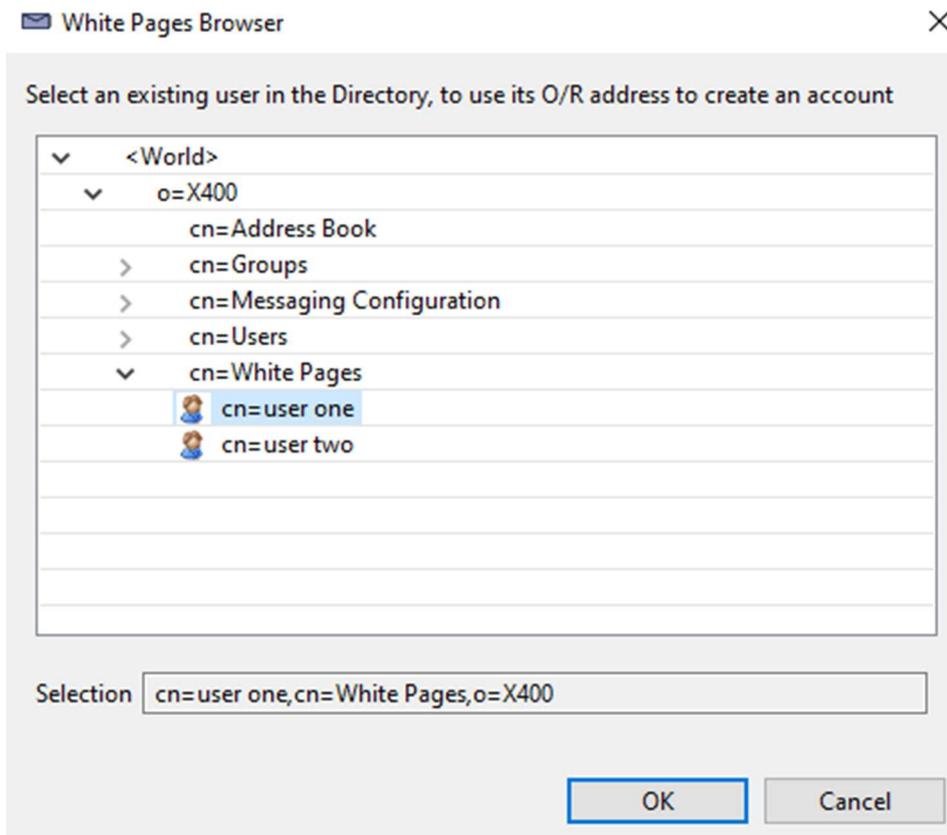
Wait... then the following screen is displayed.

XUXA Initial Screen



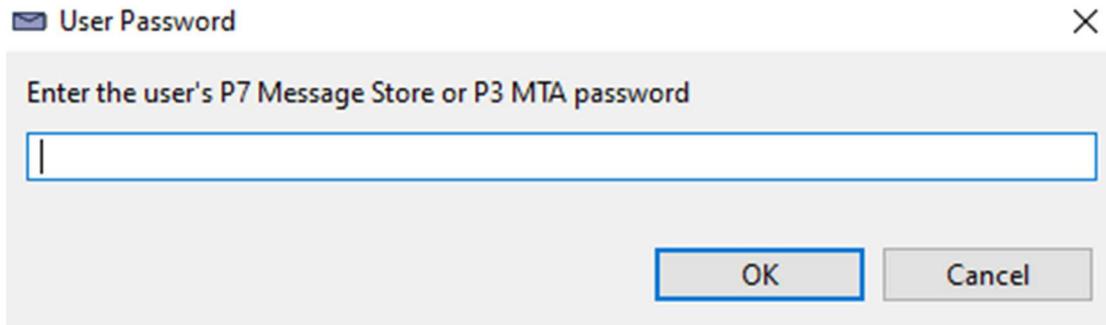
Expand O=X400 and cn=White Pages as follows.

XUXA White Pages Selection



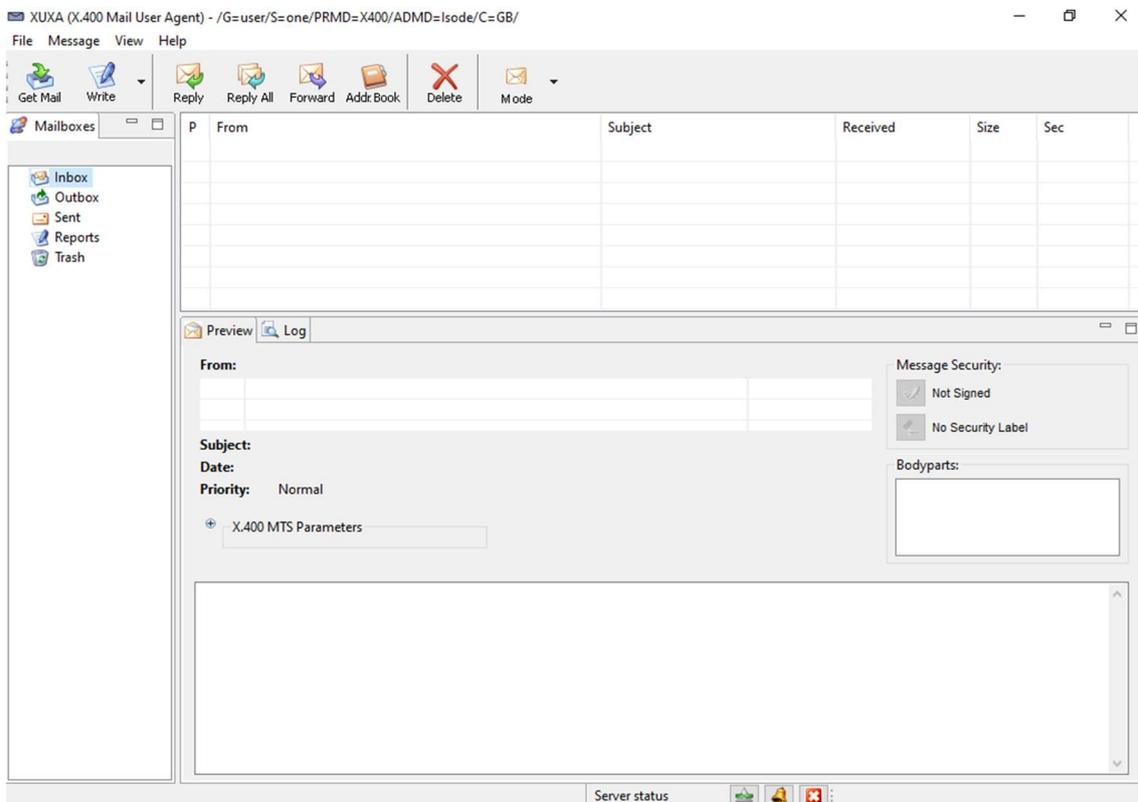
Select “cn=user one”, Click “OK”.

XUXA Password Entry



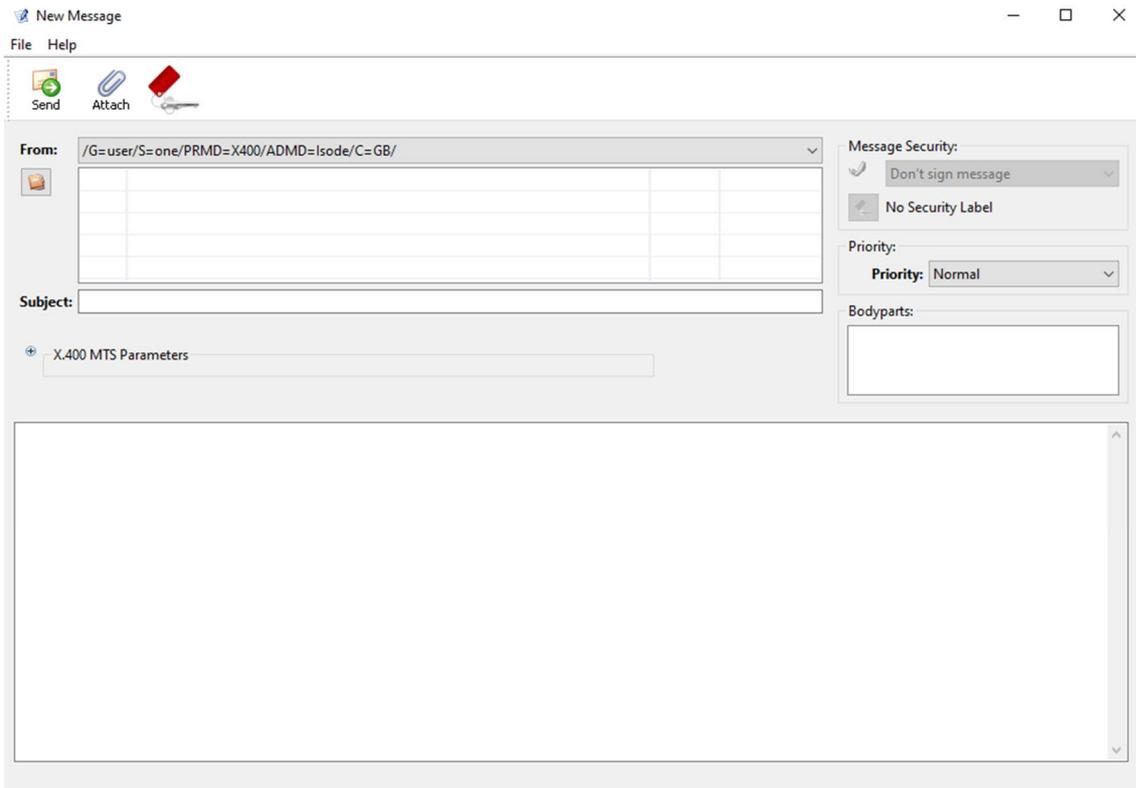
Enter the password you configured (“secret” in our example). Click “OK”.

XUXA Client



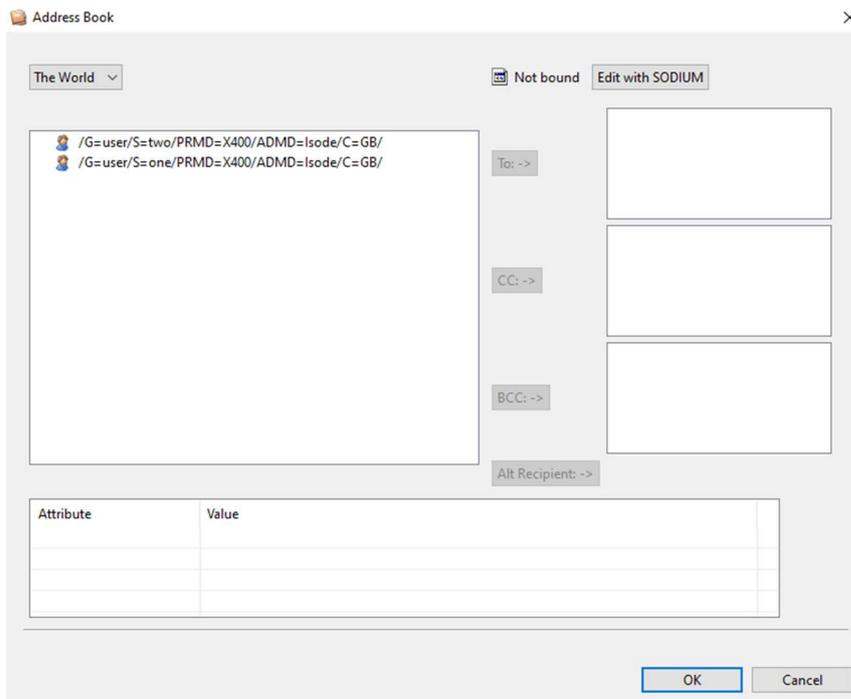
Click “Write”.

XUXA Client



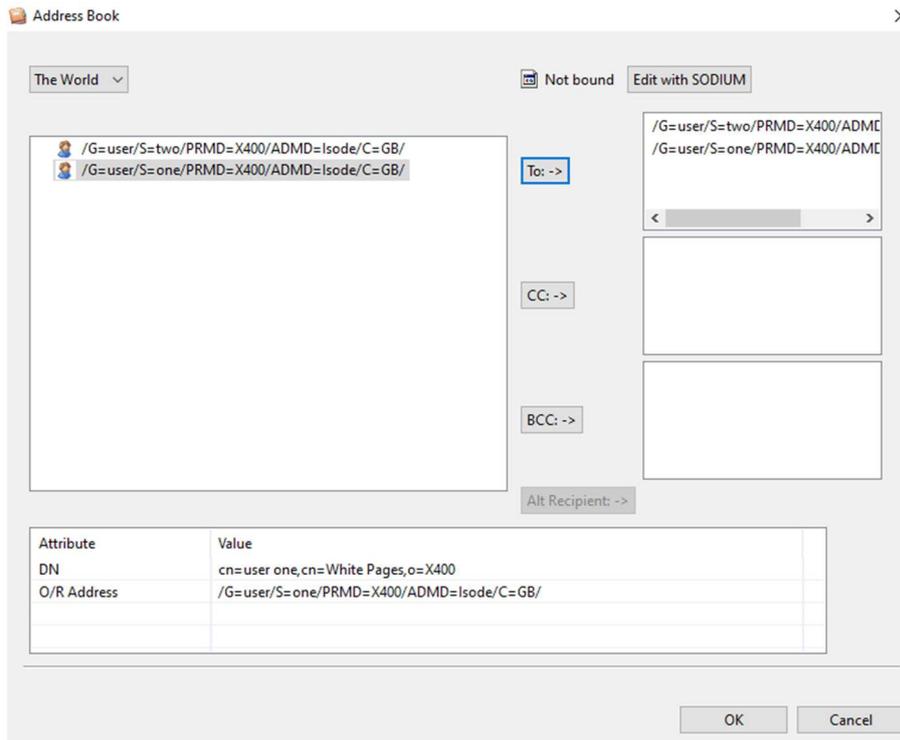
Click the “Address Book” Icon below “From:”

XUXA Client



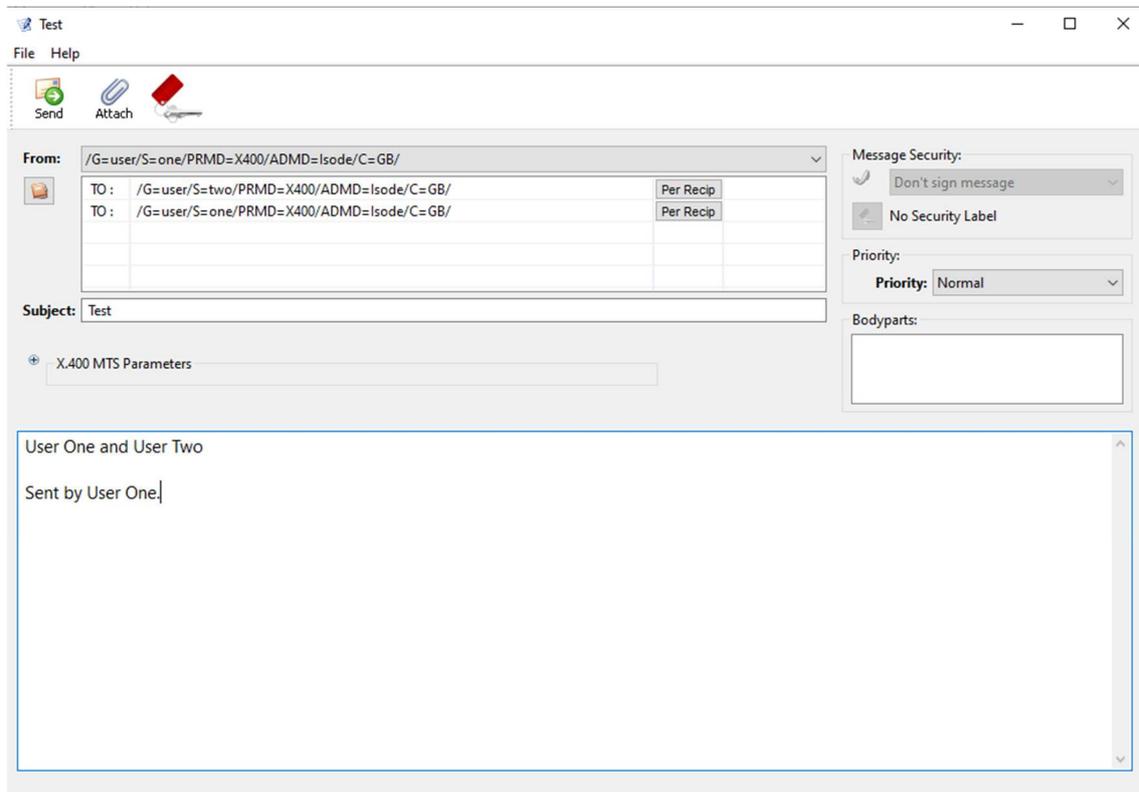
Select each of the entries one by one and Click “Two”.

XUXA Client



Click "OK".

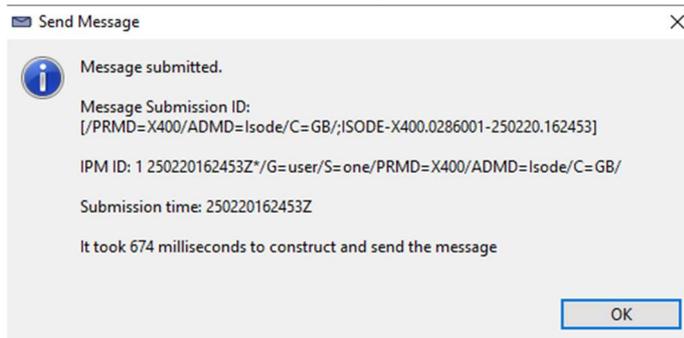
XUXA Client



Enter some text in the Subject and Body the clock the "Send" Icon (Top Left).

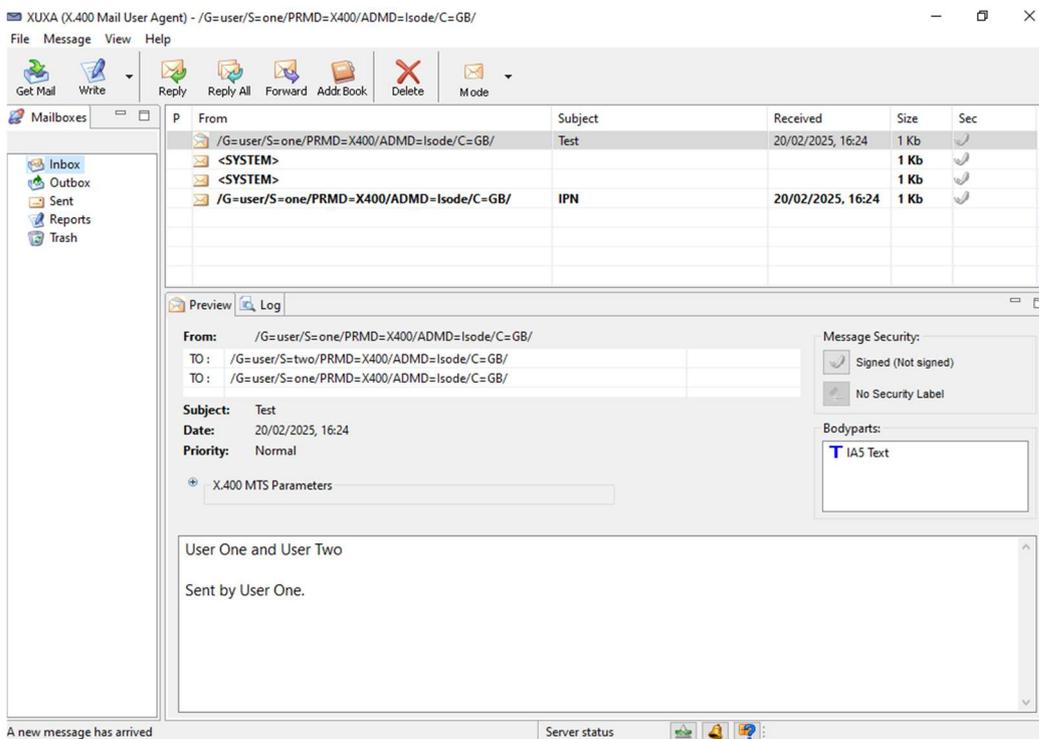
The following is displayed.

XUXA Client



Click "OK".

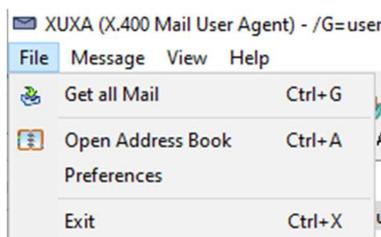
XUXA Client



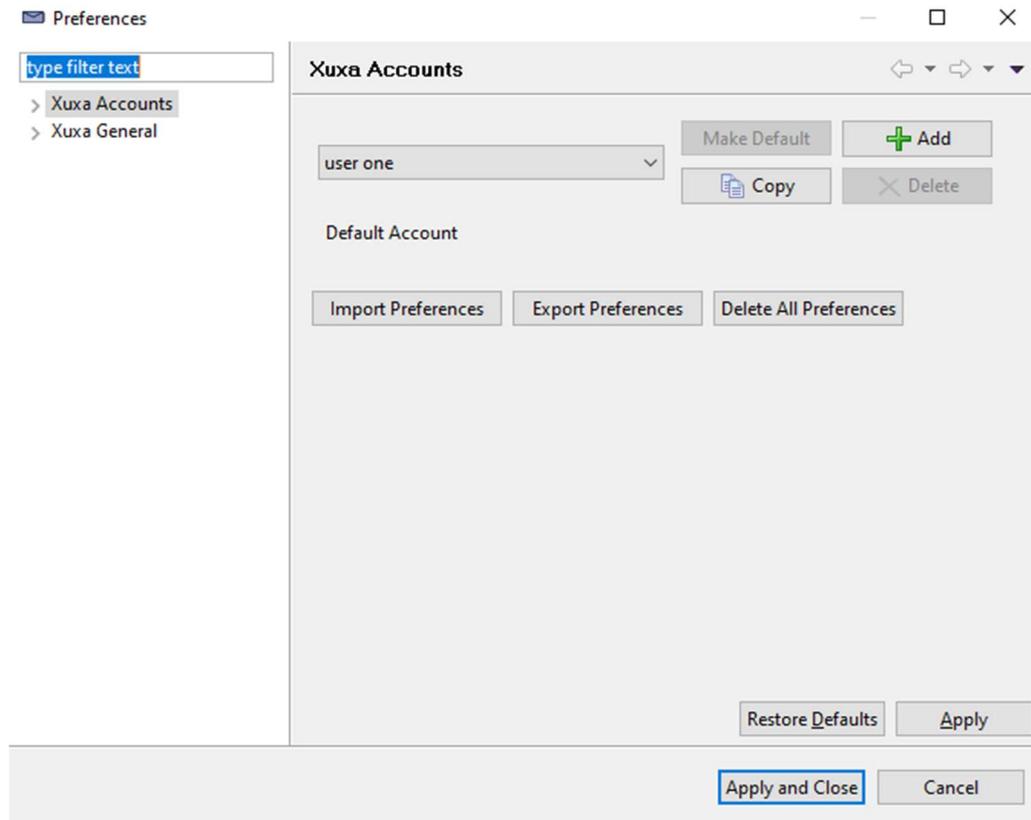
You will now see the above displayed. We now need to configure XUXA for User Two.

From the Top Menu Select File→Preferences.

XUXA Client

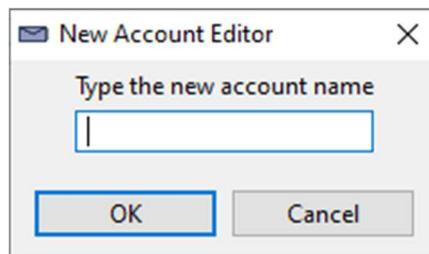


XUXA Client



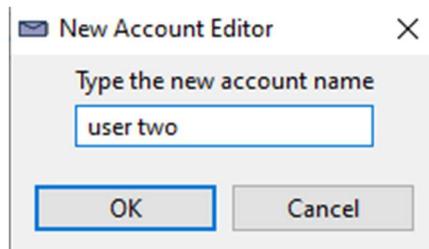
Click “Copy”.

XUXA Client



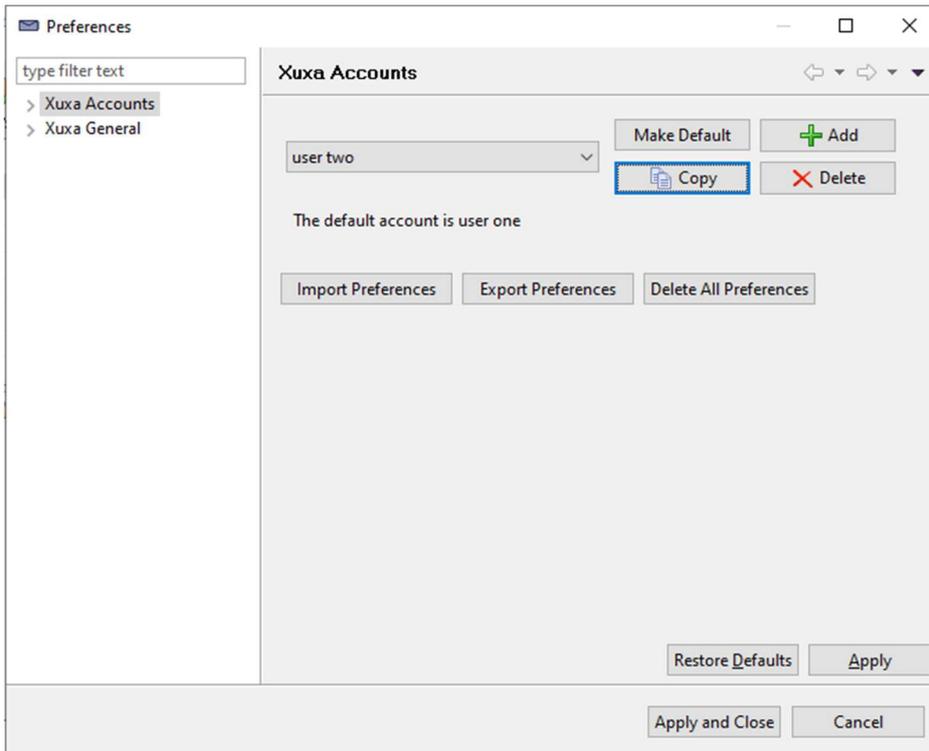
Enter a Name for “User Two”.

XUXA Client



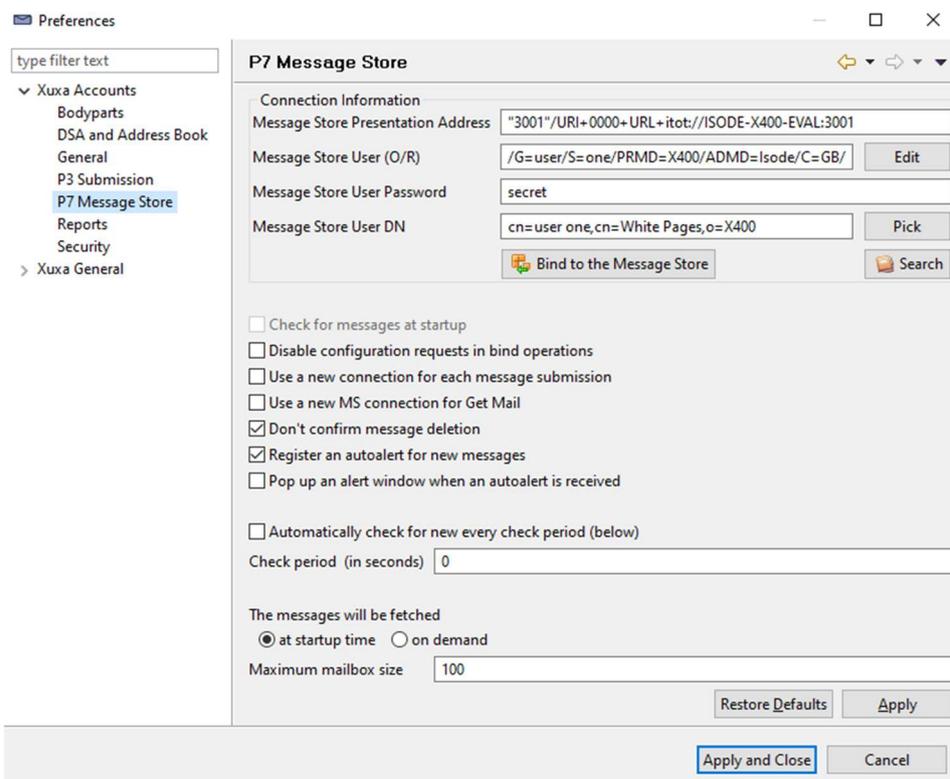
Click “OK”.

XUXA Client



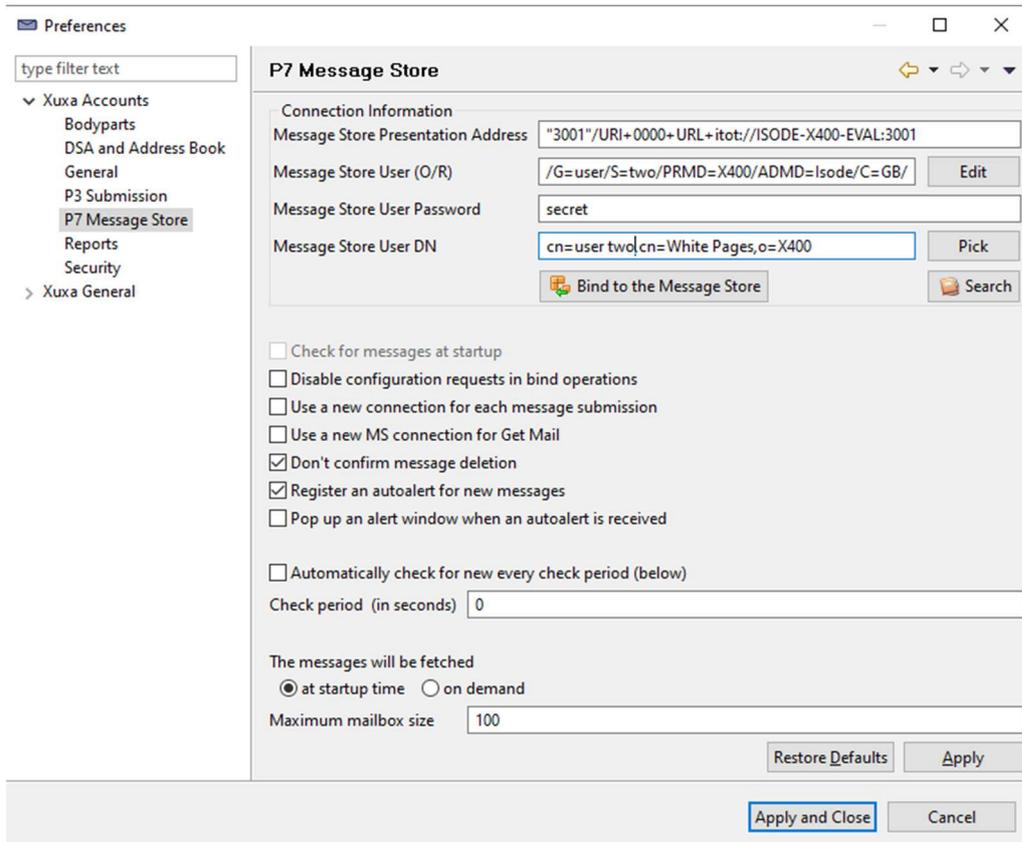
Expand “Xuxa Accounts and select “P7 Message Store”.

XUXA Client



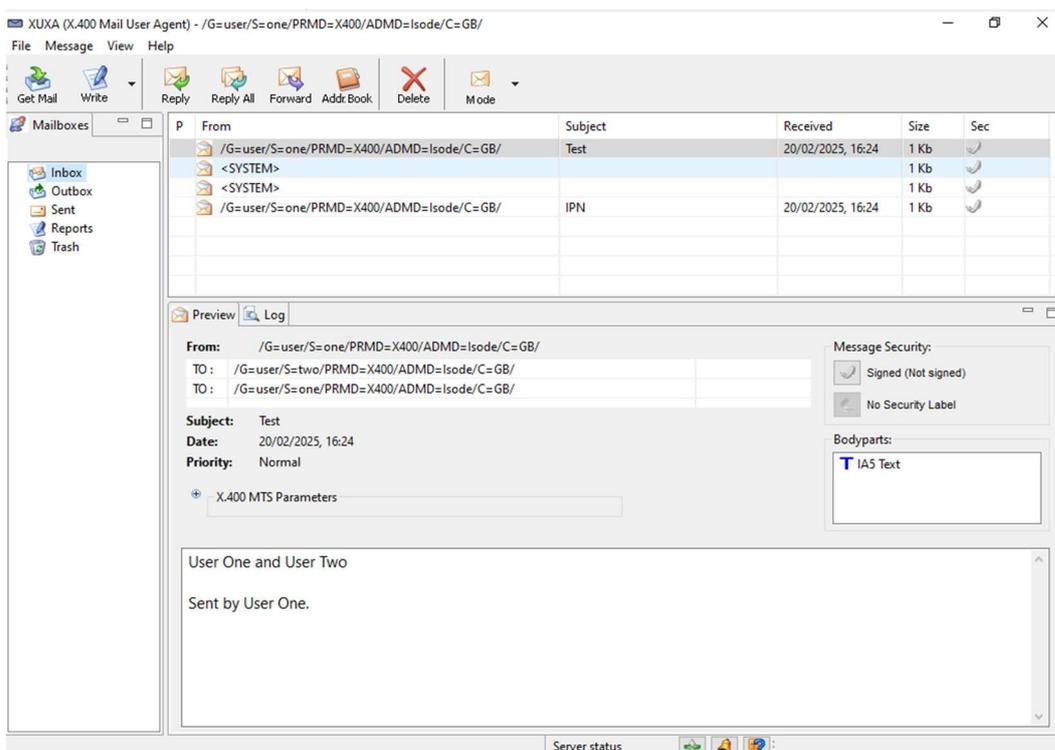
Change the “Message Store User (O/R) and “Message Store User DN” as follows.

XUXA Client



Click "Apply and Close".

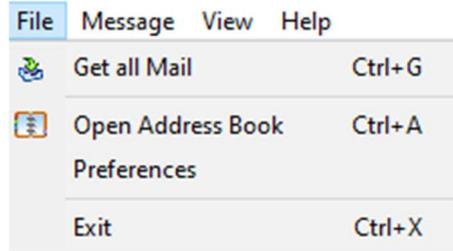
XUXA Client



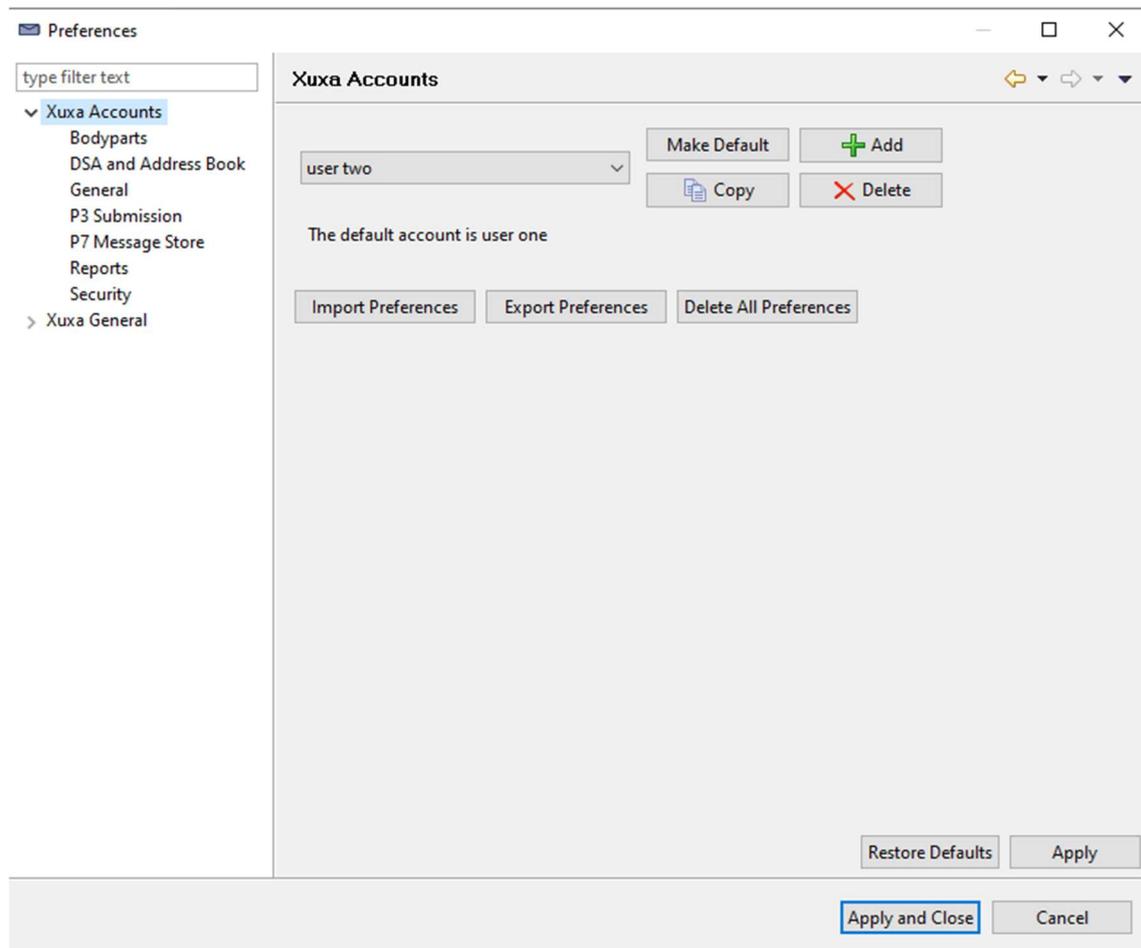
Select File→Preferences again.

XUXA Client

XUXA (X.400 Mail User Agent) - /G=use

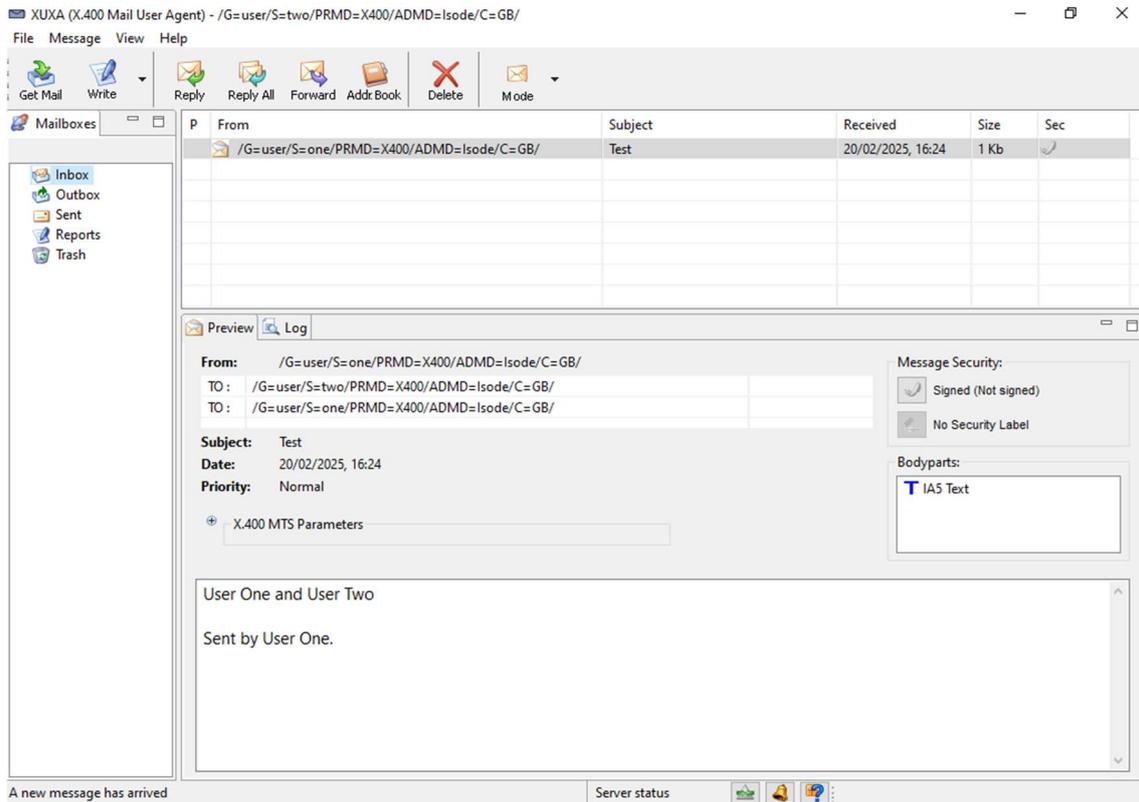


XUXA Client



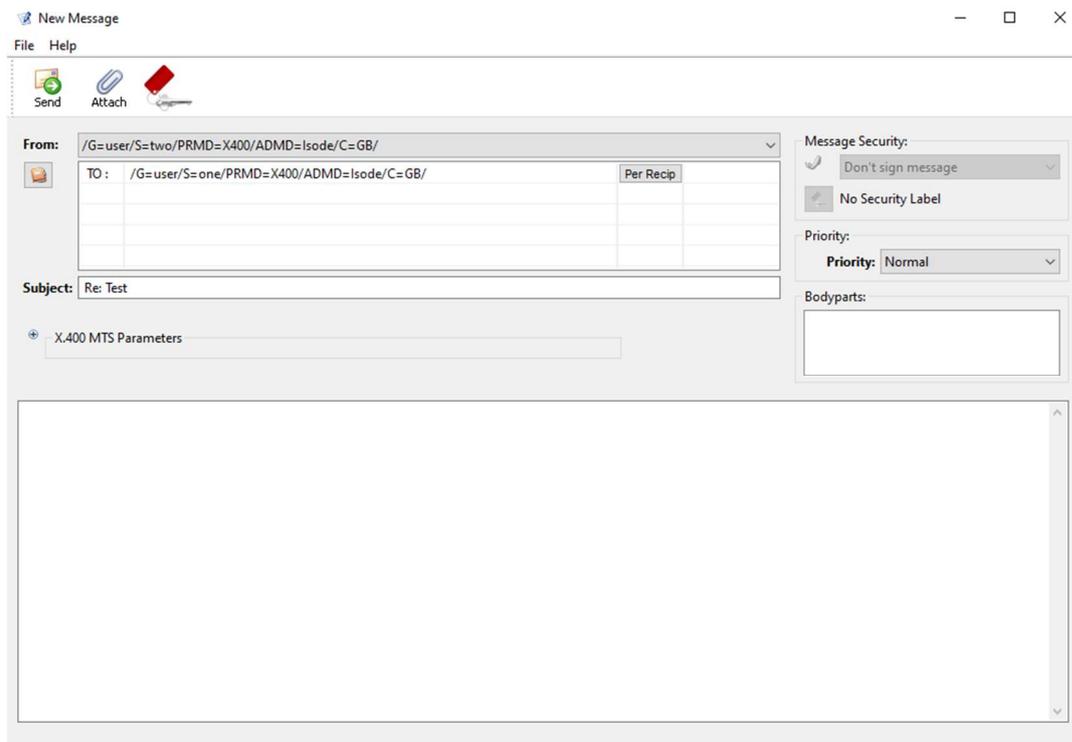
Select “user two” in the Xuxa Accounts and Click “Apply and Close”.

XUXA Client



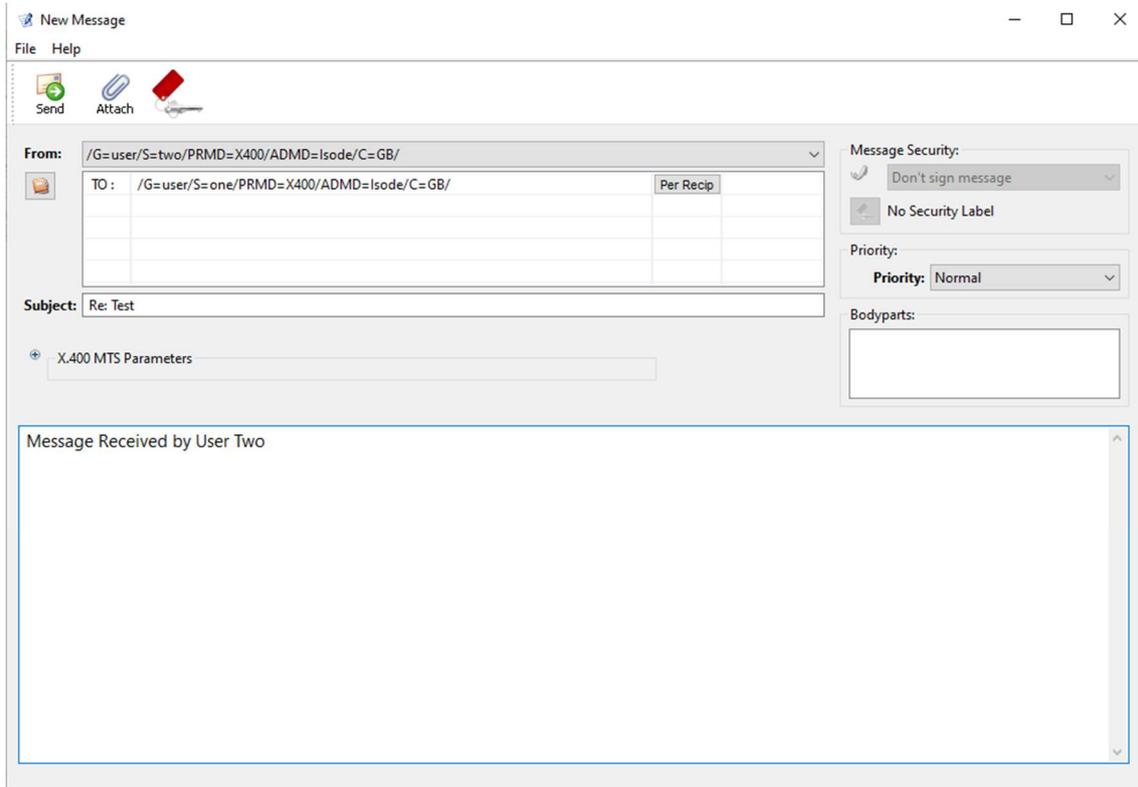
You will see the message sent by “User One” – click the “Reply” Icon.

XUXA Client



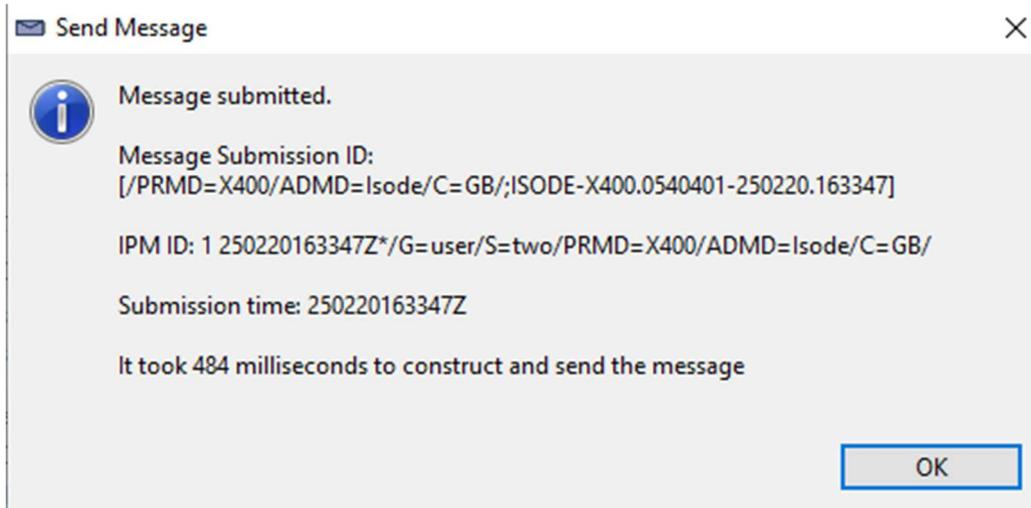
Enter some Body Text.

XUXA Client



Click the "Send" Icon.

XUXA Client



Click "OK."

XUXA Client

XUXA Client

XUXA (X.400 Mail User Agent) - /G=user/S=two/PRMD=X400/ADMD=Isode/C=GB/

File Message View Help

Get Mail Write Reply Reply All Forward Addr Book Delete Mode

P	From	Subject	Received	Size	Sec
	/G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/	Test	20/02/2025, 16:24	1 Kb	
	<SYSTEM>			1 Kb	

Mailboxes: Inbox, Outbox, Sent, Reports, Trash

Preview Log

From: /G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/
TO: /G=user/S=two/PRMD=X400/ADMD=Isode/C=GB/
TO: /G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/
Subject: Test
Date: 20/02/2025, 16:24
Priority: Normal

Message Security:
 Signed (Not signed)
 No Security Label

Bodyparts:
 T IA5 Text

X.400 MTS Parameters

User One and User Two
 Sent by User One.

A new message has arrived Server status

Now using the File→Preferences Switch Back to the User One Account.

XUXA Client

XUXA (X.400 Mail User Agent) - /G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/

File Message View Help

Get Mail Write Reply Reply All Forward Addr Book Delete Mode

P	From	Subject	Received	Size	Sec
	/G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/	Test	20/02/2025, 16:24	1 Kb	
	<SYSTEM>			1 Kb	
	<SYSTEM>			1 Kb	
	/G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/	IPN	20/02/2025, 16:24	1 Kb	
	/G=user/S=two/PRMD=X400/ADMD=Isode/C=GB/	IPN	20/02/2025, 16:31	1 Kb	
	/G=user/S=two/PRMD=X400/ADMD=Isode/C=GB/	Re: Test	20/02/2025, 16:33	1 Kb	

Mailboxes: Inbox, Outbox, Sent, Reports, Trash

Preview Log

From: /G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/
TO: /G=user/S=two/PRMD=X400/ADMD=Isode/C=GB/
TO: /G=user/S=one/PRMD=X400/ADMD=Isode/C=GB/
Subject: Test
Date: 20/02/2025, 16:24
Priority: Normal

Message Security:
 Signed (Not signed)
 No Security Label

Bodyparts:
 T IA5 Text

X.400 MTS Parameters

User One and User Two
 Sent by User One.

A new message has arrived Server status

You can see that the message has been received.

This completes the testing of Local Users. We now need to configure an External MTA and some Address Book Entries.

Adding an External MTA and Address Book entries

Configuring the External MTA with M-Console

Before connecting to an External MTA you will need to exchange information with them as follows.

Your MTA Name:
 Your MTA Password:
 Your Hostname/IP Address:

Their MTA Name:
 Their MTA Password:
 Their Hostname/IP Address:

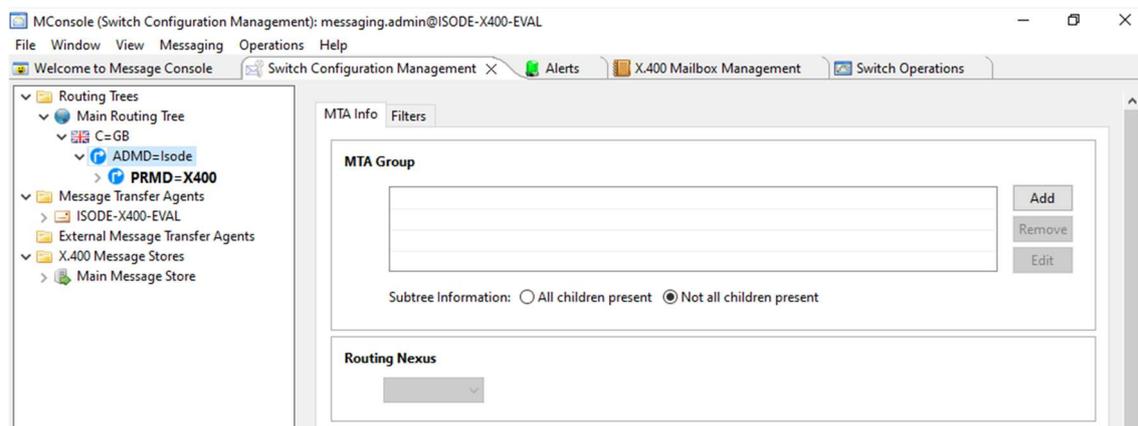
In this guide we will be connecting to the M-Switch MIXER MTA described in the M-Switch MIXER Evaluation Guide and will use the following information.

Your MTA Name: ISODE-X400-EVAL
 Your MTA Password: secret
 Your Hostname/IP Address: ISODE-X400-EVAL (must resolve to an IP Address)

Their MTA Name: ISODE-MIXER-EVAL
 Their MTA Password: secret
 Their Hostname/IP Address: ISODE-MIXER-EVAL (must resolve to an IP Address)

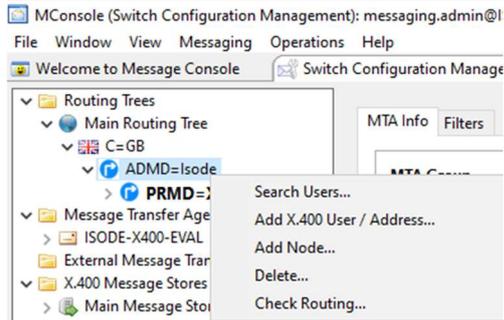
From M-Console expand to Routing Tree to the ADMD “Isode”.

M-Console External MTA Routing Addition



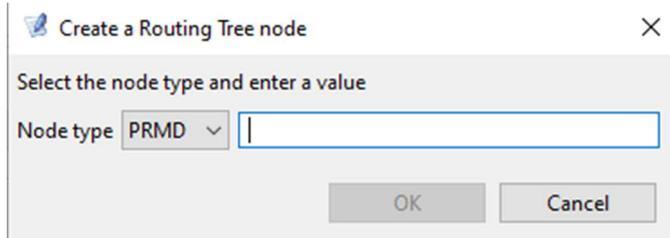
Right Click on “ADMD=Isode”.

M-Console External MTA Routing Addition



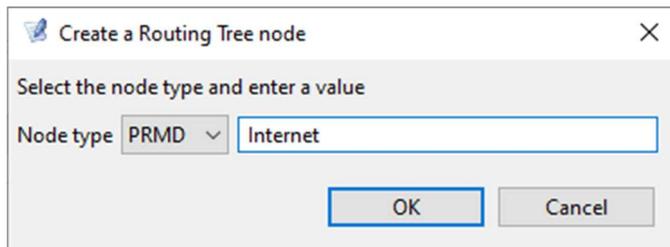
Select “Add Node...”.

M-Console External MTA Routing Addition



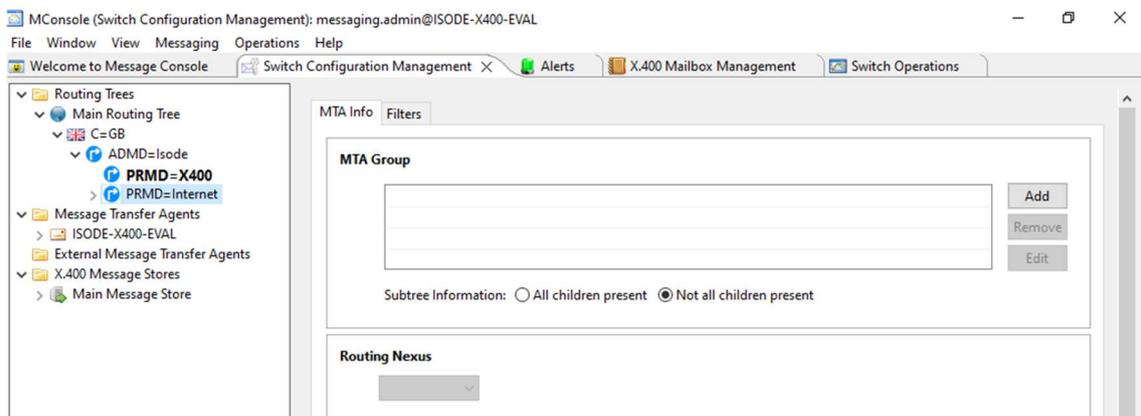
Enter “Internet” for the “PRMD”.

M-Console External MTA Routing Addition



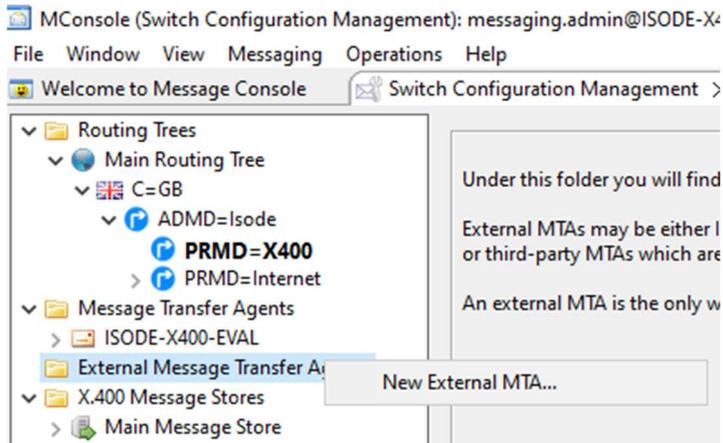
Click “OK”.

M-Console External MTA Routing Addition



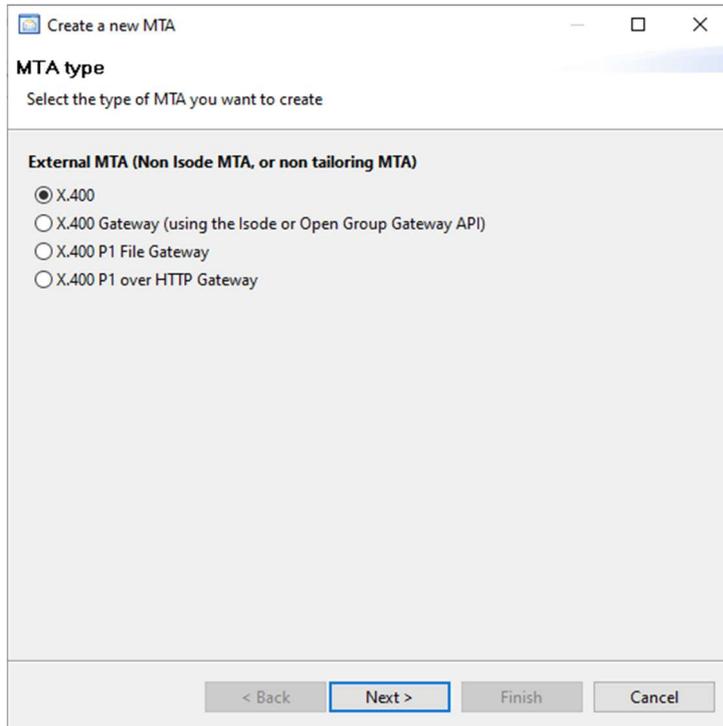
Right Click on “External Message Transfer Agents”

M-Console Add External MTA



Select "New External MTA..."

M-Console Add External MTA



Select "X.400", Click "Next>"

M-Console Add External MTA

MTA Naming
MTAs can be named in a number of different ways, depending on the context.

The MTA Name, to be used in protocols (like X.400 P1 binds)
MTA name in protocol

The host name or IP address of the system on which the MTA will run
Fully Qualified Hostname

The local Directory Name in this configuration (defaults to MTA Name)
Directory Name

Optional local description for the new MTA
Description

< Back Next > Finish Cancel

Complete the details as below.

M-Console Add External MTA

MTA Naming
MTAs can be named in a number of different ways, depending on the context.

The MTA Name, to be used in protocols (like X.400 P1 binds)
MTA name in protocol

The host name or IP address of the system on which the MTA will run
Fully Qualified Hostname

The local Directory Name in this configuration (defaults to MTA Name)
Directory Name

Optional local description for the new MTA
Description

< Back **Next >** Finish Cancel

The “Directory Name” is free text use something that works for you. “Click Next>”.

M-Console Add External MTA

Create a new MTA

Default Routing Tree for this MTA
Routing will be setup for the O/R Address Prefix selected, and the default Internet domain selected earlier.

Choose a Routing Tree or Address Conversion Table. Use the tree navigation tool to select a partial or complete O/R address, and then modify this value if necessary via the Edit button.

cn=Main Routing Tree,cn=Messaging Configuration,o=X400

- > Main Routing Tree

Selected O/R Address

O/R Address

< Back **Next >** Finish Cancel

Expand the “Main Routing Tree” until you get to “PRMD=Internet”.

M-Console Add External MTA

Create a new MTA

Default Routing Tree for this MTA
Routing will be setup for the O/R Address Prefix selected, and the default Internet domain selected earlier.

Choose a Routing Tree or Address Conversion Table. Use the tree navigation tool to select a partial or complete O/R address, and then modify this value if necessary via the Edit button.

cn=Main Routing Tree,cn=Messaging Configuration,o=X400

- √ Main Routing Tree
 - √ C=GB
 - √ ADMD=Isode
 - PRMD=Internet**
 - > PRMD=X400

Selected O/R Address

O/R Address

< Back Next > **Finish** Cancel

Select “PRMD=Internet”, Click “Next>”.

M-Console Add External MTA

Create a new MTA

Remote X.400 MTA authentication details

Configure the authentication information to be used to connect to this External X.400 MTA

Remote MTA Name to use in the bind

Remote MTA password to use in the bind

< Back Next > **Finish** Cancel

The Remote MTA Name will auto-populate make sure it matches the MA Name you have been given and then enter the Password you have been given.

M-Console Add External MTA

Create a new MTA

Remote X.400 MTA authentication details

Configure the authentication information to be used to connect to this External X.400 MTA

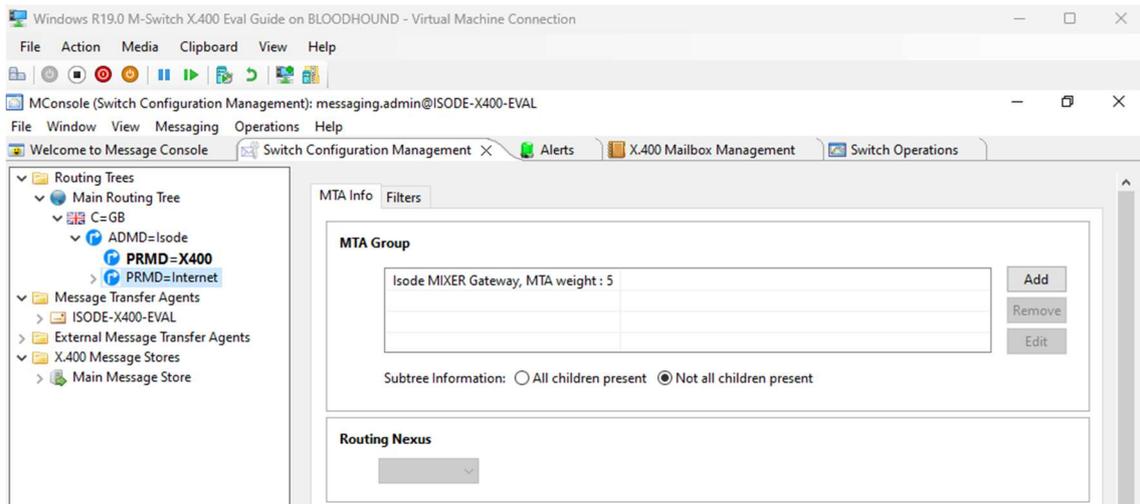
Remote MTA Name to use in the bind

Remote MTA password to use in the bind

< Back Next > **Finish** Cancel

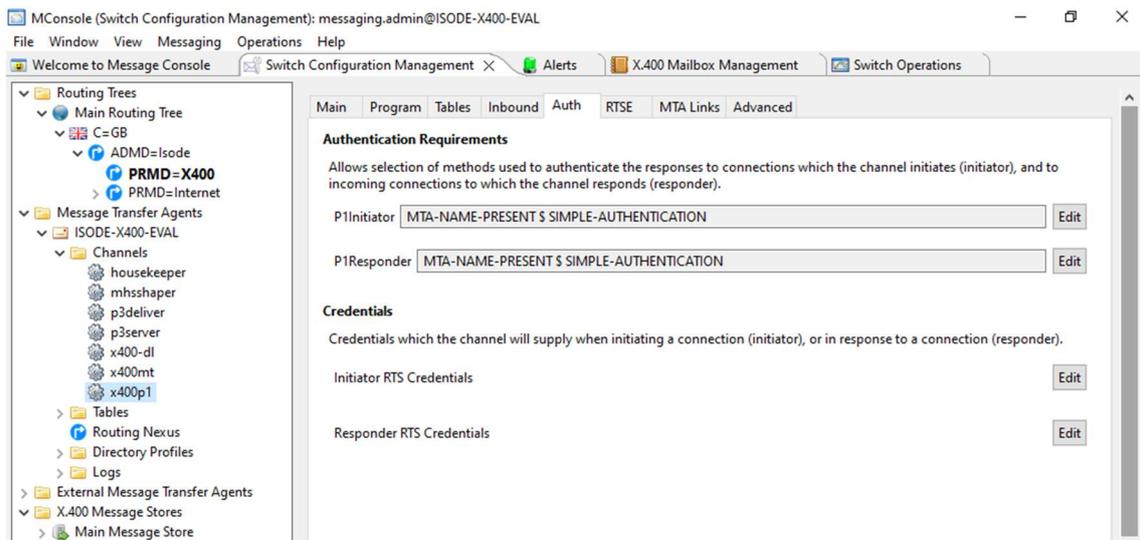
Click "Finish".

M-Console Add External MTA



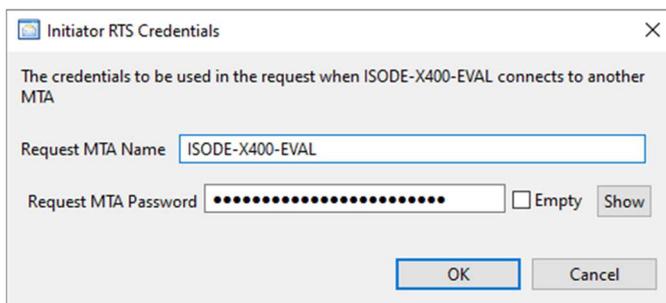
You will see that this new MTA has been added as the MTA for the PRMD=Internet. We now need to configure the Password for our x400p1 Channel. Expand our MTA and Channels then select the x400p1 channel and select the Auth Tab.

M-Console Configure X.400 P1 Channel



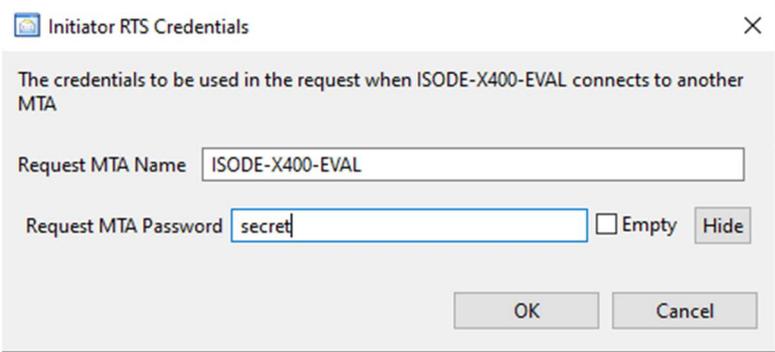
Click “Edit” on the “Initiator RTS Credentials”.

M-Console Configure X.400 P1 Channel



Change the auto-generated Password to “secret”.

M-Console Configure X.400 P1 Channel



Initiator RTS Credentials

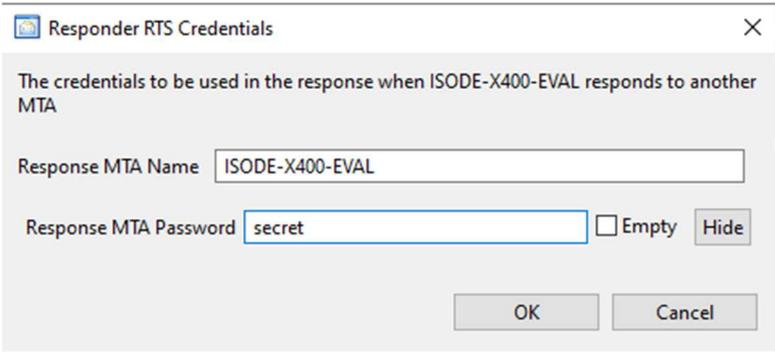
The credentials to be used in the request when ISODE-X400-EVAL connects to another MTA

Request MTA Name: ISODE-X400-EVAL

Request MTA Password: secret Empty

Click “OK”. Repeat the process for the “Responder RTS Credentials”.

M-Console Configure X.400 P1 Channel



Responder RTS Credentials

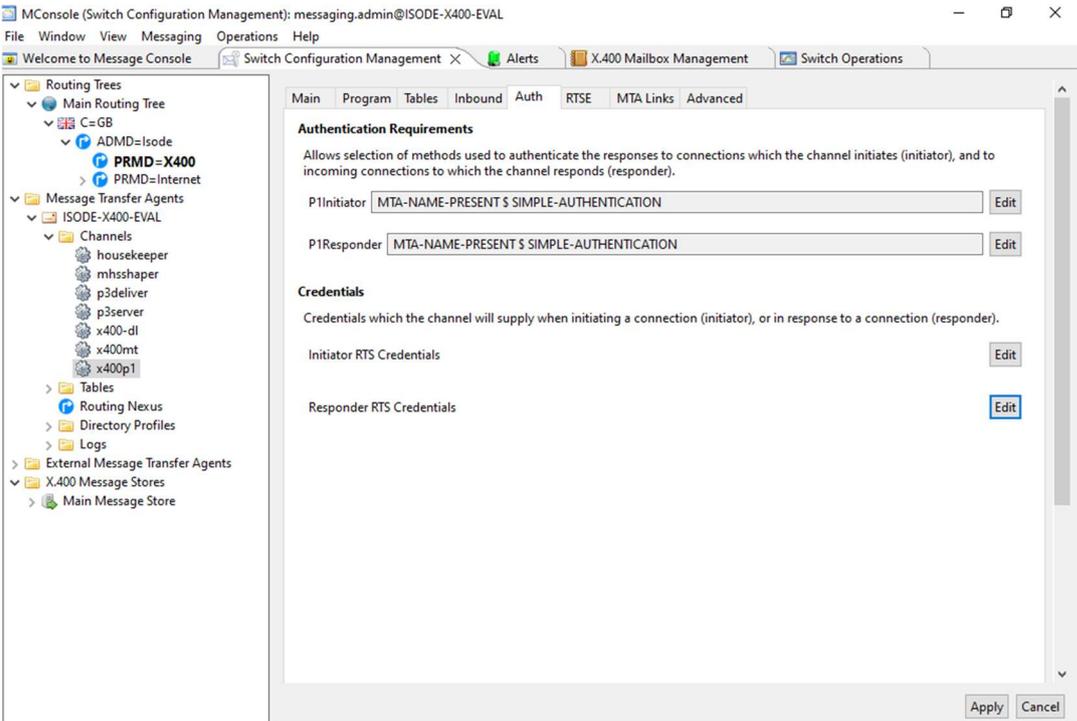
The credentials to be used in the response when ISODE-X400-EVAL responds to another MTA

Response MTA Name: ISODE-X400-EVAL

Response MTA Password: secret Empty

Click “OK”.

M-Console Configure X.400 P1 Channel



MConsole (Switch Configuration Management): messaging.admin@ISODE-X400-EVAL

File Window View Messaging Operations Help

Welcome to Message Console | Switch Configuration Management | Alerts | X.400 Mailbox Management | Switch Operations

Main Program Tables Inbound Auth RTSE MTA Links Advanced

Authentication Requirements

Allows selection of methods used to authenticate the responses to connections which the channel initiates (initiator), and to incoming connections to which the channel responds (responder).

P1Initiator: MTA-NAME-PRESENT \$ SIMPLE-AUTHENTICATION

P1Responder: MTA-NAME-PRESENT \$ SIMPLE-AUTHENTICATION

Credentials

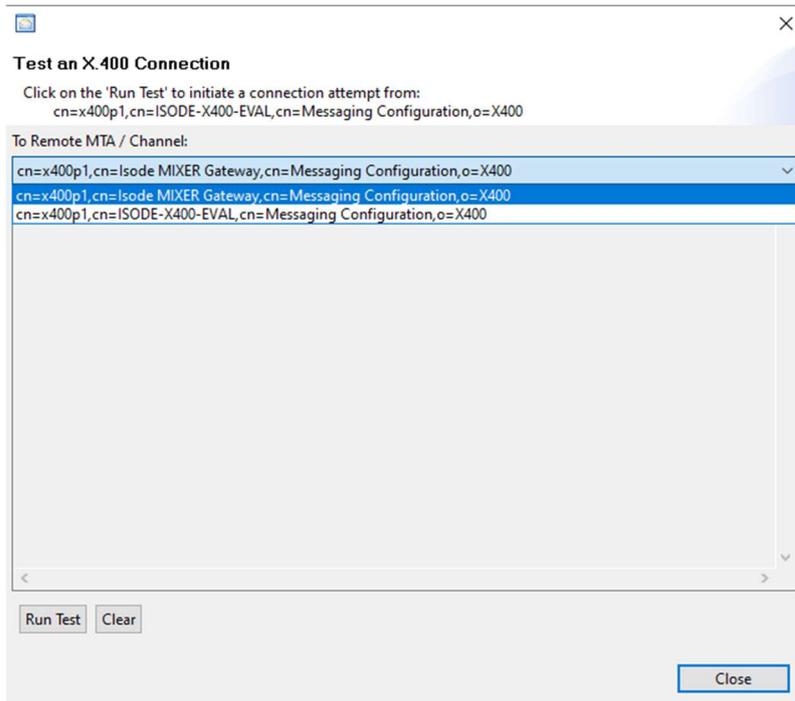
Credentials which the channel will supply when initiating a connection (initiator), or in response to a connection (responder).

Initiator RTS Credentials

Responder RTS Credentials

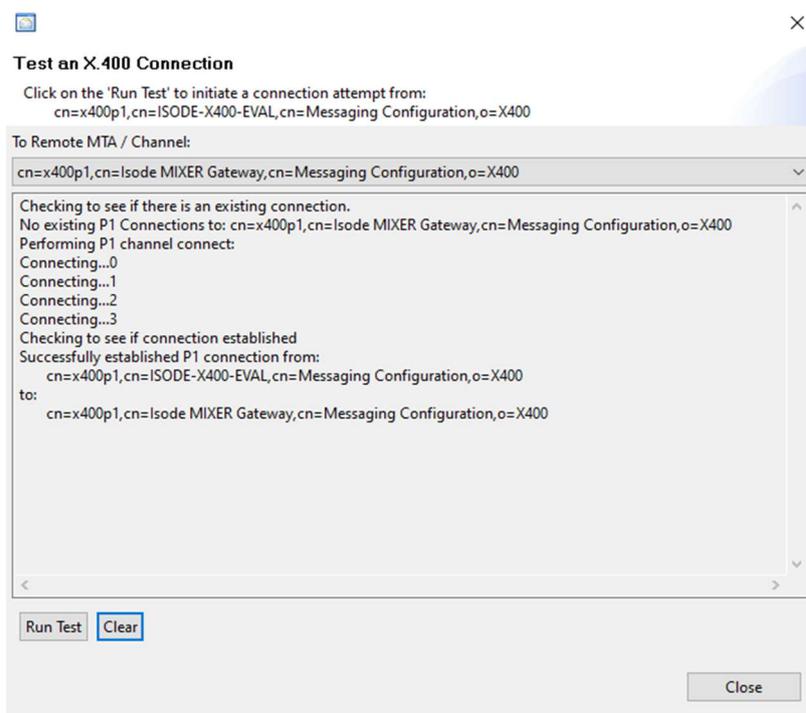
Click “Apply”. We now need to test the Connection, Right Click on the x400p1 Channel.

M-Console Test Connection to External MTA



Select the New MTA (cn=Isode MIXER Gateway...). Click “Run Test”.

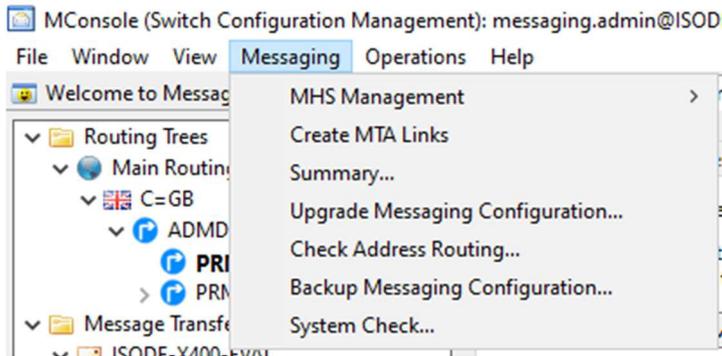
M-Console Test Connection to External MTA



If you do not see a successful connection check Port 102 is open on both machines. We now need to check the Routing.

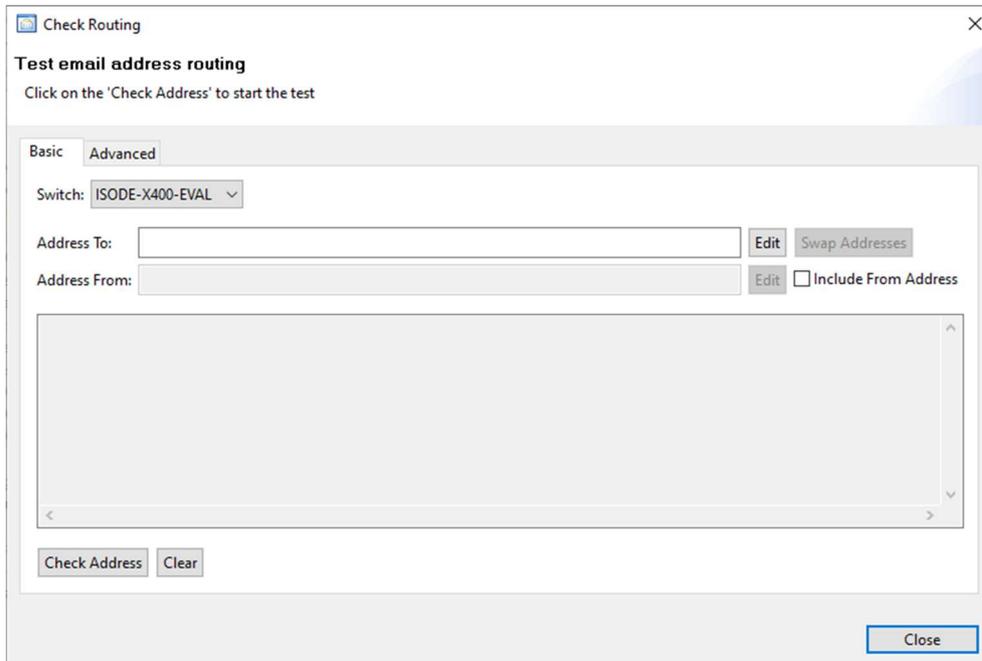
From the “Top Menu” Click “Messaging.

M-Console Check Routing



Select "Check Address Routing...".

M-Console Check Routing



Click "Edit" next to "Address To:".

M-Console Check Routing

Enter the details for the remote user and Click “OK”. Then Click “Check Address”.

M-Console Check Routing

You should see it routing to the new Remote MTA. We now need to Add the Remote Users to the White Pages Address Book for XUXA. We will use and Isode GUI called “Sodium” for this.

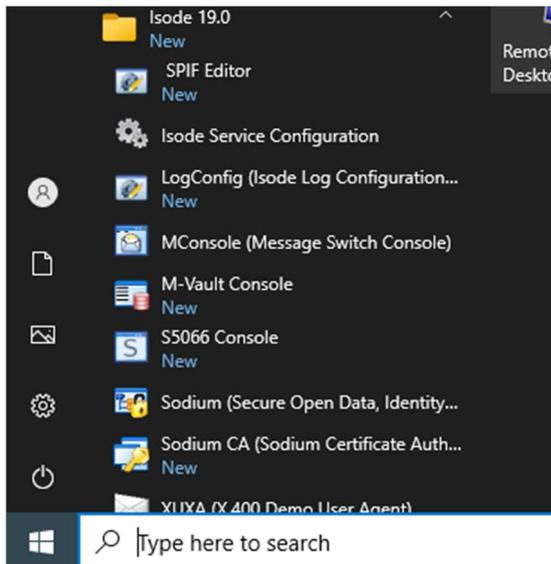
Adding Address Book Entries with Sodium

If running on Linux use the following command.

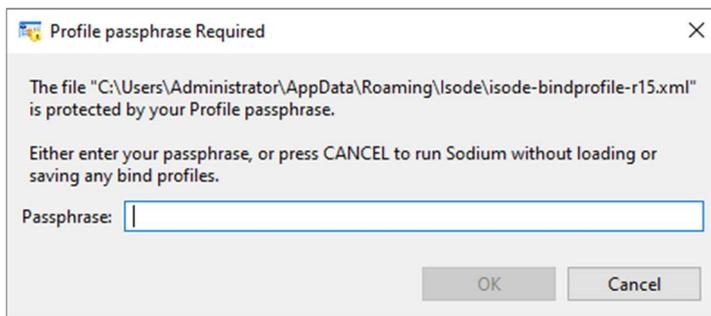
```
% /opt/isode/bin/sodium
```

From Windows Start→Isode R19.0→Sodium (Secure Open Data, Identity... .

Start Sodium

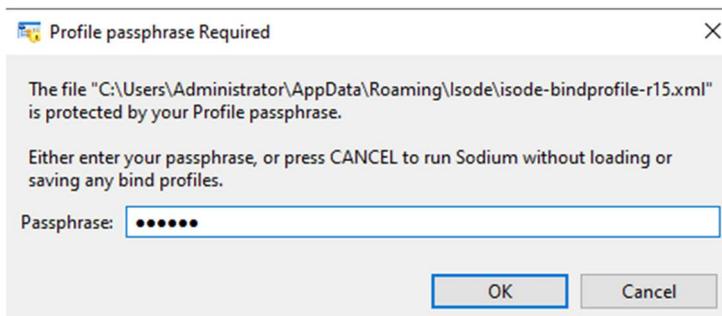


Enter Sodium Passphrase



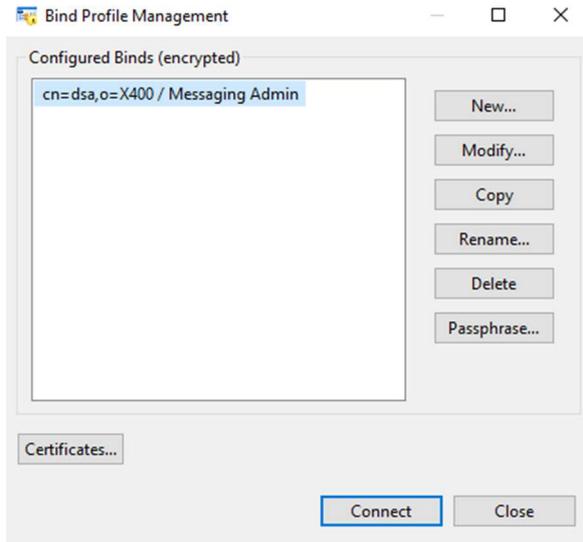
Enter the Passphrase (same as for M-Console).

Enter Sodium Passphrase



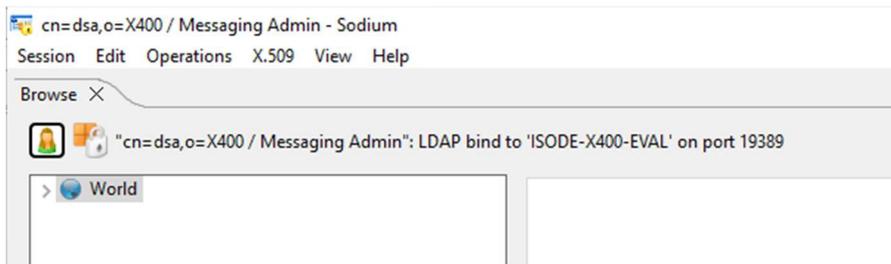
Click "OK".

Connect Sodium



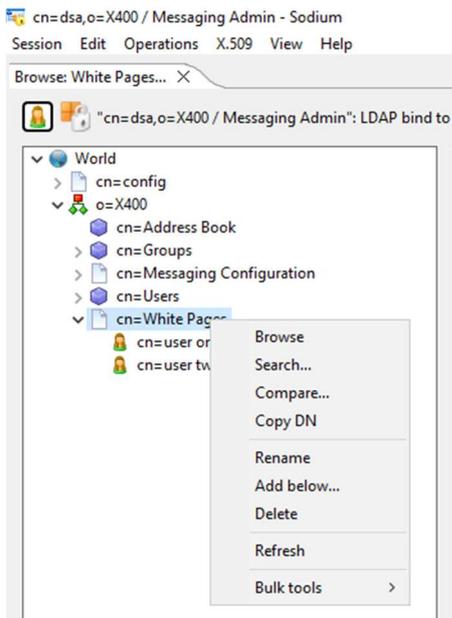
Click “Connect”.

Sodium View



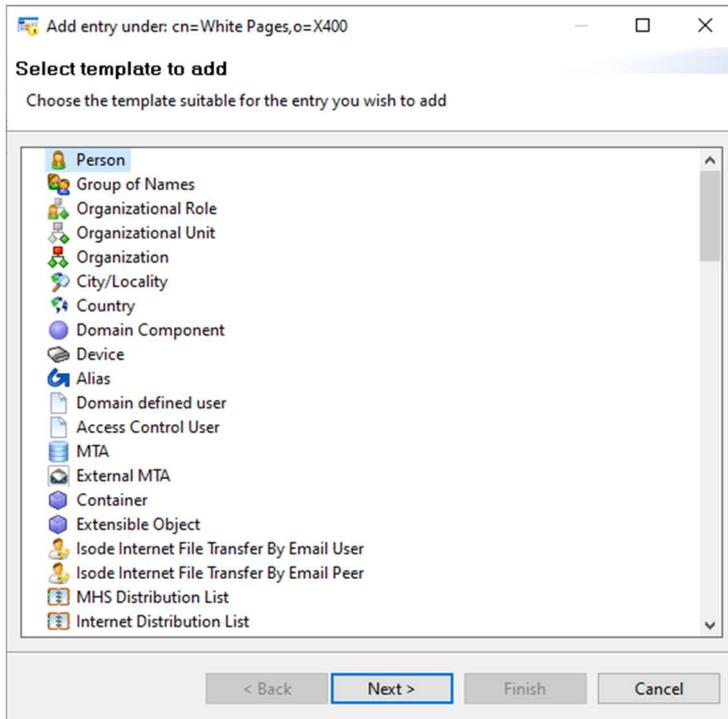
Expand the View from “World” until you reach “White Pages”, the Right Click on “White Pages”.

Sodium Add below



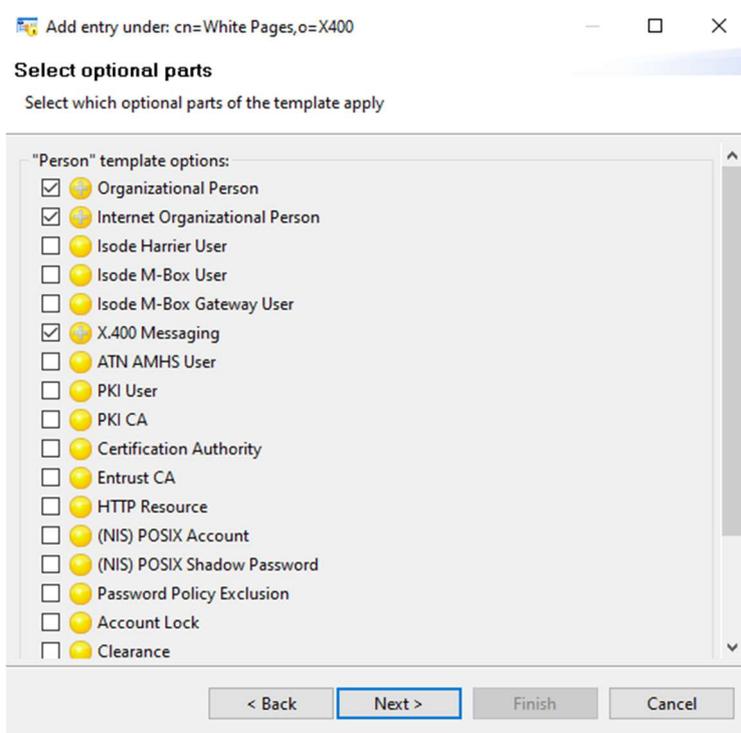
Select “Add below...”.

Sodium Add below



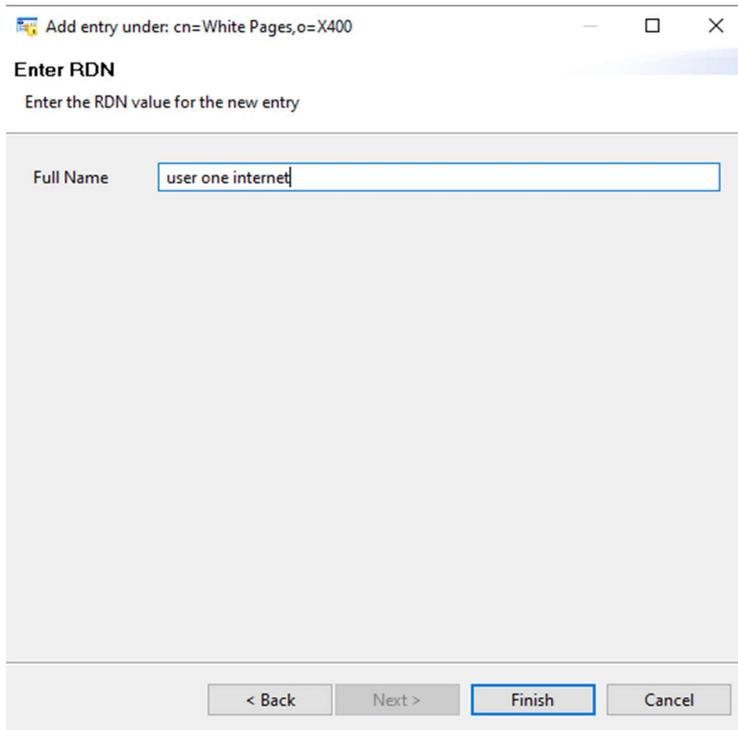
Click "Next>".

Sodium Add below



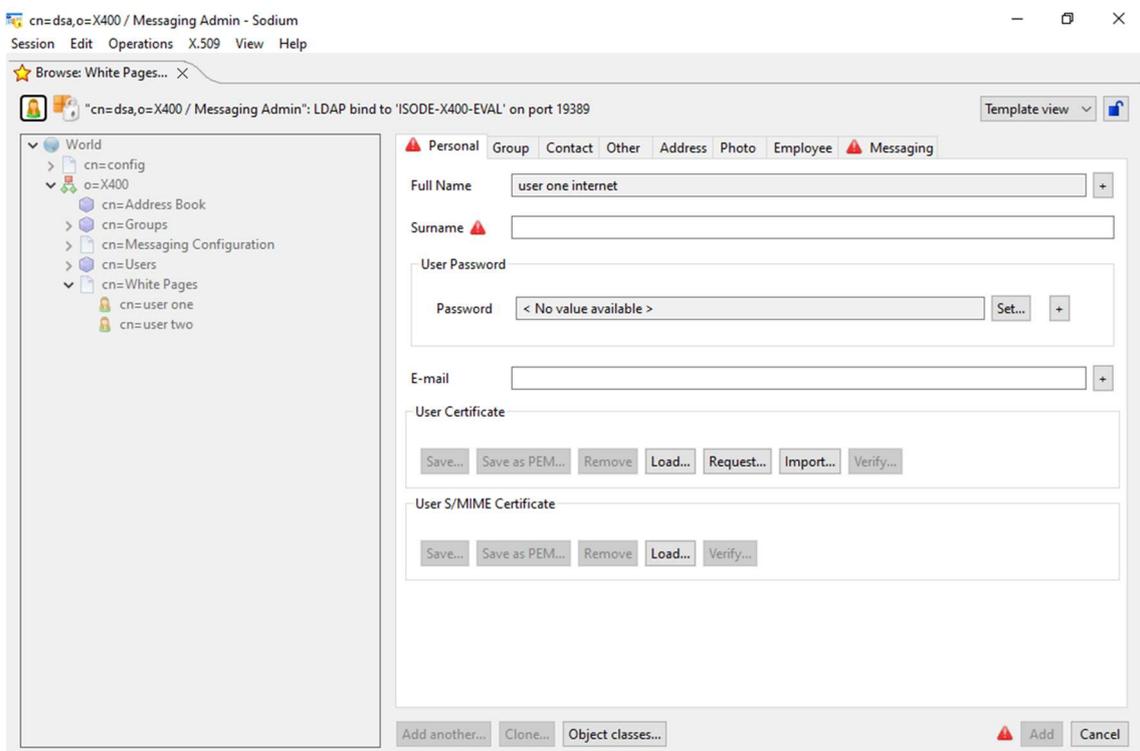
Check "Organizational Person", "Internet Organizational Person"& "X.400 Messaging".
Click "Next>".

Sodium Add below



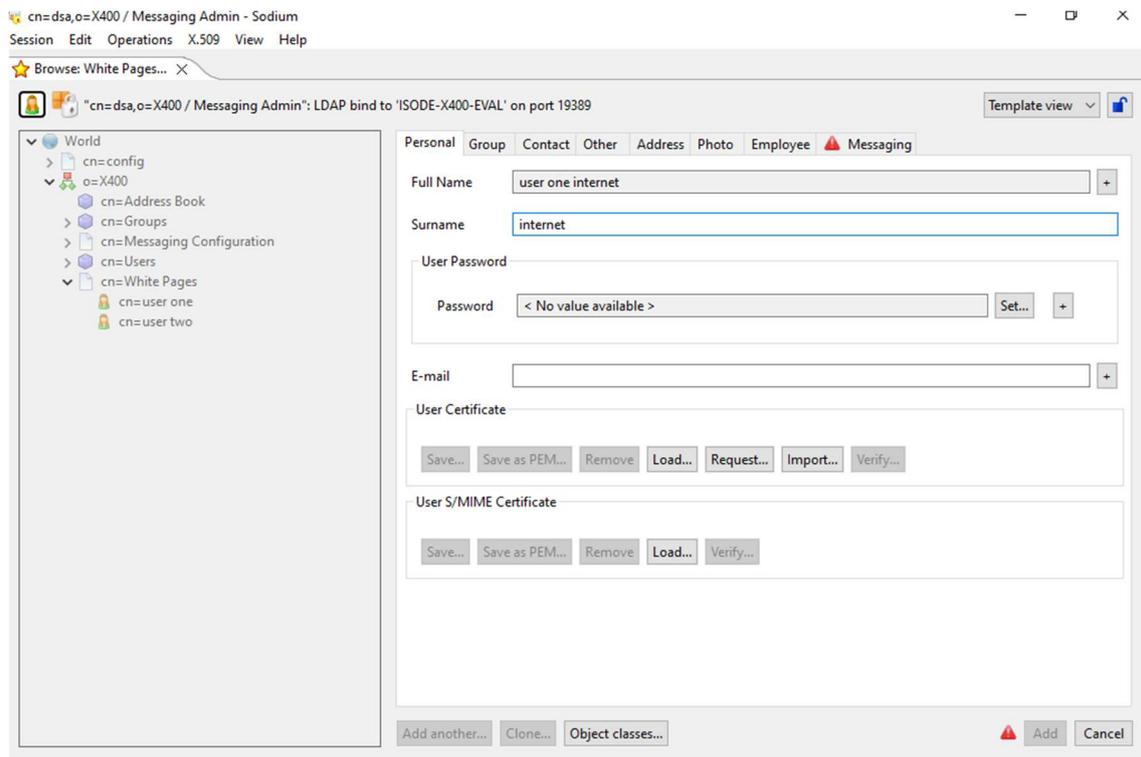
Enter a "Full Name", in this case we will use "user one internet", Click "Finish".

Sodium Add below



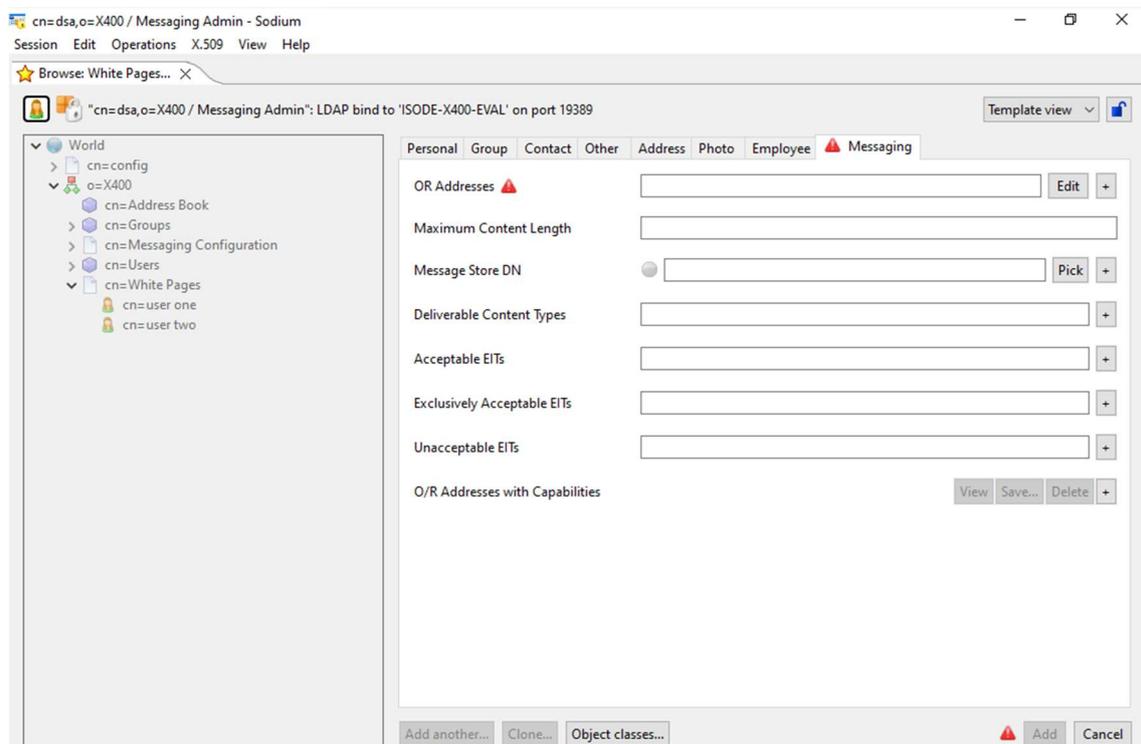
Add "internet" for "Surname" .

Sodium Add below



Select the “Messaging” tab.

Sodium Add below



Click “Edit” next to the OR Address.

Sodium Add below

O/R Address Editor

Name Form: Personal Name

Country Name: GB Administrative Domain: Isode Space

Private Domain: Internet Organization: _____

Organizational Unit #1: _____ Organizational Unit #2: _____

Organizational Unit #3: _____ Organizational Unit #4: _____

Surname: one Initials: _____

Given Name: user Generation Qualifier: _____

Domain-defined type: _____ = _____ +

Clear OK Cancel

Complete the form as above, Click "OK".

Sodium Add below

cn=dsa,o=X400 / Messaging Admin - Sodium

Session Edit Operations X.509 View Help

Browse: White Pages...

"cn=dsa,o=X400 / Messaging Admin": LDAP bind to 'ISODE-X400-EVAL' on port 19389

Template view

World

- cn=config
- o=X400
 - cn=Address Book
 - cn=Groups
 - cn=Messaging Configuration
 - cn=Users
 - cn=White Pages
 - cn=user one
 - cn=user two

Personal Group Contact Other Address Photo Employee Messaging

OR Addresses: /G=user/S=one/PRMD=Internet/ADMD=Isode/C=GB/ Edit +

Maximum Content Length: _____

Message Store DN: _____ Pick +

Deliverable Content Types: _____ +

Acceptable EITs: _____ +

Exclusively Acceptable EITs: _____ +

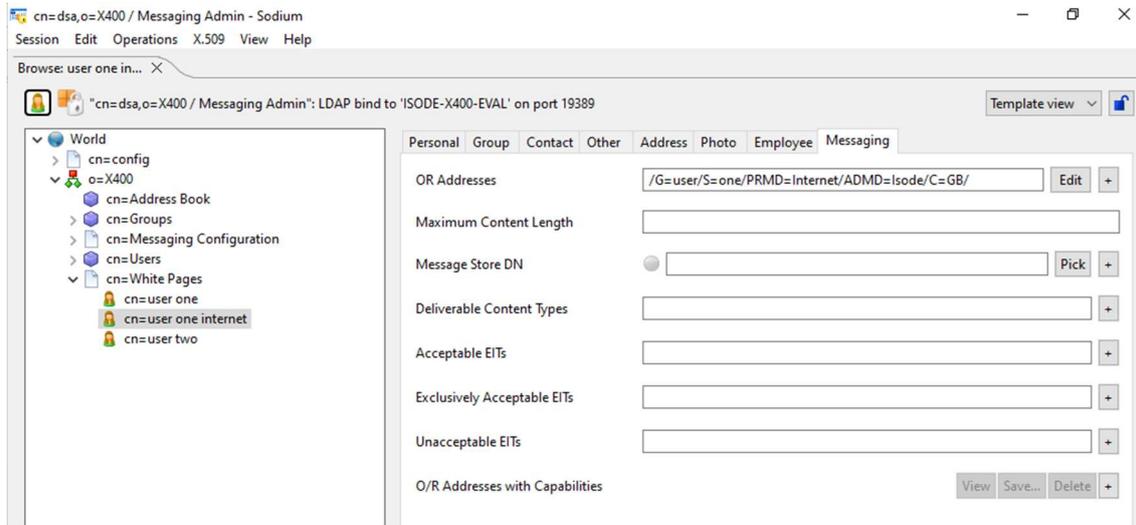
Unacceptable EITs: _____ +

O/R Addresses with Capabilities: View Save... Delete +

Add another... Clone... Object classes... Add Cancel

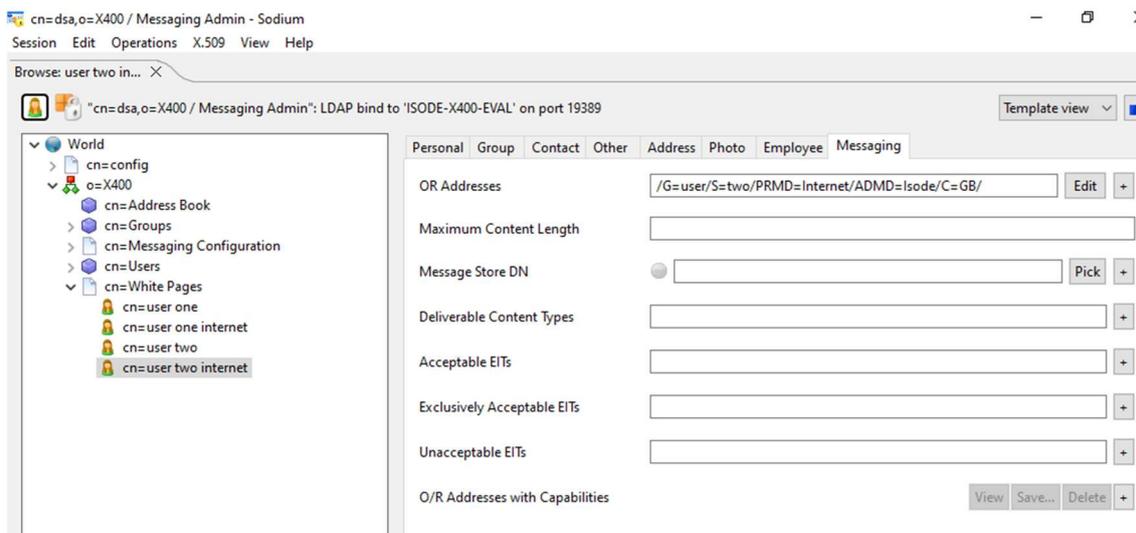
Click "Add".

Sodium Add below



Repeat the process for “user two internet”.

Sodium Add below

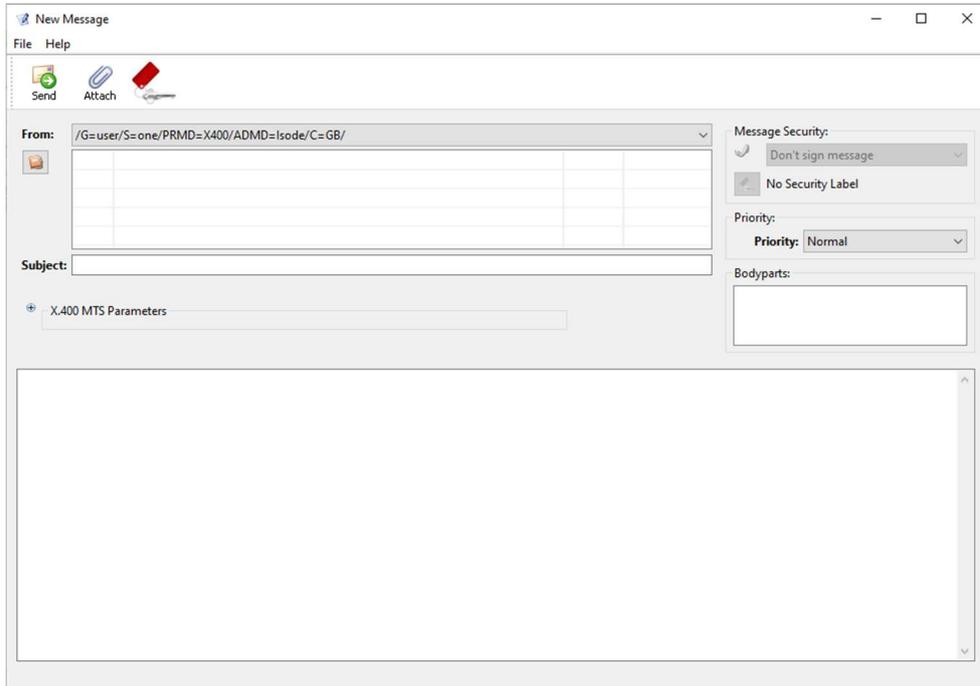


This completes adding the Address Book entries for XUXA.

Sending a Message to an External X.400 User with XUXA.

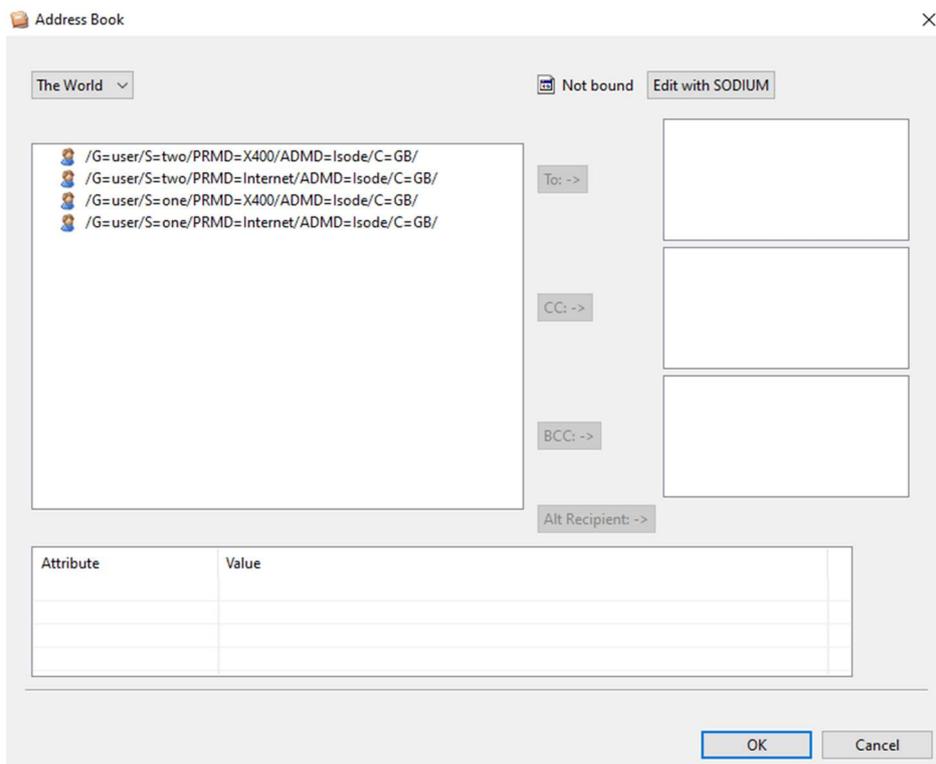
From XUXA Click the “Write” Icon.

XUXA Sending a Message to a Remote User



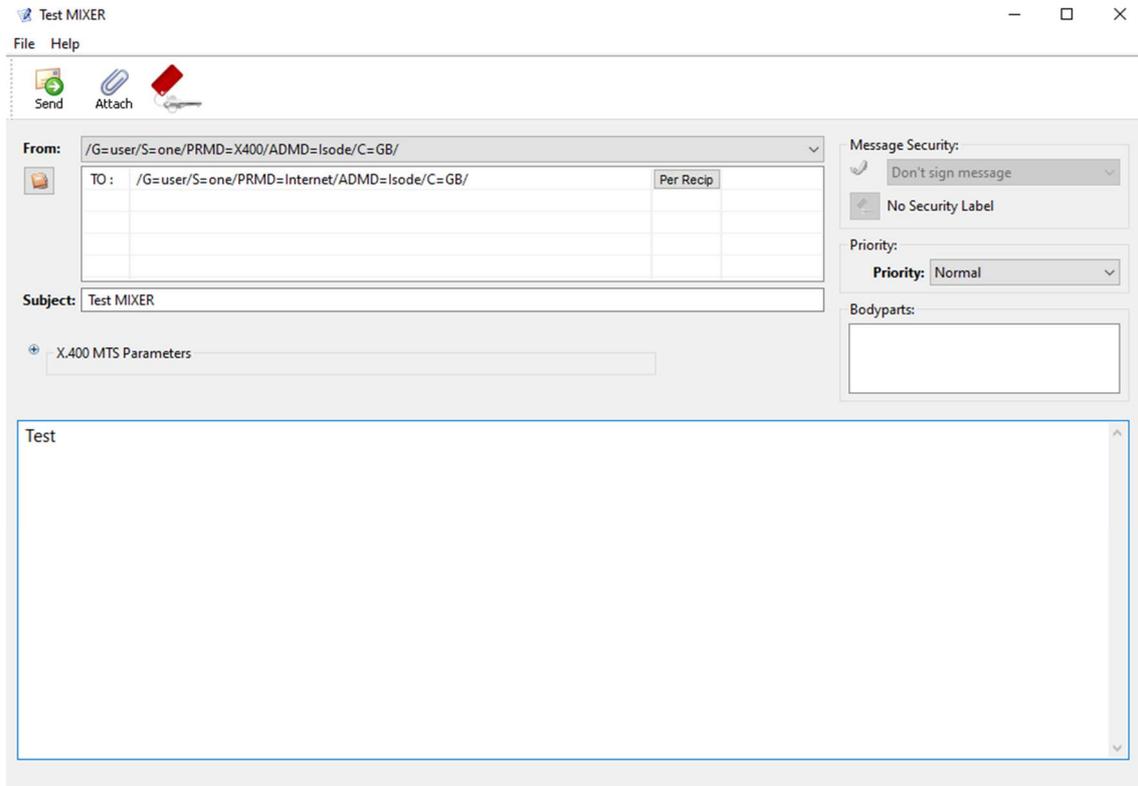
Click the “Address Book Icon”,

XUXA Sending a Message to a Remote User



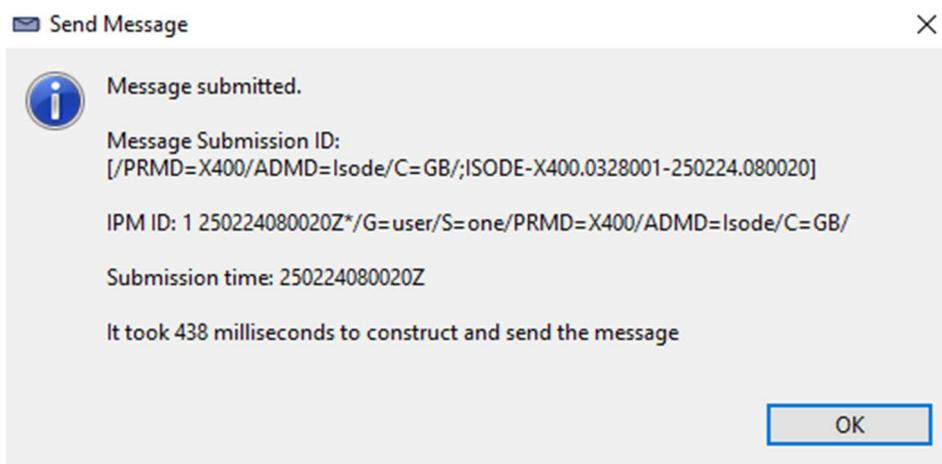
Select /G=user/S=one/PRMD=Internet/ADMD=Isode/C=GB/, Click “OK”.

XUXA Sending a Message to a Remote User



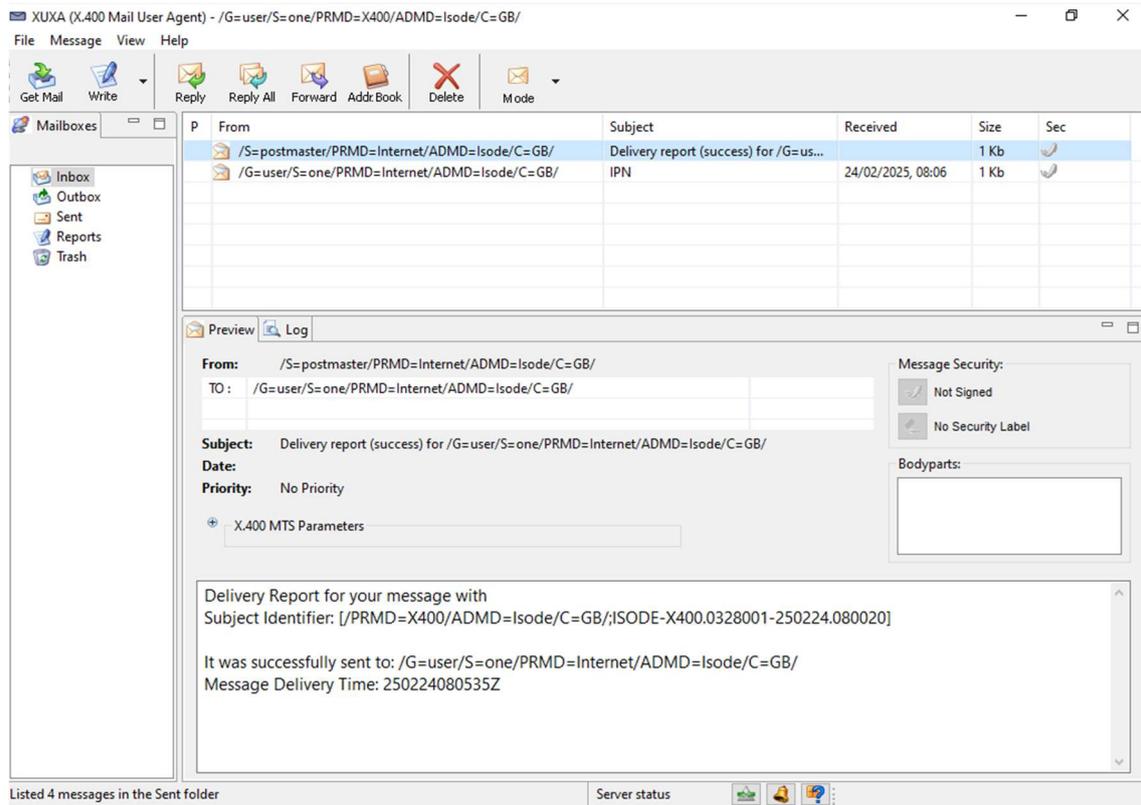
Enter a Subject and some test, then Click the “Send” Icon.

XUXA Sending a Message to a Remote User



Click “OK”.

XUXA Sending a Message to a Remote User



You can see the successful Delivery Report above.

This completes the Guide.

What Next?

More information on M-Switch X.400 can be found on the Isode website at <https://www.isode.com/product/x-400-message-switch/>.

Whitepapers

Isode regularly publishes whitepapers on technical and market topics related to its products. A full list of these can be found at <https://www.isode.com/whitepapers/>.

Copyright

The Isode Logo and Isode are trade and service marks of Isode Limited.

All products and services mentioned in this document are identified by the trademarks or service marks of their respective companies or organizations, and Isode Limited disclaims any responsibility for specifying which marks are owned by which companies or organizations.

Isode software is © copyright Isode Limited 2002-2025, All rights reserved.

Isode software is a compilation of software of which Isode Limited is either the copyright holder or licensee. Acquisition and use of this software and related materials for any purpose requires a written licence agreement from Isode Limited, or a written licence from an organization licensed by Isode Limited to grant such a licence.

This manual is © copyright Isode Limited 2025.