# **Migration Toolkit 2.1.7**

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## **Migration Toolkit**

# From GroupWise to Exchange and Office 365 From eDirectory to Active Directory

Version 2.1.7

#### **Overview**

The Migration Toolkit automates the process of mail system migrations, removing the difficulties and tedium in creating users and moving mail and system data from GroupWise to Exchange.

The Migration Toolkit not only migrates users from GroupWise to Exchange, but does so in steps, allowing for a smooth setup of the Active Directory system. The steps available are Active Directory user, to mail user, to active mailbox, and also a merge for eDirectory users with Active Directory. This graduated approach provides options for either a measured setup or rapid deployment.

The Migration Toolkit functions from exported CSV files which the toolkit creates. Creation of the CSV file is the sole reason the Toolkit connects to the GroupWise system. Logging into eDirectory, the toolkit grabs all user objects and exports them to the CSV file. After the CSV file has been created, the toolkit only needs to have an active connection to Active Directory to migrate users into Exchange.

We have found that each migration is unique in some significant way. The Migration Toolkit is very flexible and allows significant customizing of the migration process.

Think of the Migration Toolkit as allowing you to setup a jig of how you want the data to be moved from one system to another. Once you have it setup for one user the rest will follow the same pattern.

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## Sales and Technical Support

## **Technical Support**

If you have a technical support question, please consult the GWAVA Technical Support section of our website at www.gwava.com or support.gwava.com.

#### Sales

To contact a GWAVA sales team member, please e-mail info@gwava.com

or call Tel: 866-GO-GWAVA (866-464-9282) in North America or +1 514 639 4850.

100 Alexis Nihon Blvd. suite 500 Montreal, Quebec Canada. H4M 2P1

#### **Limitations of the Trial License**

The trial license has these limitations: migrating 10 message per folder migrating 10 contacts per address book migrating 1 proxy rights migrating 5 users and/or resources migrating 5 distribution lists

You will also not be allowed to create forwarding rules for your GroupWise users.

Without any license you will not be able to load users at all.

## **System Requirements**

## **Supported Mail Systems**

GroupWise 7.0.3+, 8.x, 2012, 2014, 2014R2 Exchange 2013, 2016 Office 365

**Note**: Support for Office 365 requires an impersonation account, or an administrator account with built-in impersonation rights. Most licenses of Office 365 include impersonation with the administrator account, though some may not. Ensure that impersonation rights are held by the admin, or an impersonation account can be created. The migration will not function without impersonation.

### **System Requirements**

See the Installation chapter for details

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Windows 7 SP1
8+ GB of RAM

□ 50+ GB of available disk space

#### Software Prerequisites

### **System Preparation Overview**

Both the GroupWise and Exchange systems will need some preparation before the migration will be successful. This is described in detail on the System Preparation page.

## **GroupWise System Preparation Overview**

For the migration to run smoothly, the GroupWise system must be clean and in good condition with all links and data correct. To ensure that the system is ready for migration, it is essential to run GWCheck before beginning the migration. While running the GWCheck, it is important that the following options are checked as shown below:

Items not checked as shown are not required and not important for the migration. Running GWCheck before the migration will help ensure that no GroupWise errors are encountered during the migration.

You'll need to create a Trusted Application Key, enable SOAP and configure LDAP on the directory.

### **Exchange System Preparation Overview**

A global administrator and a user with Application Impersonation rights will need to be available for the data to be migrated successfully.

Autodiscover and Basic Authentication will need to be enabled.

A throttling policy will need to be set to allow faster data flow and to not limit the size of attachments.

An SMTP relay will be needed for migrating calendar items and tasks.

## **System Preparation**

## **Configure Directory and Email Systems**

We will be connecting two dissimilar systems and to do that we need to connect where things are coming from to the places they will go.

If the directory and email systems are not properly configured the migration will not succeed. There are many steps and several pieces information that need to be recorded from the directory and email systems for entry into the Migration Toolkit.

Create a document to organize this data.

## Configure eDirectory/LDAP and GroupWise

\*\*\*These items will be essential in the configuration of the MTK. Have these ready before launching the software\*\*\*

1. If using eDirectory, Make sure the LDAP server on GroupWise is configured, and can

be accessed.
Note down the following information to be used with the MTK:
□ LDAP IP Address
<ul> <li>□ LDAP Port (default is 398)</li> <li>□ User Name and Password to access LDAP (i.e. admin). Must be an FDN (look at properties of the admin user in LDAP, or LDAP Browser). For example: cn=John Doe, ou=users,o=domain</li> </ul>
□ Base DN of the server that will search for users. This will be the container level, or higher, where all of the users will exist. (Right click the container and click on properties). For example: dc=users, dc=com.
☐ Tree Name: Note the name of your tree at the top level. This will be needed for licensing. (If you do not have a tree name just make one up for the license.)
Be sure SOAP is enabled on GroupWise Post Office Agent.  Write down the following for GroupWise:
□ SOAP IP address of primary post office.
<ul><li>□ SOAP port for primary post office (default is 7191)</li><li>□ Client Port for Primary post office (default is 1677)</li></ul>
3. Create a Trusted Application Key to use for the MTK. Copy the name of the key and the key to a file that can easily be accessed. This will be required for the license and the program. This is case sensitive.
□ Key Name
□ Kev

4. Run GWCheck on all post offices in the system. Be sure to run the stand alone utility, not the automated GWCheck. Run it with Content/Analyze/Fix to clean any issues with mailboxes, or email messages. In larger systems, this may take significant time. This is a very important step as corrupt data will not be able to be migrated. Even with this step there is no guarantee that all data will be able to be migrated, but the cleaner the data the better.

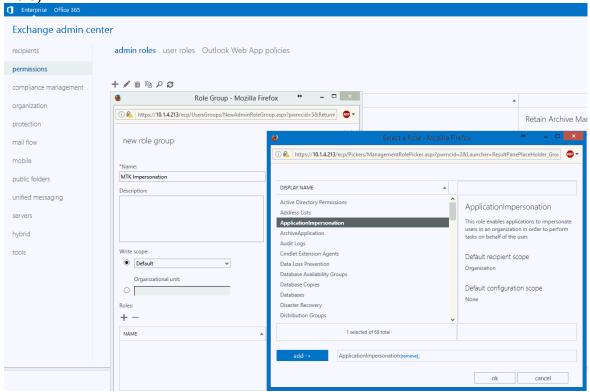


□ GWCheck complete

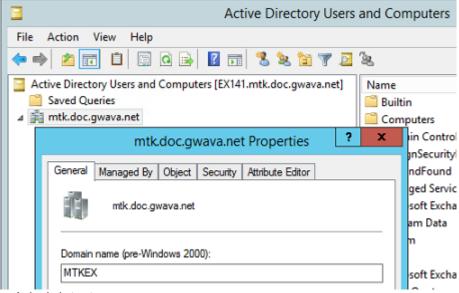
## Configure Exchange/O365 and Active Directory

- 1. Create a Global Administrator Account in Exchange or Office 365. (This is used to gain access to Exchange/Office 365)
  - □ Administrator Account Name
  - □ Password

- 2. Create an Impersonation Account E-mail in Exchange or Office 365. (This is used to log into the mailboxes and access their messages.)
  - Impersonation Account Name
  - □ Password
- 3. Create ApplicationImpersonation Role and add the Impersonation user to it.
  - □ ApplicationImpersonation rights enabled (EAC: Permissions/Admin Roles/New Role)



- □ Impersonation Account added as Member
- 4. Make sure you can access, as an administrator, the Active Directory. Note down the following information:
  - □ IP Address of Active Directory
  - □ Active Directory Domain name used for logon. (This is found under AD Users and Computers, right-click on the domain to view Properties, under General: **Domain name (pre-Windows 2000)**).



- □ Administrator user name
- □ Administrator password
- □ Default Context
- □ Mailbox DB (This is found by enabling Advanced Features (View | Advanced Features) finding the administrator account, and going to properties. Then click on Edit Attributes. Look for the FDN and it will show the Mailbox DB in the same line.)
- 5. Make sure you can access the Exchange/Office 365 Administration Center. Note down the following information:
  - □ IP Address of Exchange or Office 365 and the Host-name
  - □ Domain Name
- 6. Set throttling policy to unlimited. This ensures that Microsoft Exchange will not halt the migration process because too many items are coming into the system.
  - □ Open Microsoft Exchange Management Shell.

Type these commands to create a policy called *GWAVAUnlimited*:

New-ThrottlingPolicy GWAVAUnlimited

Set-ThrottlingPolicy GWAVAUnlimited -RCAMaxConcurrency Unlimited -EWSMaxSubscriptions Unlimited -CPAMaxConcurrency Unlimited -EwsCutoffBalance Unlimited -EWSMaxBurst Unlimited -EwsRechargeRate Unlimited Set-Mailbox [Retain impersonation account] -ThrottlingPolicy GWAVAUnlimited

Set-ThrottlingPolicy GWAVAUnlimited -ThrottlingPolicyScope Organization

(Organization level will affect all mailboxes associated with the impersonation account).

#### View the throttling policy by typing:

Get-ThrottlingPolicy -Identity GWAVAUnlimited | Format-List

<ul> <li>7. Set Throttling Policy on IIS/Exchange Size Limits: By default, Exchange will refuse the messages over a certain size. The size limit needs to be increased.  Go into IIS Manager, select Default Web Site. Under Management, select Configuration Editor.  Under system.WebServer, expand that, then security, then authentication. Select requestFiltering  Under requestLimits change maxAllowedContentLength to a large number. Add a few 0s, this will be in bytes.  Change Timeout: In IIS Manager, select Default Web Site then click on Limits on the right side.  Change the Connection time-out to a larger number. Add a few more 0s.</li> </ul>
8. Create an SMTP Relay: This is used for calendar items and tasks. Without it, calendar items and tasks may not be migrated, nor processed. This can be done on any server that the MTK can access.
<ul> <li>Launch Server Manager. Click Add Roles and Features</li> <li>Click Next until you get to Features, and select SMTP Server. Install the service.</li> <li>Configure the SMTP Service</li> <li>Launch IIS Manager 6.0</li> </ul>
Expand and go to Properties of the SMTP Virtual Server
Enable logging In Access Tab, click on Connection then Add. Add in the MTK IP address. Click Relay and add the MTK IP Address
In Messages Tab, uncheck all of the boxes. In Delivery Tab, click Advanced. Enter in the FDN of the Exchange server. Enter in smarthost, and click the box, "Attempt direct delivery before sending to smart host."
□ Disable Firewall or add a rule to allow the SMTP connection.  Launch Windows Firewall
Right click on Inbound rule and select New Rule Select Port
Type in 25 – Allow the Connection – Uncheck Public – Name the rule Restart SMTP service.
9. Enable Basic Authentication on all CAS servers, using one of the following methods - In Exchange Admin Center:  Servers   Virtual Directories   EWS  Servers   Virtual Directories   EWS
Servers   Virtual Directories   Autodiscover - In IIS Manager:
IIS Manager   Server   Sites   Default Web Site   EWS   Authentication IIS Manager   Server   Sites   Default Web Site   Autodiscover   Authentication
- Using PowerShell:
<pre>EWS:     Get-WebServicesVirtualDirectory   ft</pre>
server, basicauthentication

```
Set-WebServicesVirtualDirectory -Identity "EWS (Default Web Site)" -BasicAuthentication $true

Autodiscover:

Get-AutoDiscoverVirtualDirectory | ft
server,basicauthentication

Set-AutodiscoverVirtualDirectory -Identity 'autodiscover (Default Web Site)' -BasicAuthentication $true
```

- □ Basic Authentication enabled
- 10. Enable Autodiscover (need to contact Microsoft for Office 365). Also be sure that firewalls or proxies are not going to block autodiscover. If a user has multiple domains for their emails but only one for their Active Directory they will need to update their DNS SRV file to support autodiscover.
  - □ Autodiscover enabled
- 11. Check Autodiscover by running the connectivity tester providing by Microsoft: http://support.gwava.com/kb/?View=entry&EntryID=2378 or https://testconnectivity.microsoft.com/
  - □ Autodiscover active
- 12. Default EWS URL

#### Exchange:

- Using PowerShell:

Open the Exchange Management Shell (EMS)

Run the command:

```
Get-WebServicesVirtualDirectory |Select name, *url*
| fl
```

- Using Outlook:

Have Outlook in the system tray

Press Ctrl and right-click on Outlook

Select "Test E-mail Auto Configuration" from the menu

Enter an email address on the Exchange server

Click Test

EWS URL is the "Availability Service URL"

#### O365:

Browse to the Microsoft test connectivity tool

(https://testconnectivity.microsoft.com)

Under the Office365 tab select Outlook Connectivity test

Once the test is complete Expand all and search for "EwsUrl" which should result in something like "https://outlook.office365.com/EWS/Exchange.asmx"

### **Tips**

When running the Email Migration, if the Toolkit states you don't have JAVA the toolkit will download it. However, the toolkit will only download the 32-bit version instead of the

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64-bit version. Be sure to go and download the 64-bit version manually, if you are on a 64-bit OS.

If you try to launch Email Migration and it does nothing, it means that you don't have JAVA 64-bit installed. Download the JAVA 64-bit version manually.

If a user is not attached to an eDirectory object, the Toolkit will not migrate the user.

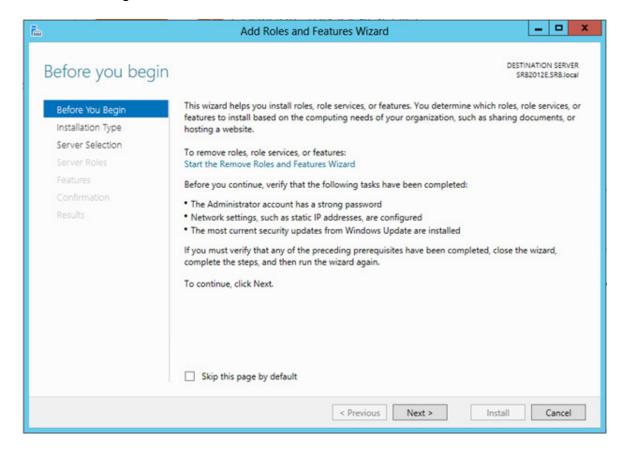
## **SMTP Configuration**

## Install the SMTP Service for an SMTP relay:

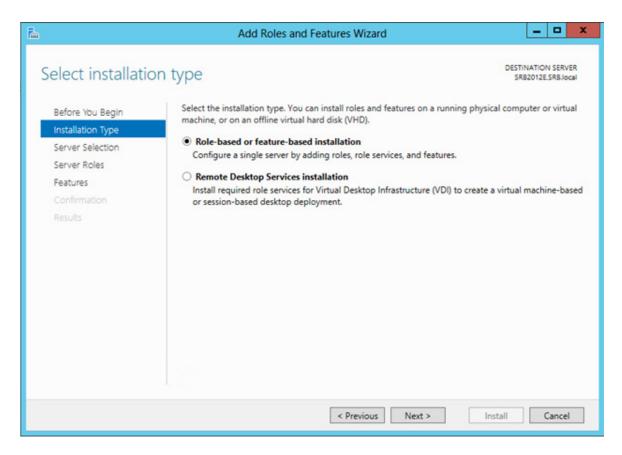
Launch the Server Manager. From the Search charm, type in Server Manager to find it.



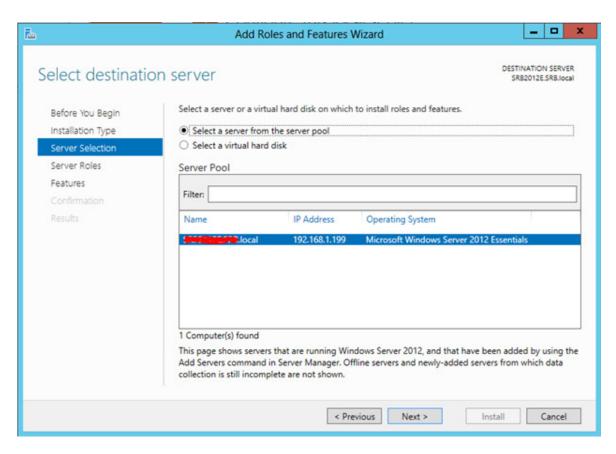
From the Dashboard, Add Roles and Features. The Add Roles and Features Wizard will begin. Click Next on the first screen.



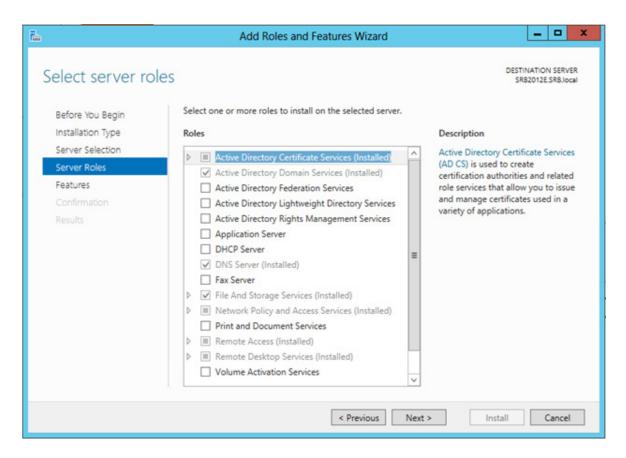
Select Role-based or feature-based installation.



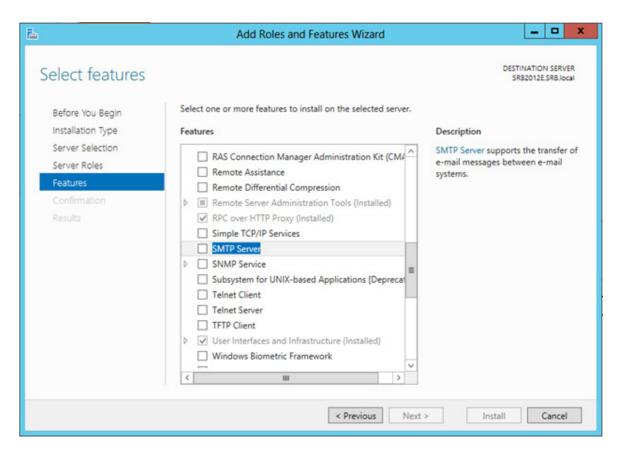
Select the Essentials Server (which should be highlighted by default).



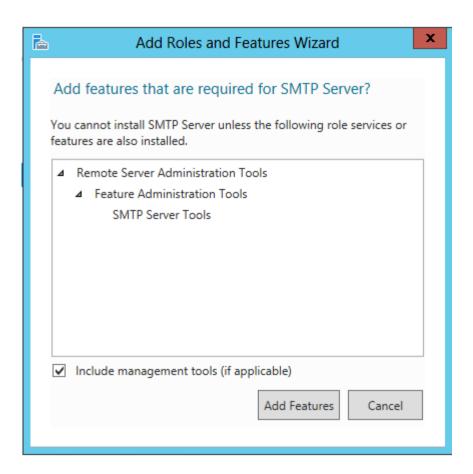
Click Next to bypass the Roles selections.



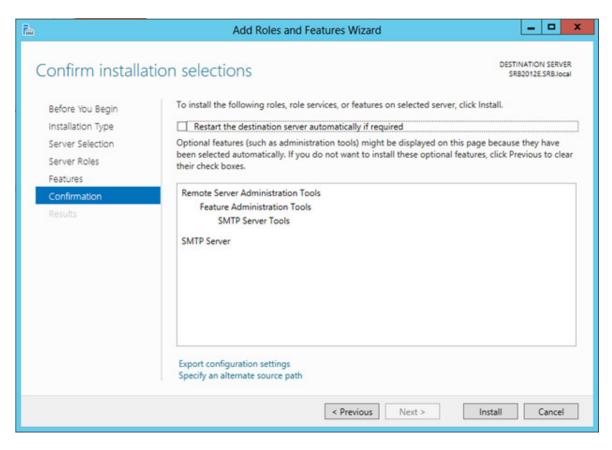
Scroll down the list and tick the SMTP Server feature.



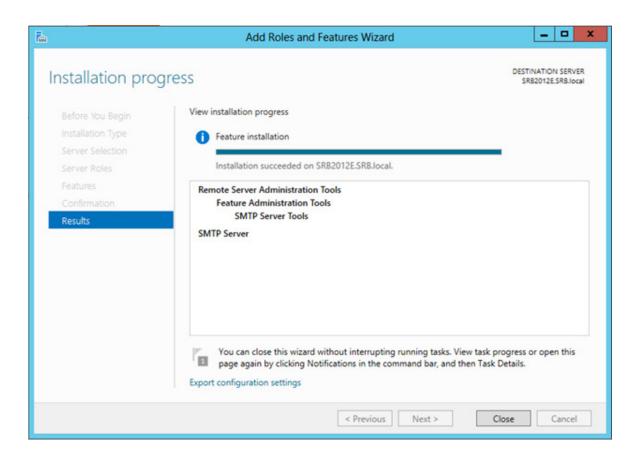
A new window will pop up to inform you that some other services will also be installed. Click Add Features to confirm and continue. Click Next to continue past the features selection screen.



Click Install to complete the Installation.



Click Close when the installation has completed.

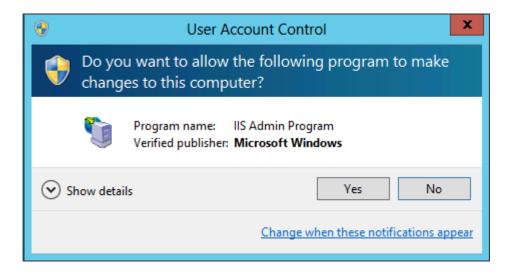


## **Configure the SMTP Service**

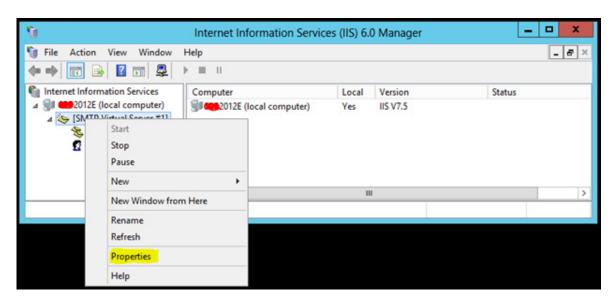
From the Search charm, type IIS. Hover your mouse over one of the selections, and run the Internet Information Services (IIS) 6.0 Manager.



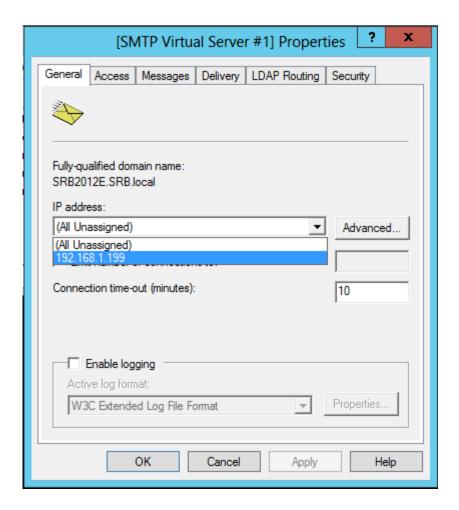
Click Yes to the UAC Prompt.



Expand to SMTP Virtual Server #1, right click and select Properties.



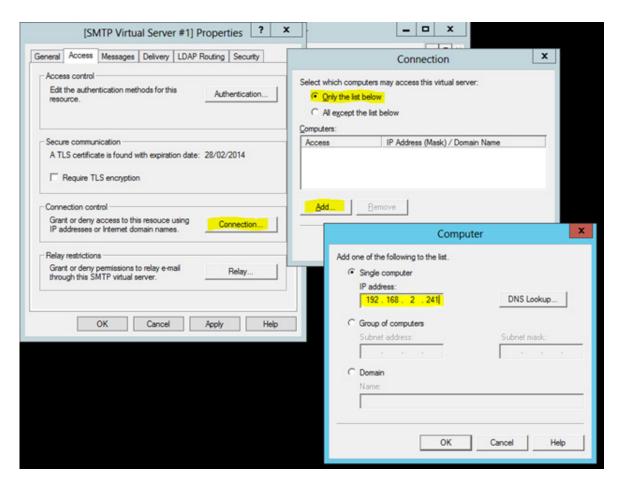
General Tab: Set the IP Address to the server's IP address.



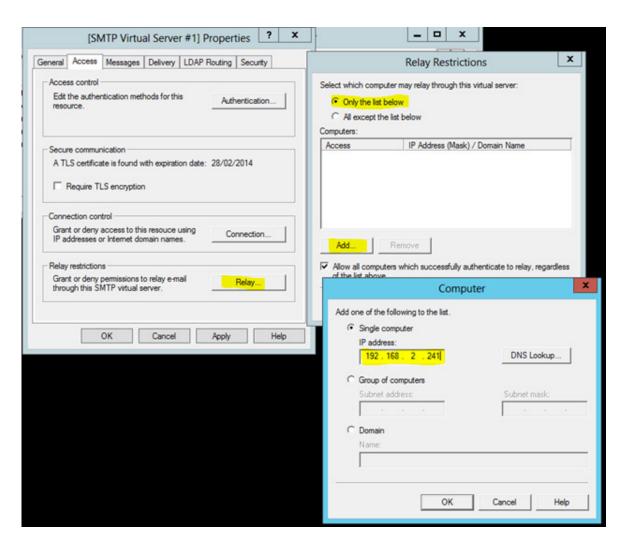
Note: You can also enable logging is required.

Access Tab: Set the IP for the internal devices in the connection button.

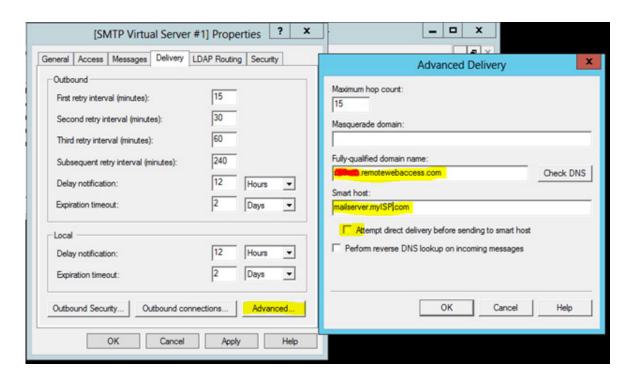
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Add the same IP to the Relay list.



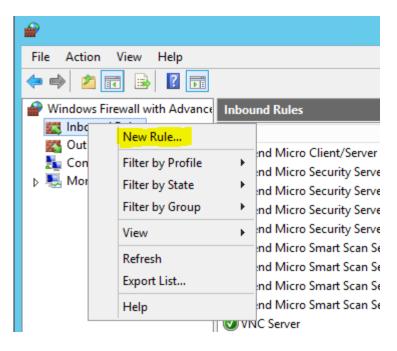
Delivery Tab: Set an external domain – you can use the free customised domain from Microsoft, and you can also optionally add a Smart host, if required. Tick the Attempt direct delivery box, if you want the server to attempt to deliver the email directly first before trying the Smart host.



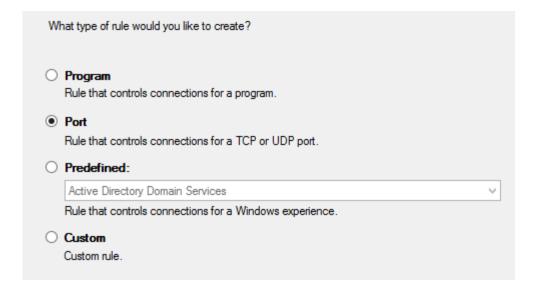
From the Search charm, type Firewall to locate and run the Windows Firewall with Advanced Security console.



Add a new Inbound Rule. (Right Click on Inbound Rule, and select New Rule)

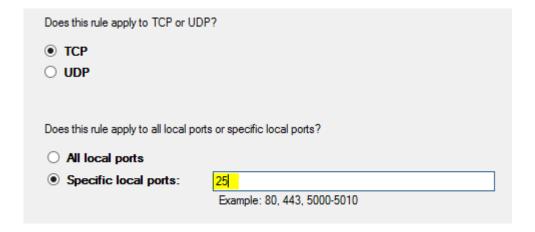


#### Select Port.

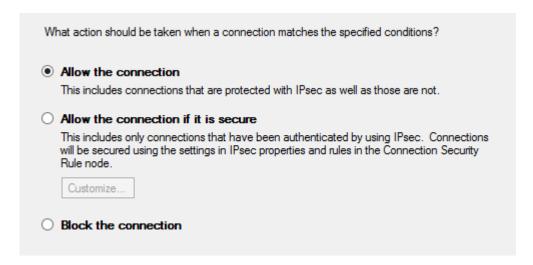


Type in 25 as the local port.

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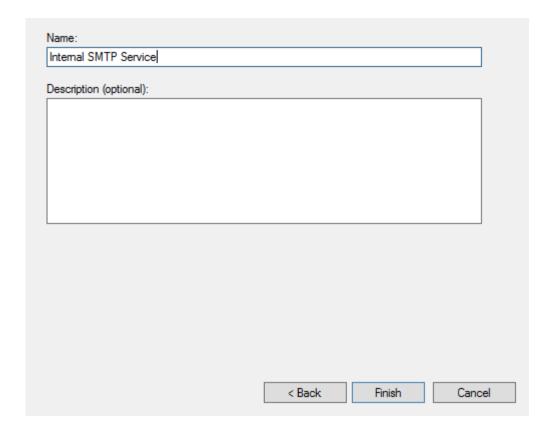
#### Click Next (Allow the Connection).



#### Uncheck Public. (Prevents external access to the server)



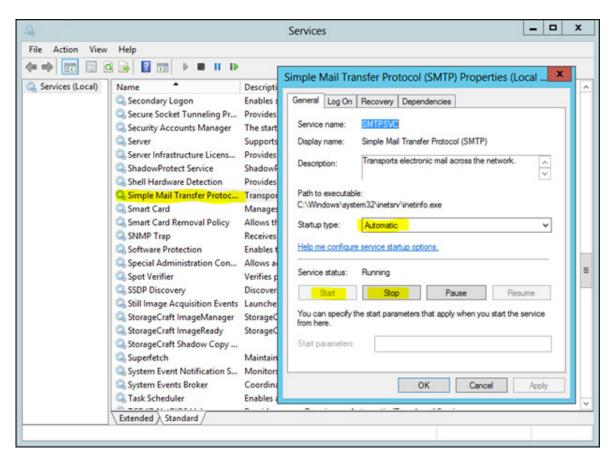
Give the rule a name, and click Finish to create the rule.



You should now see a new rule enabled in the firewall management console.



Restart the SMTP Service and set the service for Automatic Start. Open up the Services Management Console. Double Click on the Simple Mail Transfer Protocol service. Stop and then Start the service. Set the Startup type to Automatic.

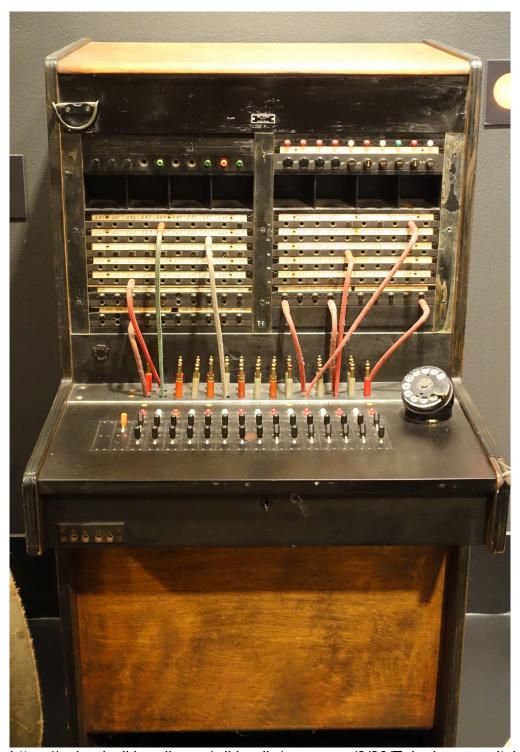


Now put the IP address of the SMTP relay in the Email Migration configuration under Microsoft.

# **CSV Files**

A note on CSV files.

The Migration ToolKit is just that a bunch of tools that let you connect two similar but different email systems together. Something like the old manual telephone switchboards of the early days of telephony.



https://upload.wikimedia.org/wikipedia/commons/8/89/Telephone\_switchboard,\_c.\_1949 ,\_Western\_Electric\_-\_Museum\_of\_Science\_and\_Industry\_(Chicago)\_-\_DSC06823.JPG

The CSV file contains the data points you need to connect one system to the other. In other words lets you run the patch cords from the old system to the new.

Once the connections are set the data will flow. It is just that getting the connections placed first are the most challenging parts.

# **CSV** data headers

GW/eDir Distinguished Name
GW/eDir Organization
GW/eDir Organizational Units
GW/eDir Common Name
GW/eDir Domain
GW/eDir Post Office
GW/eDir First Name
GW/eDir Last Name
GW/eDir Display Name
AD/EX Universal Unique Identifier
GW/eDir Phone Numbers
GW/eDir Email
GW/eDir Department
AD/EX Destination Email
AD/EX User Principal Name Logon
AD/EX User Logon Name (pre- Windows 2000)
GW/eDir GroupWise User ID
AD/EX Delegate Rule ID
AD/EX Destination Context
AD/EX Destination Distinguished Name
AD/EX Mailbox Database, specify if not default
GW/eDir Nicknames
O365 License
O365 Disabled Plans
O365 Usage Location, two
character country code
AD/EX/O365 Password
AD/EX Destination Global Unique Identifier, created by AD
AD/EXLanguage

faxNumber	GW/eDir FAX Number
ngwExternalNetId	GW/eDir External Entity
type	GW/eDir Type, User or Resource
resourceOwner	GW/eDir Resource Owner

Having a good CSV editor is important. LibreOffice is good as it will edit CSV files directly.

We have had many cases where companies change domains or email address policies that they will do at the same time as they migrate email systems. This makes things more complex but is completely doable.

For example, you might have user zk@gwava.com in GroupWise who has been here since the beginning, but as part of the migration you need to enforce an email addressing policy to match current standards: Zefram.Komtrain@microfocus.com.

**ProTip:** Altering a few destination emails manually in the CSV file is not a big deal but if all of the users need changing then you need to do something else. You can copy the first name and last name fields to a new spreadsheet. Create a domain column and enter the new domain as fill down. Create a formula in the next column where you combine them.

For example, if column A contains First Name, column B contains Last Name and column C contains the domain name, you can use the spreadsheet function Concatenate to combine them into a single field.

```
=CONCATENATE (A1; "."; B1; "@"; C1).
```

Once the destination email is how you want it, copy the column and paste the values and not the formula.

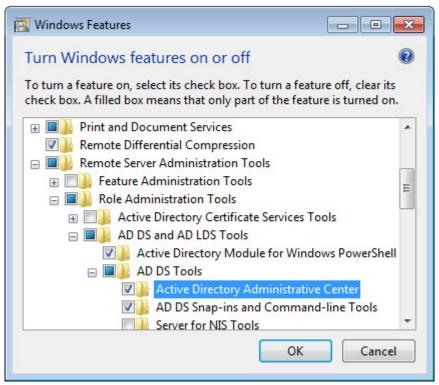
# **Preparing the Migration Workstation**

The Migration Toolkit needs to connect to the GroupWise system and the Exchange/O365 system. You can set up one or more workstations to run the migration on.

Before beginning any migration you must prepare the migration workstation.

# **Prerequisite Software**

Windows 7 SP1 or Windows 10 64-bit workstation make sure you have installed the following prerequisite software and must be installed to the C: drive:
☐ GroupWise client (Client version must match server version)
☐ A program to edit .CSV files (such as OpenOffice or LibreOffice as Excel does
not save to CSV easily)
□ <u>Java 8</u> (64-bit required for 64-bit migration, 32-bit for the 32-bit version of the
tool)
☐ <u>Java Runtime Environment 1.8</u> or higher
☐ <u>Microsoft .NET 4.6.1</u> or higher
□ Windows Management Framework 3.0 or higher
If creating users in On-Premise Active Directory/Exchange, install:
□ Remote Server Administration Tool
The Windows Features required on the workstation are enabled through the
Control Panel. Without the Windows features enabled, the Toolkit will fail to
function.
Control Panel   Programs and Features   Turn Windows Features On or Off
□ Active Directory Module for Windows PowerShell
☐ Active Directory Administrative Center
☐ AD DS Snap-Ins and Command-line Tools



#### If creating users in Office365, install:

- ☐ <u>Microsoft Online Services Sign-In Assistant for IT Professionals</u>
- ☐ Windows Azure AD Module for Windows PowerShell

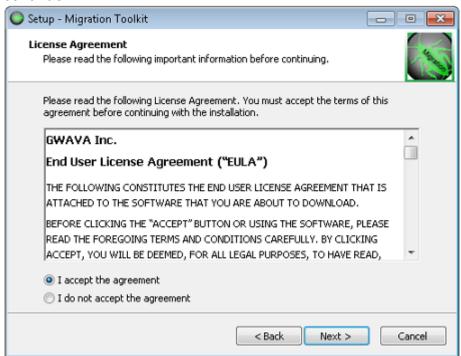
# **Migration Toolkit Installation**

Once the requirements have been installed and configured, the system is ready for installation. The installation of the Migration Toolkit is very simple; run the Migration Toolkit Setup and follow the prompts.

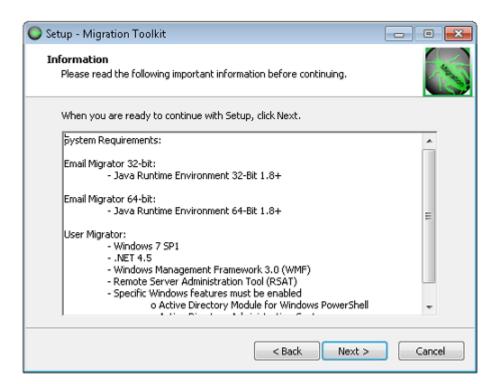
The setup wizard provides clear instructions on what is going to be installed. Select 'Next' to continue.



Read and accept the terms of the License Agreement then select 'Next' to continue.



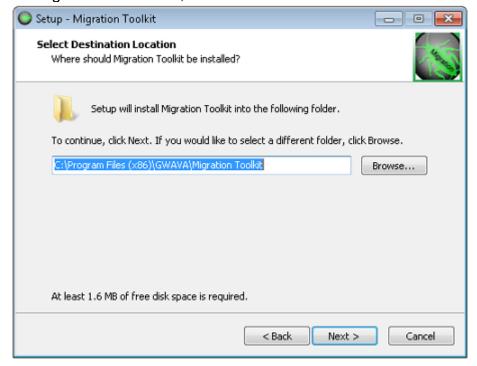
The System Requirements is simply a reminder for purposes of the installation.



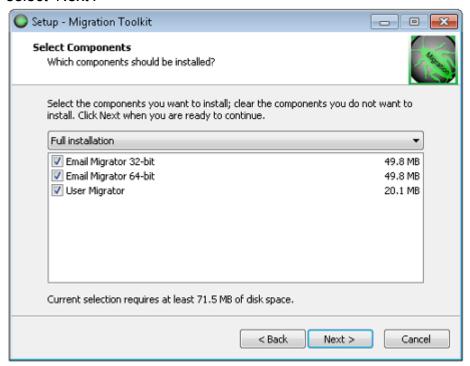
The destination folder is default and all other information gathered is displayed. If any of the data is incorrect, select 'Back' and correct the information.

The program needs to be installed to the C: drive.

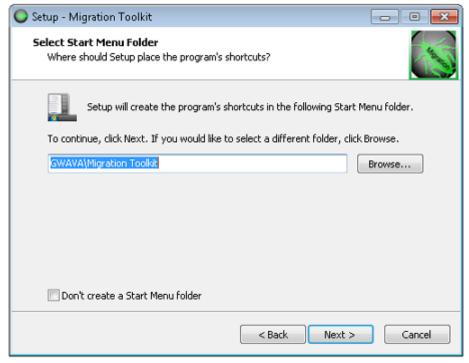
To begin the installation, select 'Next'.



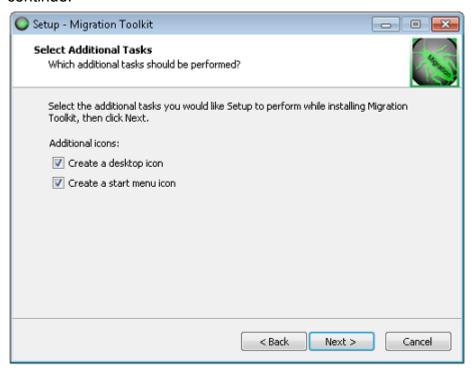
Select the desired components to install. The installation can be performed for a full, custom, or minimal installation. Select the desired components to install and select 'Next'.



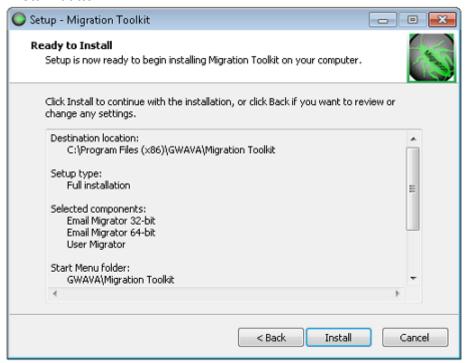
Choose whether to create a start menu folder, and what it should be named. When finished, select 'Next' to continue.



Select whether to include Desktop and Start menu icons, then select 'Next' to continue.



The summary of the installation configuration is displayed. Review and make sure that all information provided is as desired, then initiate the install by selecting the 'Install' button.



Once initiated, the program will be installed.

On completion, the installation utility reports on the installation. Select 'Finish' to exit the installation program.



To start the Toolkit, select either the start menu or the shortcut icons on the desktop. Make sure to select the desired tool for the toolkit.

## **Register License**

The migration tool kit will not function until a valid license is applied. You may contact sales to acquire a license key.

Once you receive the email with the license validation key go to licenses.gwava.com and choose: RETAIN GW to Exchange, Personal Archive to PST and eDirectory to Active Directory Migration Tools

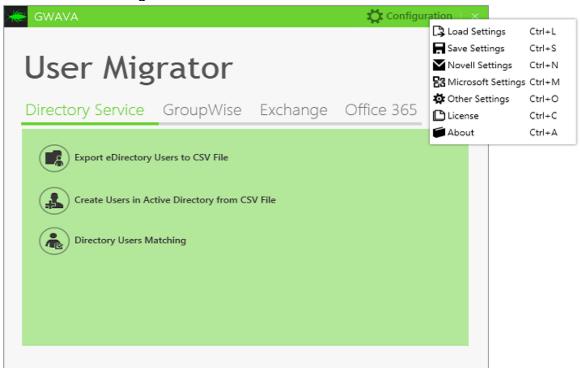
Enter your credentials, the <u>GroupWise Trusted Application Key</u> and Tree Name created in GroupWise System Preparation step 3. Be sure the TAK is exactly the same before hitting next. This will be locked into the license, and will need to be changed by licensing if it is incorrect.

Download the license .PEM file and then import into the User Migrator tool.

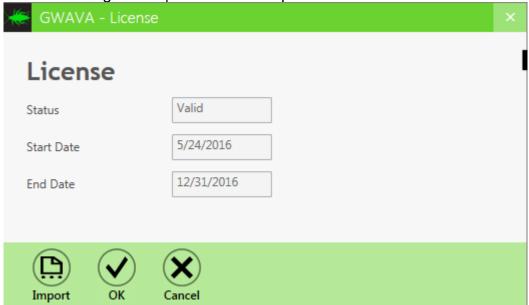
#### **Install License**

The first thing to do is install the license into the User Migrator Tool.

#### Launch the User Migrator Tool



Click on Configuration | License and import the license into the toolkit.



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# **User Migrator**

# **Migration Toolkit Configuration**

# **MTK Configuration**

The Migration Toolkit connects two dissimilar systems to set up a pathway between them to transfer data. Proper configuration is vital for migration success. Before the User Migrator can be used it must be configured so it is able to access both the Novell side and the Microsoft side of the system.

## Configure Edirectory, GroupWise and Microsoft Settings

#### **Prerequisites**

The eDirectory/LDAP, GroupWise, and Exchange/O365 configuration information from the System Preparation step above.

Click on the Configuration settings gear to access the configuration menu.

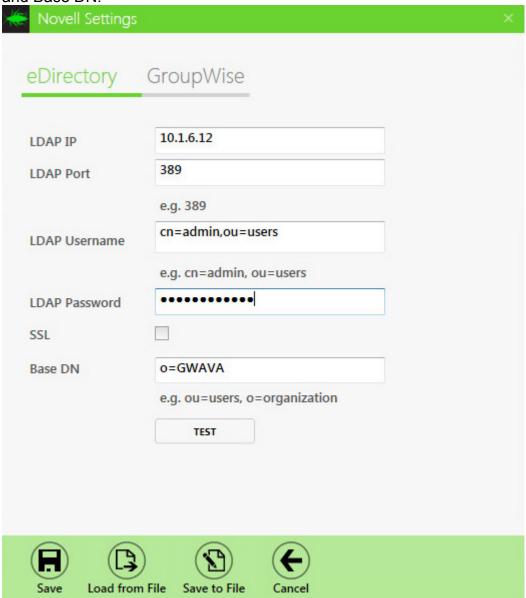


#### **Configure the Novell Settings**

Configuring the Novell setting will allow the MTK to download the User data into the CSV files that MTK will use to migrate the data.

# **Configuration | Novell Settings** eDirectory tab

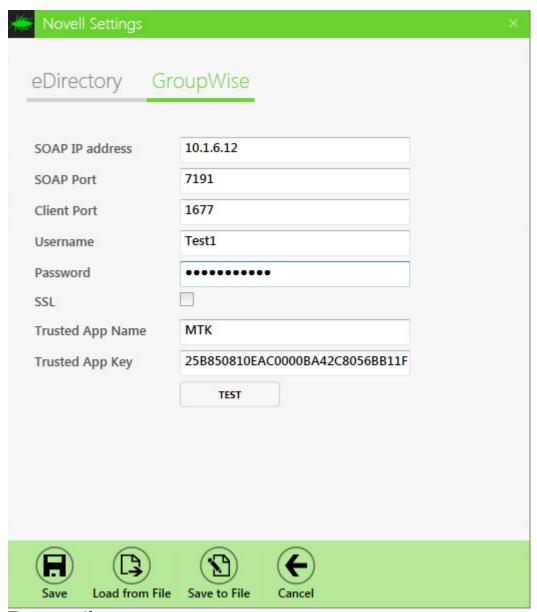
Enter in LDAP IP, Port, User Name (FDN) and password, SSL (if required), and Base DN.



Test to verify. (Base DN is not part of this test, only user and password)

#### GroupWise tab

Enter the SOAP IP, Ports (user and pass not required due to TAPP), SSL if required, Trusted App Key and name. The TAK name and key **must** be the same as used in the license and is case-sensitive.



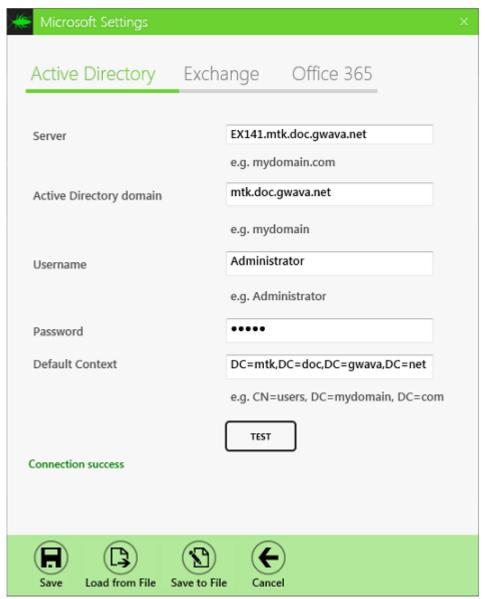
Test to verify.

Once the connection tests successfully, save the configuration to a file. Press Save to save the configuration to this session.

### **Configuration | Microsoft Settings**

Active Directory tab

Enter the Server IP, domain, admin user and password, default context.

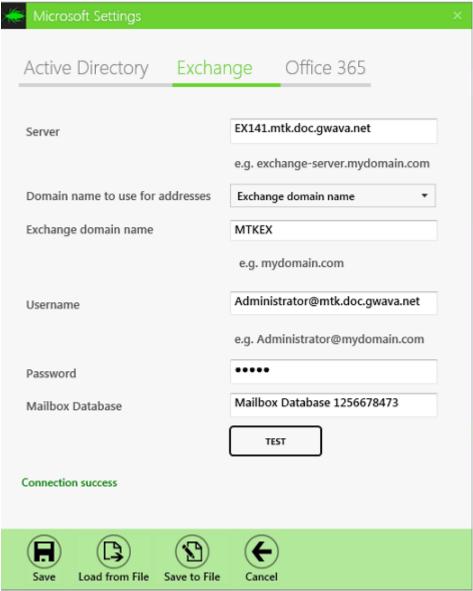


Test the connection.

### Exchange tab

If using On-Premise Exchange, fill out this tab.

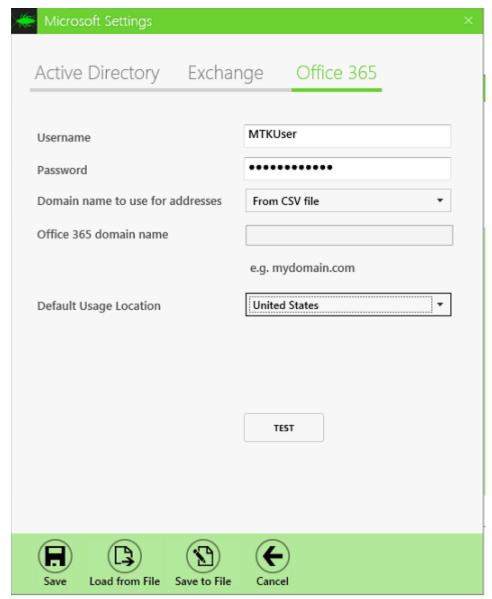
Enter in ServerHostName, Exchange domain (this is the logon domain name), admin user and password, and mailbox db name.



Test.

Office 365 tab
If using Office 365, fill out this tab.

Enter in administrator user and password, domain, and default location.



Test.

Once the connection tests successfully, save the configuration to a file. Press Save to save the configuration to this session.

Click **Configuration | Save Settings**. This will save both Novell and Microsoft Settings.

The next time you run the program you can load the configuration from the file for use during that session.

# **User Migration**

This is the first step to doing everything, even if you just want to migrate email only. The toolkit needs to know where the users are before it can do anything. It does that by downloading user data into the .CSV files.

The Migration of users from eDirectory to Active Directory is limited to users found in eDirectory. External GroupWise users with no entry in eDirectory cannot be migrated.

This is a toolkit, every migration is different because the variables in going from one system to another are too complex to be certain each time. You will have to experiment to find the settings that make the migration do what your organization needs. So if you value your job, do not start by migrating the CEO, start with a few regular users until you get the results that meet your organization's needs, then do the executives.

Before you can do anything else you need to export the user data from eDirectory and GroupWise. Even if you have already created the users in Exchange this data is needed for the MTK to know where to migrate the mail and other items.

## **Directory Service**

If you have eDirectory installed, you must export the eDirectory users, before the GroupWise users.

#### **Export eDirectory Users**

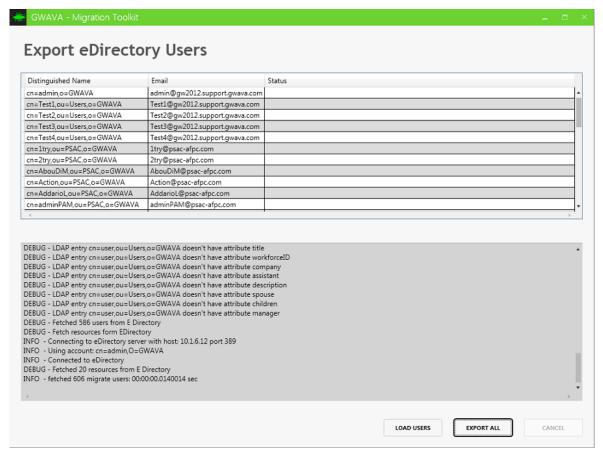
Export eDirectory users, if they do not exist in GroupWise.

There are users in eDirectory that are not in GroupWise and they will need to be exported so they can be created in Active Directory.

#### **Directory Service | Export eDirectory Users to CSV file**

Click on the *Export eDirectory Users to CSV File* icon to open the tool.

Press the Load Users button to have this tool download the eDirectory User list.



Press the Export All button to save the data to a CSV file. Give it a name that included eDirectory, eDir, or some other way to know that this is the eDirectory data.

Verify that all users that are to be migrated are in this file. You may need to add users from GroupWise using the *Export GroupWise Users to CSV File* tool under the GroupWise tab.



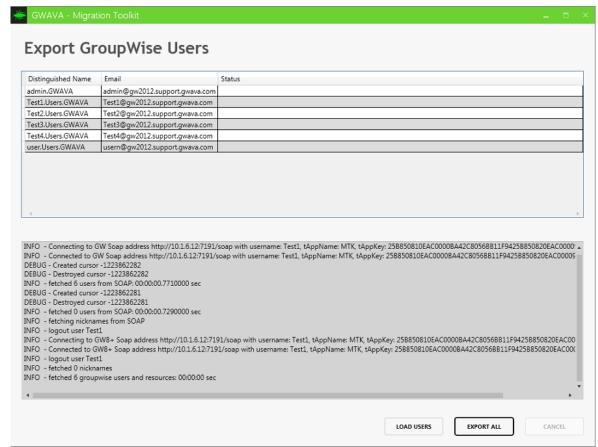
### **GroupWise**

If you have users in GroupWise that do not exist in eDirectory or are using GroupWise 2014 or later, which does not require eDirectory, you will need to export these users.



#### GroupWise | Export GroupWise users to CSV File

Click on the *Export GroupWise users to CSV File* icon to open the tool. Press the Load Users button to have this tool download the GroupWise User list.



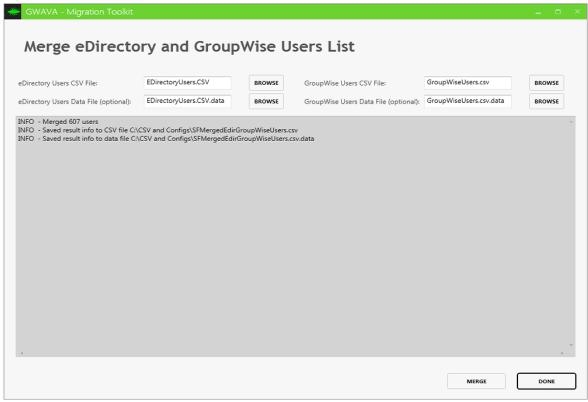
Press the Export All button to save the data to a CSV file. Give it a name that included GroupWise, GW, or some other way to know that this is the GroupWise data and save it in the same location as the eDirectory step above. Verify that all users that are to be migrated are in this file. You may need to add users from GroupWise using the *Export GroupWise Users to CSV File* tool under the GroupWise tab.

#### Merge eDirectory and GroupWise Users

If you have both eDirectory and GroupWise users they will need to be merged into a single CSV file. These will be all the users that will be created in Active Directory and Exchange

#### **GroupWise | Merge eDirectory and GroupWise Users**

Click on the *Merge eDirectory and GroupWise Users* icon to open the tool.



Browse to the CSV files for eDirectory and GroupWise.

Click on Merge to merge the two files together. Save the resulting file with a name that includes "merged" so you know this step is complete.

Verify that all of the users are in this file that needs to be migrated.

# **Migrating Users**

Now that the toolkit knows what users exist in eDirectory and GroupWise, the users can be created in Active Directory and Exchange, or Azure and Office365.

### Prerequisites:

Novell Configuration Settings
Microsoft Configuration Settings
Exported eDirectory, or Merged eDirectory and GroupWise user CSV file

### **Create Users in Active Directory**

Make a working copy of the CSV file.

Verify that the eDirectory and GroupWise users.csv file contains the correct e-mail addresses, and GUIDs that will be migrated.

The following columns must be filled in:

on	Mandatory, User's
cn	Common Name in

	eDirectory or GroupWise
firstName	Mandatory, User's First Name
lastName	Mandatory, User's Last Name
displayName	Mandatory, User's Display Name
destinationEmail	Recommended, Destination email, set as UserPrincipleName in AD
type	Mandatory, This should be type User, not resource*

<sup>\*</sup>Resources will be migrated in a later step, so remove them from this working copy of the CSV file.

#### **Directory Service | Create Users in Active Directory from CSV File**

EXPORT DATA

Click on the Create Users in Active Directory from CSV File icon to open the tool. GWAVA - Migration Toolkit Create Users in Active Directory SELECT ALL SELECT NONE BROWSE CSV FILE MergedEdirGroupWiseUsers.csv BROWSE CSV.DATA FILE MergedEdirGroupWiseUsers.csv.data Logon name Status Message NotStarted cn=Users,dc=finalfrontier,dc=com admin User 1 cn=Users,dc=finalfrontier,dc=com Test1 NotStarted cn=Users,dc=finalfrontier,dc=com NotStarted cn=Users,dc=finalfrontier,dc=com Test3 NotStarted User 4 cn=Users,dc=finalfrontier,dc=com Test4 NotStarted 1try cn=Users,dc=finalfrontier,dc=com 1try NotStarted cn=Users.dc=finalfrontier.dc=com 2try NotStarted Mariam Abou-Dib cn=Users,dc=finalfrontier,dc=com AbouDiN NotStarted cn=Users,dc=finalfrontier,dc=com Action NotStarted cn=Users,dc=finalfrontier,dc=com Selected: 1 Total: 607

Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file (The csv.data file will be filled in automatically.)

Select one, some, or all users. If this is your first attempt at creating users, it is recommended to choose a single user to migrate to test if the results are what you anticipate. You can select a single user by clicking on the user's name. Press Start to begin the creation process.

#### **Directory Services | Directory Users Matching**

If you have a partially migrated system, use the Directory Users Matching toll first to match the names that are already created in Active Directory.

Click on the *Directory Users Matching* icon to open the tool.



Browse to the exported eDirectory CSV file, or merged GW eDirectory and users CSV file.

Press *Start Merging* to merge previously migrated users into the CSV file. Press *Done* when complete.

The next step is depends on whether you are using On-Premise Exchange or Office 365.

If you are using On-Premise Exchange, you need to mail enable the users you migrated into Active Directory.

If you are using Office365, you need to create the users and license them.

## On-Premise Exchange

To complete the user migration process you will need mail enable the AD users so they have Exchange mailboxes, create distribution lists and migrate proxy rights for users that have rights to enter other users mailboxes.



#### **Prerequisites:**

Microsoft .NET 4.6.1 or higher
Windows Management Framework 3.0 or higher
Remote Server Administration Tool (RSAT)
Novell Configuration Settings
Microsoft Configuration Settings
Exported eDirectory, or Merged eDirectory and GroupWise user CSV file

#### **Mail Enable Active Directory Users**

Make a working copy of the CSV file.

Verify that the eDirectory and GroupWise users.csv file contains the correct e-mail addresses, and GUIDs that will be migrated.

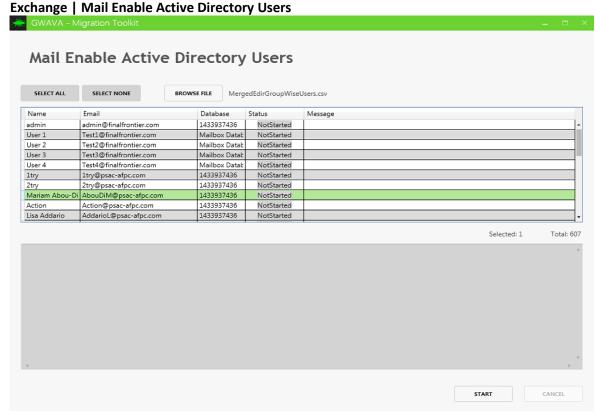
The following columns must be filled in:

icn .	Mandatory, User's Common Name in eDirectory or GroupWise
destinationEmail	Mandatory, User's Destination Exchange

	email address in, set in ExternalEmailAddress in AD	
destinationDN	Recommended, User's Destination Distinguished Name	
mailboxDB	Recommended, User's mailbox database in Exchange. If not specified, Exchange will place in default location	
nicknames	Optional, Nicknames/aliases/proxies of the user*	
destinationGUID	Recommended, User's Object GUID in AD	
type	Mandatory, This should be type User, not resource**	

<sup>\*</sup> This is the nicknames/aliases/proxy addresses of a user. The nickname values are separated with pipe character (|). For example: username|useralias|userproxy. Only username should be entered in CSV file (without @domain).

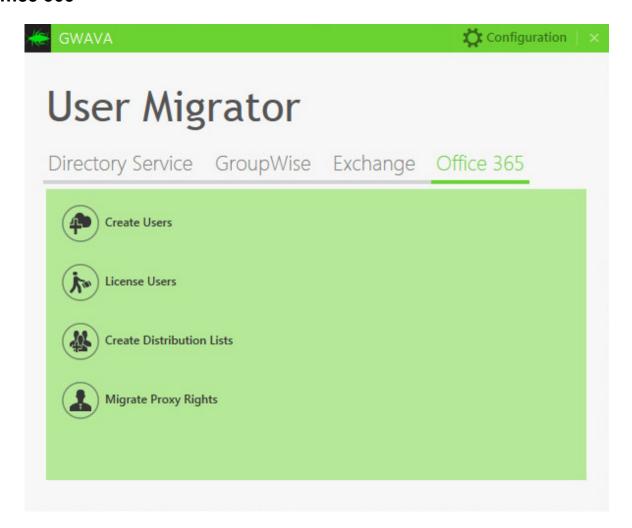
<sup>\*\*</sup> Resources will be migrated in a later step, so remove them from this working copy of the CSV file.



Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file (The csv.data file will be filled in automatically.)

Select one, some, or all users. If this is your first attempt at creating users, it is recommended to choose a single user to migrate to test if the results are what you anticipate. You can select a single user by clicking on the user's name. Press Start to begin the creation process. (If users are already Mail Enabled, the tool may throw a warning).

#### Office 365



#### **Prerequisites:**

Microsoft .NET 4.6.1 or higher
Windows Management Framework 3.0 or higher
Microsoft Online Services Sign-In Assistant for IT Professionals
Windows Azure AD Module for Windows PowerShell
Novell Configuration Settings
Microsoft Configuration Settings
Exported eDirectory, or Merged eDirectory and GroupWise user CSV file

#### **Create Users**

Make a working copy of the CSV file.

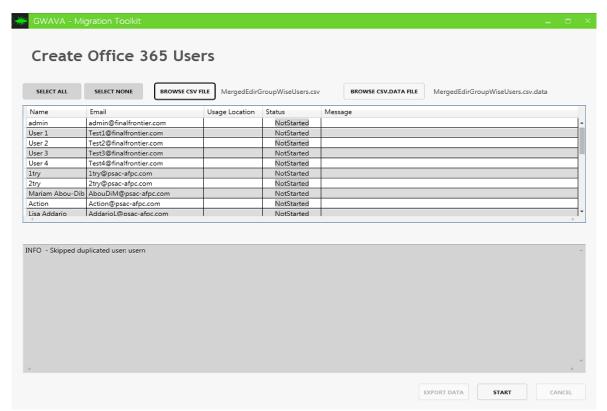
Verify that the eDirectory and GroupWise users.csv file contains the correct e-mail addresses, and GUIDs that will be migrated.

The following columns must be filled in:

cn	Mandatory, User's Common Name in eDirectory or GroupWise
displayName	Mandatory, User's
	Display Name
destinationEmail	Recommended, User's Destination email in O365
usageLocation	Mandatory, Two character country code (e.g. US, FR)
type	Mandatory, This should be type User, not resource*

<sup>\*</sup>Resources will be migrated in a later step, so remove them from this working copy of the CSV file.

### Office 365 | Create Users



Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file (The csv.data file will be filled in automatically.)

Select one, some, or all users. If this is your first attempt at creating users, it is recommended to choose a single user to migrate to test if the results are what you anticipate. You can select a single user by clicking on the user's name. Press Start to begin the creation process.

#### Office365 | License Users

You will need to enter the license for each user in the CSV file under the office 365License column.

Make a working copy of the CSV file.

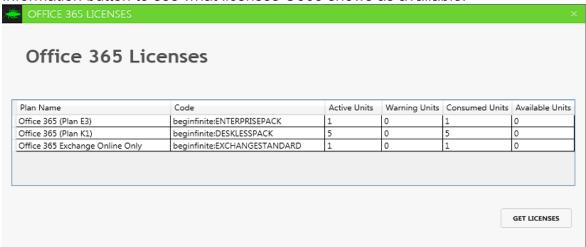
Verify that the eDirectory and GroupWise users.csv file contains the correct e-mail addresses, and GUIDs that will be migrated.

The following columns must be filled in:

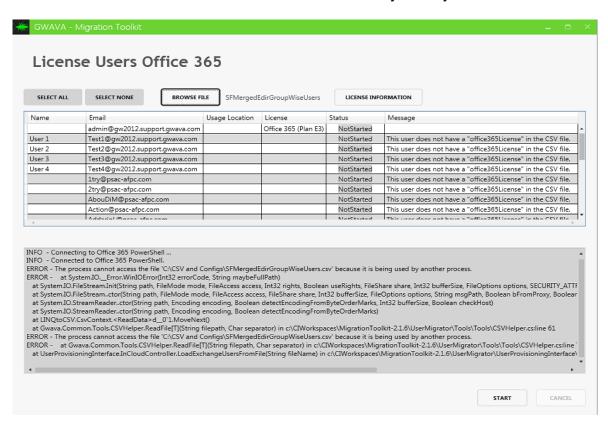
Mandatory, User's	
Common Name in	
eDirectory or	
GroupWise	
Mandatory, User's	
plan/license in O365	
Mandatory, This	
should be type User,	
not resource*	

\*Resources will be migrated in a later step, so remove them from this working copy of the CSV file.

If you are unsure of what licenses are available to your users, press the License Information button to see what licenses O365 shows as available.



Once the license is entered for each user in the CSV you may continue.



Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file (The csv.data file will be filled in automatically.)

Select one, some, or all users. If this is your first attempt at creating users, it is recommended to choose a single user to migrate to test if the results are what you anticipate. You can select a single user by clicking on the user's name. Press Start to begin the creation process.

# **User Matching**

Once users have been migrated to the new system they need to be matched between the directories. Matching users between systems adds the Active Directory and Exchange/O365 data to the user CSV file. This is needed to migrate distribution lists, forwarding rules, and resources. These tools need the details of the source and destination so they can function properly.

#### **Prerequisites:**

- Novell Configuration Settings
- Microsoft Configuration Settings
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users in Active Directory/Azure and Mail Enabled

#### **Directory Users Matching**

**Directory Service | Directory Users Matching** 



Click on *Directory Users Matching* to open the tool.



Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file. Press *Start Merging* to begin the process.

Save the resulting file and press Done.

# **Migrate Distribution Lists**

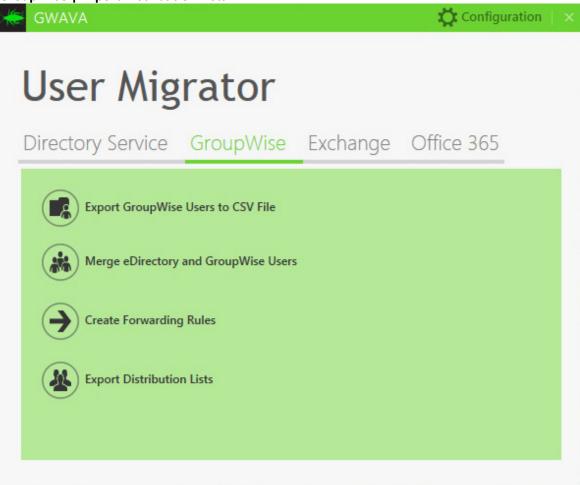
The Toolkit can migrate distribution lists from GroupWise to Exchange/O365. You will need to match the users between directories and export the existing distribution lists before migrating the distribution lists to the new system.

### Prerequisites:

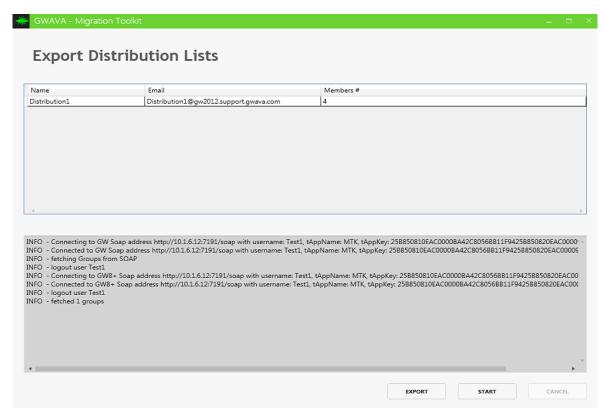
- Novell Configuration Settings
- Microsoft Configuration Settings
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users in Active Directory/Azure and Mail Enabled
- Owner(s) of Distribution Lists Migrated to Active Directory/Azure and Mail Enabled
- Exported Match Users CSV file

### **Export GroupWise Distribution Lists**

**GroupWise | Export Distribution Lists** 



Click on Export Distribution Lists to open the tool.



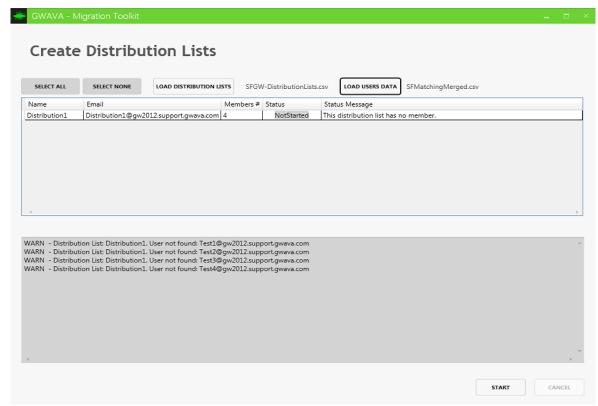
Press Start and the tool will find the existing distribution lists in GroupWise. Choose one, some, or all of the distribution lists and press Export to save them to a file.

#### **Create Distribution Lists**

Go to the Exchange or Office365 tab, depending on your system.

### Exchange/Office 365 | Create Distribution Lists

Click on the *Create Distribution Lists* icon to open the tool.



Click on the *Load Distribution Lists* button and browse to the distribution list CSV file.

The *Load Users Data* button will now be enabled. Press it and browse to the Directory Users Matching CSV file.

Click Start to migrate the Distribution Lists/Groups.

# **Migrate Proxy Rights**

This tool allows you to migrate proxy rights in GroupWise to delegate rights in Exchange/O365 so users that have the ability to open another user's mailbox.

### **Prerequisites:**

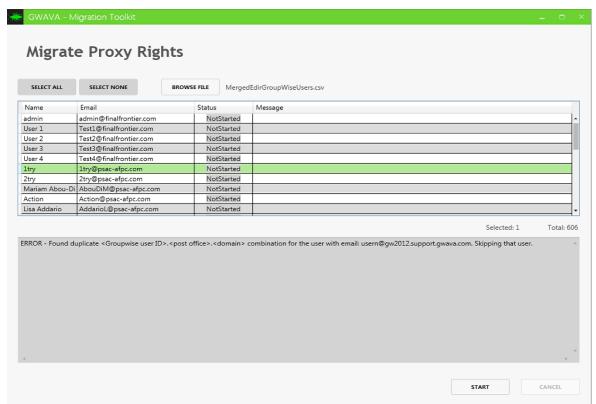
- Novell Configuration Settings
- Microsoft Configuration Settings
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users in Active Directory/Azure and Mail Enabled

### **Migrating Proxy Rights**

The process is the same for Exchange and O365.



Click on Migrate Proxy Rights to open the tool.



Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file. Select one, some, or all users. If this is your first attempt at creating users, it is recommended to choose a single user to migrate to test if the results are what you anticipate. You can select a single user by clicking on the user's name.

Press Start to begin the creation process.

Exchange/Office 365 Migrate Proxy Rights Import eDirectory and GroupWise users.csv Click Start

# **Create Forwarding Rules**

This tool allows you to create forwarding rules in GroupWise that will automatically forward new mail to the new email system.

### **Prerequisites:**

- Novell Configuration Settings
- Microsoft Configuration Settings
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users in Active Directory/Azure and Mail Enabled
- Exported Match Users CSV file

### Create the Forwarding Rules

**GroupWise | Create Forwarding Rules** 



Click on Create Forwarding Rules to open the tool. GWAVA - Migration Toolkit **Forwarding Rules** EDirectoryUsers.CSV S Delegate Rule Email cn=elder thing,ou=users,ou=mythos,ou=groupwise,o=gwava elder thing@mythos.com cn=werewolf,ou=users,ou=mythos,ou=groupwise,o=gwava werewolf@mythos.com cn=vampire,ou=users,ou=mythos,ou=groupwise,o=gwava cn=moon,ou=users,ou=mythos,ou=groupwise,o=gwava moon@mythos.com LOAD STATUS CREATE RULES REMOVE RULES EXPORT

Browse to the eDirectory, or Merged eDirectory and GroupWise user CSV file. Press *Load Status* to begin the process.

Check the existing rules that they are what you expect.

Select one, some, or all rules. If this is your first attempt at migrating rules, it is recommended to choose a single rule to migrate to test if the results are what you anticipate. You can select a single rules by clicking on the rule's name.

Press Create Rules to have the tool create the rules in Exchange/O365.

# **Migrate Resources**

Resources are things like conference rooms, projectors, or other item or place that can be scheduled for use. In GroupWise resources have owners that control access, where in Exchange resources have delegates.

### **Prerequisites:**

- Novell Configuration Settings
- Microsoft Configuration Settings
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users in Active Directory/Azure and Mail Enabled
- Exported Match Users CSV file

## **Migrate Resources**

Once the Match Users CSV file has been created, you will want to copy and paste the header, owner, and resource rows to their own CSV file to make this much simpler.

Make a working copy of the CSV file.

Verify that the eDirectory and GroupWise users.csv file contains the correct e-mail addresses, and GUIDs of the resource owners and resources that will be migrated.

The following columns must be filled in:

cn	Mandatory, Resource or Owner's Common Name in eDirectory or GroupWise		
destinationGUID	Mandatory, Owner's GUID		
resourceOwner	Mandatory, DestinationGUID from Owner		
type	Mandatory, This should be type Resource		

You will need to copy the destinationGUID (column AA) of the owner to the resourceOwner (column AF) for the resource.

Now you may use the Exchange | Mail Enable Active Directory Users tool to migrate the resources and connect them to their owners.

# **EMail Migrator**

# **EMail Migrator Configuration**

Before you can use the EMail Migrator you need to configure the tool and your system. The Email Migrator uses EWS to migrate email items and SMTP to migrate Calendar and Task items, you should have those configured in the System Preparation step.

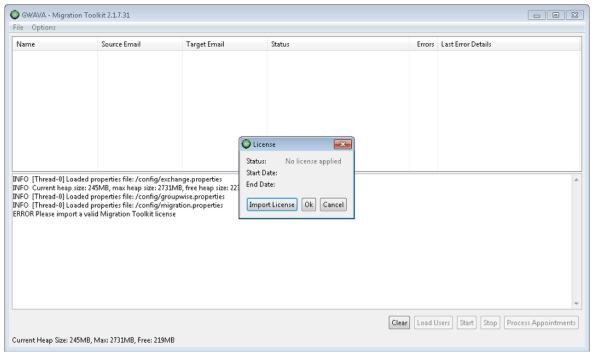
## **Prerequisites**

- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file
- Users and Owners migrated to Active Directory and Exchange/O365
- Users Mail Enabled and Licensed
- Basic Authentication enabled on all CAS servers
- Impersonation Account created
- Throttling Policy set
- IIS limits set
- SMTP relay setup and configured

Note: You will need to set up an SMTP relay to do migration in order to avoid SMTP host errors.

## **License EMail Migrator**

The EMail Migrator will not function until a License is imported. When you open the EMail Migrator for the first time it will pop-up a license dialog box. Otherwise, you can enter the license under File | License

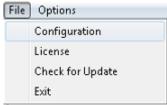


Press Import License and browse to the license PEM file.



A valid license will show Status: Ok with start and end dates filled in.

## File Menu



From the File menu you can access Configuration settings, License settings, Check for Updates, and Exit the Program.

# **Configure E-mail Migration**

The Email Migrator needs to be configured so it knows the source and destination for the items.

### **General settings**

Source Server	GroupWise ▼ Settings	
Farget Server	Exchange ▼ Settings	
f of Concurrent Migration:	2	
Duplicates	No Action ▼	
Default Sender	mtk@finalfrontier.com	
Auto Email Address Translatio	n 🔳	
ime Zone	-07:00 Mountain Time (US & Canada)  ▼	
Jser List	C:\CSV and Configs\MergedEdirGroupWiseUsers.csv	

Set "Source Server" to GroupWise

Set "Target Server" to Exchange or Office365

Set "# of Concurrent Migrations" to 5 (Max). To run more then five migrations in parallel, it is recommended to setup additional migration workstations.

Set Duplicates to No Action, Replace slows the migration down, and Skip currently doesn't work.

Leave "Default Sender" blank. To change where all messages are sent from, supply an email address.

Auto Email Address Translation: Change address to current address in Exchange.

Time Zone: Changes time zone (not currently functional)

User List: Import eDirectory and GroupWise user.csv

Save to File to save for the next session.

Press Save to close the window for this session.

### **GroupWise Settings**

Select the Source Server (GroupWise) and click on Settings.

GroupWise Server	Settings
SOAP Host	μ̂0.1.6.12
SOAP Port	7191
SZL	
Trusted App Name	MTK
Trusted App Key	25B850810EAC0000BA42C8056BB11F9425B850820EAC00009BC0B61915C5DC5
	Test Save Save to File Load from File Cancel

Enter the data:

SOAP Host IP Address or Hostname

SOAP Port (7191 is the default)

Enable SSL, if needed

Trusted Application Name (Case Sensitive)

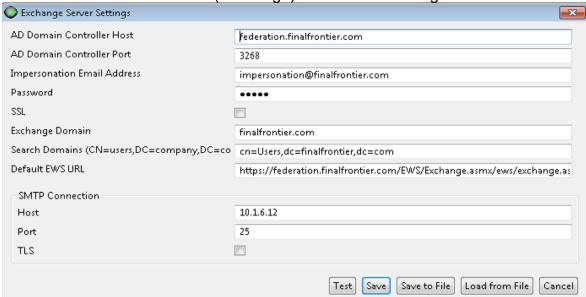
Trusted Application Key (Case Sensitive)

Click Test, to test the connection.

Save the setting to a file with the Save to File button and save the settings.

### **Exchange Settings**

Select the Destination Server (Exchange) and click on Settings.



### Enter the data:

AD Domain Controller Hostname or IP Address

AD Domain Controller Port (3268 is the default)

Impersonation User Email Address

Impersonation User Password

Enable SSL, if needed

Exchange Domain (Usually the email domain)

Search Domain (In LDAP format. e.g. CN=Users,DC=company,DC=com)

Default EWS URL

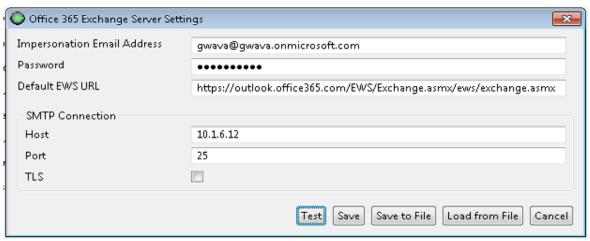
SMTP Host IP Address or hostname

SMTP Port (25 is default)

Enable TLS, if needed.

#### O365 Settings

Select the Destination Server (Office365) and click on Settings.

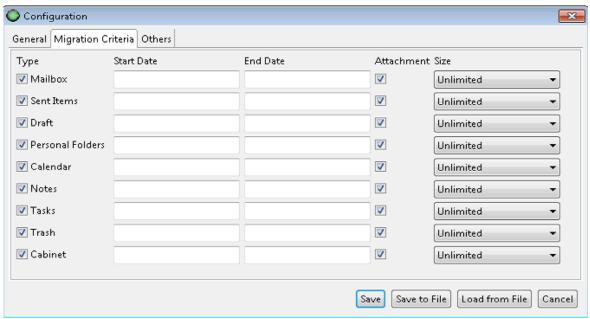


### Enter the data:

Impersonation User Email Address
Impersonation User Password
Default EWS URL as found during System Preparation
SMTP Host IP Address or hostname
SMTP Port (25 is default)
Enable TLS, if needed.

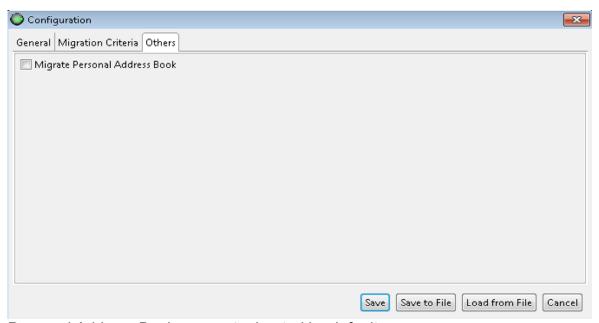
Note: The test only tests for SMTP connection.

## **Migration Criteria Settings**



General limits on the email migration can be set on this panel. Generally, the defaults are sufficient. However, if your email system contains long term data you may want to consider entering a Start Date. Most organizations have a 10 year data retention policy, it makes little sense to migrate 20+ years of data in that case.

### **Other Settings**

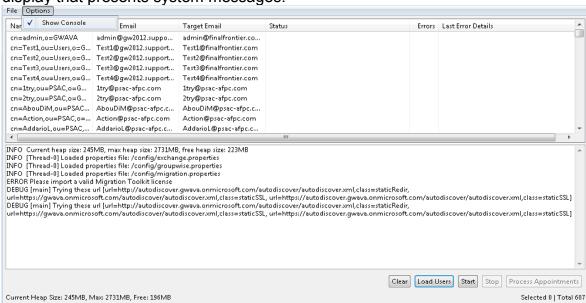


Personal Address Books are not migrated by default.

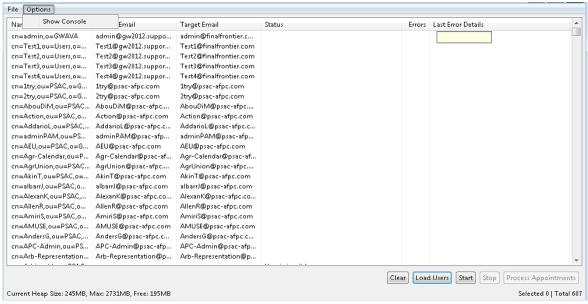
Once the setting are complete, save them to file for the next migration session and press Save to return to the migration tool.

## **Options Menu**

The Options menu allows you to show or hide the console, the lower part of the display that presents system messages.



### Console hidden



# **EMail Migration**

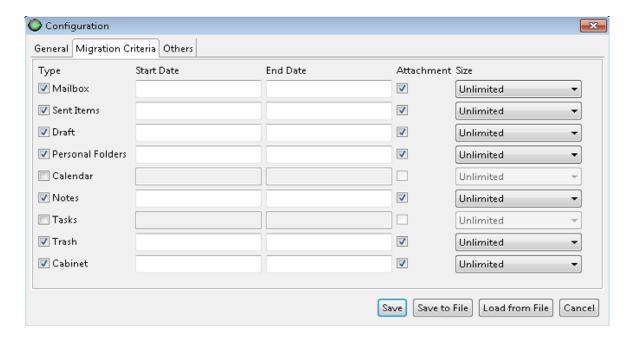
To migrate email, the EMail Migrator uses EWS to transfer the data. For best performance, the user CSV file created during User Migration should be split into 200 user segments. This allows you to also run the migration on multiple workstations.

## **Prerequisites**

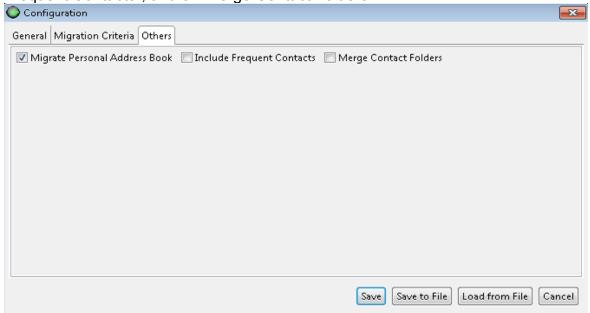
- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file, split into 200 user segments.
- Users migrated to Exchange/O365
- · EWS configured

## **Configure Migration Criteria**

Set Configuration | Migration Criteria to email items



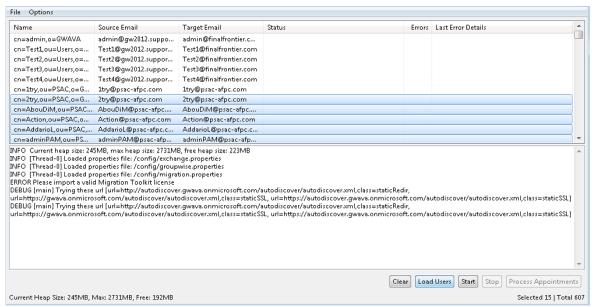
Enable Configuration | Other | "Migrate Personal Address Book", "Include Frequent Contacts", and/or "Merge Contact Folders"



**Press Save** 

# **Email Migration**

Press "Load Users" to load the CSV file.



Select none to migrate all users or click on a user select one user, or use Shift to select continuous multiple users or Control for discontinuous multiple users. Press Start to being the migration process.

# **Calendar and Task Migration**

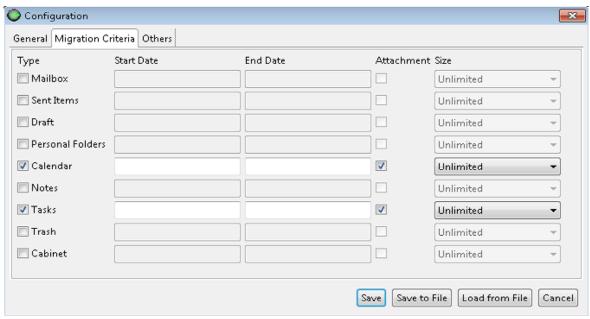
To migrate calendar and task items, the EMail Migrator uses SMTP to transfer the data. For best performance, the user CSV file created during User Migration should be split into 200 user segments. This allows you to also run the migration on multiple workstations.

## **Prerequisites**

- Exported eDirectory, or Merged eDirectory and GroupWise user CSV file, split into 200 user segments.
- Users migrated to Exchange/O365
- · SMTP relay configured

## **Configure Migration Criteria**

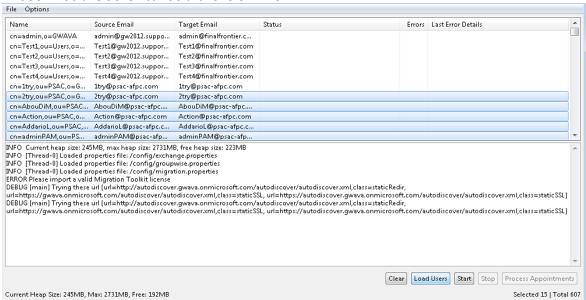
Set Configuration | Migration Criteria to email items



Press Save

## **Calendar and Task Migration**

Press "Load Users" to load the CSV file.



Select none to migrate all users or click on a user select one user, or use Shift to select continuous multiple users or Control for discontinuous multiple users. Press Start to being the migration process.

# **GroupWise to PST Migrator**

# The GroupWise to PST Migrator

The GroupWise to PST Migrator is a tool that will migrate user mailboxes into PST files.

# **System Requirements**

- Windows 7 SP1
- .NET 4.5
- GroupWise client 7, 8, 2012, and 2014
- Outlook 2010, 2013 and 2016 (32-bit)

# **GroupWise To PST Migrator Installation**

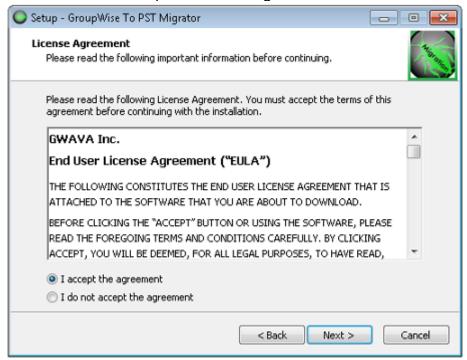
The GroupWise to PST Migrator is a separate tool that requires its own installation.

The installer is found in the MigrationToolkit folder and is call GroupWiseToPSTMigrator.exe

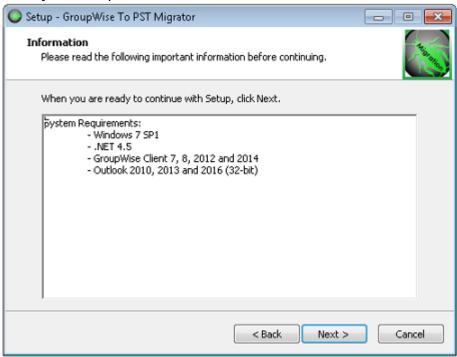
Double click on the executable to begin the installation process. You will be welcomed to the setup wizard.



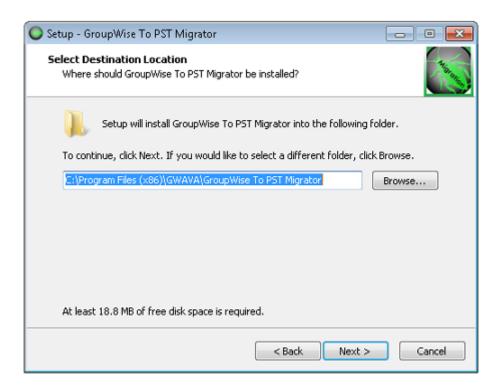
You will need to accept the license agreement to continue.



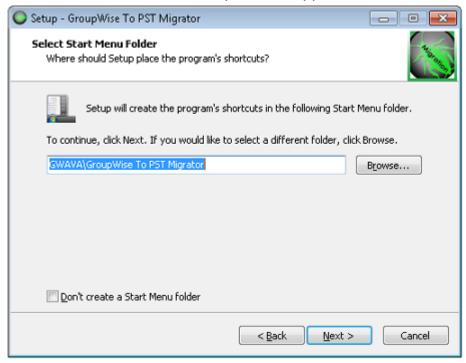
The system requirements will be shown.



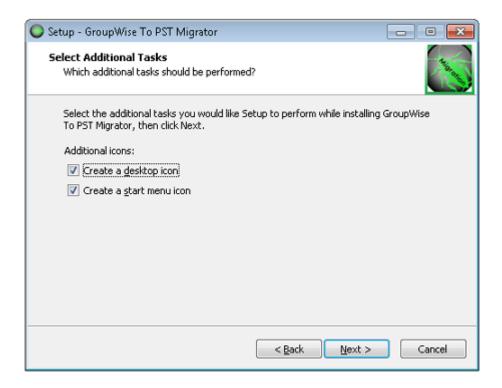
Select the destination location for this installation.



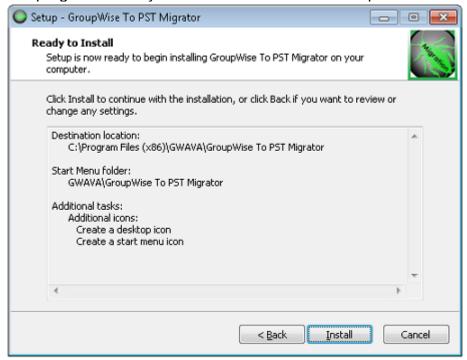
Select the Start menu folder to place the application in.



The installer will create a desktop and start menu icon unless otherwise specified.



The program is ready to install. Press Install to complete the installation process.

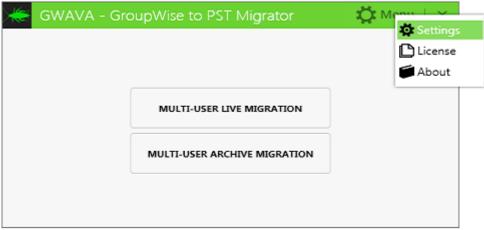


When the installation process is complete, press Finish to exit the installer.



# **GroupWise To PST Configuration**

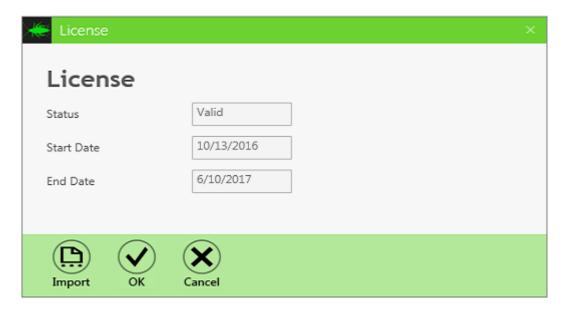
Before any migrations can be done the tool must be configured. Access settings and license through the gear menu



# **Import License**

The first thing that must be done is to import the license. This is a separate license from the main MTK license.

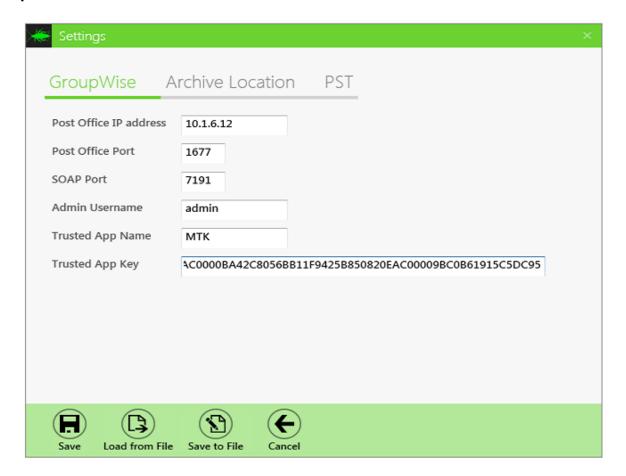
Open gear Menu | License, click on Import and browse to the license PEM file.



# **Configure Settings**

Open gear Menu | Setting page, and fill in the data.

## GroupWise



### Migration Toolkit 2.1.7

Post Office IP address: The IP address of the post office being migrated from

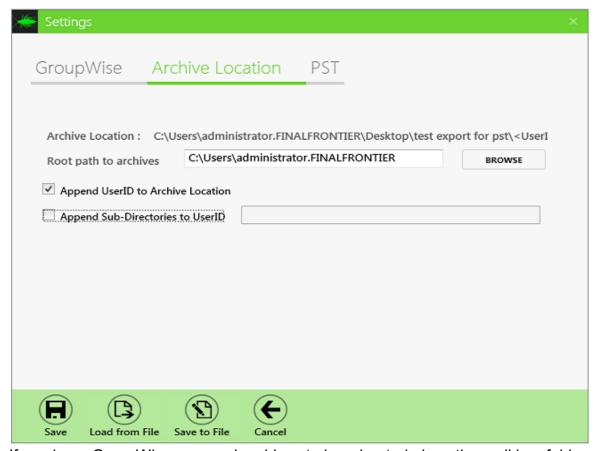
Post Office Port: 1677 by default SOAP Port: 7191 by default

Admin username: The username of an admin user

Trusted App Name: The name of the trusted application key, case sensitive

Trusted Application Key: The key, case sensitive

### **Archive Location**

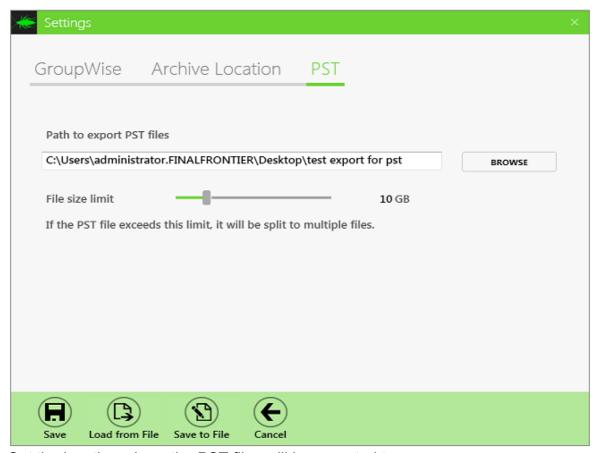


If you have GroupWise personal archives to be migrated place them all in a folder and enter the path to that folder here.

Enable "Append UserID to Archive Location", if desired.

Enable "Append Sub-Directories to UserID" and enter a prefix, if desired

### **PST**



Set the location where the PST files will be exported to.

Set the File size limit. Outlook 2010, 2013, 2016 allow PST files of up to 50GB, Outlook 2007 allows up to 20GB, while Outlook 2002/XP allows up to 2GB. The larger the file the slower Outlook becomes.

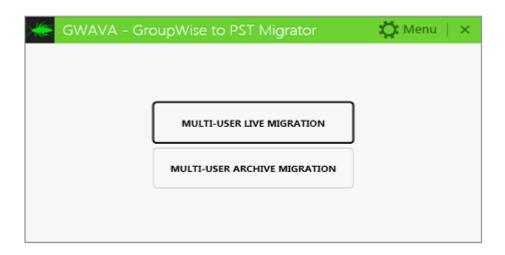
https://www.msoutlook.info/question/852

Save the settings to file. You will be able to Load these setting from file for the next session after you close the program.

Press Save to begin this session.

# **GroupWise To PST Migrator**

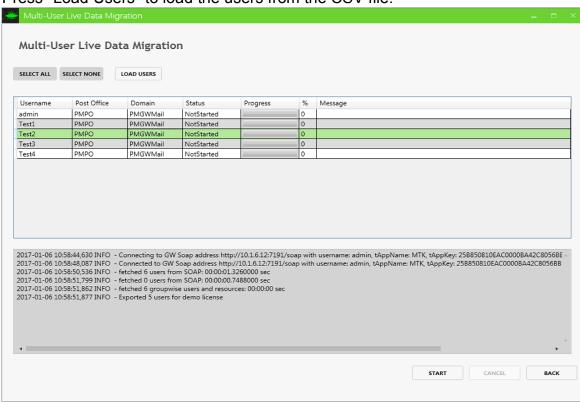
Once the tool have been installed, licensed and configured you may begin migrations.



## **Multi-user Live Migration**

This will connect to the live GroupWise system and migrate each mailbox to PST. Click "Multi-user Live Migration" to begin.

Press "Load Users" to load the users from the CSV file.



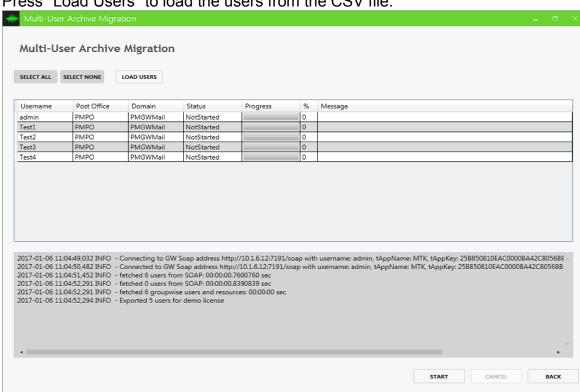
There are buttons to select all or none users. You can also click on one or more users.

Press Start to begin the migration process. Progress will be shown in the console frame.

When the migration is done, press "Back" to return to the main migrator page.

## **Multi-user Archive Migration**

This will access GroupWise Personal Archives and migrate each archive to PST. Click "Multi-user Archive Migration: to begin:



Press "Load Users" to load the users from the CSV file.

There are buttons to select all or none users. You can also click on one or more users.

Press Start to begin the migration process. Progress will be shown in the console frame.

When the migration is done, press "Back" to return to the main migrator page.