Migration Toolkit 4.0

Table of Contents

Migration Toolkit	1
From GroupWise to Exchange and Office 365 From eDirectory to Active Directory.	1
Overview	1
Sales and Technical Support	3
Technical Support	3
Sales	3
Limitations of the Trial License	3
System Requirements	5
Supported Mail Systems	5
System Requirements	5
• Hardware	5
Software Prerequisites	5
Migration Workstation Recommendations	6
System Preparation Overview	6
GroupWise System Preparation Overview	6
Exchange System Preparation Overview	6
System Preparation	7
Configure Directory and Email Systems	7
Configure eDirectory/LDAP and GroupWise	7
Configure Exchange/O365 and Active Directory	8
Tips	12
SMTP Configuration	15
Install the SMTP Service for an SMTP relay:	15
Configure the SMTP Service	22
CSV Files	33
CSV data headers	35
Preparing the Migration Workstation	37
Prerequisite Software	37
Migration Toolkit Installation	38
Register License	43
Install License	43
Logging	45
User Migrator	47
Migration Toolkit Configuration	47
MTK Configuration	47
Configure Edirectory, GroupWise and Microsoft Settings	47
User Migration	53
Directory Service	53
Migrating Users	57
On-Premise Exchange	59
Office 365	62
User Matching	67
Migrate Distribution Lists	69
Migrate Proxy Rights	73

Using Proxy Rights	74
Create Forwarding Rules	76
Migrate Resources	78
Migrate Resources	78
EMail Migrator	79
EMail Migrator Configuration	79
Prerequisites	79
License EMail Migrator	79
File Menu	80
Options Menu	80
EMail Migration	82
Prerequisites	82
Configure E-mail Migration	82
Email Migration	86
Calendar and Task Migration	88
Prerequisites	88
Calendar and Task Migration	89
GroupWise to PST Migrator	91
The GroupWise to PST Migrator	91
System Requirements	91
GroupWise To PST Migrator Installation	91
GroupWise To PST Configuration	96
Import License	96
Configure Settings	96
GroupWise To PST Migrator	100
Multi-user Live Migration	100
Multi-user Archive Migration	101

Migration Toolkit

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

Version 4.0

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.

"GWAVA" is a registered trademark of GWAVA, Inc, 100 Alexis Nihon, Suite 500, Saint Laurent, Quebec H4M 2P1

"Retain" is a trademark of GWAVA, Inc, 100 Alexis Nihon, Suite 500, Saint Laurent, Quebec H4M 2P1

"GroupWise" and "eDirectory" are registered trademarks of Novell, Inc.

"Exchange" and "Active Directory" are registered trademarks of Microsoft, Inc.

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

• Hardware

- □ Windows 7 SP1, or Windows 10 64-bit
- □ 8+ GB of RAM
- □ 50+ GB of available disk space

Software Prerequisites

- In MTK must be installed to the C: drive
- □ GroupWise client (Client version must match server version)

□ .CSV editor. OpenOffice or LibreOffice work great, Excel needs to be coerced into saving .CSV files properly.

□ Java 8 (64-bit required for 64-bit migration, 32-bit for the 32-bit version of the tool)

- Java Runtime Environment 1.8+
- Discrosoft .NET 4.6.1 or higher

□ Windows Management Framework 3.0 or higher

• If Creating Users in On-Premise Active Directory

- Remote Server Administration Tool (RSAT)
- o Specific Windows features enabled after installing RSAT
 - Active Directory Module for Windows PowerShell
 - Active Directory Administrative Center
 - □ AD DS Snap-Ins and Command-line Tools
- If Creating Users and Licensing in Office 365
 - Discrosoft Online Services Sign-In Assistant for IT Professionals
 - Windows Azure AD Module for Windows PowerShell

Migration Workstation Recommendations

We have found that in migrating to O365, setting up two (2) workstations for the migration each doing four (4) users at a time will be near but under the O365 throttling limit.

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

□ LDAP Port (default is 398)

□ 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

□ 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.)

2. Be sure SOAP is enabled on GroupWise Post Office Agent.

Write down the following for GroupWise:

□ SOAP IP address of primary post office.

□ SOAP port for primary post office (default is 7191)

□ Client Port for Primary post office (default is 1677)

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 NameKey

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.

Mailbox/Library Maintenance		Close 🗙
Load Save		
Maintenance on Post Office		
O Maintenance on User/Resources on this Post Office		
\bigcirc Maintenance on Libraries on this Post Office		
Actions: Analyze/Fix Databases		
Structure		
Index check		5
Content		2
Collect statistics		5
Attachment File Check		
Fix Problems		
Update user disk space totals		ŝ
		5
		5
Databases Logging Results Misc Exclude		51
✓ User / Resources		ŝ
✓ Message		ŝ
Document		
0	ОК	Cancel

□ 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)

Enterprise Office 365				
Exchange admin ce	nter			
recipients	admin roles user roles Outlook Web App p	oolicies		
permissions				
compliance management	+ / 前 階 P B			
organization	Role Group - Mozilla Fire	tox +		A
protection	(i) 🖍 https://10.1.4.213/ecp/UsersGroups/NewAdminRoleGro	up.aspx?pwmcid=5&Return		Retain Archive Ma
mail flow	new role group	•	Select a Role - Mozilla Fi	refox 😁 🗕 🗆 🗙
mobile		1 https://10.1.4.213/ecp/Pickers	s/ManagementRolePicker.aspx?pwmcid	=2&Launcher=ResultPanePlaceHolder_Grou 🛛 🚇 🔻
public folders	MTK Impersonation			
unified messaging	Description:	DISPLAY NAME	<u>۸</u>	
servers		Active Directory Permissions Address Lists		ApplicationImpersonation
bulavid		ApplicationImpersonation		This role enables applications to impersonate users in an organization in order to perform
nybrid		Audit Logs		tasks on behalf of the user.
tools	Write scope:	Cmdlet Extension Agents		Default recipient scope
		Database Availability Groups		Organization
		Database Copies		Default configuration scope
	Roles:	Databases Disaster Recovery		None
	+ -	Distribution Groups	~	
	NAME	1 selecte	ed of 68 total	
		add -> Application	Impersonation (remove)	
	_			
				ok cancel

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)).

Active Dire	ctory Users and Computers
File Action View Help	
🗢 🔿 🙍 💼 📋 🖾 🧟 📾 🕺	, 🛅 🝸 🔟 🍇
Active Directory Users and Computers [EX141.mtk.doc.	.gwava.net] Name
Saved Queries	🔛 Builtin
⊿ 🛐 mtk.doc.gwava.net	Computers
mtk.doc.gwava.net Proper	ties ? x in Control
	inSecurity
General Managed By Object Security Attribute E	ditor ndFound
	ged Servic
mtk.doc.gwava.net	soft Excha
	am Data
	m
Domain name (pre-Windows 2000):	
MTKEX	soft Excha
	soft Excha

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

```
Set-ThrottlingPolicy GWAVAUnlimited -ThrottlingPolicyScop
Organization
```

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

View the throttling policy by typing: Get-ThrottlingPolicy -Identity GWAVAUnlimited | Format-List 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.

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.

Launch Server Manager. Click Add Roles and Features

- □ Click Next until you get to Features, and select SMTP Server. Install the service.
- □ Configure the SMTP Service

Launch IIS Manager 6.0

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 | Autodiscover

- In IIS Manager:

IIS Manager | Server | Sites | Default Web Site | EWS | Authentication

IIS Manager | Server | Sites | Default Web Site | Autodiscover | Authentication

- Using PowerShell:

EWS:

```
Get-WebServicesVirtualDirectory | ft 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*

- 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

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.

F	Add Roles and Features Wizard
Before you begin Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	DESTINATION SERVER SRB2012E SRB.Jocal This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website. To remove roles, role services, or features: Start the Remove Roles and Features Wizard Before you continue, verify that the following tasks have been completed: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The most current security updates from Windows Update are installed If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again. To continue, click Next. Skip this page by default
	< Previous Next > Install Cancel

Select Role-based or feature-based installation.

SMTP Configuration

Ra .	Add Roles and Features Wizard	- • ×
Select installation	on type	DESTINATION SERVER SR82012E.SR8Jocal
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	 Select the installation type. You can install roles and features on a runnin machine, or on an offline virtual hard disk (VHD). Role-based or feature-based installation Configure a single server by adding roles, role services, and features. Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to or session-based desktop deployment. 	g physical computer or virtual create a virtual machine-based
	< Previous Next >	Install

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

elect destinati	on server			SRB2012E.SRB.loc
Before You Begin	Select a server or a virtue	Select a server or a virtual hard disk on which to install roles and features. Select a server from the server pool		
Installation Type	Select a server from t			
Server Selection	O Select a virtual hard of	Select a virtual hard disk		
Server Roles	Server Pool			
Features				
Confirmation	Filter:			
	Name	IP Address	Operating System	
	(Incal	192 168 1 199	Microsoft Windows Server 20	12 Eccentials
	1 Computer(s) found			
	This page shows servers Add Servers command in	that are running Win Server Manager. Off	dows Server 2012, and that have fline servers and newly-added se	been added by using rvers from which data

Click Next to bypass the Roles selections.

SMTP Configuration

	les:	DESTINATION SERVER
belect server ro	lles	SRB2012E SRB.Jocal
Before You Begin Installation Type	Select one or more roles to install on the selected server. Roles	Description
Server Selection		Active Directory Certificate Services
Server Roles	Active Directory Domain Services (Installed)	(AD CS) is used to create
Features	Active Directory Federation Services	certification authorities and related role services that allow you to issue
	Active Directory Lightweight Directory Services	and manage certificates used in a
	Active Directory Rights Management Services	variety of applications.
	Application Server	
	DHCP Server	
	DNS Server (Installed)	
	Fax Server	
	File And Storage Services (Installed)	
	Network Policy and Access Services (Installed)	
	Print and Document Services	
	Remote Access (Installed)	
Remote Desktop Services (Installed)	Remote Desktop Services (Installed)	
	Volume Activation Services	

Scroll down the list and tick the SMTP Server feature.

Select features		DESTINATION SERVER SRB2012E SRB.Jocal
Before You Begin Installation Type	Select one or more features to install on the selected server. Features	Description
Server Selection Server Roles Features	RAS Connection Manager Administration Kit (CM/ Remote Assistance Remote Differential Compression	SMTP Server supports the transfer of e-mail messages between e-mail systems.
Confirmation Results	Remote Server Administration Tools (Installed) RPC over HTTP Proxy (Installed) Simple TCP/IP Services	
	SMTP Server SNMP Service Subsystem for UNIX-based Applications [Deprecat Telnet Client Telnet Client	
	< III >	

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.

Þ		Add Roles and Features Wizard	x
	Ad You	Id features that are required for SMTP Server?	
	feat	Remote Server Administration Tools	
	-	▲ Feature Administration Tools	
		SMTP Server Tools	
	~	Include management tools (if applicable)	
		Add Features Cancel	

Click Install to complete the Installation.

Confirm installa	tion selections	DESTINATION SERVE SRB2012E.SRB.loc		
Before You Begin	To install the following roles, role services, or features on s	elected server, click Install.		
Installation Type	Restart the destination server automatically if required	4		
Server Selection Server Roles Features	Optional features (such as administration tools) might be or been selected automatically. If you do not want to install their check boxes.	Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.		
Confirmation	Remote Server Administration Tools			
Results	Feature Administration Tools SMTP Server Tools SMTP Server			
	Export configuration settings Specify an alternate source path			

Click Close when the installation has completed.

SMTP Configuration



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.

۲	User Account Control					
Do cha	Do you want to allow the following program to make changes to this computer?					
Solution	Program name: IIS Admin Program Verified publisher: Microsoft Windows					
Show d	letails Yes No					
Change when these notifications appear						

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

5		Internet Inf	ormation Servic	es (IIS) 6.	0 Manager	×
File Action	View Window	Help				_ 8 ×
* *	3 🖬 🖬 🗸	▶ ■ 11				
California Information	mation Services	Computer		Local	Version	Status
⊿ 🗐 😁2012E	(local computer)	🗐 🧠 2012E (I	local computer)	Yes	IIS V7.5	
2	Start Stop Pause					
	New	•				
	New Window from	m Here	1			
	Rename Refresh					
	Properties					
	Help					

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

[SMTP Virtual Server #1] Properties 2
General Access Messages Delivery LDAP Routing Security
♦
Fully-qualified domain name: SRB2012E.SRB.local IP address:
(All Unassigned) Advanced
(All Unassigned) 192.168.1.199
Connection time-out (minutes):
Enable logging Active log format: W3C Extended Log File Format
OK Cancel Apply Help

Note: You can also enable logging is required.

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

Migration Toolkit 4.0

[SMTP Virtual Server #1] Properties ? ? General Access Messages Delivery LDAP Routing Security	Connection
Access control Edit the authentication methods for this resource.	Select which computers may access this virtual server:
A TLS certificate is found with expiration date: 28/02/2014	Access IP Address (Mask) / Domain Name
Connection control Grant or deny access to this resouce using IP addresses or Internet domain names. Connection	Add Bemove
Relay restrictions Grant or deny permissions to relay e-mail through this SMTP virtual server.	Add one of the following to the list. (* Single computer IP address: 192, 168, 2, 241 DNS Lookup
OK Cancel Apply Help	Group of computers Subnet address: Subnet mask.
	C Domain Name
	OK Cancel Help

Add the same IP to the Relay list.

SMTP Configuration

neral Access Messages Delivery LDAP Bouting Security		Relay Restrictions	x
Access control Edit the authentication methods for this Authentication	Select which compute	er may relay through this virtual i	erver:
	C All except the Computers:	list below	
Secure communication	Access	IP Address (Mask) / Doma	in Name
A TLS certificate is found with expiration date: 28/02/2014			
Connection control			
Grant or deny access to this resouce usingConnection	Add	Remove	
Relay restrictions	Allow all compute	rs which successfully authentica	te to relay, regardless
Grant or deny permissions to relay e-mail through this SMTP virtual server.	of the lef above.	Computer	
	Add one of the t	ollowing to the list.	
OK Cancel Annly Help	Single co	mputer	
	IP addres	68 2 241	DNS Lookup
	Const		
	Subnet a	ddress:	Subriet mask:
	-		
	C Domain		
	Name:		
	· · · · · · · · · · · · · · · · · · ·		

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.

Migration Toolkit 4.0

General Access Me	ssages Delivery	LDAP Routing	Security	Advanced Delivery	
Outbound First retry interval (m Second retry interva	inutes): al (minutes):	[15 [30		Maximum hop count: 15 Masquerade domain:	
Subsequent retry interval (Subsequent retry int Delay notification: Expiration timeout:	minutes): terval (minutes):	240 [12 2	Hours	I Fully-qualified domain name: Common name: Smart host: mailserver.myISP[com	Check DNS
Local Delay notification: Expiration timeout:		[12 [2	Hours _	Attempt direct delivery before sending to smart host	
Outbound Security.	Outbound cor	mections	Advanced.	OK Cancel	Help

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

Areas	Search	
APPS Results for "Firewall"	Apps	
Windows Firewall with Advanced Security	Firewall	× 🔎
with Advanced	뼺 ^{App}	s 1

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

v

<i>@</i>			
File Action	View Help		
Windows Fire Sout Sou	New Rule Filter by Profile Filter by State Filter by Group View Refresh Export List Help	 	ind Rules ind Micro Client/Server ind Micro Security Serve ind Micro Security Serve ind Micro Security Serve ind Micro Security Serve ind Micro Smart Scan Se ind Micro Smart Scan Se ind Micro Smart Scan Se
			NC Server

Select Port.

What type of rule would you like to create?

```
    Program
Rule that controls connections for a program.
```

Port

Rule that controls connections for a TCP or UDP port.

O Predefined:

Active Directory Domain Services

Rule that controls connections for a Windows experience.

Custom

Custom rule.

Type in 25 as the local port.

Does this rule apply to TCP or UDP	?
• TCP	
Does this rule apply to all local ports	s or specific local ports?
O All local ports	
Specific local ports:	25
	Example: 80, 443, 5000-5010

Click Next (Allow the Connection).

Wha	at action should be taken when a connection matches the specified conditions?
●	Now the connection This includes connections that are protected with IPsec as well as those are not.
⊖ A T W F	Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections vill be secured using the settings in IPsec properties and rules in the Connection Security Rule node.
0	Customize Block the connection

Uncheck Public. (Prevents external access to the server)



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

Name: Internal SMTP Service		
)escription (ontional):		
vescription (optional).		
	< Back Finish Cancel	I

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

*	Win	dows Firewall	with Advan	ced Security				6	×
File Action View Help									_
Windows Firewall with Advance	Inbound Rules							Actions	
Inbound Rules	Name	Group	•	Profile	Enabled	Action	^	Inbound Rules	-
Connection Security Rules	Conternal SMTP Service	and .		Domai	Yes	Allow		New Rule	
p 🛃 Monitoring	Trend Micro Security Server	gen norr		Public	Yes	Allow	=	Filter by Profile	,
	Trend Micro Security Server			Public	Yes	Allow		Filter by State	,
	Trend Micro Security Server			Domain	Yes	Allow		Y Filter by Group	
	Trend Micro Security Server Trend Micro Smart Scan Service			Domain Public	Yes	Allow		View	•

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.

	8 🔤 🖬 🔟 🕨 🖬 🕪		Cimple Mail Tre	nefer Droter	al (CMTD) Drawn	tion /l ocal
Services (Local)	Name *	Descripti	Simple Mail Tra	insier Protoc	or (SMTP) Proper	ties (Local
	端 Secondary Logon	Enables :	General Log On	Recovery De	pendencies	
	Secure Socket Tunneling Pr	Provides	C	COLUMN TO A COLUMN		
	Security Accounts Manager	The start	Service name:	SMIPSVC		
	Server	Supports	Display name:	Simple Mail Tra	nsfer Protocol (SMTP)	
	Server Infrastructure Licens	Provides	Description:	Transports electronic mail across the network.		
	ShadowProtect Service	ShadowF				
	Shell Hardware Detection	Provides	12000 000	a ²⁰		
	Simple Mail Transfer Protoc	Transpor	Path to executable: C\Mindows\pusters20\insters\instifutersa			
	Smart Card	Manages	C. WILLOWS Syst	CIII 32 WINCLOI V WINC	UI = U.CAC	
	Smart Card Removal Policy	Allows th	Startup type:	Automatic		~
	SNMP Trap	Receives	Haln me configure service start in antians			
	Software Protection	Enables t	negrine corrigue	a service startup	options,	
	Special Administration Con	Allows a	Service status: Burning			
	Spot Verifier	Verifies p				
	SSDP Discovery	Discover	Start	Stop	Pause	Resume
	Still Image Acquisition Events	Launche	You can specify the start parameters that apply when you start the service from here.			
	StorageCraft ImageManager	Storage				
	StorageCraft ImageReady	StorageC	100 million 100 million	201		
	StorageCraft Shadow Copy		Start parameters.			
	Supereton	Maintain				
	System Event Notification S	Conding	10		04	
	Task Schadular	Coordina		1	Canci	Apply
	TOD ID N DIO CH L	chables a			1 10 1	

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.

CSV Files



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.

dn	GW/eDir Distinguished Name
organization	GW/eDir Organization
organizationUnits	GW/eDir Organizational Units
cn	GW/eDir Common Name
domain	GW/eDir Domain
postOffice	GW/eDir Post Office
firstName	GW/eDir First Name
lastName	GW/eDir Last Name
displayName	GW/eDir Display Name
uuid	AD/EX Universal Unique Identifier
phones	GW/eDir Phone Numbers
email	GW/eDir Email
department	GW/eDir Department
destinationEmail	AD/EX Destination Email
upnLogon	AD/EX User Principal Name Logon
samAccountNameLogon	AD/EX User Logon Name (pre-Windows 2000)
gwUserID	GW/eDir GroupWise User ID
delegateRuleId	AD/EX Delegate Rule ID
destinationContext	AD/EX Destination Context
destinationDN	AD/EX Destination Distinguished Name
mailboxDB	AD/EX Mailbox Database, specify if not default
nicknames	GW/eDir Nicknames
office365License	O365 License
disabledPlans	O365 Disabled Plans
usageLocation	O365 Usage Location, two character country code
password	AD/EX/O365 Password
destinationGUID	AD/EX Destination Global Unique Identifier, created by AD
language	AD/EXLanguage
faxNumber	GW/eDir FAX Number

CSV data headers

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

On a Windows 7 SP1 make sure you have installed ALL the following prerequisite software and must be installed to the C: drive:

□ <u>Microsoft .NET 4.6.1</u> or higher

□ Windows Management Framework 3.0 or higher

On a Windows 10 Enterprise 64-bit workstation make sure you have installed ALL the following prerequisite software and must be installed to the C: drive:

□ <u>Microsoft .NET 4.6.</u>2 or higher (install from Windows Features, required for WMF 5.1)

□ <u>Windows Management Framework</u> 5.1 or higher (install from Windows Features)

User Migrator and Email Migrator

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)

If creating users in On-Premise Active Directory/Exchange, install:

□ <u>Remote Server Administration Tool</u>

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

💽 Windows Features	3
Turn Windows features on or off	
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.	
🗉 🔲 Print and Document Services 🔷]
Remote Differential Compression	
🖃 🔲 🖟 Remote Server Administration Tools	
🕀 🗔 🖟 Feature Administration Tools	
🖃 🔲 🔒 Role Administration Tools	
🖃 🔲 🎍 AD DS and AD LDS Tools	
Active Directory Module for Windows PowerShell	
🖂 🔲 🍌 AD DS Tools	
Active Directory Administrative Center	
AD DS Snap-ins and Command-line Tools	
Server for NIS Tools	
OK Cancel]

If creating users in Office365, install:

□ <u>Microsoft Online Services Sign-In Assistant for IT Professionals</u>

<u>Windows Azure AD Module for Windows PowerShell</u>

GroupWise to PST Migrator

On a Windows 7 SP1 or Windows 10 64-bit workstation make sure you have installed ALL the following prerequisite software and must be installed to the C: drive:

- □ <u>Microsoft .NET 4.6.1</u> or higher (installed by default in Win10 64-bit)
- □ Java Runtime Environment 1.8 or higher
- □ GroupWise Client 7, 8, 2012 or 2014
- □ Outlook 2010, 2013, or 2016 (32-bit)

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.

🔘 Setup - Migration Toolkit 📃 📼	• 💌
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
GWAVA Inc.	*
End User License Agreement ("EULA")	
THE FOLLOWING CONSTITUTES THE END USER LICENSE AGREEMENT THAT IS ATTACHED TO THE SOFTWARE THAT YOU ARE ABOUT TO DOWNLOAD.	
BEFORE CLICKING THE "ACCEPT" BUTTON OR USING THE SOFTWARE, PLEASE READ THE FOREGOING TERMS AND CONDITIONS CAREFULLY. BY CLICKING ACCEPT, YOU WILL BE DEEMED, FOR ALL LEGAL PURPOSES, TO HAVE READ,	Ŧ
I accept the agreement	
I do not accept the agreement	
< Back Next >	Cancel

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'.

Setup - Migration Toolkit	- 0 🔀
Select Destination Location Where should Migration Toolkit be installed?	
Setup will install Migration Toolkit into the following folder.	
To continue, click Next. If you would like to select a different folder, c	lick Browse.
C:\Program Files (x86)\GWAVA\Migration Toolkt	Browse
At least 1.6 MB of free disk space is required.	
< Back Next	Cancel

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'.

Setup - Migration Toolkit	
Select Components Which components should be installed?	
Select the components you want to install; clear the components you o install. Click Next when you are ready to continue.	do not want to
Full installation	-
🔽 Email Migrator 32-bit	49.8 MB
🔽 Email Migrator 64-bit	49.8 MB
User Migrator	20.1 MB
Current selection requires at least 71.5 MB of disk space.	
< Back Next >	Cancel

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

Setup - Migration Toolkit	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start	Menu folder.
To continue, dick Next. If you would like to select a different folder, clic	k Browse.
GWAVA\Migration Toolkit	Browse
🕅 Don't create a Start Menu folder	
< Back Next >	Cancel

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

Setup - Migration Toolkit	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing Toolkit, then click Next.) Migration
Additional icons:	
Create a desktop icon	
Create a start menu icon	
< Back Next >	Cancel

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.

🕒 Setup - Migration Toolkit 🦳	
Ready to Install Setup is now ready to begin installing Migration Toolkit on your computer.	
Click Install to continue with the installation, or click Back if you want to review change any settings.	or
Destination location: C:\Program Files (x86)\GWAVA\Migration Toolkit	^
Setup type: Full installation	=
Selected components: Email Migrator 32-bit Email Migrator 64-bit User Migrator	
Start Menu folder: GWAVA\Migration Toolkit	-
•	•
< Back Install	Cancel

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 <u>licenses.gwava.com</u> 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.

GWAVA - License		×
License		I
Status	Valid	
Start Date	5/24/2016	
End Date	12/31/2016	
Import OK	Cancel	

Logging

Logs are created by the different components. They are found in **%APPDATA%\~**

User Migrator Logs User migrator logs are found in the **~\RetainMigrationTool\User Migrator\logs** folder *user_migrator.log* (log text file)

Email Migrator Logs Email migrator logs are found in **~\RetainMigrationTool\Email Migrator\logs** folder There will be three logs for each user email that migration was attempted on. Each email address will get its own set of log files: gwava@gwava.com (log file) gwava@gwava.com_Report (text file) Migration summary (.csv file)

SOAP Trace Logs The SOAP trace log contains a detailed log of the transactions the toolkit is making between GroupWise and Exchange/O365. The SOAP trace logs are found in **~\Local\Temp\soap#.log**

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 <u>System Preparation</u> 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	GroupWise
LDAP IP	10.1.6.12
LDAP Port	389
	e.g. 389
LDAP Username	cn=admin,ou=users
	e.g. cn=admin, ou=users
LDAP Password	••••••
SSL	
Base DN	o=GWAVA
	e.g. ou=users, o=organization
	TEST

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.

Migration Toolkit 4.0





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

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

*	Microsoft Settings		×
	Active Directory Exchar	nge Office 365	
	Username	MTKUser	
	Password	From CDV/file	
	Office 265 domain name	From CSV file	
	Office 365 domain name	e.g. mydomain.com	
	Default Usage Location	United States	
		TEST	
	Save Load from File Save to File	Cancel	

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.

Export eDirecto			
	ory Users		
Distinguished Name	Email	Status	
cn=admin,o=GWAVA	admin@gw2012.support.gwava.com		
cn=Test1,ou=Users,o=GWAVA	Test1@gw2012.support.gwava.com		
cn=Test2,ou=Users,o=GWAVA	Test2@gw2012.support.gwava.com		
cn=Test3,ou=Users,o=GWAVA	Test3@gw2012.support.gwava.com		
n=Test4,ou=Users,o=GWAVA	Test4@gw2012.support.gwava.com		
cn=1try,ou=PSAC,o=GWAVA	1try@psac-afpc.com		
cn=2try,ou=PSAC,o=GWAVA	2try@psac-afpc.com		
n=AbouDiM,ou=PSAC,o=GWAVA	AbouDiM@psac-afpc.com		
n=Action,ou=PSAC,o=GWAVA	Action@psac-afpc.com		
n=AddarioL,ou=PSAC,o=GWAVA	AddarioL@psac-afpc.com		
n=adminPAM.ou=PSAC.o=GWAVA	adminPAM@psac-afpc.com		
4			 ÷
EBUG - LDAP entry cn=user,ou=Use EBUG - Etched \$86 users from E Direct EBUG - Fetch resources form EDirect FO - Connecting to eDirectory serv	rs,o=GWAVA doesn't have attribute title rs,o=GWAVA doesn't have attribute wor rs,o=GWAVA doesn't have attribute con rs,o=GWAVA doesn't have attribute des rs,o=GWAVA doesn't have attribute spo rs,o=GWAVA doesn't have attribute chil rs,o=GWAVA doesn't have attribute mai rectory rectory roy er with host: 10.1.6.12 port 389 SWAVA	e rkforceID mpany istant scription suse Idren nager	

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.

A	8	C	0	E	F	G	н	1.1.1	1	K	L.,	M	N	0	P	Q	R	8	T	u	V	W	×
1 dn	organizat	i organiza	ti cn	domain	postOffi	cefirstNam	elastNam	e displayN	a uuid	phones	email	departm	e destinatio	cupnLogon	samAcco	ou gwUseri D	delegate	Fidestinati	c destinat	c mailboxi	Inickname	office365	disabledP us
2 admi	n.GWAVA		admin	PMGWMa	PMPO				BFC2DC	00-0F32-00	0Cadmin@	@gw2012.su	admin@g	admin@g	admin	admin							
3 Test	.Users.GWAVA	L	Test1	PMGWMa	PMPO	User		1 User 1	68721A	80-0EA6-00	0CTest1@	gw2012.sup	pTest1@gv	A Test1@gw	Test1	Test1							
4 Test	Users. GWAVA	4	Test2	PMGWMa	PMPO	User		2 User 2	7AF163	00-0EA6-00	00 Test2@	gw2012.sup	pTest2@gv	A Test2@gw	Test2	Test2							
5 Test	Users.GWAV/A	4	Test3	PMGWMa	PMPO	User		3 User 3	8F35608	0-0EA6-000	00 Test3@	gw2012.sup	pTest3@gv	Test3@gw	Test3	Test3							
6 Test	Users. GWAVA	4	Test4	PMGWMa	PMPO	User		4.User 4	979D9B	90-0EA6-00	0CTest4@	gw2012.sup	pTest4@gv	Test4@gw	Test4	Test4							
7 user.	Users.GWAVA		usem	PMGWMa	PMPO	user	n	usern	F487218	0-0217-000	00-usem@	gw2012.sup	ç usem@g	vusem@gv	usern	usem							

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.

🗧 GWAVA - Migrat	ion Toolkit				
Export Gr	oupWise Users				
Distinguished Name	Email	Status			٦.
admin.GWAVA	admin@gw2012.support.gwava.com				1
Test1.Users.GWAVA	Test1@gw2012.support.gwava.com				
Test2.Users.GWAVA	Test2@gw2012.support.gwava.com				1
Test3.Users.GWAVA	Test3@gw2012.support.gwava.com				1
Test4.Users.GWAVA	Test4@gw2012.support.gwava.com				1
user.Users.GWAVA	usern@gw2012.support.gwava.com				1
INFO - Connecting to C INFO - Connected to G DEBUG - Created curso DEBUG - Destroyed curs INFO - fetched 6 users DEBUG - Created cursor DEBUG - Created cursor DEBUG - Destroyed curs INFO - fetched 0 users INFO - Connecting to C INFO - Connecting to C INFO - Connected to G INFO - logout user Test INFO - logout user Test	W Soap address http://10.1.6.12.7191/ W Soap address http://10.1.6.12.7191/s -1223862282 from SOAP: 00:00:00.7710000 sec -1223862281 from SOAP: 00:00:00.7290000 sec nes from SOAP 1 W8+ Soap address http://10.1.6.12.719 W8+ Soap address http://10.1.6.12.719 1 mmes	soap with username: Test1, tAppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F942588508 soap with username: Test1, tAppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F942588508 91/soap with username: Test1, tAppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F9425885 1/soap with username: Test1, tAppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F9425885	50820EA 0820EA	.C00	·
INFO - fetched 6 group	wise users and resources: 00:00:00 sec	LOAD USERS EXPORT ALL	CANCE	, ,	•

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.

GWAVA - Migration Toolkit					_ 🗆 ×
Merge eDirecto	ry and Group	Wise U	Jsers List		
eDirectory Users CSV File:	EDirectoryUsers.CSV	BROWSE	GroupWise Users CSV File:	GroupWiseUsers.csv	BROWSE
eDirectory Users Data File (optional):	EDirectoryUsers.CSV.data	BROWSE	GroupWise Users Data File (optional):	GroupWiseUsers.csv.data	BROWSE
INFO - Saved result info to CSV file C:\(INFO - Saved result info to data file C:\)	SV and Configs\SFMergedEdirGr CSV and Configs\SFMergedEdirGr	oupWiseUsers.	csv .csv.data		
4					×
				MERGE	DONE

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:

U	
cn	Mandatory, User's Common Name in
1	

	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*			

*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

Click on the	Create Users in Act	tive Direct	ory from (CSV File icc	on to open	the tool.
关 GWAVA - Migratio						
Create Us select all sel	ECT NONE BROWSE CSV FILE Merg	ctory edEdirGroupWiseUsers	.csv BROWSE	e CSV.DATA FILE Merge	:dEdirGroupWiseUsers.c	sv.data
Name	Context	Logon name	Status	Message		
a dua in	an-Harr de-finalfrantian de- com	- desire	NetStarted	message		
Usor 1	cn=Users.dc=finalfrontier.dc=com	Tort1	NotStarted			
User 2	cn=Users.dc=finalfrontier.dc=com	Test2	NotStarted			
User 3	cn=Users.dc=finalfrontier.dc=com	Test2	NotStarted			
User 4	cn=Users.dc=finalfrontier.dc=com	Test4	NotStarted			
1tor	cn=Users.dc=finalfrontier.dc=com	1try	NotStarted			
2try	cn=Users.dc=finalfrontier.dc=com	2try	NotStarted			
Mariam Abou-Dib	cn=Users.dc=finalfrontier.dc=com	AbouDiM	NotStarted			
Action	cn=Users.dc=finalfrontier.dc=com	Action	NotStarted			
Lisa Addario	cn=Users dc=finalfrontier,dc=com	Addariol	NotStarted			•
4					Selected: 1	Total: 607
EXPORT DATA					START	CANCEL

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.

GWAVA - Migration Toolkit			
eDirectory and Active Directory Users Matching			
eDirectory Users CSV: EDirectoryUsers.CSV BROWSE			
INFO - Fetching users from Active Directory INFO - AD users loaded INFO - Merging User 0 succeeded. INFO - 606 users in Active Directory are not Merged. INFO - 606 users in Pointeetory are not Merged. INFO - Writing result info to file C\CSV and Configs\SFMatching_NotMergedADUsers.csv INFO - Writing result info to file C\CSV and Configs\SFMatching_NotMergedADUsers.csv INFO - Writing result info to file C\CSV and Configs\SFMatching_NotMergedEDUsers.csv			*
4		,	
	START MERGING	DONE	

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 Office365.

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:

cn	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**

* 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).

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

Exchange | Mail Enable Active Directory Users

Mail Er	nable Active D	irectory	Users			
SELECT ALL	SELECT NONE BRO	WSE FILE Merg	edEdirGroupWise	Users.csv		
Name	Email	Database	Status	Message		
admin	admin@finalfrontier.com	1433937436	NotStarted			
Jser 1	Test1@finalfrontier.com	Mailbox Datab	NotStarted			
Jser 2	Test2@finalfrontier.com	Mailbox Datab	NotStarted			
Jser 3	Test3@finalfrontier.com	Mailbox Datab	NotStarted			
Jser 4	Test4@finalfrontier.com	Mailbox Datab	NotStarted			
try	1try@psac-afpc.com	1433937436	NotStarted			
try	2try@psac-afpc.com	1433937436	NotStarted			
lariam Abou-Di	AbouDiM@psac-afpc.com	1433937436	NotStarted			
ction	Action@psac-afpc.com	1433937436	NotStarted		 	
isa Addario	AddarioL@psac-afpc.com	1433937436	NotStarted			

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

GWAVA			🛱 Configuration 🛛 🗙
User Mig	rator		
Directory Service	GroupWise	Exchange	Office 365
Create Users Create Users Create Users Create Distribution Migrate Proxy Right	ı Lists hts		

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:

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

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

Office 365 | Create Users

Name	Email	Usage Location	Status	Message	
dmin	admin@finalfrontier.com		NotStarted		
Jser 1	Test1@finalfrontier.com		NotStarted		
Jser 2	Test2@finalfrontier.com		NotStarted		_
Jser 3	Test3@finalfrontier.com		NotStarted		
Jser 4	Test4@finalfrontier.com		NotStarted		
.trv	1try@psac-afpc.com		NotStarted		-
try	2try@psac-afpc.com		NotStarted		
Jariam Abou-Dib	AbouDiM@psac-afpc.com		NotStarted		
Action	Action@psac-afpc.com		NotStarted		
isa Addario	AddarioL@psac-afpc.com		NotStarted		
IFO - Skipped di	uplicated user: usern				

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 *office365License* 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:

cn	Mandatory, User's Common Name in eDirectory or GroupWise
office365License	Mandatory, User's plan/license in O365
type	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.

Plan Name	Code	Active Units	Warning Units	Consumed Units	Available Unit
Office 365 (Plan E3)	beginfinite:ENTERPRISEPACK	1	0	1	0
Office 365 (Plan K1)	beginfinite:DESKLESSPACK	5	0	5	0
Office 365 Exchange Online Only	beginfinite:EXCHANGESTANDARD	1	0	1	0

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

SELECT ALL	SELECT NONE BROWSE FI	SFMerged	dirGroupWiseUsers	LICENSE INF	FORMATION
Name	Email	Usage Location	License	Status	Message
	admin@gw2012.support.gwava.com		Office 365 (Plan E3)	NotStarted	
Jser 1	Test1@gw2012.support.gwava.com			NotStarted	This user does not have a "office365License" in the CSV file.
Jser 2	Test2@gw2012.support.gwava.com			NotStarted	This user does not have a "office365License" in the CSV file.
Jser 3	Test3@gw2012.support.gwava.com			NotStarted	This user does not have a "office365License" in the CSV file.
Jser 4	Test4@gw2012.support.gwava.com			NotStarted	This user does not have a "office365License" in the CSV file.
	1try@psac-afpc.com			NotStarted	This user does not have a "office365License" in the CSV file.
	2try@psac-afpc.com			NotStarted	This user does not have a "office365License" in the CSV file.
	AbouDiM@psac-afpc.com			NotStarted	This user does not have a "office365License" in the CSV file.
	Action@psac-afpc.com			NotStarted	This user does not have a "office365License" in the CSV file.
	Addatial @near after com			NetStarted	This user dees not have a "office2651 isonse" in the CSV file
150 0	Contraction of the second seco				

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

WAVA GWAVA Configuration Configuration Configuration Configuration Configuration Directory Service GroupWise Exchange Office 365 Figuration Configuration Configuration Configuration Configuration Configuration Directory Service GroupWise Exchange Office 365 Create Users in Active Directory from CSV File Configuration Directory Users Matching

Click on Directory Users Matching to open the tool.

😸 GWAVA - Migration Toolkit		×
eDirectory and Active Directory Users Matching		
eDirectory Users CSV: EDirectoryUsers.CSV BROWSE		
4		, [*]
	START MERGING	CANCEL

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.

Jame	Email	Members #	_
listribution1	Distribution1@gw2012.support.gwava.com	4	
FO - Connecting to GW Soap (address http://10.1.6.12:7191/soap with username: Test1, t4 ddress http://10.1.6.12:7191/soap with username: Test1, t4	AppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F94258850820EAC ppName: MTK, tAppKey: 258850810EAC0000BA42C80568811F94258850820EAC	2000

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.

User Migrator

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.

Vame	Email	Status	Message
dmin	admin@finalfrontier.com	NotStarted	
lser 1	Test1@finalfrontier.com	NotStarted	
lser 2	Test2@finalfrontier.com	NotStarted	
lser 3	Test3@finalfrontier.com	NotStarted	
lser 4	lest4@finalfrontier.com	NotStarted	
try	Itry@psac-afpc.com	NotStarted	
try Ioriom Abou Di	AbouDiM@psac.afpc.com	NotStarted	
ction	Action@psac-afpc.com	NotStarted	
ica Addario	Addariol @prac-afpc.com	NotStarted	
ROR - Found d	uplicate «Groupwise user ID» «po	st office > < domain >	Selected: 1 Total:

 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

- 1. Import eDirectory and GroupWise users.csv
- 2. Click Start

Using Proxy Rights

Details on GroupWise proxy versus Exchange permission rights

GroupWise Full Access proxy rights do not have an exact equivalent to the Exchange permission system, therefore proxy users will be granted permission to the user's Exchange mailbox on a folder by folder basis.

The GroupWise access rights to Exchange folder permission is mapping is made as below:

GroupWise Access Rights	Exchange folder(s)
Mail/phone	Inbox, Draft, SentItems, JunkEmail, Outbox, DeletedItems, and any other user created

	folder
Appointments	Calendar
Reminder notes	Notes
Tasks	Tasks

Additionally, "Folder visible" permission to the Exchange user's root folder will be granted to the proxy user.

The mapping from proxy Permissions in GroupWise to Permission levels in Exchange is:

Permission in GroupWise Permission level in Exchange

Read	Reviewer
Write	Contributor
Read and Write	Publishing Editor

Grant Permission to View/Edit folders to Another User

All folder permissions are viewable/editable via Outlook web app or the desktop Outlook client.

In the Outlook web app:

- 1. Right click on a folder
- 2. Click Permissions...
- 3. Select user(s) to grant permission to access to the source user's folders

Adding Proxy User's folders to the Outlook Sidebar

In a proxy user account, in order to have access to the user's folders who have given them access:

- 1. Right click on root folder then click Add shared folder...
- 2. Type the user's email address
- 3. Click Add, then you'll see all accessible folders added to the left side panel

Opening Another Mailbox

To allow a user to open another user's mailbox from Outlook/OWA, full access rights must be granted:

1. In GroupWise, all possible rights must be granted to the proxy account

2. Run the migration.

3. In Exchange/O365, **Full Access** rights **must** be granted to that same user account

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



Click on Create Forwarding Rules to open the tool.

🟀 GWAVA - Migration Toolkit					-	
Forwarding Rules BROWSE FILE EDirectoryUsers.CSV	Ν					
Distinguished Name	Email	Delegate Rule	Status			
cn=elder thing,ou=users,ou=mythos,ou=groupwise,o=gwava	elder thing@mythos.com	1				-
cn=werewolf,ou=users,ou=mythos,ou=groupwise,o=gwava	werewolf@mythos.com					
cn=vampire,ou=users,ou=mythos,ou=groupwise,o=gwava	vampire@mythos.com					
cn=moon,ou=users,ou=mythos,ou=groupwise,o=gwava	moon@mythos.com					
4	1	1	1			Þ
4) F
	LOAD STATUS	CREATE RULES	REMOVE RULES	CANCEL	EXPO	ORT

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.

<u></u>			
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		

The following columns must be filled in:

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

EMail Migrator

a de la companya de la company	A STATE OF	Larget Email	Status	Errors	Last Error Details
FO [Thread-0] Loa FO Current heap Joa FO [Thread-0] Loa FO [Thread-0] Loa ROR Please import	ded properties file: /config/e Ze: 245MB, max heap zize: 27 ded properties file: /config/q ded properties file: /config/r a valid Migration Toolkit lice	xchange.properties 31MB, free heap zize: 22 nigration.properties nigration.properties	icense EXAMPLE IN ICENSE applied tt Date: 1 Date: 1 port License Ok Cancel		

Press **Import License** and browse to the license PEM file.

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

C License	— ×			
Status:	Ok			
Start Date:	2016-10-13 2017-06-10			
End Date:				
Import License	Ok Cancel			

File Menu

File	Options
	Configuration
	License
	Check for Update
	Exit

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

Options Menu

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

File	File Options							
Na	🖌 Show Console	Email	Target Email	Status	Errors	Last Error Details		
cn:	admin,o=GWAVA=	admin@gw2012.suppo	admin@finalfrontier.co					
cn=	=Test1,ou=Users,o=G	Test1@gw2012.support	Test1@finalfrontier.com					
cn=	=Test2,ou=Users,o=G	Test2@gw2012.support	Test2@finalfrontier.com					
cn=	=Test3,ou=Users,o=G	Test3@gw2012.support	Test3@finalfrontier.com					
cn:	=Test4,ou=Users,o=G	Test4@gw2012.support	Test4@finalfrontier.com					
cna	=1try,ou=PSAC,o=G	1try@psac-afpc.com	1try@psac-afpc.com					
cn=	=2try,ou=PSAC,o=G	2try@psac-afpc.com	2try@psac-afpc.com					
cn=	=AbouDiM,ou=PSAC	AbouDiM@psac-afpc.c	AbouDiM@psac-afpc.c					
cn=	=Action,ou=PSAC,o=	Action@psac-afpc.com	Action@psac-afpc.com					
cn:	=AddarioL,ou=PSAC,	AddarioL@psac-afpc.c	AddarioL@psac-afpc.c			-		
•						Þ		
INFO INFO INFO ERRO DEBI Url=	III IIII III III							
				Clear	Load L	Jsers Start Stop Process Appointments		
Curr	Jurrent Hesp Size: 245MB, Max: 2731MB, Free: 196MB Selected 0 Total 607							

Console hidden

File	Uptions					
Nar	Show Console	Email	Target Email	Status	Errors	Last Error Details
cn=	admin,o=GWAVA	admin@gw2012.suppo	admin@finalfrontier.c			
cn=	=Test1,ou=Users,o=	Test1@gw2012.suppor	Test1@finalfrontier.com			
cn=	=Test2,ou=Users,o=	Test2@gw2012.suppor	Test2@finalfrontier.com			
cn=	=Test3,ou=Users,o=	Test3@gw2012.suppor	Test3@finalfrontier.com			
cn=	=Test4,ou=Users,o=	Test4@gw2012.suppor	Test4@finalfrontier.com			
cn=	=1try,ou=PSAC,o=G	1try@psac-afpc.com	1try@psac-afpc.com			
cn=	=2try,ou=PSAC,o=G	2try@psac-afpc.com	2try@psac-afpc.com			
cn=	AbouDiM,ou=PSAC	AbouDiM@psac-afpc	AbouDiM@psac-afpc			
cn=	Action,ou=PSAC,o	Action@psac-afpc.com	Action@psac-afpc.com			
cn=	AddarioL,ou=PSAC,	AddarioL@psac-afpc.c	AddarioL@psac-afpc.c			
cn=	adminPAM,ou=PS	adminPAM@psac-afp	adminPAM@psac-afp			
cn=	AEU,ou=PSAC,o=G	AEU@psac-afpc.com	AEU@psac-afpc.com			
cn=	=Agr-Calendar,ou=P	Agr-Calendar@psac-af	Agr-Calendar@psac-af			
cn=	AgrUnion,ou=PSAC	AgrUnion@psac-afpc	AgrUnion@psac-afpc			
cn=	=AkinT,ou=PSAC,o=	AkinT@psac-afpc.com	AkinT@psac-afpc.com			
cn=	albarrJ,ou=PSAC,o	albarrJ@psac-afpc.com	albarrJ@psac-afpc.com			
cn=	=AlexanK,ou=PSAC,	AlexanK@psac-afpc.co	AlexanK@psac-afpc.co			
cn=	AllenR,ou=PSAC,o	AllenR@psac-afpc.com	AllenR@psac-afpc.com			
cn=	AmiriS,ou=PSAC,o	AmiriS@psac-afpc.com	AmiriS@psac-afpc.com			
cn=	=AMUSE,ou=PSAC,o	AMUSE@psac-afpc.com	AMUSE@psac-afpc.com			
cn=	=AndersG,ou=PSAC,	AndersG@psac-afpc.c	AndersG@psac-afpc.c			
cn=	=APC-Admin,ou=PS	APC-Admin@psac-afp	APC-Admin@psac-afp			
cn=	Arb-Representation	Arb-Representation@p	Arb-Representation@p			-
					Clear Loa	d Users Start Stop Process Appointments
Curre	ent Heap Size: 245MB, N	/lax: 2731MB, Free: 195MB				Selected 0 Total 607

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 E-mail Migration

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

There are two modes for the migrator mail items and calendar items.

General settings

Migration Items	Mail 💌
Source Server	GroupWise
Target Server	Exchange
# of Concurrent Migration:	2
Duplicates	No Action 💌
Default Sender	
Auto Email Address Translatio	in 🗔
Time Zone	-07:00 Mountain Time (US & Canada) 🗸
User List	C:\CSV and Configs\SFMergedEdirGroupWiseUsers.csv Browse
Path To Logs	C:\Users\administrator.FINALFRONTIER\AppData\Roamir Browse

Under Configuration | General, set Migration Items to Mail

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	þ0.1.6.12
SOAP Port	7191
SSL	
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.

ation.finalfrontier.com rsonation@finalfrontier.com •
rsonation@finalfrontier.com ●
rsonation@finalfrontier.com •
•
rontier.com
lsers,dc=finalfrontier,dc=com
://federation.finalfrontier.com/EWS/Exchange.asmx/ews/exchange.as
5.12

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.

Office 365 Exchange Server Set	ttings 🔀
Impersonation Email Address	gwava@gwava.onmicrosoft.com
Password	•••••
Default EWS URL	https://outlook.office365.com/EWS/Exchange.asmx/ews/exchange.asmx
SMTP Connection	
Host	10.1.6.12
Port	25
TLS	
	Test Save Save to File Load from File Cancel

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.

Туре	Start Date	End Date	Attachm	ient Size
🗸 Pattern				Unlimited 👻
🗸 Mailbox				Unlimited 👻
🗸 Sent Items				Unlimited 👻
🗸 Draft				Unlimited 👻
🗸 Personal Folders				Unlimited 👻
Notes				Unlimited 👻
🗸 Tasks				Unlimited 👻
🗸 Trash				Unlimited 👻
🗸 Cabinet				Unlimited 👻

Other Settings

Personal Address Books are not migrated by default.

The MTK can send a Shared Folder Notification Email to the owners of the shared folder.

EMail Migrator

Configuration	×
General Migration Criteria Others	
Migrate Personal Address Book	
Shared Folder Notification Email	
Save Save t	o File Load from File Cancel

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

Email Migration

Press "Load Users" to load the CSV file.

admin@gw2012.suppo ad . Test1@gw2012.support Te . Test2@gw2012.support Te . Test3@gw2012.support Te . Test4@gw2012.support Te . 1try@psac-afpc.com 1tr	min@gw2012.suppo st1@gw2012.support st2@gw2012.support st3@gw2012.support st4@gw2012.support		
. Test1@gw2012.support Te . Test2@gw2012.support Te . Test3@gw2012.support Te . Test4@gw2012.support Te . 1try@psac-afpc.com 1tr	st1@gw2012.support st2@gw2012.support st3@gw2012.support st4@gw2012.support		
. Test2@gw2012.support Te . Test3@gw2012.support Te . Test4@gw2012.support Te . 1try@psac-afpc.com 1tr	st2@gw2012.support st3@gw2012.support st4@gw2012.support		
. Test3@gw2012.support Te . Test4@gw2012.support Te . 1try@psac-afpc.com 1tr	st3@gw2012.support st4@gw2012.support		
. Test4@gw2012.support Te 1try@psac-afpc.com 1tr	st4@gw2012.support		
1try@psac-afpc.com 1tr	- II		
	y@psac-afpc.com		
2try@psac-afpc.com 2tr	y@psac-afpc.com		
AbouDiM@psac-afpc.c Ab	ouDiM@psac-afpc.c		
. Action@psac-afpc.com Ac	tion@psac-afpc.com		
AddarioL@psac-afpc.c Ad	IdarioL@psac-afpc.c		
Loaded 10 users for demo license			

Select **none** to migrate all users or **click** on a user select one user, or use **Shiftclick** to select continuous multiple users or **Control-click** for discontinuous multiple users.

Press **Start** to being the migration process.

If some users failed during a pass you can use **Edit | Select failed entries** to select the failed users to see which ones failed and retry.

Fil	le Edit Options		_				
P	Var Select failed enti	ries	ji	Target Email	Status	Errors	Last Error Details
6	n=admin,o=GWAVA	admin@gw	/2012.suppo	admin@gw2012.suppo			
0	n=Test1,ou=Users,o=G	Test1@gw2	012.support	Test1@gw2012.support			
6	n=Test2,ou=Users,o=G	Test2@gw2	012.support	Test2@gw2012.support			
6	n=Test3,ou=Users,o=G	Test3@gw2	012.support	Test3@gw2012.support			
0	n=Test4,ou=Users,o=G	Test4@gw2	012.support	Test4@gw2012.support			
6	:n=1try,ou=PSAC,o=G	1try@psac-	afpc.com	1try@psac-afpc.com			
6	n=2try,ou=PSAC,o=G	2try@psac-	afpc.com	2try@psac-afpc.com			
6	n=AbouDiM,ou=PSAC	AbouDiM@	psac-afpc.c	AbouDiM@psac-afpc.c			
6	n=Action,ou=PSAC,o=	Action@ps	ac-afpc.com	Action@psac-afpc.com			
c	n=AddarioL,ou=PSAC,	AddarioL@	psac-afpc.c	AddarioL@psac-afpc.c			
20 20 20 20	11-03-31 09:26:44 ERKOR 11-03-31 09:26:44 ERKOR 11-03-31 09:27:22 INFO L 11-03-31 09:28:03 INFO L 11-03-31 09:28:03 INFO L	Please impor oaded config User list is er oaded 10 use	au a valid Migrat guration file. npty rrs for demo lic	ense			
						Clear Load	Users Start Stop Process Appointments
Cu	ırrent Heap Size: 466MB, N	/lax: 2731MB,	Free: 254MB				Selected 1 Total 10

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 Calendar Migration

Under Configuration | General, set Migration Items to Calendar

digration Items	Calendar 👻
Source Server	GroupWise Settings
Farget Server	Exchange Settings
f of Concurrent Migration:	2
Duplicates	No Action 👻
Default Sender	
Auto Email Address Translatio	n 📃
Time Zone	-07:00 Mountain Time (US & Canada) 🗸
Jser List	C:\CSV and Configs\SFMergedEdirGroupWiseUsers.csv Browse
ath To Logs	C:\Users\administrator.FINALFRONTIER\AppData\Roamir Browse

Configure Migration Criteria

Set Configuration | Migration Criteria

set start and end dates, if attachments are to be migrated and if attachment size is to be limited

Гуре	Start Date	End Date	Attachment Size	
Calendar			✓ Unlimited ▼ Unlimited 1 MB 2 MB 4 MB 8 MB 16 MB 32 MB 64 MB 128 MB	



Calendar and Task Migration

Press "Load Users" to load the CSV file.

Ivarrie	Source Email	Target Email	Status	Errors	Last Error Details
cn=admin,o=GWAVA	admin@gw2012.suppo	admin@gw2012.suppo			
n=Test1,ou=Users,o=G	Test1@gw2012.support	Test1@gw2012.support			
:n=Test2,ou=Users,o=G	Test2@gw2012.support	Test2@gw2012.support			
n=Test3,ou=Users,o=G	Test3@gw2012.support	Test3@gw2012.support			
:n=Test4,ou=Users,o=G	Test4@gw2012.support	Test4@gw2012.support			
:n=1try,ou=PSAC,o=G	1try@psac-afpc.com	1try@psac-afpc.com			
:n=2try,ou=PSAC,o=G	2try@psac-afpc.com	2try@psac-afpc.com			
:n=AbouDiM,ou=PSAC	AbouDiM@psac-afpc.c	AbouDiM@psac-afpc.c			
:n=Action,ou=PSAC,o=	Action@psac-afpc.com	Action@psac-afpc.com			
cn=AddarioL,ou=PSAC,	AddarioL@psac-afpc.c	AddarioL@psac-afpc.c			
117-03-31 09:26:44 INFO C 117-03-31 09:26:44 ERROR 117-03-31 09:27:22 INFO L 117-03-31 09:27:34 WARN 117-03-31 09:28:03 INFO L	urrent heap size: 243MB, ma Please import a valid Migrat oaded configuration file. User list is empty oaded 10 users for demo lice	ax heap size: 27 31MB, free he ion Toolkit license ense	ab size: TativiiR		
017-03-31 09:26:44 IRROR 017-03-31 09:27:22 INFO L 017-03-31 09:27:22 INFO L 017-03-31 09:27:34 WARN 017-03-31 09:28:03 INFO L 017-03-31 09:31:52 INFO L	urrent heap sze: 243MB, mi Please import a valid Migrat oaded configuration file. User list is empty oaded 10 users for demo lice oaded 10 users for demo lice	ax neap size: 2/ sJANB; free ne ion Toolkit license ense ense	sp size: 132/WB		
017-03-31 09:26:44 ERROR 017-03-31 09:27:22 INFO L 017-03-31 09:27:22 INFO L 017-03-31 09:27:34 WARN 017-03-31 09:31:52 INFO L 017-03-31 09:31:52 INFO L	urrent heap size: 243MB, mi Please import a valid Migrat oaded configuration file. User list is empty oaded 10 users for demo lic oaded 10 users for demo lic	ax neap size: 2/ sJANB; free ne ion Toolkit license ense ense	ep size: 132/WB	Clear Load I	Jsers Start Stop Process Appointme

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

On a Windows 7 SP1 or Windows 10 64-bit workstation make sure you have installed ALL the following prerequisite software and must be installed to the C:\ drive:

□ <u>Microsoft .NET 4.6.1</u> or higher (installed by default in Win10 64-bit)

□ Java Runtime Environment 1.8 or higher

□ GroupWise Client 7, 8, 2012 or 2014

□ Outlook 2010, 2013, or 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.

Setup - GroupWise To PST I	Vigrator	
Mieroriton	Welcome to the Group PST Migrator Setup W This will install GroupWise To PST Migrato Click Next to continue, or Cancel to exit s	Wise To izard r on your computer. Setup.
	Next	> Cancel

You will need to accept the license agreement to continue.

🕒 Setup - GroupWise To PST Migrator 📃 🔤	•
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
GWAVA Inc.	<u>^</u>
End User License Agreement ("EULA")	
THE FOLLOWING CONSTITUTES THE END USER LICENSE AGREEMENT THAT IS ATTACHED TO THE SOFTWARE THAT YOU ARE ABOUT TO DOWNLOAD.	
BEFORE CLICKING THE "ACCEPT" BUTTON OR USING THE SOFTWARE, PLEASE READ THE FOREGOING TERMS AND CONDITIONS CAREFULLY. BY CLICKING ACCEPT, YOU WILL BE DEEMED, FOR ALL LEGAL PURPOSES, TO HAVE READ,	-
I accept the agreement	
I do not accept the agreement	
< Back Next >	Cancel

The system requirements will be shown.



Select the destination location for this installation.

Setup - GroupWise To PST Migrator	
Select Destination Location Where should GroupWise To PST Migrator be installed?	
Setup will install GroupWise To PST Migrator into the following f	older.
To continue, click Next. If you would like to select a different folder, click	k Browse.
C:\Program Files (x86)\GWAVA\GroupWise To PST Migrator	Browse
At least 18.8 MB of free disk space is required.	
< Back Next >	Cancel

Select the Start menu folder to place the application in.

Setup - GroupWise To PST Migrator	- • 💌
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Star	rt Menu folder.
To continue, click Next. If you would like to select a different folder, cl	ick Browse.
GWAVA\GroupWise To PST Migrator	Browse
Don't create a Start Menu folder	
< Back Next :	> Cancel

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

Setup - GroupWise To PST Migrator	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installin To PST Migrator, then click Next. Additional icons:	g GroupWise
Create a desktop icon	
Create a start menu icon	
< Back Next >	Cancel

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

🕒 Setup - GroupWise To PST Migrator	
Ready to Install Setup is now ready to begin installing GroupWise To PST Migrator on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files (x86)\GWAVA\GroupWise To PST Migrator Start Menu folder: GWAVA\GroupWise To PST Migrator Additional tasks: Additional icons: Create a desktop icon Create a start menu icon	
٠	
< <u>B</u> ack Install Car	ncel

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

🔘 Setup - GroupWise To PST	Migrator	
Migroriton	Completing the Grou Migrator Setup Wiza Setup has finished installing GroupWis your computer. The application may be the installed shortcuts. Click Finish to exit Setup.	pWise To PST rd e To PST Migrator on e launched by selecting
	E	inish

GroupWise To PST Configuration

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

*	GWAVA - GroupWise to PST Migrator	K Menne I
		Settings License About
	MULTI-USER LIVE MIGRATION	
	MULTI-USER ARCHIVE MIGRATION	

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.

🗮 License		
License		
Status	Valid	
Start Date	10/13/2016	
End Date	6/10/2017	
Import OK	Cancel	

Configure Settings

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

GroupWise

×	Settings		×
	GroupWise A	rchive Location PST	
	Post Office IP address	10.1.6.12	
	Post Office Port	1677	
	SOAP Port	7191	
	Admin Username	admin	
	Trusted App Name	МТК	
	Trusted App Key	AC0000BA42C8056BB11F9425B850820EAC00009BC0B61915C5DC95	
	Save Load from File	Save to File Cancel	

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

*	Settings								×
	GroupWise	Arch	nive Loc	ation	PST				
	Archive Location -	Cille	are) adminic	trator FINA		P) Deckto	n) test evno	art for net\ <11serI	
	Root path to archiv	0.105	C:\Users\a	dministrate	r.FINALF	RONTIER	p (test expo	BROWSE	
	✓ Append UserID to Append Sub-Direct	Archive	e Location o UserID						
	Save Load from F	ile Sa	Ne to File	Cancel					

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

Migration Toolkit 4.0



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.

GWAVA - GroupWise to PST Migrator	🏠 Menu 🗙
MULTI-USER LIVE MIGRATION	
MULTI-USER ARCHIVE MIGRATION	

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.

	r Live Data Mi	gration					
Multi-Us	er Live Da	ata Migratio	on				
SELECT ALL	SELECT NONE	LOAD USERS					
Username	Post Office	Domain	Status	Progress	%	Message	
admin	PMPO	PMGWMail	NotStarted		0		
Test1	PMPO	PMGWMail	NotStarted	1	0		
Test2	PMPO	PMGWMail	NotStarted		0		
lest3	PMPO	PMGWMail	NotStarted		0		
lest4	PMPO	PMGWMail	NotStarted	[0		
017-01-06 10: 017-01-06 10: 017-01-06 10: 017-01-06 10: 017-01-06 10: 017-01-06 10:	-58:44,630 INFO -58:48,087 INFO -58:50,536 INFO -58:51,679 INFO -58:51,862 INFO -58:51,877 INFO	- Connecting to GW - Connected to GW - fetched 6 users frr - fetched 6 groupw - Exported 5 users f	V Soap address http Soap address http om SOAP: 00:00:00 om SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191, //10.1.6.12:7191/ 326000 sec 7.488000 sec rrces: 00:00:00 sec	/soap with	n username: admin, tAppName: MTK, tAppKey: 258850810EAC0000BA42C805 username: admin, tAppName: MTK, tAppKey: 258850810EAC0000BA42C805	5BE BB

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.

Multi-Oser	r Archive Migra	ation										-	
Multi-lls	er Archive	Migration											
Multi-05	el Alcilive	- Migracion											
ELECT ALL	SELECT NONE	LOAD USERS											
Jsername	Post Office	Domain	Status	Progress	%	Message							_
dmin	PMPO	PMGWMail	NotStarted		0	1							
est1	PMPO	PMGWMail	NotStarted		0								
est2	PMPO	PMGWMail	NotStarted		0								
est3	PMPO	PMGWMail	NotStarted		0								
est4	PMPO	PMGWMail	NotStarted	1	0								
17.01.05.11.	04-40 022 TNEO	Connection to GM	/ Sono addroce htt	//I016127101	(coop wit		+0N	MTV +App	(our 250)	P50010EAC	0000PA	42000	560
)17-01-06 11: 117-01-06 11:	:04:49,032 INFO - :04:50,482 INFO -	Connecting to GW Connected to GW	/ Soap address http	p://10.1.6.12:7191 x//10.1.6.12:7191/	/soap wit	h username: admin,	tAppName:	: MTK, tAppK MTK, tAppK	(ey: 258 ey: 2588	850810EAC	:0000BA	42C80 42C805	156B
017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11:	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52 10FO	Connecting to GW Connected to GW fetched 6 users fr fetched 0 users fr	/ Soap address htt; Soap address http om SOAP: 00:00:00 m SOAP: 00:00:00	p://10.1.6.12:7191 x//10.1.6.12:7191 //500760 sec 8300830 sec	/soap with	h username: admin, 1 username: admin, 1	tAppName:	: MTK, tAppk MTK, tAppK	Key: 25B ey: 25B8	850810EAC	:0000BA	42C80	156B
017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11:	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52,291 INFO 04:52,291 INFO	Connecting to GW Connected to GW fetched 6 users frr fetched 0 users frr fetched 6 groupw	/ Soap address http Soap address http om SOAP: 00:00:00 om SOAP: 00:00:00	p://10.1.6.12:7191 x//10.1.6.12:7191 ./500760 sec .8390839 sec 	/soap wit	h username: admin, 1 1 username: admin, 1	tAppName tAppName:	: MTK, tAppk MTK, tAppK	(ey: 25B ey: 25B8	850810EAC	0000BA	42C80 42C805	156B
117-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11:	04:49,032 INFO -04:50,482 INFO -04:51,452 INFO -04:52,291 INFO -04:52,291 INFO -04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fr fetched 6 groupw Exported 5 users f	/ Soap address http Soap address http om SOAP: 00:00:00 om SOAP: 00:00:00 ise users and resou ior demo license	p://10.1.6.12:7191 x://10.1.6.12:7191/ .7600760 sec .8390839 sec urces: 00:00:00 sec	/soap wit /soap with	h username: admin, n username: admin, 1	tAppName:	: MTK, tAppK MTK, tAppK	Key: 25B ey: 25B8	850810EAC	0000BA	.42C80 42C805	156B
017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11: 017-01-06 11:	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52,291 INFO 04:52,291 INFO 04:52,294 INFO 04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fra fetched 0 users fra fetched 6 groupw Exported 5 users f	/ Soap address http om SOAP: 00:00:00 om SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191 x://10.1.6.12:7191/ .7600760 sec .8390839 sec urces: 00:00:00 sec	/soap wit 'soap with	h username: admin, 1 i username: admin, 1	tAppName: AppName:	: MTK, tAppК MTK, tAppК	<еу: 25В еу: 25В8	850810EAC	0000BA	42C80 42C805	156B
017-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11: 117-01-06 11:	04:49,032 INFO - 04:50,482 INFO - 04:51,452 INFO - 04:52,291 INFO - 04:52,291 INFO - 04:52,294 INFO -	Connecting to GW Connected to GW fetched 6 users fr fetched 0 users fr fetched 6 groupw Exported 5 users f	V Soap address http Soap address http om SOAP: 00:00:00 m SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191 x//10.1.6.12:7191/ .7600760 sec 3390839 sec urces: 00:00:00 sec	/soap wit 'soap with	h username: admin, t i username: admin, t	tAppName: AppName:	: МТК, tАррК МТК, tАррК	Key: 25B ey: 25B8	850810EAC	:0000BA 0000BA4	42C80 42C805	956B
017-01-06 11: 17-01-06 11: 17-01-06 11: 17-01-06 11: 17-01-06 11: 17-01-06 11:	04:49,032 INFO 04:50,482 INFO 04:51,482 INFO 04:52,291 INFO 04:52,291 INFO 04:52,294 INFO 04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fr fetched 6 groupw Exported 5 users f	/ Soap address htt; Soap address htt; om SOAP: 00:00:00 m SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191 //10.1.6.12:7191 //500760 sec //330839 sec /rces: 00:00:00 sec	/soap wit /soap wit	h username: admin, 1 username: admin, 1	tAppName AppName:	: МТК, tАррК МТК, tАррК	Key: 25B ey: 25B8	850810EAC	0000BA	42C80 42C805	56B
017-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52,291 INFO 04:52,294 INFO 04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fro fetched 0 users fro fetched 6 groupw Exported 5 users f	/ Soap address htt Soap address http om SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191 x//10.1.6.12:7191 x/500760 sec x8390839 sec xrces: 00:00:00 sec	/soap wit /soap wit	h username: admin, 1 username: admin, 1	tAppName AppName:	: МТК, tАррК МТК, tАррК	(ey: 258 ey: 2588	850810EAC	0000BA	42C80	156B
017-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11 17-01-06 11	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52,291 INFO 04:52,291 INFO 04:52,294 INFO 04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fro fetched 0 users fro fetched 6 groupw Exported 5 users f	/ Soap address htt Soap address http om SOAP: 00:00:00 ise Users and resou for demo license	p://10.1.6.12:7191 x//10.1.6.12:7191 x/500760 sec x8390839 sec xrces: 00:00:00 sec	/soap wit 'soap wit!	h username: admin, 1 username: admin, 1	tAppName: AppName:	: МТК, tАррК MTK, tАррК	Кеу: 25В еу: 25В8	850810EAC	0000BA	42C80	56B
017-01-06 11: 117-01-06 11: 117-01-06 11: 017-01-06 11: 117-01-06 11: 117-01-06 11:	04:49,032 INFO 04:50,482 INFO 04:51,452 INFO 04:52,291 INFO 04:52,291 INFO 04:52,294 INFO 04:52,294 INFO	Connecting to GW Connected to GW fetched 6 users fr fetched 0 users fr fetched 6 groupw Exported 5 users f	/ Soap address http Soap address http om SOAP: 00:00:00 om SOAP: 00:00:00 ise users and resou for demo license	p://10.1.6.12:7191 x//10.1.6.12:7191 ./500760 sec .8390839 sec rrces: 00:00:00 sec	/soap wit 'soap wit!	h username: admin, 1 username: admin, 1	tAppName AppName:	: MTK, tAppK MTK, tAppK	Key: 25B ey: 25B8	850810EAC	0000BA	42C80	1568 568E

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.