



BitTitan Migration Playbook: 365 to 365

Prepared by
Nick Ross
Sales Engineer
(nross@pax8.com)



pax8



Table of Contents

Planning Phase 1: Gather All the Necessary Credentials	3
Planning Phase 2: Gather and Audit all Users part of the Migration	3
Planning Phase 3: Define Outage Window	4
Prep Work Phase 1: Push out DMA agent	4
Push out DMA agent via GPO	6
Push out DMA agent via Email	11
Prep Work Phase 2: Prepare Source/Destination for BitTitan	18
Prep Work Phase 3: Setup BitTitan Project	20
Migration Phase 1: Prepare the Source Environment	27
Migration Phase 2: Prepare the Destination Environment	28
Migration Phase 3: Pre-stage Pass	31
Migration Phase 4: Post Migration Cleanup	34



Introduction

Many companies experience mergers in acquisitions in which we need to consolidate accounts. Migrating one Office 365 tenant into another Office 365 tenant requires that you do **PLAN FOR DOWNTIME**. Let's take an example of Parent company A acquiring Child Company B. If you try to add child company B's domain into Parent company A, you will receive an error saying that it already exists in another Microsoft account. For this reason, you must remove your primary domain from one tenant and recreate it in the other tenant. If done correctly, downtime should be limited to **30 minutes**. This is a step-by-step guide for migrating using the tools from BitTitan.

Planning Phase 1: Gather All the Necessary Credentials

1. Credentials Checklist
 - a. Source Office 365 Global Admin Credentials
 - b. Destination Office 365 Global Admin Credentials
 - c. BitTitan credentials
 - d. DNS Login Credentials

Note BitTitan comes with a tool called **Deployment Pro** which re-configures Outlook profiles after the migration. This can be pushed out either through GPO or email. If you are going to be pushing this out via GPO you will additionally need:

- e. Credentials to Remote to Primary DC (RDP, TeamViewer, LogMeIn, Splashtop, etc)
- f. Enterprise Admin Credentials for Primary DC

Planning Phase 2: Gather and audit all Users part of the Migration

1. Gather Users List in CSV format, Export from Source 365 Admin Center
2. You will need to get a list of passwords from Source 365 users or notify them of what their password will be in the Destination 365 tenant account
3. Gather Distribution List with members of Distribution list in CSV format



4. Verify Organizational Units in Active Directory that will be a part of the GPO/AD Sync
5. Take note of any 3rd partner connectors for email filtering: Symantec, Barracuda, etc. Look up necessary steps for creating connectors in 365

Planning Phase 3: Define Outage Window

1. Domain removal/recreation will roughly take 30 min
2. Plan downtime for after hours of business, preferably on the weekend

Prep Work Phase 1: Push out DMA agent

BitTitan comes with a deployment pro agent that automatically reconfigures outlook profiles. This will bring over **autofill settings** and **signatures** for all users. There are two options to push this out:

- a. GPO
- b. Email

Note If we are deploying the agent via GPO, users will just receive a popup asking them to authenticate to reopen outlook after cutover. If we are pushing the agent out via email, users will receive a message in which they will have to click on a link to install the agent on their device



1. Login to the BitTitan Portal and Click All Customers on the left-hand column

The screenshot shows the MSPComplete dashboard. On the left, a sidebar contains a navigation menu with items: provisioning Workgroup, Getting Started (highlighted), Dashboard, Runbooks, Delivery Center, My Tasks, Personal Feed (marked with a red '1'), Reports, All Customers, People, and Settings. The main area has a header with 'Add', 'Feedback', 'Help', and 'Purchase' links. Below the header, it says 'Welcome to MSPComplete' and 'Learn how to build Runbooks and deliver standardized, repeatable, and profitable services with MSPComplete. Follow the below to get started:'. Three cards are displayed: 1. Create Runbooks (with a clipboard icon), 2. Generate Estimates (with a calculator icon), and 3. Runbook Execution (with a rocket icon).

2. Click Add Customer>Fill out Customer Name and primary Domain>Click Save

Add Customer

▼ Customers

Details

Workgroup Name
provisioning Workgroup

@ Primary Email Domain

Company Name

Primary Location (Optional)
Select Country ▼

City (Optional)

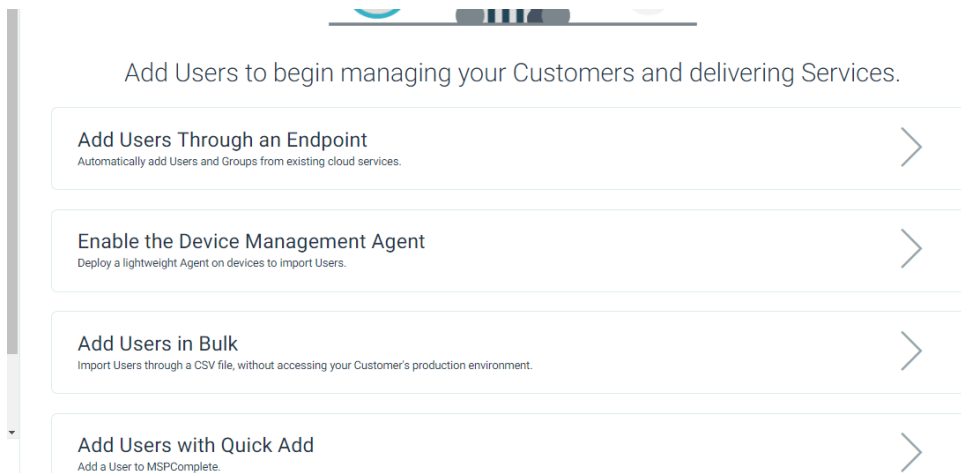
Primary Industry (Optional)
Select Industry ▼

Company Size (Optional)
Select Company Size ▼



Follow Steps **3-15** if you are choosing to deploy the agent via **GPO**

3. Remote into Primary DC
4. Open Browser and Login to BiTitan.com
5. Go to All Customers>View Users on the Customer you created
6. Click “Enable the Device Management Agent”





7. Follow the steps from the following KB Article which walks you through setting up a new share, placing the exe in the share, creating the gpo, and scheduling it to run: <https://help.bittitan.com/hc/en-us/articles/115008110847>

Add Users with a Device Management Agent



By using the Device Management Agent, you agree to comply with BitTitan's User Agreement.

▼ Device Management

Instructions

Installing with a Group Policy Object (GPO).

1. Save the Device Management Agent setup file (i.e., BitTitanDMASetup_60577C0A954BA572_.exe) to a network share folder.
The folder needs to be accessible for all Users on the network.
2. Create a GPO that executes the DMA setup file on an Active Directory Organizational Unit's computers with an immediate scheduled task.

Script Parameters:

[Copy to Clipboard](#)

\\[path-to-

BitTitanDMASetup_60577C0A954BA572_.exe] \BitTitanDMASetup_60577C0A954BA572_.exe




8. Monitor users that successfully have the agent installed by going to Customers>Select customers>Manage>Device Management>Deployment pro

You will need to put in the destination domain and add the 365 endpoint

DeploymentPro

CancelSave and Continue



What is DeploymentPro, and how does it work?

DeploymentPro is a cloud-based solution that remotely configures and manages Users' Outlook profiles.

- To start using DeploymentPro, launch the Device Management Agent.
- Once installed on Users' devices, set up the module to automate the configuration of all Users' Outlook profiles.

[Launch DeploymentPro for UserActivation to View Legacy Projects](#)

Module Configuration

@

Destination Domain Name

The field cannot be left blank.

Select Destination Endpoint

Office365

+

Once users start to login to their computers, their device will be registered and their primary UPN will be listed "Primary Email Address" column

Search Customers

Cardinal Transport

Overview

SERVICE MODULES

HealthCheck for Office 365

DeploymentPro

Customers

Cardinal Transport

Device Management

DeploymentPro

DeploymentPro

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

125	80	1999058
Total Users	Total Devices	Licenses Owned

Schedule Outover



DeploymentPro

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

126 Total Users 80 Total Devices 1999059 Licenses Owned

Schedule Cutover

Sort

Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running	Completed	Error
		Scheduled on Apr 9, 2018 11:30am	0	0	0	1	0
		Scheduled on Apr 7, 2018 12:15pm	0	0	0	1	0
		Scheduled on Apr 7, 2018 9:45am	0	0	0	1	0
		Not scheduled	5	0	0	0	0
		Not scheduled	1	0	0	0	0
		Not scheduled	1	0	0	0	0

9. Users computers will be listed and will have a "heartbeat". Once a user signs into the device their email will be tied to the device in a one to one relationship.

Services Computers

80 Computers

Computer Name ↓	Number of Users	Agent Status
AR-004	1	✓
ARDEB	1	✓
AS400CONSOLE-PC	1	✓
BILLINGSARAH	1	✓
BROKERAGEJD-CR	1	✓
CRDT-AR-DLS	1	?

10. * If a status shows a ? symbol it most likely means the computer has shut off and the tool has been able to find a heartbeat in over 4 hours*

CRDTAPP	2	✓
CRDT-AR-DLS	1	?



11. Once all users have populated with a and have the DMA agent installed, Schedule the cutover date for the agent to run on their computer. (This is after you move the domain from the source office 365 tenant and recreate in destination office 365 tenant)

Schedule DeploymentPro

Schedule for Profile Cutover

This is the date and time scheduled for DeploymentPro to run on your Users' machines. The module will install on their devices at the next heartbeat, and then run silently until:

Select a date.

May 11th, 2018 11:30am

The time specified is (America/Denver).

Subscribed Users (no license required): 1

License Consumption

Users	License per User	Total Licenses Required
1	1	0

User Destination Email

The Destination email address is the email address of the new profile after it has been configured.

Source Email	Destination User Principal Name
	<div><div></div><div>@crtrans.biz</div></div>

Cancel

Schedule Cutover

Note If there are multiple domains involved you will have to go to "settings" in the deployment pro page and change the domain for the users who need the separate domain



12. Once the agent is scheduled successfully, all users should change to a status of "running"

25

Total Users

25

Total Devices

1999059

Licenses Owned

▶

Schedule Cutover

<div><div>☰</div><div>Primary Email Address</div></div>	Destination UPN	Module Status	<div><div><div><div></div></div>Not Started</div><div><div></div><div></div>Scheduled</div><div><div></div><div></div>Running</div></div>		
<div><div>✖</div><div>admin@org.com</div></div>	admin@org.com	Scheduled on Apr 30, 2018 9:15am	0	0	0
<div><div>✖</div><div>admin@org.com</div></div>	admin@org.com	Scheduled on Apr 30, 2018 4:00pm	0	0	0
<div><div>✖</div><div>admin@org.com</div></div>	admin@org.com	Scheduled on Apr 30, 2018 9:15am	1	0	1
<div><div>✖</div><div>admin@org.com</div></div>	admin@org.com	Scheduled on Apr 30, 2018 9:15am	0	0	1

13.If the status does not say "running" but remains in "scheduled" reschedule again until it moves into a **running status**

14.If users are not being picked up with the GPO, troubleshoot with the one remote emote user

- Run Gpresult on their computer to see if the GPO is running
- If the GPO is running, try running the exe manually to see if it is blocked but a firewall setting
- If it is blocked, then create an exception to the firewall to allow the exe to run.
- If it is not being blocked check to see if there are any web proxy settings that may be blocking communication back to BitTitan

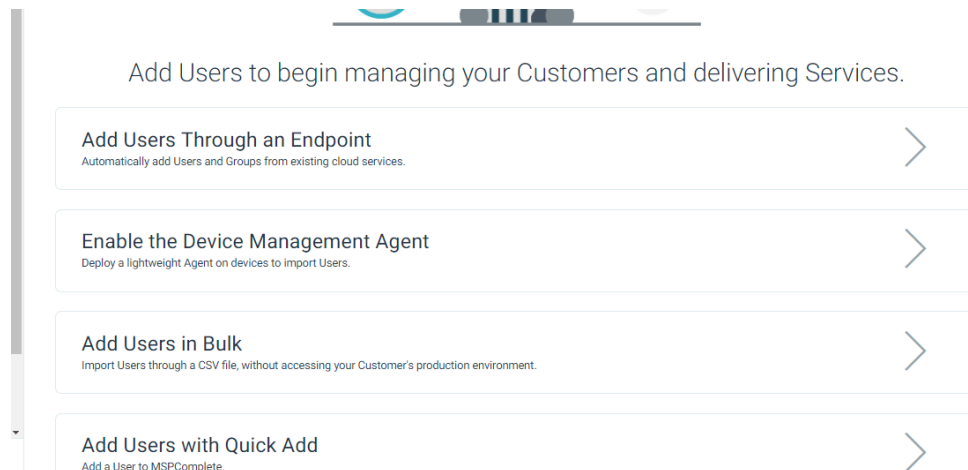
*This completes the steps for setting up DMA via GPO. If you have completed this successfully then move on to the next section. If you are deploying the agent via email, follow steps 16-26.

Deploying DMA via EMAIL

16. In the BitTitan portal, go to All Customers and select the customer you created



17. Click Add Users Through an Endpoint

A screenshot of a web application interface. At the top, there is a header bar with a blue and green logo on the left and a navigation menu with several items. Below the header, a main content area contains a heading "Add Users to begin managing your Customers and delivering Services." followed by four rectangular buttons, each with a title, a description, and a right-pointing chevron icon. The buttons are: "Add Users Through an Endpoint" (description: "Automatically add Users and Groups from existing cloud services."), "Enable the Device Management Agent" (description: "Deploy a lightweight Agent on devices to Import Users."), "Add Users in Bulk" (description: "Import Users through a CSV file, without accessing your Customer's production environment."), and "Add Users with Quick Add" (description: "Add a User to MSPComplete.").

Add Users to begin managing your Customers and delivering Services.

Add Users Through an Endpoint
Automatically add Users and Groups from existing cloud services.

Enable the Device Management Agent
Deploy a lightweight Agent on devices to Import Users.


Add Users in Bulk
Import Users through a CSV file, without accessing your Customer's production environment.

Add Users with Quick Add
Add a User to MSPComplete.

18. Click Manage Endpoint>Add Endpoint



19. Add the Source 365 Endpoint and Provide the Administrative Credentials

 365

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

Details

Endpoint Name

Endpoint Type

Office 365 ▼

☒ **Provide credentials**
Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

☐ **Do not provide credentials.**
If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Administrator Username

Close

Update

Note This will autodiscover users from the Office 365 portal and populate them in the BitTitan portal



20. From here you can select users by checking the box next their name and selecting “Enable Device Management Through Email”

1 Users

Add Users

1 Selected

Apply User Migration Bundle License

Delete Users

Enable Device Management Through Email

	Primary Email Address	User Principal Name	First Name	Last Name	DMA Status	License Expiration
<input checked="" type="checkbox"/>	Demouser@test.com	Demouser@test.com	Demo	User	<div></div>	None

21. Enter a valid email in the “From” section of the template and click Send Email

Enable Device Management Through Email

Device Management Agent

Email details

To change the list of recipients, go back to the Users list and update your selection.

You can use Markdown syntax to format your email. [Click here for help.](#)

To

Demouser@test.com

From

From

Enter email address

Subject

Action required: Install the BitTitan Device Management Agent on your computer.

Enter email subject

-- Insert a placeholder --

Hello {user_first_name},

Important Announcement

We are currently planning a series of updates and improvements to our IT Services.



Note You can white label this email specific to the content you want users to receive. This email is specific to the user and cannot be forwarded to another user for them to click on the link for the exe file. The User Simply clicks on a link to open up a new page and click on one more link to download the exe file

22. Monitor users that successfully have the agent installed by going to Customers>Select customers>Manage>Device Management>Deployment pro

You will need to put in the destination domain and add the 365 endpoint

Once users start to login to their computers, their device will be registered and their primary UPN will be listed "Primary Email Address" column



DeploymentPro

Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. [Read more.](#)

126 Total Users 80 Total Devices 1999059 Licenses Owned

Schedule Cutover

Sort

Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running	Completed	Error
		Scheduled on Apr 9, 2018 11:30am	0	0	0	1	0
		Scheduled on Apr 7, 2018 12:15pm	0	0	0	1	0
		Scheduled on Apr 7, 2018 9:45am	0	0	0	1	0
		Not scheduled	5	0	0	0	0
		Not scheduled	1	0	0	0	0
		Not scheduled	1	0	0	0	0

23. Users computers will be listed and will have a "heartbeat". Once a user signs into the device their email will be tied to the device in a one to one relationship.

Services Computers

80 Computers

Computer Name ↓	Number of Users	Agent Status
AR-004	1	✓
ARDEB	1	✓
AS400CONSOLE-PC	1	✓
BILLINGSARAH	1	✓
BROKERAGEJD-CR	1	✓
CRDT-AR-DLS	1	?

* If a status shows a ? symbol it most likely means the computer is shut down and the tool has been able to find a heartbeat in over 4 hours*

CRDTAPP	2	✓
CRDT-AR-DLS	1	?



24. Once all users have populated with a and have the DMA agent installed, Schedule the cutover date for the agent to run on their computer. (This is after you move the domain to the destination office365 account)

Schedule DeploymentPro

Schedule for Profile Cutover

This is the date and time scheduled for DeploymentPro to run on your Users' machines. The module will install on their devices at the next heartbeat, and then run silently until:

Select a date.

May 11th, 2018 11:30am

The time specified is (America/Denver).

Subscribed Users (no license required): 1

License Consumption

Users	License per User	Total Licenses Required
1	1	0

User Destination Email

The Destination email address is the email address of the new profile after it has been configured.

Source Email	Destination User Principal Name
	<div><div></div><div>@crtrans.biz</div></div>

Cancel

Schedule Cutover

Note If there are multiple domains involved you will have to go to "settings" in the deployment pro page and change the domain for the users who need the separate domain



25. Once the agent is scheduled successfully, all users should change to a status of "running"

25

Total Users

25

Total Devices

1999059

Licenses Owned

▶

Schedule Cutover

<div><div>☰</div><div>Primary Email Address</div></div>	Destination UPN	Module Status	<div><div><div><div></div></div></div><div>Not Started</div></div> <div><div><div><div></div></div></div><div>Scheduled</div></div> <div><div><div><div></div></div></div><div>Running</div></div>		
---	-----------------	---------------	--	--	--

✕ admin@org.com	admin@org.com	Scheduled on Apr 30, 2018 9:15am	0	0	0
✕ admin@org.com	admin@org.com	Scheduled on Apr 30, 2018 4:00pm	0	0	0
✕ admin@org.com	admin@org.com	Scheduled on Apr 30, 2018 9:15am	1	0	1
✕ admin@org.com	admin@org.com	Scheduled on Apr 30, 2018 9:15am	0	0	1

26.If the status does not say "running" but remains in "scheduled" reschedule again until it moves into a running status

Prep Work Phase 2: Prepare Source/Destination for BitTitan

1. Change Send/Receive size in office 365 to max of 150m: <https://help.bittitan.com/hc/en-us/articles/115008108047>

Note Make sure you are still connected to exchange online in powershell

#Change Send/Receive Size#

```
Get-Mailbox | Set-Mailbox -MaxReceiveSize 150MB -MaxSendSize 150MB
```

2. Set Impersonation on Source and Destination. This will allow you to use admin creds to impersonate all mailboxes. With this in place you will not need creds for all individual users



Note You will have to connect to the Source 365 tenancy and 365 tenancy separately in powershell and run these commands in each session

#Setting Impersonation#

```
Set-ExecutionPolicy Unrestricted
```

```
$LiveCred = Get-Credential
```

```
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri  
https://ps.outlook.com/powershell/ -Credential $LiveCred -Authentication Basic -  
AllowRedirection
```

```
Import-PSSession $Session
```

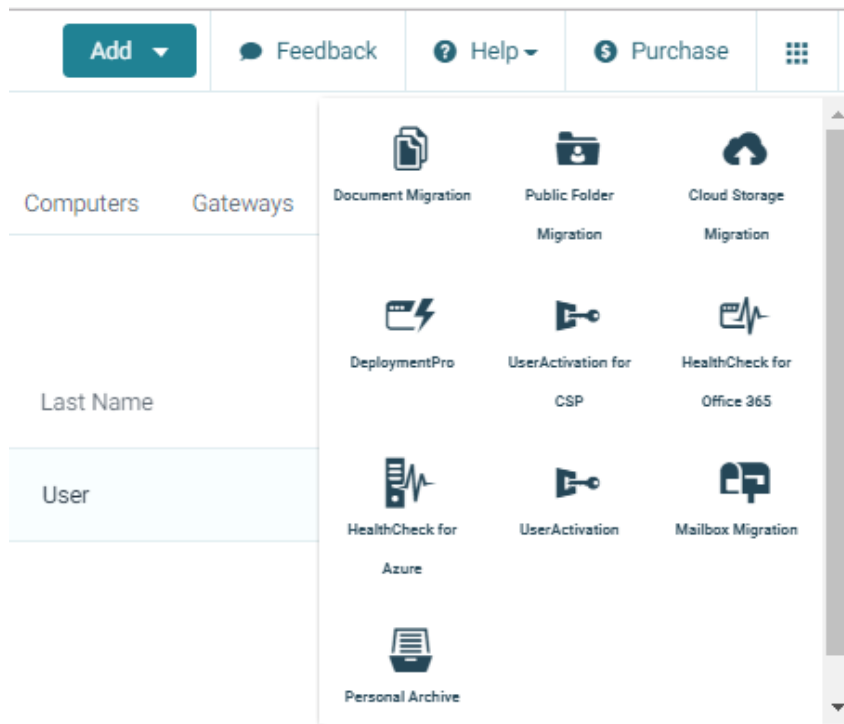
```
Enable-OrganizationCustomization
```

```
New-ManagementRoleAssignment -Role "ApplicationImpersonation" -User admin@domain.com
```



Prep Work Phase 3: Setup BitTitan Project

1. In BitTitan Portal, Open MigrationWiz by clicking on waffle icon at top of the page>Click Mailbox Migration





2. Click Create Project>Select Mailbox Project

PROJECT TYPE

Select a Project Type:

<input checked="" type="radio"/> Create a Mailbox Project With Mailbox Projects, automatically migrate data related to the User mailbox. With most configurations you can migrate email, calendars, contact...		<input type="radio"/> Create a Document Project With Document Projects, automatically transfer all your data (including your entire folder hierarchy) from one cloud storage solution to anothe...	
<input type="radio"/> Create a Public Folder Project Public Folder Projects fully automate the migration process of moving Public Folders, including Public Folder structure and permissions, from one...		<input type="radio"/> Create a Personal Archive Project With Personal Archives, you can automatically migrate all of your archived...	
<input type="radio"/> Create an Archive Migration Service Project With Archive Migration Services, you can migrate large-scale, enterprise-level archived...		<input type="radio"/> Create a Cloud Storage Project With Cloud Storage Projects, migrate large-scale and unstructured...	
<input type="radio"/> Create a Collaboration Project With Collaboration Projects, you can automatically migrate data from one collaboration platform to...		<input type="radio"/> Create A Database Project Database Projects enable you to migrate on-premises Microsoft SQL Server 2005 and later to Microsoft SQL Server 2012 and later, as well as Microsoft...	

3. Name the Project and select your customer from the dropdown>Click Next Step

PROJECT INFORMATION

Mailbox
With Mailbox Projects, automatically migrate data related to the User mailbox. With most configurations you can migrate email, calendars, contacts, journals, tasks, and notes.

Project Name*

Customer*

4. If you followed the steps for email deployment for the DMA agent you should be able to select your endpoint from the dropdown. If you did not, Select New and fill out the fields as shown below:



365

Endpoints

Endpoints are sets of credentials that allow MSPComplete to establish a connection to a server or Service (like an Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

Details

Endpoint Name

365

Endpoint Type

Office 365

☒ Provide credentials

Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

☐ Do not provide credentials.

If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Administrator Username


Enter an administrator username

Close

Update



5. In the Destination Settings, Click New, and add the 365 endpoint. Providing the admin credentials



New Endpoint

Exchange server, Office 365, etc.). Endpoints can be reused for projects across all BitTitan products, and are managed from the Customer Dashboard. Endpoints allow you to perform migrations, the discovery of Users and Groups, and administrative action.

[Learn About Adding Endpoints](#)

Details

Endpoint Name

If you don't know your Server Type, click the button:

[+ Find My Service Provider](#)

Endpoint Type

Office 365 ▼

☒ **Provide credentials**
Providing credentials at the endpoint level allows you to have a centralized set of credentials that can be used across BitTitan products.

☐ **Do not provide credentials.**
If credentials are not provided at the endpoint level, you will need to provide per-user credentials when using the endpoint as part of your projects.

Administrator Username



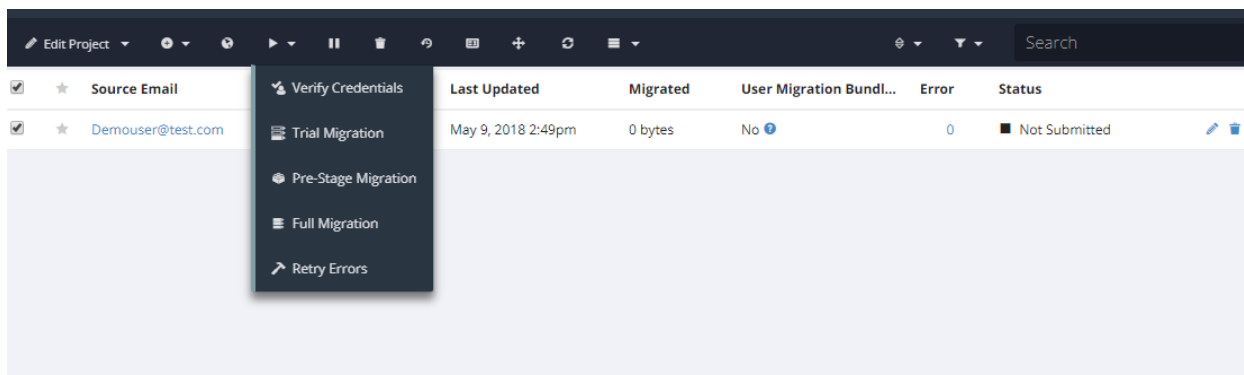
6. Click “Save and Go to Summary” This tells you whats eligible to move and give you additional KB articles you can reference:

7. Add items to your project. If you already added users to the MSP complete portal either through GPO or an endpoint. You can select “Add from MSP Complete”. If you have not yet, then you can select Autodiscover items to import users to the portal



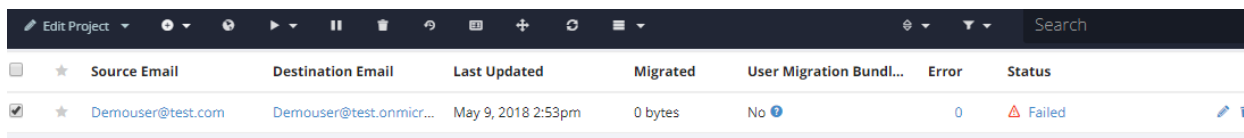
8. Audit User names and Domains (Make sure they match 365), Cleanup userlist. Source should have the domain.onmicrosoft.com format and the destination should match the domain.com format

9. Select All Users>Verify Credentials

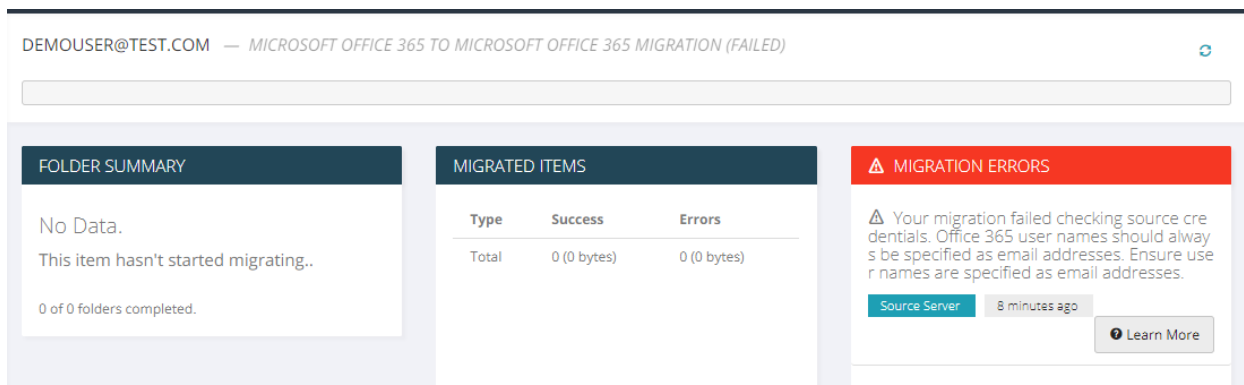


10. There are numerous errors that could appear here. Most of the steps I made for prep work will make it so that you avoid most of these errors. Refer to BitTitans KB articles for most common errors and how to troubleshoot. <https://help.bittitan.com/hc/en-us/sections/115003465187-Mailbox-Error-Lookup?page=2>

Unsuccessful verification will show a “Failed” Message



You can click on the Failed icon to show a detailed message of what failed





Click on “Learn More” to access BitTitan’s Relevant kb articles specific to the error:

OFFICE 365 USER NAMES SHOULD ALWAYS BE SPECIFIED AS EMAIL ADDRESSES

[Open In New Window](#)

Office 365 user names should always be specified as email addresses: This error indicates that the specified Office 365 user name is invalid. Office 365 requires users to log in with an email address, not a user name as in "John Doe" or "domain\johndoe".

Resolution:

We recommend the following:

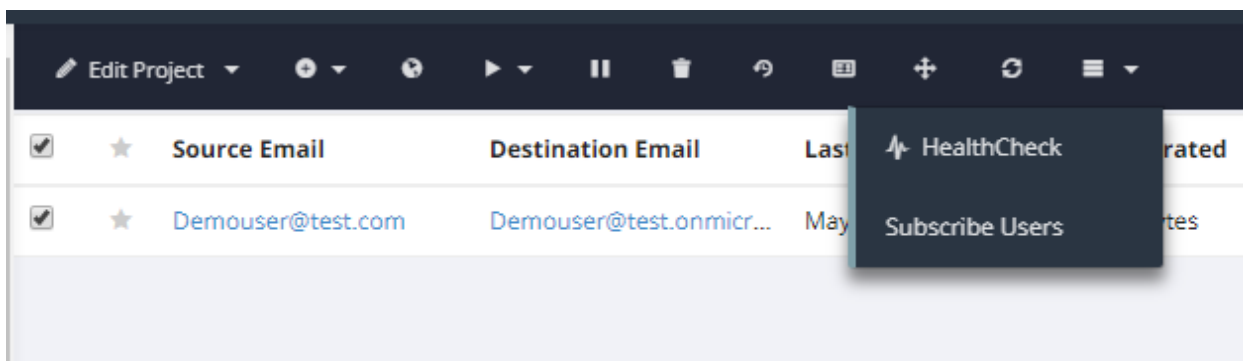
1. If using administrative credentials for Office 365, check the admin user name specified on your project.
2. If not using administrative credentials for Office 365, check the mailbox owner user name specified on the mailbox.
3. In all cases, make sure the user name work when logging in at <https://login.microsoftonline.com>.

[Close](#)

Successful Verification will show a “Completed(Verification)” message

<input type="checkbox"/>	★	Source Email	Destination Email	Last Updated	Migrated	User Migration Bundl...	Error	Status
<input checked="" type="checkbox"/>	★	accounts-payable@vel...	accounts-payable@vel...	May 9, 2018 2:52pm	267.17 KB	No	0	✓ Completed (Verifica...

11. After all users have successfully completed verification, Select All users>Click on the Hamburger icon at the top of the toolbar> Click Subscribe Users





12. This will bring you back to the MSP complete portal. Select all users>Click Apply User Migration Bundle

1 Users

1 Selected

Apply User Migration Bundle License

Delete Users

Enable Device Management Through Email

<div></div>	Primary Email Address	User Principal Name	First Name	Last Name	DMA Status
<div></div>	Demouser@test.com	Demouser@test.com	Demo	User	<div></div>

13. This takes a couple of minutes to propagate but after, in the migrationwiz portal the “User Migration Bundle” column will change from “No” to “Yes”

User Migration Bundl...

Yes

Migration Phase 1: Prepare the Source Environment

1. Login to the Source Tenant's 365 Admin Center
2. Bulk Update all Users primary UPN to .onmicrosoft.com domain

#Bulk Changing UPNs#

```
$UserCredential = Get-Credential
Connect-MsolService -Credential $UserCredential
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri
https://outlook.office365.com/powershell-liveid/ -Credential $UserCredential -
Authentication Basic -AllowRedirection
Import-PSSession $Session -AllowClobber
$testpath = test-path c:\temp; If ($testpath -eq $false) {new-item -type directory
c:\temp}; $dataout = @();
Get-MsolUser -All | ? {$_ .UserPrincipalName -match "domain.com" } | % {Set-
MsolUserPrincipalName -ObjectId $_.objectId -NewUserPrincipalName
($_.UserPrincipalName.Split("@")[0] + "@domain.onmicrosoft.com"); $dataout +=
"$($_.UserPrincipalName)" ; $_.UserPrincipalName }; $dataout | out-file
c:\temp\UPNChangeOutput.txt
```



Note Change variables “Domain.com” and “Domain.onmicrosoft.com” to match your environment

3. Remove all alias with the domain

#Remove Domain From Alias#

```
$Records = Get-mailbox -ResultSize Unlimited | where {$_.emailaddresses -like "smtp:*@domain.com"} | Select-Object DisplayName,@{Name="EmailAddresses";Expression={$_.EmailAddresses |Where-Object {$_-like "smtp:*domain.com"}}}

foreach ($record in $Records)
{
    write-host "Removing Alias" $record.EmailAddresses "for" $record.DisplayName
    Set-Mailbox $record.DisplayName -EmailAddresses @{Remove=$record.EmailAddresses}
}
```

*** Note*** Replace “Smtpp:*domain.com” with the alias in your environment

4. Remove All Groups with the Domain

#Remove Groups with Domain#

```
Get-MsolGroup -all | ?{$_.emailaddress -match "domain.com"} | Remove-MsolGroup -force
```

5. Remove Domain

- a. The portal will notify you if there are any users/groups who still have the domain attached to their profile

Migration Phase 2: Prepare the Destination Environment

1. In the 365 Admin Center, Go to Setup>Domains>Add Domains



2. Add the domain and verify with a TXT record (NOTE: This can take up to 5 min of propagation time after you remove the domain from the source tenant)
3. Bulk Import Users from Source Tenant (Powershell, CSV Import)

#Connecting to Exchange Online Account#

```
$credential = Get-Credential

Import-Module MsOnline
Connect-MsolService -Credential $credential

$exchangeSession = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri
"https://outlook.office365.com/powershell-liveid/" -Credential $credential -Authentication
"Basic" -AllowRedirection
Import-PSSession $exchangeSession -DisableNameChecking
```

Create a CSV with the Following Headers:

- UserPrincipalName
- FirstName
- LastName
- DisplayName
- Password

#Bulk Import Users with Passwords#

```
Import-Csv -Path 'FilePath' | foreach {New-MsolUser -UserPrincipalName
$_.UserPrincipalName -FirstName $_.FirstName -LastName $_.LastName -DisplayName
$_.DisplayName -Password $_.Password -ForceChangePassword $False}
```

4. Assign Licenses to Users



5. Bulk Import Alias'

#Add Alias to Users#

```
$LiveCred = Get-Credential
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -Connecti
dential $LiveCred -Authentication Basic -AllowRedirection
Import-PSSession $Session
$users = Get-Mailbox
foreach ($a in $users) {$a.emailaddresses.Add("$($a.alias)@domain.com")
$users | %{Set-Mailbox $_.Identity -EmailAddresses $_.EmailAddresses}
```

6. Bulk Import Distribution Lists with Members

#Add Distribution Lists with Members#

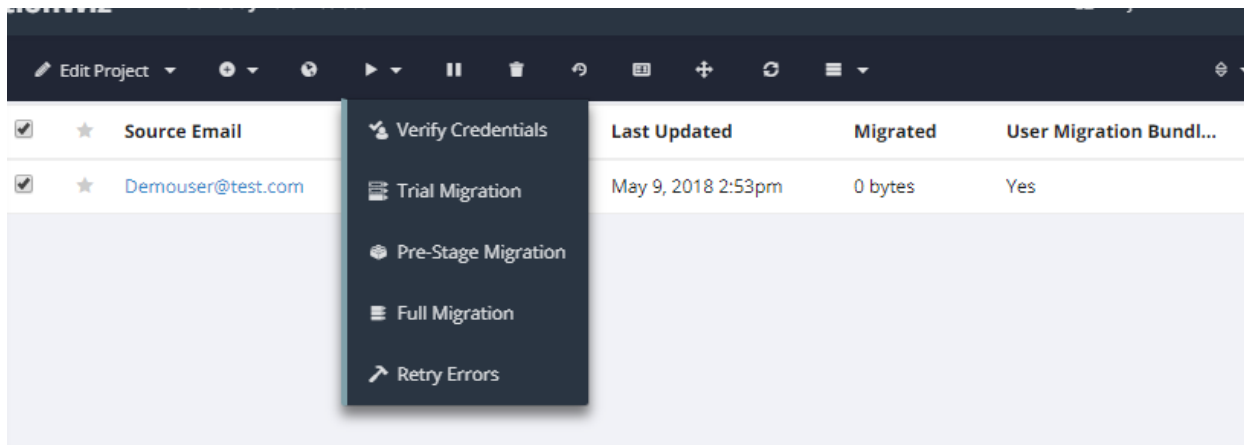
```
Import-Csv -Path 'File Path.csv' | foreach {New-
Distributiongroup -Name $_.Name -PrimarySmtpAddress $_.Address
}

Import-Csv 'File Path.csv' | foreach {Add-
DistributionGroupMember
-Identity $_.DL -Member $_.Alias}
```



Migration Phase 3: Pre-stage Pass

1. Select All Users>Click on the start button>Pre-stage Pass



3. Select a time range from the dropdown of prior to 90 days>Start Migration

Start Pre-Stage Migration

Migrate older items, in preparation of a later final switch to your new system. Older items are migrated because they do not change, but typically represent the majority of the data. Use this type of migration before MX record cutover. Fill the mailbox with older email; this reduces the amount of data to migrate after cutover.

1 Items Selected

0 Cannot Migrate

0 will migration using licenses.

1 will migrate using subscriptions.

Select what you want to migrate: ?

☐ Remember my selection for this Project.

☒ Mail

Migration Scheduling

Migrate items with a date that is earlier than the specified date. ?

90 Days Ago

☐ Automatically start the migration at ?

Cancel

Start Migration



4. This will give you a status bar and show the amount of data moved over in the “bytes” column. If any users fail, it’s usually do to server timeout. Simply rerun the pre-stage pass on these users to restart where it left off. If you click on any user’s name, you can see metrics like upload speeds:

MIGRATION HISTORY

Verify Credentials

✓ Success a few seconds

Start: May 9, 2018 2:51pm

End: May 9, 2018 2:52pm

Full Migration

✓ Success 3 minutes

Start: May 8, 2018 6:51am

End: May 8, 2018 6:55am

Full Migration

✓ Success 2 minutes

Start: May 7, 2018 8:11pm

End: May 7, 2018 8:13pm

Full Migration

✓ Success 2 minutes

DURATION AND SPEED

Statistic	Source	Destination
Active Duration	6 minutes	a few seconds
Passive Duration	Less than a second	6 minutes
Data Speed	3 MB/hr	146 MB/hr
Item Speed	97 items/hr	5,597 items/hr

Performance Analysis

5. Once the pre-stage migration has run for all users and is in a "Completed" Status

		May 8, 2018 6:53am	441.16 MB	No	0	✓ Completed	
		May 8, 2018 6:53am	506.66 MB	No	0	✓ Completed	
		May 8, 2018 6:53am	6.09 GB	No	23	✓ Completed	
		May 8, 2018 6:52am	29.49 MB	No	0	✓ Completed	
		May 8, 2018 6:57am	25.17 GB	No	31	✓ Completed	

6. Next we are going to perform a full migration to bring over copies of remaining mail plus calendars, contacts, notes, journals, rules. Select All users>Click on the start button>Full Migration

Edit Project

Verify Credentials

Trial Migration

Pre-Stage Migration

Full Migration

Retry Errors

Source Email	Last Updated	Migrated	User Migration Bundl...
Demouser@test.com	May 9, 2018 2:53pm	0 bytes	Yes



7. You can schedule this to start at a specific time if you would like:

▶ Start Full Migration

What is a Full Migration? ?
Use this type of migration for Big Bang (Single-Pass) Migrations, or for following an earlier Pre-Stage Migration.
Use this after MX record cutover to make sure you are not missing any data.

1 Items Selected

0 Cannot Migrate

0 will migration using licenses.

1 will migrate using subscriptions.

Select what you want to migrate: ?☐ Remember my selection for this Project.

☒ Contacts

☒ Calendars

☒ Mail

☒ Journals

☒ Notes

☒ Tasks

☒ Rules

Migration Scheduling

☒ Automatically start the migration at ?

May ▼

10 ▼

2018 ▼

0 ▼

0 ▼

(Local Time)

✕ Cancel

✓ Start Migration

8. Confirm all users go into a "Completed" Status



Migration Phase 4: Post Migration Cleanup

1. Run a Full Pass again on all users (This will run a delta sync to collect any residual mail)
2. Audit Destination Environment Mailflow for Inbound/Outbound Mail
3. Login to BitTitan>Go to All customers>Select customer>Manage>Device Management>Deployment Pro
4. Once users authenticate to DMA agent on their computer by putting in their 365 password, the DMA status will move into "Completed" status. If in "error" status it means the users failed authentication 3x. Reschedule the tool to run at the next time interval available.

For more info, check out this KB article on end user experience with Deployment Pro:

<https://help.bittitan.com/hc/en-us/articles/115008111167-What-is-the-end-user-experience-when-DeploymentPro-reconfigures-their-Outlook-profile->

The screenshot shows the BitTitan DeploymentPro interface. At the top, there's a breadcrumb trail: Home > Customers > CEI > Device Management > DeploymentPro. Below this, the title 'DeploymentPro' is displayed with a 'Settings' button. A message states: 'Use BitTitan PowerShell to schedule DeploymentPro for a large number of mailboxes. Read more.' Below the message, three summary statistics are shown: 11 Total Users, 11 Total Devices, and 1999059 Licenses Owned. A 'Schedule Cutover' button is present. The main table has columns for Primary Email Address, Destination UPN, Module Status, and a progress bar. The progress bar shows five stages: Not Started (grey), Scheduled (blue), Running (orange), Completed (green), and Error (red). The table contains six rows of data, all showing 'Scheduled' status with a count of 0 for 'Not Started', 'Scheduled', and 'Running', and a count of 1 for 'Completed'.

Primary Email Address	Destination UPN	Module Status	Not Started	Scheduled	Running	Completed	Error
[redacted]	[redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0
[redacted]	[redacted]	Scheduled on May 7, 2018 11:00am	0	0	0	1	0
[redacted]	[redacted]	Scheduled on May 7, 2018 11:00am	0	0	0	1	0
[redacted]	[redacted]	Scheduled on May 7, 2018 11:00pm	0	0	0	1	0
[redacted]	[redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0
[redacted]	[redacted]	Scheduled on May 4, 2018 1:00pm	0	0	0	1	0



6. Send out guides on configuring mail on Iphone/Android:

<https://support.office.com/en-us/article/set-up-email-using-the-ios-mail-app-7e5b180f-bc8f-45cc-8da1-5cefc1e633d1>

<https://support.office.com/en-us/article/set-up-email-in-android-email-app-71147974-7>

7. Perform any account clean up that is required