

TECHNICAL REFERENCE GUIDE

SmartCloud Notes → Microsoft Office 365

(Admin Authentication)



EXECUTIVE SUMMARY

This *Technical Reference Guide* provides detailed information about how to migrate multiple user mailboxes from **SmartCloud Notes** to **Microsoft Office 365** using administrator authentication.

It contains recommendations about preparing the Source and Target message platforms/servers to ensure the proper authentication permissions are in place, which eliminates the reliance on individual user ID files and passwords.

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Section 1: Overview

This document is intended to help administrators migrate their organization's data from SmartCloud Notes to Microsoft 365 using Transend Migrator.

If you would like assistance planning and performing your migration, please contact Transend Services at services@transend.com.

Terminology

As we move through the example, we'll use a few key terms that concisely describe larger concepts.

- **Migration workstation.** This is a system or set of systems from which you will run the migration. Every migration must use at least one migration workstation. Migration workstations can range from your laptop to a spare computer in your datacenter to a dedicated virtual machine in the cloud.
- **Migration ID.** This is the Notes ID you will use to access each user's mail file in SmartCloud Notes. It can be your own admin ID file or another ID created just for the migration.
- **Impersonation account.** This is the account you will use to access each user's mailbox in Microsoft 365. This account must be given the *Application_Impersonation* role to all user mailboxes.

Limitations with Encryption

Because you will use a common migration ID to access user mail files, any data that has been encrypted by keys stored in a user's own ID will not migrate. To migrate encrypted data, users must perform an end-user migration, and Transend has options to customize Transend Migrator to make it easier for end-users to self-migrate and capture that encrypted data.

Custom Build to Support Encryption

If interested, Transend is able to customize Transend Migrator for your end-user driven migration to capture that encrypted data. This customized version of Transend Migrator can be extremely easy to use for end-users, with most of the configuration information hard coded under the hood. It usually simply requires a few clicks by the end-users to migrate their data into their Office 365 account.

Prerequisites

To follow along, you'll need the following:

1. A recent version of the Notes client installed on your migration workstation(s). The exact version isn't important if it is at least 9.0.1 FP8.
2. The latest version of Transend Migrator installed on your migration workstation(s).
3. User accounts must exist in Microsoft 365.
4. An impersonation account must be created in Microsoft 365.
5. A list of users to migrate in CSV format, with the following format:
 - a. Name
 - b. Location of mail file
 - c. Canonical Notes name
 - d. Microsoft 365 email address

The example CSV file we'll be using looks like this:

```
Test User1,Mail29/TMCCDom!!data1/1001284305/1001292531.nsf,CN=Test User1/O=TMCCDom,tuser1@transend.com
Test User2,Mail31/TMCCDom!!data2/1001284305/1001292532.nsf,CN=Test User2/O=TMCCDom,tuser2@transend.com
Test User3,Mail41/TMCCDom!!data0/1001284305/1001292533.nsf,CN=Test User3/O=TMCCDom,tuser3@transend.com
```

If you are using SmartCloud Notes in the **Hybrid** configuration, you can retrieve this information from your local Domino Directory. If you are using SmartCloud Notes in the **Service-Only** configuration, you'll need to request an LDIF export of your directory data from HCL Support.

Section 2: Configuration

Step 1 – Configure Notes

If you already have a Notes client configured to connect to SmartCloud Notes, you can skip this step. Otherwise, you'll need to download the SmartCloud Notes config file from <https://admin.notes.na.collabserv.com/liveNotes.nsf/downloadStart.xsp>. Update the datacenter portion of the URL if required. After downloading it, open it in Notes and follow the prompts to join SmartCloud Notes.

Step 2 – Add migration ID to user ACLs

To allow your migration ID to access user mail files in SmartCloud Notes, you'll need to run a batch request to add it to all ACLs.

1. Log into the SmartCloud Notes Administration portal at <https://admin.notes.na.collabserv.com/liveAdmin.nsf/home.xsp>. Update the datacenter portion of the URL if required.
2. Navigate to **Users > Batch Request**.
3. Enter the migration ID as shown and click the *Process* button.

Home

Users & Groups

All Users

Deleted Users

All Groups

Batch Request

Batch Request Status

Batch Request

Select the operation, select which users it applies to, provide any additional information, and click Process to begin. Use the Batch Request Status screen to track progress of these requests. [Learn More](#)

Operation: ☒ Access control

Description:

Apply to: ☒ All users ☐ Users in a group

Access Control List entries:

Entry type:	Name:	Access level:	
Person	Migration/TMCCDom	Editor	<input type="checkbox"/> Remove
-Select type-		-Select one-	<input type="checkbox"/> Remove
-Select type-		-Select one-	<input type="checkbox"/> Remove
-Select type-		-Select one-	<input type="checkbox"/> Remove

[Cancel](#)

4. Monitor the progress of the batch request using the **Batch Request Status** view. It must have a status of Done before you can perform the migration, but you can continue with the other steps below while it is in progress.

Step 3 – Configure Transend Migrator

To ensure a successful migration from SmartCloud Notes to Microsoft 365, you'll want to configure some options in the Transend Migrator client.

1. Open Transend Migrator.

Edit License

2. Choose **Edit License** and enter your license information.

Custom Options

3. Choose **Migration Options > Custom Options**. Use the Search field to locate and enable the options that follow. Note that some options have values that include \$Var#. For example, C:\ProgramData\Transend\Var4.dup. These are substitution variables and should be entered as shown. During the migration, the substitution variables are replaced by actual user data from the user list CSV.

➤ General

- Create Separate Con/Cal/Task Folders (/D219)
- Deduping Criteria (/D56 BSDNRFHU)
- HTTP Post Timeout (/POSTTO 5:1:3)
- Migrate Unique Items (/DEDUP C:\ProgramData\Transend\Var4.dup)
- Deduping File Writes (/D165)
- Recurring Calendar Entries (/D127)
- Winmail.dat Parsing Off (/D148)

➤ Filters

- Max Attachment Size (/MAXATTACHSIZE 35000)
- Max Message Size (/MAXMSGSIZE 150000)
- Detach Attachments (/DETACH C:\ProgramData\Transend\Var4)

➤ **Logging/Reporting**

- Log In Text Format (/LTEXT)
- Log Files (/LFILES)
- Log Subjects (/LSUB)
- Debug Logging (/DEBUG)

➤ **Exchange Web Services**

- Allow Calendar Organizer/Attendee Information (/D308 NOSTUB)
- EWS Impersonation, Target (/AUTHESI2
IMPERSONATION_ACCOUNT@YOUR_M365_DOMAIN/IMPERSONATION_ACCOUNT_PASSWORD)

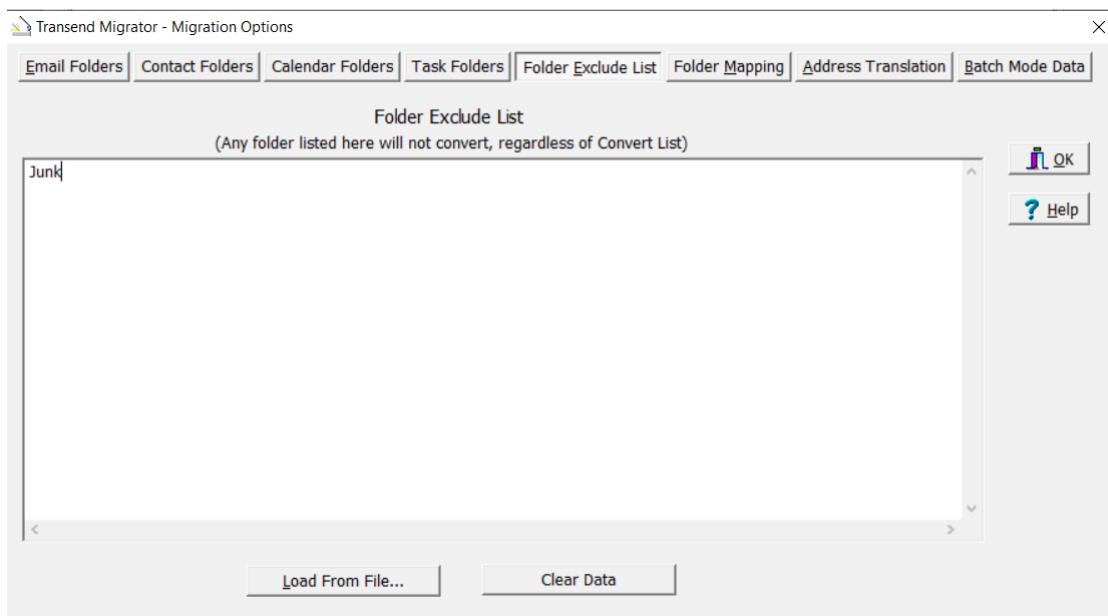
➤ **Lotus Notes**

- Appointments (/D138)
- Decrypt Attachments (/D278)
- Encrypted Messages (/D76)
- Export Universal ID (/UNID)
- Maximum Annual Occurrences (/D268 100)
- Show Private (/SHOWPRIVATE)
- Universal ID Logging (/D111)
- Unread Table User (/D260 \$Var3)

Exclude Junk Folder

4. Choose **Migration Options > Folder Exclude List**.

Add the *Junk* folder as shown:



Folder Mapping

5. Choose **Migration Options > Folder Mapping**.

Add the folder mappings as shown:

Transend Migrator - Migration Options

Email Folders | Contact Folders | Calendar Folders | Task Folders | Folder Exclude List | **Folder Mapping** | Address Translation | Batch Mode Data

Folder Mapping

Original Folder Name	New Folder Name
Inbox	Inbox/
Drafts	Drafts/
Sent	Sent Items/
Junk	Junk Email/
Junk E-mail	Junk Email/
Trash	Deleted Items/

Current Line: 6

Load From File... Clear Data

OK Help



6. Choose **Migration Options > Address Translation**.

Address translation is a critical component of a migration from SmartCloud Notes because Notes addresses cannot be processed by Microsoft 365. The screenshot below shows the main formats you'll encounter in Notes. You'll need to add each format for every user. If adding these for each user is not feasible, you have two options:

- Add as many formats as you can, understanding that formats that are not added to the table will not be converted during the migration. This may result in some messages not being routable in Microsoft 365.
- Contact Transend Services for help in building a translation table.

Transend Migrator - Migration Options

Email Folders | Contact Folders | Calendar Folders | Task Folders | Folder Exclude List | Folder Mapping | **Address Translation** | Batch Mode Data

Translation Table

Old Address	New Address
CN=Test User1/O=TMCCDom@TMCCDom	tuser1@transend.com
CN=Test User1/O=TMCCDom	tuser1@transend.com
Test User1/TMCCDom@TMCCDom	tuser1@transend.com
Test User1/TMCCDom	tuser1@transend.com
CN=Test User2/O=TMCCDom@TMCCDom	tuser2@transend.com
CN=Test User2/O=TMCCDom	tuser2@transend.com
Test User2/TMCCDom@TMCCDom	tuser2@transend.com
Test User2/TMCCDom	tuser2@transend.com
CN=Test User3/O=TMCCDom@TMCCDom	tuser3@transend.com
CN=Test User3/O=TMCCDom	tuser3@transend.com
Test User3/TMCCDom@TMCCDom	tuser3@transend.com

Current Line: 12 Load From File... Clear Data

OK Help

Configure Main Interface

- From the main screen of the Transend Migration client, click **E-Mail** and enter the information as shown, replacing the Password field with your migration ID password and ID path. Note that this field expects data in PASSWORD;USERID format. Repeat for **Address Book**, **Calendar** and **Task/To Do**.

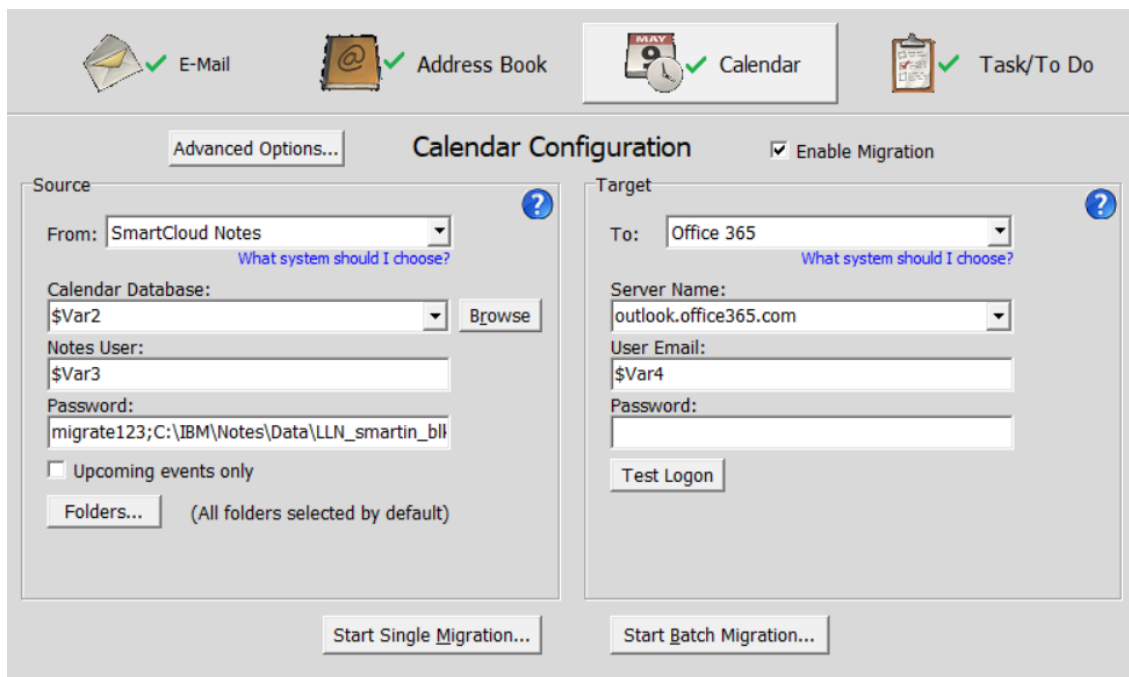
Email configuration:

The screenshot shows the 'E-Mail Configuration' window. At the top, there are four icons with checkmarks: E-Mail, Address Book, Calendar, and Task/To Do. The 'E-Mail Configuration' window has a title bar with 'Advanced Options...' and 'E-Mail Configuration'. Below the title bar, there is a checkbox for 'Enable Migration' which is checked. The window is divided into two main sections: 'Source' and 'Target'. The 'Source' section has a 'From:' dropdown set to 'SmartCloud Notes', a 'Mail Database:' dropdown set to '\$Var2' with a 'Browse' button, a 'Notes User:' text field set to '\$Var3', and a 'Password:' text field set to 'migrate123;C:\IBM\Notes\Data\LLN_smartn_bll'. There is also a 'Shared Folders' checkbox which is checked, and a 'Folders...' button. The 'Target' section has a 'To:' dropdown set to 'Office 365', a 'Server Name:' dropdown set to 'outlook.office365.com', a 'User Email:' text field set to '\$Var4', and a 'Password:' text field. There is a 'Test Logon' button. At the bottom, there are two buttons: 'Start Single Migration...' and 'Start Batch Migration...'.

Address Book configuration:

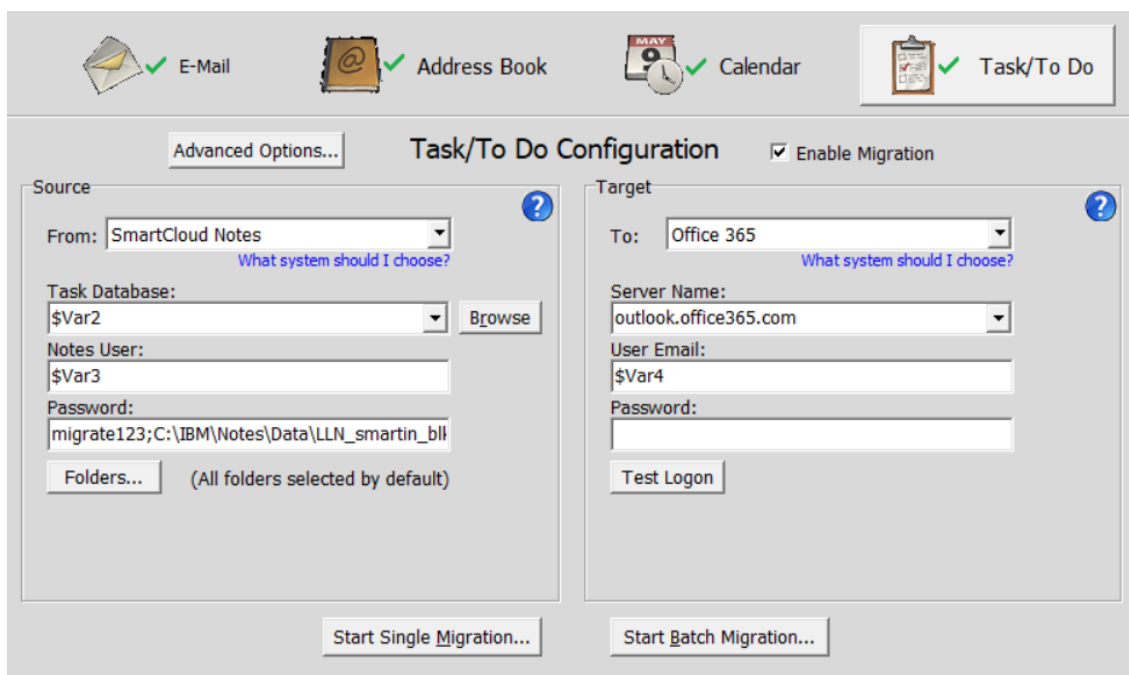
The screenshot shows the 'Address Book Configuration' window. At the top, there are four icons with checkmarks: E-Mail, Address Book, Calendar, and Task/To Do. The 'Address Book Configuration' window has a title bar with 'Advanced Options...' and 'Address Book Configuration'. Below the title bar, there is a checkbox for 'Enable Migration' which is checked. The window is divided into two main sections: 'Source' and 'Target'. The 'Source' section has a 'From:' dropdown set to 'SmartCloud Notes', a 'Name Database:' dropdown set to '\$Var2' with a 'Browse' button, a 'Notes User:' text field set to '\$Var3', and a 'Password:' text field set to 'migrate123;C:\IBM\Notes\Data\LLN_smartn_bll'. There is also a 'Folders...' button. The 'Target' section has a 'To:' dropdown set to 'Office 365', a 'Server Name:' dropdown set to 'outlook.office365.com', a 'User Email:' text field set to '\$Var4', and a 'Password:' text field. There is a 'Test Logon' button. At the bottom, there are two buttons: 'Start Single Migration...' and 'Start Batch Migration...'.

Calendar configuration:



The Calendar Configuration window is part of a larger application with a top bar containing icons for E-Mail, Address Book, Calendar, and Task/To Do. The main title is "Calendar Configuration" with a sub-tab "Advanced Options...". A checkbox "Enable Migration" is checked. The window is divided into "Source" and "Target" sections, each with a help icon (?). The Source section includes a "From:" dropdown (SmartCloud Notes), a "Calendar Database:" dropdown (\$Var2) with a "Browse" button, "Notes User:" (\$Var3), "Password:" (migrate123;C:\IBM\Notes\Data\LLN_smartin_bll), and an unchecked "Upcoming events only" checkbox. A "Folders..." button is present with the text "(All folders selected by default)". The Target section includes a "To:" dropdown (Office 365), a "Server Name:" dropdown (outlook.office365.com), "User Email:" (\$Var4), and "Password:". A "Test Logon" button is at the bottom of the Target section. At the bottom of the window are "Start Single Migration..." and "Start Batch Migration..." buttons.

Tasks/To Do configuration:



The Task/To Do Configuration window is part of the same application as the Calendar configuration window. It has the same top bar and main title "Task/To Do Configuration" with the "Advanced Options..." sub-tab. The "Enable Migration" checkbox is checked. The layout is identical to the Calendar configuration window, with "Source" and "Target" sections. The Source section includes a "Task Database:" dropdown (\$Var2) with a "Browse" button, "Notes User:" (\$Var3), "Password:" (migrate123;C:\IBM\Notes\Data\LLN_smartin_bll), and an unchecked "Upcoming events only" checkbox. The Target section includes a "Server Name:" dropdown (outlook.office365.com), "User Email:" (\$Var4), and "Password:". A "Test Logon" button is at the bottom of the Target section. At the bottom of the window are "Start Single Migration..." and "Start Batch Migration..." buttons.

8. Click **File > Save Configuration** and restart Transend Migrator.

Step 4 – Import users from CSV

The final step before running the migration is to load the users from the CSV file into Transend Migrator.

When migrating on a single Workstation

If you are migrating all users from a single migration workstation, you can load the entire CSV and do not need to worry about which migration workstation a user has been assigned to, since there is only one.

When migrating on multiple Workstations

If you are migrating users from multiple migration workstations, **each user must be assigned to a single migration workstation for the lifetime of the project** because artifacts pertaining to each user's migration will only exist on the migration workstation that processes that user. This is particularly important for the deduplication file that prevents multiple runs from migrating previously migrated messages. If the deduplication file is on Workstation A but the user has a re-run on Workstation B, all the user's data will be re-migrated because Workstation B does not have that user's deduplication file.

1. Choose **Batch Migration > Batch Migration Setup**.
2. Click the **Load From File** button and select the user list CSV.

Transend Migrator - Migration Options

Email Folders | Contact Folders | Calendar Folders | Task Folders | Folder Exclude List | Folder Mapping | Address Translation | Batch Mode Data

Batch Mode Data

Migrated	\$Var1	\$Var2	\$Var3	\$Var4
<input type="checkbox"/>	Test User1	Mail29/TMCCDOM!!data1/1001284305/10012...	CN=Test User1/O=TMCCDOM	tuser1@transend.com
<input type="checkbox"/>	Test User2	Mail31/TMCCDOM!!data1/1001284305/10012...	CN=Test User2/O=TMCCDOM	tuser2@transend.com
<input type="checkbox"/>	Test User3	Mail41/TMCCDOM!!data1/1001284305/10012...	CN=Test User3/O=TMCCDOM	tuser3@transend.com
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

Current Line: 3

Load From File... Load From Dir... Entity Match... Clear Data

OK Help

Step 5 – Start migration

To start the migration, click **Start Batch Migration** from the main screen of the Transend Migrator client.

Section 3: Technical Support

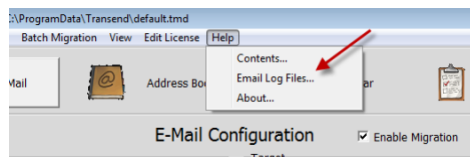
Technical support is available to help you understand how to use Transend Migrator with your migration project. Please review the Help File and online resources before contacting technical support.

You are encouraged to submit questions through email. This will allow us time to properly research your situation and make appropriate recommendations.

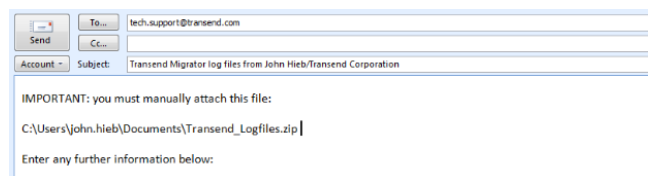
Note: *Transend's normal business hours are **M-F, 9am – 5pm (Pacific)**. If you will be performing a migration during non-business hours, and anticipate a need for support during non-business hours, please contact us at least 7 days in advance so we can schedule a support engineer to be available, if possible.*

Sending Log Files to Transend Technical Support

It is important to include a copy of your log files when submitting a support request. You may send the log files individually, or send the log files using the *Email Log Files* menu feature from the Transend Migrator interface using the following procedures:



Select *Help>Email Log Files* from the menu list. Transend Migrator will attempt to open your default email program and then create a new message similar to the example, below.



Notice

The path to the log file package (a zip file containing your log files, report, and settings file) will be inserted into the body of the email message. In the example, the log file path and filename is at C:\Users\john.hieb\Documents\Transend_Logfiles.zip. Your path will be similar. Using your email program, insert the log file package. Use the path and filename listed in your email message.

Before contacting technical support, we recommend that you are using the current patches or service packs for your hardware, your operating system and software. Also, download the latest version of Transend Migrator from www.transend.com. Review the [What's New](#) section of the Transend web site to review the latest release information.

Email: tech.support@transend.com.

Phone: (650) 324-5370