Domino to M365 v.7.6.0 (C API)

Emails

Objective:

Able to read Domino Server 12/14 user mailbox emails using the Domino C API for seamless migration to Microsoft 365.

Pre-Requisite:

System and Software Requirements

- 1. File System Access:
 - Requires read and write permissions for:
 - Workspace Folder
 - Local NSF Folder
 - Application Installation Folder
- 2. HCL Notes Client (64-bit):
 - Version 12/14 must be installed and properly configured.
- 3. Domino Server Configuration:
 - HCL Notes must be configured with a Domino Server connection.
- 4. Administrative Access:
 - The user logged into the migration server must have Administrator privileges.
- 5. VC++ Redistributable:
 - Visual C++ 2012 and 2015 Redistributable must be installed.
- 6. Power Settings:
 - Sleep mode for disk/machine should be disabled.
- 7. Antivirus Settings:
 - Antivirus should not block the migration application.
- 8. During Migration HCL Notes Client should be running/opened.
- 9. The option "Don't prompt for a password from other Notes-based programs" should be checked in User Security settings.

To enable this, follow these steps:

a. Open **HCL Notes**

- b. Go to File → Security → User Security
- c. Enter your password when prompted
- d. In User Security, go to Security Basics
- e. Under **Your Login and Password Settings**, check the option **"Don't prompt for a password from other Notes-based programs."**

Offline Mode Requirements:-

- NSF files must be available locally on the machine.
- It is **recommended to replicate NSF files locally** for better performance and reliability.

Network and Access Requirements

- 1. After the application installation is complete, the process should be run using the **SysTools**Service.exe, and it must be executed with administrator privileges.
- 2. Domino Server IP:
 - Required for connectivity.
- 3. Domino User Credentials:
 - Password is required for the user configured in HCL Notes.
- 4. Online Mode:
 - The HCL Notes Client location should be set to **Online** mode (not "Local" or "Offline").
 - Go to Notes → File → Preferences → Locations → verify active location.
 - Being online ensures direct Domino access.
- 5. Connectivity:
 - Domino Server and migration machine must be able to communicate over the network.
- 6. Migration Service Ports:
 - Ensure the following ports are open:
 - **16001**
 - **16002**
- 7. Default Port:
 - 443 (for secure HTTPS connections)
- 8. Bandwidth:
 - Minimum 100 Mbps connection on the migration server is recommended.
- 9. PowerShell:
 - Must be installed on the migration machine.

Access Permissions

1. Domino Server User Access:

- Requires minimum Reader access level to user mail files.
- Like The User configured on Lotus Notes client should have Reader access to users NSF file which is selected for migration.
- Steps
 - [Files → Mail → Select user → Right click → Access Control → Manage → Add the configured User in it → Provide User Types "Person" access "Reader" level access.
- 2. Configured User access for Names.nsf:
 - Must have Manager access to the Names.nsf file.
 - Lotus Notes Client Configured User: [People & Groups → File → Application →Access
 Control → Add the configured User in it → Provide User Types "Person" access "Manager" level access it.

Destination Requirements:-

- 1. Microsoft O365 Admin account ID required for authentication
- Project should be created on Microsoft Azure portal and Permissions granted on the Azure project.
- 3. The destination account should be present at the destination domain.
- 4. Destination account should have valid license.
- 5. Scope for Destination:
 - a. Full Access (EWS).
 - b. Mail.ReadWrite.All.

Environment Configuration:-

Ensure the following environment variable is set:

C:\Program Files\HCL\Notes

Required Accessible URLs:-

The following URLs **must be reachable** from the migration server:

- https://syssales.appspot.com/
- https://outlook.office365.com/EWS/Exchange.asmx
- https://login.windows.net/
- Microsoft Graph Dev Center | APIs and app development (Microsoft Graph Dev Center)
- https://outlook.office.com/

Features:

Feature	Status	Description
Demo Limitations	2 User	
Date Filter	On Created and Posted date	
Doc Links	Not Supported	
Delta Migration	Supported	Only new calendar items will be considered.
Folder Name Length	Supported	Length 64 characters
Folder Hierarchy	Supported	
Trash	Not Supported	
Junk	Supported	It will be mapped with Junk Email folder in M365.
Email Conversation	Lotus Notes itself do not support Conversation	
Follow Up Flag	Not Supported	
CN value Mappings	Supported	Provided that user listed in the User CSV
On behalf of	Supported	
HTML Text	Supported	
Plain text	Supported	
Read / Unread Status	Supported	
Inline Attachments	Supported	
Attachments	Supported	
Signature setting	Not supported	For signature created in settings.
Internet Headers	Supported	
Priority	Supported	

Drafts	Supported.	Date Time is coming, when it was migrated.
Date Time Retention	Supported	
Sensitivity	Not Supported	
Default Folder Mappings	Supported	
Delivery Options Settings	Not supported	
Return Receipt mail	Supported	
Delivery Importance	Supported	
Highlighting in Email Body	Not Supported	Not getting highlighting in Email Mime.
DXL Attachments	Not supported	
All Documents	Not supported	
Mood Stamp-Normal	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Personal	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Confidential	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Private	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Thank you!	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Flame	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Good Job	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Joke	Not supported	Mail gets migrated; Mood stamp Icons not migrated.

Delivery option- Mood Stamp- FYI	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Question	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Delivery option- Mood Stamp- Reminder	Not supported	Mail gets migrated; Mood stamp Icons not migrated.
Mail Body Highlighter	Not Supported	
Indent paragraph in body	Supported	
Outdent paragraph in body	Supported	
Basic Tables in Mail Body	Supported	
Tabbed table, in mail Body	Not supported.	But its contents would come.
Animated table, in mail Body	Not supported.	But its contents would come.
Caption table, in mail Body	Not supported.	But its contents would come.
Programmed table, in mail Body	Not supported.	But its contents would come.
Import option in Lotus Notes mail body	Not supported	
Ruler option in Lotus Notes mail body	Not supported	
Encrypt option in Lotus Notes mail sample	Not supported	
Max number of Recipient	Supported	500 (Checked with 100)
*Confidential: Mark Subject Confidential option in Lotus Notes	Supported.	The email subject would have Confidential as a key word after migration.
Undeliverable Mail	Not Supported	Migrated, but not as like source. Its subject and body contents are getting changed.

Calendar invitation trace report	Not Supported	Migrated, but its body is not as like source.
Calendar invitation status[Accepted, Rejected, Tentative accepted etc.] notification mails	Supported	
Max Email Size	Supported	35 MB
To, cc, bcc	Supported.	
Mailbox having other than English language In folder name ,subject, email body , attachments name.	Supported.	
Recall Message	Supported.	
Other than English language folder	Supported.	
Calendar invites	Supported	Migrated as a email in Inbox.

API:

Source: C API and Notes

Destination: Microsoft.Exchange.WebServices.Data (EWS)

Limitation:

- 1. Default folder of HCL Notes will be mapped with Default folder of M365. If a folder in HCL Notes has the same name as a default folder in M365, an underscore (_) will be prefixed to its name. For example, if a folder named 'Junk Email' exists at the root level in HCL Notes, it will be migrated as '_Junk Email'.
- 2. Email form types which we support: "Memo", "Reply", "Return Receipt", "Personal Stationery", "Bookmark", "NonDelivery Report", "Quota Report", "Trace Report", "Recall Response",

"Recall Request", "Inmail", "INM", "ASM", "ReplyNotice", "(ReplyNotice)", "Delivery Confirmation Report", "Delivery Report", "Notice".

Calendars

Objective:

Able to read Domino Server 12/14 user calendar using C API so that it can be migrate to M365 user

calendar.

Pre-Requisite:

System and Software Requirements

- 1. File System Access:
 - Requires read and write permissions for:
 - Workspace Folder
 - Local NSF Folder
 - Application Installation Folder
- 2. HCL Notes Client (64-bit):
 - Version 14 must be installed and properly configured.
- 3. Domino Server Configuration:
 - HCL Notes must be configured with a Domino Server connection.
- 4. Administrative Access:
 - The user logged into the migration server must have Administrator privileges.
- 5. VC++ Redistributables:
 - Visual C++ 2012 and 2015 Redistributables must be installed.
- 6. Power Settings:
 - Sleep mode for disk/machine should be disabled.
- 7. Antivirus Settings:
 - Antivirus should not block the migration application.
- 8. Local Replication:
 - It is recommended to **replicate NSF files locally** for performance and reliability.
- 9. During Migration HCL Notes Client should be running/opened.
- 10. The option "Don't prompt for a password from other Notes-based programs" should be checked in User Security settings.

To enable this, follow these steps:

a. Open **HCL Notes**

- b. Go to File -> Security -> User Security
- c. Enter your password when prompted
- d. In User Security, go to Security Basics
- e. Under **Your Login and Password Settings**, check the option **"Don't prompt for a password from other Notes-based programs."**
- 11. Turn off the Calendar Repair Assistant (CRA)
- 12. It is recommended to migrate delegated and Manager mailboxes in the same batch.
- 13. The destination account OneDrive should be preprovisioned.
- 14. It is recommended to acknowledge to the end user that during the migration process avoid the movement of data between the folders.
- 15. The throttling limit should be increased during the migration process. You can request a temporary increase in migration limits via Microsoft Support.
- EWS (Exchange Web Services) Throttling
- · Graph API Throttling

Network and Access Requirements

- 1. After the application installation is complete, the process should be run using the **SysTools**Service.exe, and it must be executed with administrator privileges.
- 2. Domino Server IP:
 - Required for connectivity.
- 3. Domino User Credentials:
 - Password is required for the user configured in HCL Notes.
- 4. Online Mode:
 - The HCL Notes Client location should be set to Online mode (not "Local" or "Offline").
 - Go to Notes → File → Preferences → Locations → verify active location.
 - Being online ensures direct Domino access.
- 5. Connectivity:
 - Domino Server and migration machine **must be able to communicate** over the network.
- 6. Migration Service Ports:
 - Ensure the following ports are open:
 - **16001**
 - **16002**
- 7. Default Port:
 - 443 (for secure HTTPS connections)

- 8. Bandwidth:
 - Minimum 100 Mbps connection on the migration server is recommended.
- 9. PowerShell:
 - Must be installed on the migration machine.

Offline Mode Requirements:-

- NSF files must be available locally on the machine.
- It is recommended to replicate NSF files locally for better performance and reliability.

Access Permissions

- 1. Domino Server User Access:
 - Requires minimum Reader access level to user mail files.
 - Like The User configured on Lotus Notes client should have Reader access to users NSF file which is selected for migration.
 - Steps
 - [Files → Mail → Select user → Right click → Access Control → Manage → Add the configured User in it → Provide User Types "Person" access "Reader" level access.
- 2. Configured User access for Names.nsf:
 - Must have Manager access to the Names.nsf file.
 - Lotus Notes Client Configured User: [People & Groups → File → Application → Access
 Control → Add the configured User in it → Provide User Types "Person" access "Manager" level access it.

Destination Requirements:-

- 1. Microsoft O365 Admin account ID required for authentication
- Project should be created on Microsoft Azure portal and Permissions granted on the Azure project.
- 3. The destination account should be present at the destination domain.
- 4. Destination account should have valid license.
- 5. Scope for Destination:-
- 6. Microsoft Graph API Permission
 - a. Calendars.ReadWrite

Office 365 Exchange Online Permission

full_access_as_app

Environment Configuration:-

Ensure the following environment variable is set:

• C:\Program Files\HCL\Notes

Required Accessible URLs:-

The following URLs **must be reachable** from the migration server:

- https://syssales.appspot.com/
- https://outlook.office365.com/EWS/Exchange.asmx
- https://login.windows.net/
- Microsoft Graph Dev Center | APIs and app development (Microsoft Graph Dev Center)
- https://outlook.office.com/

Features:

Features	Status	Description
Demo Limitations	2 User	
Date Filter	Supported	On created date
Start Date	Supported	
End Date	Supported	
Folder Name Length	Supported	Length 64 characters
Long Subject Characters	Supported	
Notify Me	Supported	
Mark Private	Supported	
High Importance	Supported	Added in body.
Category	Supported	
Location	Supported	
Recurrence	Supported	
Resources	Supported	
Delta Migration	Supported	Only new calendar items will be considered.

Plain Text in Body	Supported	
Future Event	Supported	The date range will be +1 year from the current date.
All day event	Supported	
Attendees	Supported	We need to provide the user mapping csv to map the attendees. If user mapping csv is not provided then source attendees will be visible on destination. FYI will be mapped as required attendee.
Time Zone Mapping	Supported	
Calendar having other than english language In folder name ,subject, calendar body.	Supported.	
Organizer	Not Supported	The calendar events will migrate in context of individual user account. Hence the user will become the organizer of that event.
HTML Body	Not Supported	
DocLink	Not Supported	
Attachments	Not Supported	
Inline images	Not Supported	
Embedded Attachment	Not Supported	
Same Event in multiple folders	Not Supported	
Rooms	Not supported	

Group Mapping	Not supported	
Shared calendars	Not supported	
Category Colors	Not supported	
Custom Recurrences	Not supported	
Mark Available	Supported	
Digital Signature and encryption	Not supported	
Return Receipt	Not supported	
Do not Receive Responses from Invitees	Not supported	
Prevent Counter Proposals	Not supported	
Prevent Delegation	Not supported	
Online Meeting scheduled in Room	Not supported	
Body inline images	Not supported	
Delivery options-Priority	Not supported	
Allows attendees to invite Others	Not supported	
Invitees status	Not supported	

API:

Source: C API and Notes

Destination: Microsoft Graph API and Microsoft.Exchange.WebServices.Data (EWS).

Limitation:

1. Calendar form types which we support: "Appointment".

2. Due to HCL C API behavior, duplicate events may be detected. These duplicate events are not migrated; however, they will still be reflected in the tool and report counts.

Calendar Migration Known Points:

- 1. Date filter is applicable only for events and not for calendar Folders.
- 2. All events will be migrated as appointment i.e. user may not be able to perform any operation like edit, cancel or update an event post migration.
- 3. Delta migration is applicable for future events, and only newly created future events will be applicable for the delta migration. If user modify the source account events after migration, then it will not be the part of delta migration.
- 4. The calendar events will migrate in context of individual user account. Hence the user will become the organizer of that event.
- 5. Team meetings will be migrated; however, the meeting links typically point to the source tenant and may not remain functional post-migration. These meetings will need to be recreated in the destination tenant after migration.

Not Supported Recurrence Pattern:-

There are some recurrence pattern which will be not supported like

- 1. Monthly By Date: Monthly Every month on 12th & 31st for 5 months and Monthly Every other month on 14th & 16th day for 2 years.
- 2. Monthly By Day: Monthly every month on 2nd Sunday & Monday for 10 months, Monthly every other Month on 2nd & 4th Sunday with End Date and Monthly Every Other Month on 1st Mon & 2nd Sun for 9 Months

Note on Time Zone :-

There are 4 time zone of source which are not present in M365 so we have mapped it with similar time zone check below we have mention them

Source Time zone	Destination Time zone
(UTC+00:00),Sao Tome	UTC
(UTC+04:00),Izhevsk, Samara Standard Time	Astrakhan
(UTC+11:00),Chokurdakh Time	Magadan Standard
(UTC+12:00),Anadyr, Petropavlovsk- Kamchatsky Standard Time	Kamchatka

Objective:

Able to migrate Domino Server 12/14 Contacts into M365 Contacts.

Pre-Requisite:

System and Software Requirements

- 1. File System Access:
 - Requires read and write permissions for:
 - Workspace Folder
 - Local NSF Folder
 - Application Installation Folder
- 2. HCL Notes Client (64-bit):
 - Version 14 must be installed and properly configured.
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 - Visual C++ 2012 and 2015 Redistributables must be installed.
- 6. Power Settings:
 - Sleep mode for disk/machine should be disabled.
- 7. Antivirus Settings:
 - Antivirus should not block the migration application.
- 8. HCL Client should be running/opened.
- 9. The option "Don't prompt for a password from other Notes-based programs" should be checked in User Security settings.

To enable this, follow these steps:

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- e. Under **Your Login and Password Settings**, check the option **"Don't prompt for a password from other Notes-based programs."**

Offline Mode Requirements:-

• NSF files must be **available locally** on the machine.

• It is recommended to replicate NSF files locally for better performance and reliability.

Network and Access Requirements

- 1. After the application installation is complete, the process should be run using the **SysTools**Service.exe, and it must be executed with administrator privileges.
- 2. Domino Server IP:
 - Required for connectivity.
- 3. Domino User Credentials:
 - Password is required for the user configured in HCL Notes.
- 4. Online Mode:
 - HCL Notes Client must be in Online mode (check the current Location).
- 5. Connectivity:
 - Domino Server and migration machine must be able to communicate over the network.
- 6. Migration Service Ports:
 - Ensure the following ports are open:
 - **16001**
 - **16002**
- 7. Default Port:
 - 443 (for secure HTTPS connections)
- 8. Bandwidth:
 - Minimum 100 Mbps connection on the migration server is recommended.
- 9. PowerShell:
 - Must be installed on the migration machine.

Access Permissions

- 1. Domino Server User Access:
 - Requires minimum Reader access level to user mail files.
 - Like The User configured on Lotus Notes client should have Reader access to users NSF file which is selected for migration.
 - Steps
 - [Files → Mail → Select user → Right click → Access Control → Manage → Add the configured User in it → Provide User Types "Person" access "Reader" level access.
- 2. Configured User access for Names.nsf:
 - Must have Manager access to the Names.nsf file.
 - Lotus Notes Client Configured User: [People & Groups → File → Application → Access
 Control → Add the configured User in it → Provide User Types "Person" access "Manager"

level access it.

Destination Requirements:-

- 1. Microsoft O365 Admin account ID required for authentication
- 2. Project should be created on Microsoft Azure portal and Permissions granted on the Azure project.
- 3. The destination account should be present at the destination domain.
- 4. Destination account should have valid license.
- 5. Scope for Destination :- Contacts.ReadWrite

Environment Configuration:-

Ensure the following environment variable is set:

• C:\Program Files\HCL\Notes

Required Accessible URLs:-

The following URLs must be reachable from the migration server:

- https://syssales.appspot.com/
- https://outlook.office365.com/EWS/Exchange.asmx
- https://login.windows.net/
- Microsoft Graph Dev Center | APIs and app development (Microsoft Graph Dev Center)
- https://outlook.office.com/

Features:

Features	Status	Description
Demo Limitations	2 User	
Date Filter	Supported	On created date
Delta	Supported	
Contact Profile Photo	Not Supported	
Contact Name : Title First Name Middle Name Last Name	Supported	Suffix added in contact body.

• Suffix		
Job Title	Supported	
Company Name	Supported	
Mark Private	Not Supported	
Email: 1. Business 2. Personal 3. Assistant 4. Business2 5. Personal2	Supported	3 email will be mapped and two will come in contact body
Phone Numbers: 1. Business 2. Home 3. Mobile 4. Fax 5. Pager 6. Assistant 7. Fax 2 8. Mobile 2 9. Business 2 10. Mobile 2	Supported	Business, Home, Mobile and Business 2 will be mapped and other will come in contact body.
Category	Supported	
Addresses:		
Business	Supported	
Personal	Supported	
Other	Supported	
Other Information :		
Messaging ID	Supported	Added in contact body.
Department	Supported	

Location	Supported	Added in contact body.
Manager	Supported	Added in contact body.
Assistant	Supported	Added in contact body.
Website	Supported	
Blog Site	Supported	Added in contact body.
Spouse	Supported	
Children	Supported	Added in contact body.
Birthday	Supported	
Anniversary	Supported	Added in contact body.
Custom fields:- Custom 1 Custom 2 Custom 3	Supported	Added in contact body.
Comments	Supported	HTML not supported.
Name Information	Supported	View display name formate not supported other will be come in contact body.
Certificates	Supported	Notes Certificates fields values come in contact body. Other will be not supported.
Attachment	Not Supported	
Inline Images	Not Supported	
Folder Hierarchy	Not Supported	

API:

Source: C API and Notes

Destination: Microsoft Graph API