TECHNICAL REFERENCE GUIDE

Setting up a Google Service Account



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EXECUTIVE SUMMARY

This *White Paper* provides details how to set up a *Google Service Account* in order to migrate multiple user mailboxes TO & FROM G Suite / Gmail in batch mode, without needing to rely on end-user passwords.

Need more help?

If you can't find the information you seek, please view the Help File, which contains the most detailed information about every feature within the tool, including additional best practices.

Please also contact us directly to get answers to your questions, as well as inform us of what's missing in this White Paper – we're always looking for ways to improve our offering, and documentation is an important piece of the puzzle.

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Section 1: Overview

There are two methods to migrate email to and from G Suite/Gmail in batch mode. Transend Migrator can connect to the Google message store via both the Google API (recommended) and IMAP.

In Transend Migrator, you have the following options in the Source and Target dropdown windows:

- Gmail IMAP (service account) uses IMAP to migrate email data
- G Suite/Google Apps (service account) uses Google API to migrate Email, Calendars, Contacts and Tasks.

Note: IMAP supports migrating email data only, and does not support migrating Calendars, Contacts and Tasks

The below steps detail how to create and enable a service account and a Google project in order to grant access to your Google APIs to migrate user data via the service account.

Section 2: Create a Service Account in Google Developers Console

Recommended: Use the Google Chrome web browser to create the Google Service Account. Some configuration options do not display in Internet Explorer or Firefox.

You will be given a service account email address and client id which you should note, and be able to download a private key file P12 format ("Google-privatekey.p12") which you should store in a secure location.

- Go to the Google Developers Console: console.developers.google.com
- Click *I agree* and click *AGREE AND CONTINUE*



Click the three dots to create a new Project



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Click *New Project* (in the upper right) or use an existing Project

Select from TRANSENDTESTING.COM	NEW PROJECT
Search projects and folders —	
RECENT ALL	
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✓ ✿ Transend Migrator 🔞	transend-migrator-042319
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- Enter the Project Name
- Click *Browse* to set your Location to your Domain
- Click CREATE

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The Project Notification will display as the Project is created

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From the Dashboard

• Click *Go To APIs overview* at the bottom of the APIs box

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Click ENABLE APIS AND SERVICES

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: <i>1</i> 2	OAuth consent screen										
2	Domain verification										
Ξq	Page usage agreements										

Welcome to the API Library will open, add the following required APIs:

- ✓ Gmail API
- ✓ Google Calendar API
- ✓ Contacts API
- ✓ Tasks API
- ✓ Admin SDK
- ✓ Google Drive API
- ✓ People API
- In the Search for APIs & Services box, enter the term Gmail API

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• Open the **Gmail API**



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Click Enable

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Gmail A Google Flexible, REST ENABLE	PI Tful access to the user's inbox TRY THIS API 12									

This will open the Gmail API

Click the top link *Apps & Services Gmail API*

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• Click *Library* in the side navigation to open the API Library

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Search in the API Library for the following term: Google Calendar API

Click *Google Calendar API* to open and enable

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~	Search		Q Google Calendar API	×						
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	Integrate with Google Calendar using the Calendar API. Google GalDAV API Google The CalDAV API lets you manage your Google calendars and		nd events.							

Click Enable

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Search in the API Library for the following term: Contacts API

• Click Google Contacts API to open and enable



Search the API Library for the following term: *Tasks API*

• Click *Google Tasks API* to open and enable

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Click *Enable* – Check that the API enabled is checked

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÷	API Library									
		Tasks API Google The Google Tasks API lets you manage your tasks and task lists.								

Search in the API Library for the following term: *Admin SDK*

• Click Admin SDK to open and enable



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Click Enable – Check that the API enabled is checked

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		Admin SDK Google Admin SDK lets administrators of enterprise domains to view and manage resources like user							

Search in the API Library for the following term: *Google Drive API*

Click Google Drive to open and enable



Click *Enable* – Check that the API enabled is checked



Search in the API Library for the following term: *People API*

• Click *People API* to open and enable

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CATEGORY Developer tools (1) Social (2)	Θ	Google People API Google Provides access to information about profiles and contacts.	
Other (1)	¢	ARCore Cloud Anchor API Google A cloud anchor allows you to position 3D objects in a consistent physical location for multiple	
	0	Contacts API Geogle The Contacts API lets you view, edit, and organize your contacts.	
	۵	Poly API Google Provides read and whitelisted upload access to assets on Poly	

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	8	Google People API Google Provides access to information about profiles and contacts.									

Click APIs & Services > Dashboard

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In the Dashboard confirm all APIs are enabled

- Click Credentials on the side navigation
- Click Create credentials
- Select Service account key

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Ξo	Page usage agreements			You need credentials to access APIs. Enable the APIs you plan to use and then create the credentials they require. Depending on the API, you need an API key, a service account, or a AOAut 2.0 client ID. For more information, see the authentication documentation.	
				Create credentials - API key Undertifies your project using a simple API key to check quota and access Okth client ID Requests user consent to your app can access the user's data Service account key Enables serve-to-server, app-level authentication using robot accounts Help mc choose Asia a fer questions to help you decide which type of credential to use	

- Select New Service Account
- Enter the following Service account name: Transendmigrator
- Click Select a Role
- Click App Engine > App Engine Admin
- Select .P12 key

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Click Create

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The .P12 key is now downloaded to your workstation

Click Close

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This opens the Credentials for the new service account keys

Click on Manage service accounts

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• Open the service account by clicking on the service account email address

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- Add Description
- Scroll down to Domain Wide Delegation on this page

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٠	Settings	Service account status							
0	Privacy & Security	Disabling your account allows you to preserve your policies without having to delete it.							
0	Cryptographic keys	Account currently active							

- Click Show Domain Wide Delegation
- Click Enable G Suite Domain-wide Delegation



- Enter Product name for consent screen: Transend Migrator
- Click Configure Consent Screen



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- Application Type Click Internal
- Enter the Application Name: Transend Migrator



Scroll down

Click Add Scope



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- Select All by clicking the first checkbox API
- Scroll down and click ADD



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			copes for enabled APIs are listed above. To a ou would like to use before returning to add s	add a missing scope please visit the Google API Librar	ry				
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Scroll to Authorized Domains

- Enter your Google Domain
- Click Save

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92	OAuth consent screen	To protect you and your users, Google only allows applications that authenticate using OAuth to use Authorized Domains. Your applications' links must be hosted on Authorized Domains. Learn more									
	Domain verification	transendtesting.com									
Ξo	Page usage agreements	Type in the domain and press Enter to add it Application Homepage link Shown on the consent screen. Must be hosted on an Authorized Domain. https:// or http:// Application Privacy Policy link Shown on the consent screen. Must be hosted on an Authorized Domain. https:// or http:// Application Terms of Service link (Optional) Shown on the consent screen. Must be hosted on an Authorized Domain.									

This open the credentials page

Click Manage service accounts

Copy the email address and unique id to notepad:

transendmigrator@transend-migrator-092719.iam.gserviceaccount.com

117671717552485360194



- Click Domain Verification
- Click Add domain

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	Domain verification	Domain	b be sent to the following domain.						
Ξo	Page usage agreements	transendtesting.com							

CANCEL ADD DOMAIN

- Click Verify Ownership
- Click Take Me There



Note: You MUST be able to verify the domain to logon using the .P12 key

Click Verify

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Google		# C
Webmaster Central	4	Help 👻
• Verification failed for transendtesting.com (18 hours ago).		
Verify your ownership of transendtesting.com. Learn more.		
Your Google Account will be recorded in Google's systems as an official owner of this property. Note - your ownership information will be stored and be visible to other owners (both current and future).		
Verification History		
Verification Method: Domain name provider		
Sign in to your domain name provider.		
Select your domain registrar or provider \$		
I don't know who this is		
VERIFY Not now		
Verify		

Copy the .P12 key from Downloads to C:\Program Files (x86)\Transend Corp\Transend Migrator

Copy Paste Paste shortcut Clipboard Move Copy Copy Copy Delete Re	New Open Select no	ne ection			
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☆ Favorites	Name Name	Date modified	Туре	Size ^	Transend Migrator 092719-76c
🐌 Downloads	Transend Migrator 092719-76cdf449abb8.p12	9/27/2019 6:21 AM	Personal Informatio		Personal Information Exchange
📚 Recent places	stm12.exe	8/13/2019 11:05 AM	Application	2,9	
debug-report-2018-11-13_remotemachines.zi	I tmagent.exe	8/13/2019 11:05 AM	Application	4	
E Desktop	I tmcmd.exe	8/13/2019 11:05 AM	Application	5	
	🏛 tmo64a.exe	8/13/2019 11:05 AM	Application	2	
ConeDrive	🏶 tmproc.exe	8/13/2019 11:05 AM	Application	8	
	Ikserver.exe	8/13/2019 11:05 AM	Application		Date modified: 9/27/2019 6:21 AM
🝓 Homegroup	🔊 mv.exe	8/13/2019 11:05 AM	Application	1,0	Size: 2.42 KB
P Laurie Jones	vcruntime140.dll	8/13/2019 11:05 AM	Application extension		Date created: 9/27/2019 7:09 AM
	zlib1.dll	8/13/2019 11:05 AM	Application extension	1	Availability: Available offline
💐 This PC	ssleay32.dll	8/13/2019 11:04 AM	Application extension	2	
📜 Desktop	itmamz.dll	8/13/2019 11:04 AM	Application extension	3	
Documents	imcca.dll	8/13/2019 11:04 AM	Application extension	1	
🐌 Downloads	imcom.dll	8/13/2019 11:04 AM	Application extension	7	
Music	imdav.dll	8/13/2019 11:04 AM	Application extension	2.	
🗼 Pictures	a tmeud.dll	8/13/2019 11:04 AM	Application extension	1	
😹 Videos	itmew2.dll	8/13/2019 11:04 AM	Application extension	3	
Swindows (C:)	imews.dll	8/13/2019 11:04 AM	Application extension	3	

Section 3: Setting up the Service Account in Google Admin Console

- Open Google Admin Console: <u>https://admin.google.com</u>
- Click Security > Advanced Settings

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Click Manage API client access

Advanced setting	ngs	
Authentication	Manage API client access Allows admins to control access to user data by applications that use OAuth protocol.	

Copy the following scopes to notepad to create a comma separated <u>single line</u> in notepad:

https://mail.google.com,

https://www.google.com/m8/feeds,

https://www.googleapis.com/auth/admin.directory.resource.calendar,

https://www.googleapis.com/auth/apps.groups.migration,

https://www.googleapis.com/auth/calendar,

https://www.googleapis.com/auth/contacts,

https://www.googleapis.com/auth/drive,

https://www.googleapis.com/auth/gmail.labels,

https://www.googleapis.com/auth/tasks,

https://www.googleapis.com/auth/userinfo.email,

https://www.googleapis.com/auth/userinfo.profile

GoogleScopes_092019.txt - Notepad	_ 🗆 🗙
n/m8/feeds,https://www.googleapis.com/auth/admin.directory.resc	ource.calendar,https://www.googlea <
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File Edit Format View Help		
transendmigrator@transend-migrator-092719 117671717552485360194).iam.gserviceaccount.com	^

Enter Client Name:

110028911434110022061

Enter Scopes as a single comma separated line:

https://mail.google.com,https://www.google.com/m8/feeds,https://www.googleapis.com/auth/admin. directory.resource.calendar,https://www.googleapis.com/auth/apps.groups.migration,https://www.goo gleapis.com/auth/calendar,https://www.googleapis.com/auth/contacts,https://www.googleapis.com/a uth/drive,https://www.googleapis.com/auth/gmail.labels,https://www.googleapis.com/auth/tasks,http s://www.googleapis.com/auth/userinfo.email,https://www.googleapis.com/auth/userinfo.profile

Click Authorize



This will display when the scopes and client id are correctly entered and authorized.

\leftrightarrow \rightarrow C \triangleq https://admin.goog	le.com/AdminHome?chromeless=1#OGX:ManageOauthClients		*	0	٩
\equiv Google Admin	Q Search for users, groups, and settings (e.g. rename user)	8	?		
Security					:
	Your settings have been saved.				
	S ations and other API clients with Google to enable access to data in Google services like Calendar. You can authorize these registered or give consent or their passwords. Learn more	lients to a	access yo	ur user dat	ta
Authorized API clients	The following API client domains are registered with Google and authorized to access data for your users.				
Client Name Example: www.example.com	One or More API Scopes Authorize Learn more about registerin Example: http://www.google.com/calendar/feeds/ (comma-delimited)	i <u>g new A</u> F	<u>PI clients</u>		
110028911434110022061	https://www.google.com/m8/feeds https://www.googleapis.com/auth/admin.directory.resource.calendar Groups Mail Migration https://www.googleapis.com/auth/apps.groups.migration Calendar (Read-Write) https://www.googleapis.com/auth/calendar https://www.googleapis.com/auth/cantacts https://www.googleapis.com/auth/drive Email (Manage labels) https://www.googleapis.com/auth/gmail.labels Tasks (Read/Write) https://www.googleapis.com/auth/tasks https://www.googleapis.com/auth/userinfo.email https://www.googleapis.com/auth/userinfo.profile			Remove	an l

Copy the entire path for the .P12 key to C:\Program Files (x86)\Transend Corp\Transend Migrator

File Home Share Vie	W						
Copy Paste Paste Paste shortcut	Move Copy to to t	New item • Teasy access • New folder	Properties	Select all Select none			
Clipboard	Organize	New	Open	Select			
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🗾 Desktop		😼 transend-migration-	199512-9baa8194e4	9d.p12	3/7/2019 10:47 AM	Personal Informatio	

- Click on .p12 key
- Click on *Properties*
- Click *Security* and copy the entire path of the .p12 key to notepad



Section 4: Confirm Service Account Access in Transend Migrator

It's important to confirm your Google Service Account is properly set up and granted access to Transend Migrator.

Open Transend Migrator

Click *Migration Options > Custom Options*



Scroll to Gmail/Google Apps

• Enter the Service Account Email Address | Full Path to .p12 key:

<u>transend-migrator@transend-migration-199512.iam.gserviceaccount.com</u>|C:\Program Files (x86)\Transend Corp\Transend Migrator\transend-migration-199512-9baa8194e49d.p12

Technical Reference Guide

	Custom Options
 Exchange/Outlook Amazon WorkMail Exchange Web Services Lotus Notes Gmail/Google Apps Allow Calendar Invitations Authorization Service Acct. Calendar Resource Export Filter Labels Force Authentication 	Authorization Service Acct. Switch: /XOAUTHSA ✓ Enabled Parameter: rator\transend-migration-199512-9baa8194e49d.p13
 Google Group Google Attachment Rename Google Vault Incremental Migration, Gmail Original Calendar Name Primary Calendar Only Show Views Target Calendar Create 	For Google Apps IMAP, calendar, contacts or task migrations via a service account, specify the service account email and path to the private key file, form email keyfile. View Enabled Options Clear Enabled Options OK Search Next

This may take several hours for Google to update and allow access.

Confirm Service Account (in the Source)

If migrating FROM G Suite

Click Source dropdown and select G Suite / Google Apps (service acct) or Gmail IMAP (service acct)

Reminder: Gmail IMAP (service account) will migrate email only (not calendars, contacts, tasks)

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File Migration Op	tions Batch Migration	View Edit License He	elp				
	E-Mail	Address Book	2	Calendar		Task/To Do	
	Advanced Options	E-Mail Co	onfiguration	🗆 Enabl	e Migration		
From: G Suite	e/Google Apps (service	acct) 💌	Target	ase select		•	
	What system sh			What	system should I o	hoose?	
Google Email							
google2@isol		•					
Optional Servi	ice Acct Email:						
Optional Priva	te Key File:	_					
Eolders	(All folders selected	l by default)					
	St	art Single <u>M</u> igration	Start <u>B</u> at	ch Migration			

- Click Folders > Load from Source to test your connection
- Click *Clear Data* to migrate ALL folders

Technical Reference Guide

Transend Migrator - Migration Options							
Email Folders	Contact Folders	Calendar Folders	Task Folders	Folder Exclude List	Folder <u>M</u> apping	Address Translation	Batch Mode Data
(If no fol ✓ Cabinet ✓ Documents ✓ INBOX ✓ Inbox (migra ✓ [Gmail]//Dra ✓ [Gmail]//Sp ✓ [Gmail]//Tra	ated) afts nt Mail am		ail Folder Cor played folders	nvert List convert only if checke	d. Right click for o	options.)	<u>і</u> ок ? <u>Н</u> еір
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		Load from Sou	rce	Clear Data			

Confirm Service Account (in the Target)

If migrating TO G Suite

 Click the Target dropdown menu and select the Target dropdown and select G Suite / Google Apps (service acct) or Gmail IMAP (service acct)

Reminder: Gmail IMAP (service account) will migrate email only (not calendars, contacts, tasks)

Click Test Logon

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File Migration Options B	atch Migration Vi	ew Edit License He	lp			
E-Mail		Address Book	2	Calendar		Task/To Do
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Last Updated: October 16, 2019