

API Implementation Guide

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Overview

Developers can build a variety of different integrations with Adobe Sign using a web services API for communications. A web service is a standards-based, secure and scalable method of establishing communications between systems over the Web. Once built, integrations allow users to initiate the Adobe Sign signing experience entirely from within the external application. Developers can also incorporate the functionality of Adobe Sign into their external applications by embedding the Adobe Sign user interface (UI) within those applications. External applications can also receive status updates in real-time for transactions initiated using Adobe Sign. These external applications can also retrieve and store copies of the signed agreements.

This document contains information on the API integration process. It includes the following sections:

- <u>Adobe Sign Interface</u>—This section provides instructions on how to use the Adobe Sign interface to
 establish an integration with an external application. It includes information on document keys and the
 configuration of OAuth. Note that the Adobe Sign API interface is only available to Enterprise Premium
 [P2] customers.
- <u>Adobe Sign Scenarios</u>—This section describes various scenarios for using the Adobe Sign APIs to integrate with an application. Both SOAP and REST-based APIs are covered.
- <u>Adobe Sign API Events</u>—This section provides information on integrating Adobe Sign and external applications by embedding the Adobe Sign user interface (UI) into those external applications. It also covers how to send information about events or actions in Adobe Sign to external applications.

Getting Started

Developers can sign up online for a free unlimited Adobe Sign Developer account at <u>https://secure.echosign.com/public/upgrade?type=developer</u>. Key developer resources are available as follows:

REST

• REST-based Documentation: https://secure.echosign.com/redirect/latestRestApiMethods

SOAP

- SOAP-based Documentation: <u>https://secure.echosign.com/redirect/latestApiMethods</u>
- Adobe Sign API WSDL: https://secure.echosign.com/redirect/latestApiWsdl

Note: Although the SOAP-based API is supported, we strongly encourage customers to implement using the REST-based API. Future development efforts will center on the REST API.

SDK with sample code

Development SDK: <u>https://secure.echosign.com/redirect/latestApiDevelopersKit</u>

OAuth

OAuth Documentation: <u>https://secure.na1.echosign.com/public/static/oauthDoc.jsp</u>

Adobe Sign Interface

Developers can integrate Adobe Sign with proprietary solutions (business applications or company websites) using the Adobe Sign REST or SOAP-based APIs. Developers can also incorporate the functionality of the Adobe Sign into their external applications by embedding the Adobe Sign user interface (UI) within those applications.

Developers must be authorized to access the Adobe Sign data that the integration will need to modify or create. The preferred authorization method involves using the Adobe Sign OAuth permission model, which complies with the OAuth 2.0 specification. However, if the solution does not support OAuth, you can also use an Integration Key.

The SOAP-based API works with legacy API Keys, the new Integration Keys, and OAuth tokens. The REST-based API works with Integration Keys and OAuth tokens.

Note: Starting with document service 16, API keys have been deprecated and are no longer supported. If you have a legacy application and have used a legacy API key to integrate, we recommend that you replace this key with an Integration Key or an OAuth token to provide additional security and customization options.

Creating An Integration Key

OAuth is the preferred permission model for when integrating Adobe Sign with external applications. (See the <u>Using OAuth to Access Adobe Sign APIs</u> document for more information on OAuth). However, you can create and use an Integration Key to integrate with applications that do not support OAuth or if you prefer to not use OAuth with your application. Only an Account or Group Admin can create an Integration Key.

Note: If you plan to integrate more than one application using an Integration Key, we recommend that you create a unique Integration Key for each.

If you need to view or revoke an Integration Key after it is created, this can be done from the Access Tokens page. (See <u>Retrieving Your Integration Key</u> for more information.)

To create an Integration Key:

1. Click the Account tab, click on Adobe Sign API, then click API Information.





2. In the API Information page, click the Integration Key link.

API Introduction
Adobe Sign provides a REST API. Please read the API overview for more details.
In order to call the Adobe Sign APIs, you must first create an application.
You can manage applications in your account here - please keep application credentials private and secure. For further queries contact Adobe Sign Support.
Using Adobe Sign APIs to access user data requires OAuth Tokens.
You can create an Integration Key if you have a legacy application which does not support OAuth.
API Introduction
Adobe Document Cloud provides both SOAP API and REST API. Please read the API overview for more details.
In order to call the Adobe Document Cloud APIs, you must first create an application.

You can manage applications in your account here - please keep application credentials private and secure. For further queries contact Adobe Document Cloud Support.

Using Adobe Document Cloud APIs to access user data requires OAuth Tokens.

You can create as Integration Key f you have a legacy application which does not support OAuth.

The Create Integration Key dialog displays.

Create	Integration Ke	2γ ×
Integration If your appl application This Integra	Keys can be used to ena ication requires an Integ ation Key will have perm	ble legacy third-party applications to access Adobe Sign data. ration Key, create one by providing a name below and selecting which permissions to grant to this anent access to your account until it is revoked.
Integration	Name:	
Enabled?	Scope	Description
	user_read	View users in your account
	user_write	Create or manage users within your account
	user_login	Login on behalf of any user in your account
	agreement_read	Access documents & data on behalf of any user in your account
	agreement_write	Manage the status of documents on behalf of any user in your account
	agreement_send	Send documents on behalf of any user in your account
	widget_read	View widgets on behalf of any user in your account
	widget_write	Create, edit or publish widgets on behalf of any user in your account
	library_read	View templates and document library on behalf of any user in your account
	library_write	Manage the templates and document library on behalf of any user in your account
	workflow_read	View workflows on behalf of any user in your account
	workflow_write	Create workflows on behalf of any user in your account
		Cancel Save

Create	Integration Ke	ey ×
Integration If your appl application. This Integra	Keys can be used to ena ication requires an Integ tion Key will have perm	ble legacy third-party applications to access Adobe Document Cloud data. ration Key, create one by providing a name below and selecting which permissions to grant to this anent access to your account until it is revoked.
Integration	Name:	
Enabled?	Scope	Description
	user_read	View users in your account
	user_write	Create or manage users within your account
	user_login	Login on behalf of any user in your account
	agreement_read	Access documents & data on behalf of any user in your account
	agreement_write	Manage the status of documents on behalf of any user in your account
	agreement_send	Send documents on behalf of any user in your account
	widget_read	View widgets on behalf of any user in your account
	widget_write	Create, edit or publish widgets on behalf of any user in your account
	library_read	View templates and document library on behalf of any user in your account
	library_write	Manage the templates and document library on behalf of any user in your account
		Cancel Save

- 3. In Create Integration Key dialog, do the following:
 - a. Enter an *Integration Name*. Names must be alphanumeric, but can also include underscores (_). The maximum length is 255 characters. The name should reflect its end purpose. For example, if the Integration Key will be used to integrate with an Office365 or DropBox application, you might use *office365IntegrationKey* or *DropBoxIntegrationKey* respectively. Please note this name. You will need to know it to retrieve the key that is created. (See <u>Retrieving Your Integration Key</u> for more information.)
 - b. Enable the scope options for your application. To enhance security, enable only those options that are required by your application. (The example below shows one possible set of options.)

Integration Keys can be used to enable legacy third-party applications to access Adobe Sign data. If your application requires an Integration Key, create one by providing a name below and selecting which permissions to grant to this application. This Integration Key will have permanent access to your account until it is revoked. Integration Name: DesktopIntegrationKey Enabled? Scope Description User_read View users in your account User_write Create or manage users within your account User_login Login on behalf of any user in your account agreement_read Access documents & data on behalf of any user in your account agreement_write Manage the status of documents on behalf of any user in your account User_wridget_read View widgets on behalf of any user in your account User_write Create, edit or publish widgets on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Create, edit or publish widgets on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Create, edit or publish widgets on behalf of any user in your account User_write Manage the templates and document library on behalf of any user in your account User_write Create workflows on behalf of any user in your account User_write Create workflows on behalf of any user in your account User_write Create workflows on behalf of any user in your account	Create In	itegration Ke	ey ×
Integration Name: DesktopIntegrationKey Enabled? Scope Description	Integration Key If your applicat application. This Integration	ys can be used to ena tion requires an Integr n Key will have perm a	ble legacy third-party applications to access Adobe Sign data. ration Key, create one by providing a name below and selecting which permissions to grant to this anent access to your account until it is revoked.
Enabled? Scope Description Image: series of the state	Integration Nar	me: DesktopIntegra	ationKey
	Enabled? S Image: Constraint of the second secon	iser_read user_write user_login ugreement_read ugreement_write ugreement_send vidget_read vidget_write ubrary_read ubrary_write vorkflow_read vorkflow_write	Description View users in your account Create or manage users within your account Login on behalf of any user in your account Access documents & data on behalf of any user in your account Manage the status of documents on behalf of any user in your account Send documents on behalf of any user in your account View widgets on behalf of any user in your account Create, edit or publish widgets on behalf of any user in your account View templates and document library on behalf of any user in your account Manage the templates and document library on behalf of any user in your account View workflows on behalf of any user in your account Create workflows on behalf of any user in your account

8

Create	Integ	gration Ke	ey ×
Integration If your appl application. This Integra	Keys ca ication r ation Key	n be used to ena requires an Integ y will have perm	able legacy third-party applications to access Adobe Document Cloud data. gration Key, create one by providing a name below and selecting which permissions to grant to this manent access to your account until it is revoked.
Integration	Name:	DesktopIntegra	ationKey
Enabled?	Scode	2	Description
	user	read	View users in your account
	user	write	Create or manage users within your account
	user	login	Login on behalf of any user in your account
	agree	ment_read	Access documents & data on behalf of any user in your account
	agree	ment_write	Manage the status of documents on behalf of any user in your account
	agree	ment_send	Send documents on behalf of any user in your account
	widge	et_read	View widgets on behalf of any user in your account
	widge	t write	Create, edit or publish widgets on behalf of any user in your account
	library	read	View templates and document library on behalf of any user in your account
	library	y_write	Manage the templates and document library on behalf of any user in your account
	workf	low_read	View workflows on behalf of any user in your account
	workf	low_write	Create workflows on behalf of any user in your account
			Cancel Save

c. Click the Save button.

The new Integration Key displays in the Access Tokens page.

Access Toker	ns o		
Q Search		\oplus	≡
Application 🔺	Permissions	Date	
DesktopIntegration	View users in your account Create or manage users within your account Login on behalf of any user in your account Access documents & data on behalf of any user in your account Manage the status of documents on behalf of any user in your account Send documents on behalf of any user in your account View widgets on behalf of any user in your account Create edit or publish widgets on behalf of any user in your account	03/15/2	2016

Access Toke	ns 😋		()
Q Search		\oplus	≡
Application 🔺	Permissions	Date	
DesktopIntegration	View users in your account	09/24/201	5
	Create or manage users within your account		
	Login on behalf of any user in your account		
	Access documents & data on behalf of any user in your account		
	Manage the status of documents on behalf of any user in your account		
	Send documents on behalf of any user in your account		
	View widgets on behalf of any user in your account		
	Create, edit or publish widgets on behalf of any user in your account		

Retrieving Your Integration Key

You can retrieve Integration Keys using the Access Tokens page. Only an Account or Group Admin can retrieve an Integration Key.

To retrieve an Integration Key:

1. Click the Account tab, click on Personal Preferences, then click Access Tokens.

L Adobe Document Cloud / eSign services		
Dashboard Send Manage	Reports Account	Rene 👻
Q Searc	Access Tokens o	(i)
Personal Preferences My Pr file	Q Search	⊕ ≡
Access Tokens eFax Integration	DesktopIntegration View users in your account Create or manage users within your account	09/24/2015
Twitter Integration	Login on behalf of any user in your account Access documents & data on behalf of any user in your account	
Auto Delegation	Manage the status of documents on behalf of any user in your account	
My Events/Alerts	Send documents on behalf of any user in your account View widgets on behalf of any user in your account	
Shared Events/Alerts	Create, edit or publish widgets on behalf of any user in your account	

2. In the Access Tokens page, click to select the row for your Integration Key access token.

Access Toke	ns o		i
Q Search	Revoke	÷	=
DesktopIntegration	View users in your account Create or manage users within your account Login on behalf of any user in your account Access documents & data on behalf of any user in your account Manage the status of documents on behalf of any user in your account Send documents on behalf of any user in your account View widgets on behalf of any user in your account Create, edit or publish widgets on behalf of any user in your account	09/24/20	315

3. Click Integration Key.



4. A dialog displaying the Integration Key displays.

Integration Key For DesktopIntegrationKey	×
Your Integration Key is: 2AAA xQ2Tst04* Please keep your key confidential and secure XQ2Tst04*	
	ОК

5. Click **OK** to close the dialog.

Revoking Access and OAuth Tokens

Access tokens as well as OAuth refresh tokens can be revoked. If an access token is revoked and it has a corresponding refresh token, the refresh token is also revoked. Only an Account or Group Admin can revoke an Access or OAuth Token.

To revoke an Access or OAuth Token:

1. Click the Account tab, click on Personal Preferences, then click Access Tokens.

xl Adobe Sign				?
Dashboard Send Manage	Reports Account		R	ene 👻
Q Search	Access Toke	ns o		
Personal Preferences	Q Search		\oplus	≡
My Profile	Application 🔺	Permissions	Date	•
Access Tokens	DesktopIntegration	View users in your account	03/1	5/2016
eFax Integration		Create or manage users within your account Login on behalf of any user in your account		
Twitter Integration		Access documents & data on behalf of any user in your account		
Auto Delegation		Send documents on behalf of any user in your account		
My Events/Alerts		View widgets on behalf of any user in your account Create, edit or publish widgets on behalf of any user in your account		

Adobe Document Cloud / eSign) services	?
Dashboard Send Manage	Reports Account	Rene 👻
Q Search	Access Tokens o	0
Personal Preferences My Pr file	Q Search	⊕ ≡
Access Tokens eFax Integration	DesktopIntegration View users in your account Create or manage users within your account	09/24/2015
Twitter Integration	Login on behalf of any user in your account Access documents & data on behalf of any user in your account	
Auto Delegation	Manage the status of documents on behalf of any user in your account	ount
My Events/Alerts	Send documents on behalf of any user in your account View widgets on behalf of any user in your account	
Shared Events/Alerts	Create, edit or publish widgets on behalf of any user in your accou	nt

2. Select the row for your Access or OAuth Token.

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Integration Key	Revoke		
DesktopIntegration	View users in your account	03/15/	2016
	Create or manage users within your account		
	Login on behalf of any user in your account		
	Access documents & data on behalf of any user in your account		
	Manage the status of documents on behalf of any user in your account		
	Send documents on behalf of any user in your account		
	View widgets on behalf of any user in your account		
	Create, edit or publish widgets on behalf of any user in your account		

Access Toke	ns o		0
Q Search	Revoke	\oplus	=
DesktopIntegration	View users in your account Create or manage users within your account Login on behalf of any user in your account Access documents & data on behalf of any user in your account Manage the status of documents on behalf of any user in your account Send documents on behalf of any user in your account View widgets on behalf of any user in your account Create, edit or publish widgets on behalf of any user in your account	09/24/20	015

3. Click **Revoke**.

Access Toke	ns o		
Q Search		\oplus	≡
Integration Key	Revoke		
DesktopIntegration	View users in your account	03/15/	2016
	Create or manage users within your account		
	Login on behalf of any user in your account		
	Access documents & data on behalf of any user in your account		
	Manage the status of documents on behalf of any user in your account		
	Send documents on behalf of any user in your account		
	View widgets on behalf of any user in your account		
	Create, edit or publish widgets on behalf of any user in your account		

Access Toke	ns o		(j	
Q Search	Revoke	(+)	-	:
DesktopIntegration	View users in your account Create or manage users within your account Login on behalf of any user in your account Access documents & data on behalf of any user in your account Manage the status of documents on behalf of any user in your account Send documents on behalf of any user in your account View widgets on behalf of any user in your account Create, edit or publish widgets on behalf of any user in your account	09/24/20	015	

4. In the *Delete* dialog, click **Yes**.



The Access Token page redisplays showing that the token has been deleted.

Creating Your Application

You must create your application in Adobe Sign before you can authorize and integrate it. (See also <u>Using</u> <u>OAuth to Access Adobe Sign APIs</u> for more information). Only an Account or Group Admin can create an application.

To create an application:

1. Click the Account tab, click on Adobe Sign API, then click API Applications.

<u>× &</u> Adobe Sign					New!	?
Dashboard Send	Manage	Reports Acc	count		R	ene 👻
Q Search	/	API App	ications o			
Personal Preferences	~	Q Search			\oplus	≡
Users		Name	Application ID	Created 🝷	Status	
Groups						
Account Settings	~		No Data	Available		
Billing Info	~					
Workflow						
Adobe Sign API	^					
API Information						
API Recuest Log						

Adobe Document Cloud / eSign services						?
Dashboard Send M	anage	Reports	bunt		Rei	ne 🔻
Q Search		API Appli	cations o			
Personal Preferences	~	Q Search			\oplus	≡
Users		Name	Application ID	Created 👻	Status	
Groups						
Account Settings	~		No Data	Available		
Billing Info	~					
Adobe DC eSign API	^					
API Information						
API Request Log						
API Applications						

2. Click the Create button ($\textcircled{\oplus}$).

API Appl	ications o		
Q Search			⊕ ≡
Name	Application ID	Created -	Status

API Applications \odot	
Q Search	⊕ ≡

- 3. In the *Create* dialog, do the following:
 - a. Enter a Name and Display Name for your application.

*
application to issue a set of credentials for use with Adobe Sign's API
 CUSTOMER (This application will only have access to data within your account) PARTNER (This application will have access to any authorized Adobe Sign account)
Cancel Save
×
r application to issue a set of credentials for use with Adobe Document
 CUSTOMER (This application will only have access to data within your account)
 PARTNER (This application will have access to any authorized Adaba Document (loud account)
Adobe Document cloud account)

- b. Select one of the following **Domain** options:
 - **Customer**—Specifies that the application can only access data within your account. Select this option you're developing an application for internal use.
 - **Partner**—Specifies that the application can access any authorized Adobe Sign account. Select this option if you're developing an application for other users.
 - **Note:** Partner applications will not have full access to other accounts until they have been Certified. Click <u>here</u> to learn more about Certification.
- c. Click Save.

Configuring OAuth for Your Application

If you will be using OAuth with your application, you must configure OAuth. Please note your "Client Id" and "Client Secret". You will need this information to exchange tokens. Before you begin, please identify which Uniform Resource Identifier (URI) or URIs should be used. Please note that the redirectUri specified in your OAuth requests must belong to this list of URIs. You can include multiple uris separated by commas in your list. Only an Account or Group Admin can configure OAuth for an application.

To configure OAuth for your application:

1. Click the Account tab, click on Adobe Sign API, then click API Applications.

×L Adobe Sign				New!	?
Dashboard Send Manage	Reports Acc	count		Re	ene 👻
Q Search	API Appl	ications o			
Personal Preferences 🗸 🗸	Q Search			\oplus	≡
Users	Name	Application ID	Created -	Status	
Groups					
Account Settings 🛛 🗸		No Data	Available		
Billing Infc 🛛 🗸 🗸					
Workflow					
Adobe Sign API					
API Information					
API Recuest Log					
API Applications					

人 Adobe Document Clo	ud / eSigr	n services				?
Dashboard Send M	lanage	Reports]		Rei	ne 🔻
Q Search		API Applicat	tions e			()
Personal Preferences	~				æ	_
Users		Q Search			Ð	=
Groups		Name Desktop Integration	Application ID FZ ⁷ D	Created	Status ACTIVE	
Account Settings	~					
Billing Info	~					
Adobe DC eSign API	^					
API Information API Request Log						
API Applications						

2. On the API Applications page, click to select the application to be configured.

API Applications 😋		
Q Search	\oplus	≡
View / Edit Deactivate Configure OAuth for Application		
Desktop Integration CBJCHBCAABAA9ScADB_CXwBND5O5YuMUKV 03/16/2016 05:19	ACTIVE	

API Applications \odot			()
Q Search View / Edit Deactivate Configure OAuth for Application		ŧ	=
Desktop Integration F2 7D	09/24/2015 08:00	ACTIVE	

3. Click **Configure OAuth for Application**.

API Applications o		
Q Search	\oplus	≡
View / Edit Deactivate Configure OAuth for Application		
Desktop Integration CBJCHBCAABAA9ScADB_CXwBND5O5YuMUKV 03/16/2016 05:19	ACTIVE	

API Applications 💩			(i)
Q Search		ŧ	≡
View / Edit Deactivate Configure OAuth for Application			
Desktop Integration F2 7D	09/24/2015 08:00	ACTIVE	

The Configure OAuth dialog displays.

workflow_read

workflow_write

account

Configu	ire OAuth		×
Client ID:	CB,		
Client Secret	t. ID'		
client secre	Note: Yeu m	ust koop wour Clier	t Secret confidential
	Note: You m	ust keep your clier	it Secret confidential.
Redirect UR	1:		
	Note: The re as comma se	directUri specified eparated list.	in your OAuth requests must belong to this list of uris. You can mention multiple uris
Enabled Sc	opes		
You must en minimum se	able the scopes that yo t necessary for your ap	ou intend to reque oplication, which is	st through the OAuth protocol. Please limit the scopes that you enable to the one of the requirements for Certification.
Please conta	ct support if you need	to change which s	copes are enabled for your application.
Note that on OAuth reque	ly Group Admins can a ests that use the ":accou	approve OAuth rec unt" scope modifie	uests that use the ":group" scope modifier, and only Account Admins can approve r
Enabled?	Scope	Modifier	Description
	user_read	account	View users in your account
	user_write	account	Create or manage users within your account
	user_login	account	Login on behalf of any user in your account
	agreement_read	account	Access documents & data on behalf of any user in your account
	agreement_write	account	Manage the status of documents on behalf of any user in your account
	agreement_send	account	Send documents on behalf of any user in your account
	widget_read	account	View widgets on behalf of any user in your account
	widget_write	account	Create, edit or publish widgets on behalf of any user in your account
	library_read	account	View templates and document library on behalf of any user in your account
	library_write	account	Manage the templates and document library on behalf of any user in your account

View workflows on behalf of any user in your account

Create workflows on behalf of any user in your account

Configu	ire OAuth			×	<
Client ID:	E	F2 7D			
Client Secret	: NTPNsSp5F	BHDWBRGszpi	rPCO-(GJi03SsL	
	Note: You m	ust keep your (Client S	Secret confidential.	
Redirect URI	:				1
	Note: The re	directUri specif	fied in	your OAuth requests must belong to this list of uris. You can mention multiple uris	
	as comma s	eparated list.			
Enabled Sc	opes				
You must en minimum se	able the scopes that yo t necessary for vour as	ou intend to rea oplication, whic	quest 1 :h is or	through the OAuth protocol. Please limit the scopes that you enable to the ne of the requirements for Certification.	
Please conta	ct support if you need	to change whi	ch sco	pes are enabled for your application. 🔇	
Note that on	ly Group Admins can	approve OAuth	reque	ests that use the ":group" scope modifier, and only Account Admins can approve	
OAuth reque	sts that use the ":acco	unt" scope moo	difier.		
Enabled?	Scope	Modifier		Description	
	user_read	account	Ť	View users in your account	
	user_write	account	×	Create or manage users within your account	
	user_login	account	÷	Login on behalf of any user in your account	
	agreement_read	account	*	Access documents & data on behalf of any user in your account	
	agreement_write	account	*	Manage the status of documents on behalf of any user in your account	
	agreement_send	account	*	Send documents on behalf of any user in your account	
	widget_read	account	*	View widgets on behalf of any user in your account	
	widget_write	account	*	Create, edit or publish widgets on behalf of any user in your account	
	library_read	account	*	View templates and document library on behalf of any user in your account	
	library_write	account	÷	Manage the templates and document library on behalf of any user in your account	
	workflow_read	account	*	View workflows on behalf of any user in your account	
	workflow_write	account	Å	Create workflows on behalf of any user in your account	
				Cancel Save	

- 4. In the *Configure OAuth* dialog, do the following:
 - a. Enter a single Redirect URI or multiple URIs separated by commas. The Redirect URI is the page on your website that users will be returned to after the OAuth flow.
 - b. Enable each of the required scopes as required then select a modifier (self, group, account) for each.

Enabled? Scope	self group ✓ account	Description View users in your account
----------------	----------------------------	---

c. Click Save.

Adobe Sign Scenarios

The following scenarios describe the process of building integrations between applications and Adobe Sign using the REST and SOAP-based APIs.

Scenario 1: Sending & Tracking from an Application with REST-based API

This common scenario involves a 3rd party application (e.g., a CRM system or a document management system) sending document(s) for signature either automatically or due to user-initiated actions. The status of the document and the audit trail need to be exposed in the sending application and when the document is signed, a PDF copy of the signed agreement is retrieved and stored in the application.

This integration scenario can be accomplished as follows:

1. Sending a document for Signature: To send a document out for signature through the Adobe Sign REST-based API, you must first call /transientDocuments, POST to upload the document. This is a multipart request consisting of filename, mime type, and the file stream. The returned transientDocument ID is to be used to refer to the document in the agreement creation call (/agreements, POST). The application will specify the recipients and other sending options required for the transaction. The application can specify a callback URL that will be used by Adobe Sign to notify the external application when an event occurs or deliver the signed and completed document to the calling system when the signature process is complete.

Adobe Sign returns a unique Agreement Id for each request. This Agreement Id can be used to retrieve upto-date status of the agreement either by polling or when Adobe Sign notifies the calling application of change of status for the document or for retrieving the signed copy of the agreement.

2. **Checking the status of an agreement:** You can get the most current status of an agreement by calling */agreement/{agreementId} GET*. This method takes your OAuth token in the header and Agreement Id as a parameter. Adobe Sign will return the current status of the agreement and a complete history of events that have happened thus far on the particular agreement.

Adobe Sign supports two mechanisms for an external application to reflect the most current or up-to-date status for an agreement sent for signature. The simplest mechanism is for your application to provide a callback URL when sending the document for signature. Adobe Sign will then ping your service whenever the status of the agreement changes. Upon receiving a callback, your application can then call Adobe Sign to get the latest status on the agreement. The callback URL included in the request must be accessible to Adobe Sign (i.e., must be Internet facing).

By default, the callback URL is called whenever an event involving a particular transaction occurs in Adobe Sign. The callback includes the Document Key of the agreement whose status has changed, the current status of the agreement, and information on the event that resulted in the callback. Your application logic can evaluate the received status and decide whether to perform an action in the calling system. The callback request looks something like:

https://<yourURL>? documentKey=<docKey>&status=<documentStatus>&eventType=<event>

In addition to HTTP GET, Adobe Sign also alternatively supports HTTP PUT for receiving events about the signature process, included in the request will be the completed signed PDF. Adobe Sign uses an HTTP

PUT request to return the signed PDF. Please ensure that your application can correctly handle such a request. Please contact Adobe Support or your assigned Client Success Manager to get your account configured to receive HTTP PUT events.

The second mechanism to reflect the most current or up-to-date status of an agreement sent for signature is for your application to periodically poll Adobe Sign regarding the agreement's status. The upside of polling is that it can be used in cases where your calling application is behind your firewall and not accessible from the Internet thus enabling Adobe Sign to complete a callback. The down side of polling is that you have to create a scheduling mechanism within your application to periodically query the status of all documents that were not yet signed, check whether the document's status has changed, and update your system accordingly. If you choose to use polling, we recommend you have different policies based on document "age" In other words, you would reduce the frequency of polling for documents not signed after X days.

3. Retrieving the signed PDF: Once an agreement is signed, your application can retrieve the signed copy of the PDF and store that within your application. The signed agreement can be retrieved by calling /agreements/{agreement/d}/combinedDocument GET. This will return a single combined PDF document for the documents associated with the agreement. To retrieve any supporting document, you can call /agreements/{agreement/d}/documents GET. This will return the IDs of all the main and supporting documents of an agreement. The returned document ID can be used in the /agreements/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{agreement/d}/documents/{documents/{documents/{agreement/d}/documents/{documents

Depending on your application, you can also retrieve the form field data that your signer may have filled in to the document when signing the document by calling */agreements/{agreement/}/formData GET*. The data can be used to update your calling application with the information provided by the signer during signing.

Scenario 2: Sending & Tracking from an Application with SOAP-based API

This common scenario involves a 3rd party application (e.g., a CRM system or a document management system) sending document(s) for signature either automatically or due to user-initiated actions. The status of the document and the audit trail need to be exposed in the sending application and when the document is signed, a PDF copy of the signed agreement is retrieved and stored in the application.

This integration scenario can be accomplished as follows:

 Sending a document for Signature: To send a document out for signature through the Adobe Sign SOAPbased API, call the *sendDocument* method. The application will specify the recipients, files and other sending options required for the transaction. The application will specify a callback URL that will be used by Adobe Sign to notify the external application when an event occurs or deliver the signed and completed document to the calling system when the signature process is complete.

Adobe Sign returns a unique Document Key for each request. This Document Key can be used to retrieve up-to-date status of the agreement either by polling or when Adobe Sign notifies the calling application of change of status for the document or for retrieving the signed copy of the agreement.

2. Checking the status of a document: You can get the most current status of a document by using the *getDocumentInfo* method. This method takes your OAuth token and Document Key parameters. Adobe Sign will return the current status of the agreement and a complete history of events that have happened thus far on the particular document.

Adobe Sign supports two mechanisms for an external application to reflect the most current or up-to-date status for an agreement sent for signature. The simplest mechanism is for your application to provide a callback URL when sending the document for signature. Adobe Sign will then ping your service whenever the status of the agreement changes. Upon receiving a callback your application can then call Adobe Sign to get the latest status on the agreement. The callback URL included in the request must be accessible to Adobe Sign (i.e., must be Internet facing).

By default, the callback URL is called whenever an event involving a particular transaction occurs in Adobe Sign. The callback includes the Document Key of the agreement whose status has changed, the current status of the agreement, and information on the event that resulted in the callback. Your application logic can evaluate the received status and decide whether to perform an action in the calling system. The callback request looks something like:

https://<yourURL>? documentKey=<docKey>&status=<documentStatus>&eventType=<event>

In addition to HTTP GET, Adobe Sign also alternatively supports HTTP POST for receiving events about the signature process, included in the request will be the completed signed PDF. Adobe Sign uses an HTTP POST request to return the signed PDF. Please ensure that your application can correctly handle such a request. Please contact Adobe Support or your assigned Client Success Manager to get your account configured to receive HTTP POST events.

The second mechanism to reflect the most current or up-to-date status of an agreement sent for signature is for your application to periodically poll Adobe Sign regarding the agreement's status. The upside of polling is that it can be used in cases where your calling application is behind your firewall and not accessible from the Internet thus enabling Adobe Sign to complete a callback. The down side of polling is that you have to create a scheduling mechanism within your application to periodically query the status of all documents that were not yet signed, check whether the document's status has changed, and update your system accordingly. If you choose to use polling, we recommend you have different policies based on document "age". In other words, you would reduce the frequency of polling for documents not signed after X days.

3. **Retrieving the signed PDF:** Once an agreement is signed, your application can retrieve the signed copy of the PDF and store that within your application. The signed agreement can be retrieved using the *getDocuments* method in the API. This API method supports several arguments to allow retrieving the signed documents separately or allow retrieving any supporting documents that the signer may have uploaded during signing, etc.

Depending on your application, you can also retrieve the form field data that your signer may have filled in to the document when signing the document using the *getFormData* method. The data can be used to update your calling application with the information provided by the signer during signing.

Scenario 3: Embedding Adobe Sign eSigning in An Application

Another common scenario involves an application where users need to sign documents within the application as part of a process. For example, a partner portal for onboarding new partners that requires them to sign an NDA or an e-commerce application that requires users to sign a purchase agreement. In these cases, the document is not sent to recipients for signature, but is presented to them within your application.

For this type of integration, Adobe Sign supports creating a **Widget** through the Adobe Sign APIs. A widget is like a reusable template that can be presented to users multiple times and signed multiple times. Each time a widget gets signed, the signed document becomes a separate instance of the document. A good way to think about the relationship of the widget and the documents signed through it is a parent-child relationship.

A widget can be presented either to an anonymous signer, in which case Adobe Sign can validate the signer's identity as part of the signing process, or to a signer whose identity can be specified through the API by the hosting application.

For a simple example using Widgets, go to http://www.formerator.com.

The Widget integration scenario can be accomplished as follows using the Adobe Sign REST-based API:

Creating a Widget: To create a widget through the API, you must first call /transientDocuments, POST to
upload the document. This is a multipart request consisting of filename, mime type, and the file stream.
The returned transientDocument ID is to be used to refer to the document in the widget creation call
(/widgets, POST). The API end-point, in addition to the widget key, returns an embed-code, which can be
used for embedding the widget within your application as well as a URL at which the widget gets hosted.
The URL can be posted within your application for users to navigate to for signing a document. If the
identity of the person signing the widget is known a priori, the widget can also be personalized with the
signer's information using the provided personalization method PUT /widgets/{widgetId}/personalize.

When creating the widget your application may also specify the address of the Web page that users will be redirected to when they successfully complete signing the widget.

2. Checking the status of documents signed through a widget: As mentioned earlier, each time a widget is signed a separate instance of a document gets created.

To get the agreements created using the widget, call /widgets/{widgetID}/agreements GET where widgetID is the key returned by the service while creating the widget.

To retrieve the data filled by the users at the time of signing the widget, call /widgets/{widgetID}/formData GET. The service returns data in comma-separated value (CSV) file format.

The first line includes the column header names and each row represents a distinct instance of the widget. The document keys of all child widgets will be in the first column, under "EchoSign transaction number". See example below:

```
EchoSign transaction number, Agreement name, signed, email
12ABC3D456E7F,test widget,2/5/10 09:21,email@domain.com
98ZYX7W654V3U,test widget,2/6/10 11:56, email2@domain.com
```

If the child document is signed by two signers, there will be two rows in the CSV with the same document key. See example below:

```
EchoSign transaction number, Agreement name, signed, email
12ABC3D456E7F,test widget,2/5/10 09:21,email@domain.com
98ZYX7W654V3U,test widget,2/6/10 11:56,email2@domain.com
12ABC3D456E7F,test widget,2/6/10 13:37,email3@domain.com
```

Exposing Additional Adobe Sign Actions

In addition to sending documents for signature and tracking the status of the document, your application can also expose additional actions to its users allowing them to cancel an agreement when it's still out for signature or send a reminder to the current signer while the document is waiting for signature. These additional actions allow users to interact with the Adobe Sign functionality entirely from within your application.

See the Getting Started document for a list of available documentation resources.

Adobe Sign Events

The functionality of Adobe Sign can be incorporated into external applications by directly embedding the Adobe Sign user interface (UI) within these applications. Adobe Sign also supports sending events (status updates) to the third party application pages so that the external application is aware of the actions that the user is performing with the Adobe Sign UI. These events are passed between the controller window and a receiver window running on different domains for event communication. This section provides a guide to all the events supported by Adobe Sign.

Event System Requirements

Using the event framework within Adobe Sign requires the user of a browser, which supports postMessage. See https://developer.mozilla.org/en-US/docs/Web/API/Window.postMessage for support browsers.

List of Supported Events

The following table lists the Adobe Sign supported UI events that can be embedded and presented within the UI of external applications.

Event Type	Data	Description
· ·		•

WORKFLOW EVENTS

'ESIGN'	NONE	This event gets fired after a user has successfully signed an agreement.
'REJECT'	NONE	This event is fired after a user rejects an agreement.
'PREFILL'	NONE	This event is fired after a user completes prefilling an agreement and sends it.

PAGE LOAD EVENTS

'PAGE_LOAD'	pageName: 'POST_SEND' apiAgreementId: ' <agreement capability>'</agreement 	This event fires when an agreement has been successfully sent and the post send page has been loaded.
'PAGE_LOAD'	pageName: 'DIGSIG_DOWNLOAD'	This is a special event that is fired for documents requiring Digital Signatures. This event fires when a user has completed all the required fields in a document and page to download the document for Digital Signature gets loaded.
'PAGE_LOAD'	pageName: 'AUTHORING'	This event fires when the form-field authoring page loads for an agreement.
'PAGE_LOAD'	pageName: 'DELEGATION'	This event fires when the page from which an agreement can be delegated gets loaded. The

Event Type	Data	Description
		loading of the page does guarantee that
		delegation has or will actually occur.
'PAGE_LOAD'	pageName: 'MANAGE'	This event fires when the manage page loads.
'PAGE_LOAD'	pageName: 'LOGIN'	This event fires when the login page loads.
SESSION EVENTS	I	
'SESSION_TIME OUT'	message:'PRE_SESSION_TIM EOUT'	This event is triggered two seconds before session timeout dialogue is displayed to the user. The UI
	warningTimeMinutes: <float></float>	shows "Your session is about to expire" message to
	expirationTimeMinutes: <float></float>	the user.
		The warningTimeMinutes and expirationTimeMi
		nutes values correspond to the warning & session
		timeout times in minutes.
'SESSION_TIME OUT'	message:'POST_SESSION_TI MEOUT'	This event is triggered when the user's session times out and the user is notified.
	warningTimeMinutes: <float></float>	
	ovpirationTimoMinutos: <floats< td=""><td></td></floats<>	
'ERROR'	message: <varies></varies>	This event fires when an error dialog or an error
		page is displayed to the user.
		Sustan Francisco 502 is returned
		General user error message: document
		processing or conversion errors

USER ACTION EVENTS

'CLICK'	pageName: 'POST_SEND' or 'POST_SIGN'	This event fires when the user clicks on the "Manage this document" button in the post-send	
	target: 'MANAGE_LINK'	page. The URL data contains the full URL needed	
	url: ' <full url="" with<br="">agreementId>' apiAgreementId: '<agreement capability>'</agreement </full>	to bring up the manage page with the particular agreement selected. The apiAgreementId is the DocumentKey, used by client application making the API calls.	
'CLICK'	pageName: 'POST_SEND' or 'POST_SIGN'	This event fires when the user clicks on the "Send another document" button.	
	target: 'SEND_ANOTHER_LINK'		

Using Adobe Sign Events

Adding an Event Handler on the Parent Page

In order to use the events fired by Adobe Sign, the external application should include a callback handler in the parent page that embeds the Adobe Sign application UI.

Below is an example event handler that can be placed in the parent page:

```
function eventHandler(e) {
    if (e.origin == "https://secure.echosign.com") {
        console.log("Event from EchoSign!", JSON.parse(e.data)); }
    else {
        console.log("Do not process this!");
    }
}
if (!window.addEventListener) {
    window.attachEvent('onmessage', eventHandler);
}
else {
    window.addEventListener('message', eventHandler, false);
}
```

Embedding the Adobe Sign UI in an iFrame

Adobe Sign provides APIs that allow embedding the Adobe Sign UI into an external application. The API call returns a URL which can directly be embedded into a child iFrame of the parent which includes the event listener.

<script type='text/javascript' language='JavaScript' src='ECHOSIGN URL'></script>