



**Adobe Acrobat Sign**

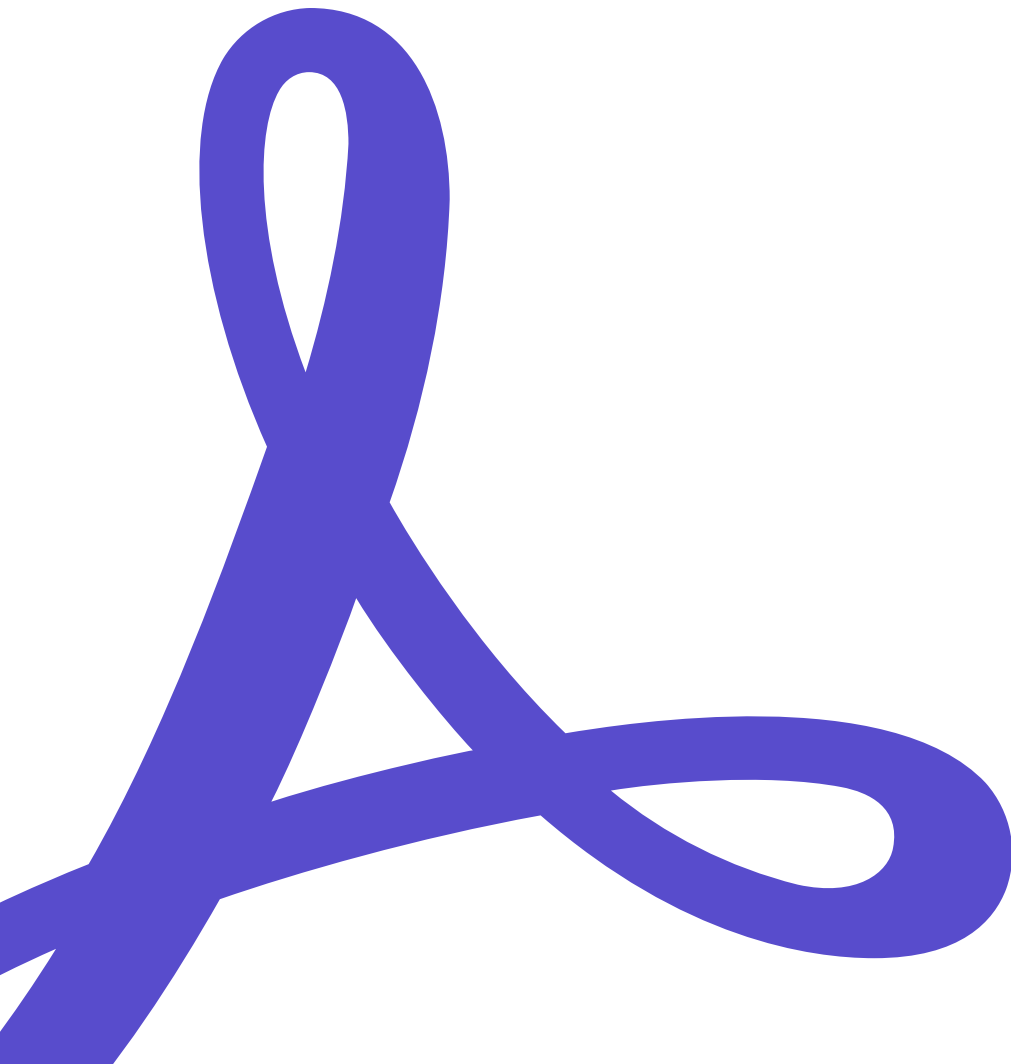


WHITE PAPER

# Adobe Acrobat Sign Solutions

**Acrobat Sign Solutions & Healthcare and Life Science**

**Organizations: A Handbook for 21 CFR and EudraLex Annex 11**



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# 1 Introduction

Acrobat Sign Solutions is a flexible and trusted cloud-based electronic signature service that enables organizations to manage any signing workflow – from the simplest standard signature to a highly secure certificate-based digital signature.

Today, many organizations operating under the United States (U.S.) Food and Drug Administration (FDA) oversight (such as food, drug, biologics, medical devices, cosmetics, and veterinary product companies) are choosing Acrobat Sign Solutions to implement automated electronic signature workflows in place of traditional paper-and-ink signature processes. The U.S. FDA enforces the 21 CFR Part 11 regulation to ensure that systems used to create, modify, maintain, or transmit electronic records are designed to safeguard the authenticity and integrity of the electronic records (including the electronic signatures applied to those records).

In the European Union (EU), EudraLex is the collection of rules and regulations governing medicinal products for human and veterinary use. Under EudraLex rules, Volume 4 Annex 11 establishes the conventions for using computerized systems.

For Healthcare and Life Science organizations operating under GxP regulations, being able to use Acrobat Sign Solutions in a manner that complies with 21 CFR Part 11 and/or EudraLex Annex 11 requirements is essential.

This handbook discusses how, with proper system implementation and appropriate procedural controls, electronic signatures generated through Acrobat Sign Solutions can be legally binding and compliant with the requirements of 21 CFR Part 11 and EudraLex Annex 11. This handbook describes key features available in Acrobat Sign Solutions along with typical use cases to illustrate how these features can be implemented to meet the requirements of 21 CFR Part 11 and EudraLex Annex 11. In addition to describing features, this handbook also covers the quality management processes implemented by Adobe that support the seamless adoption and continued use of Acrobat Sign Solutions.

## 2 Scope

This handbook provides information, guidance, and recommendations for the implementation and use of Acrobat Sign Solutions in a manner that meets 21 CFR Part 11 and Annex 11 requirements. The intended reader of this paper is the Healthcare and Life Science organization using Acrobat Sign Solutions as part of a GxP regulated process (“Customer”).

This handbook focuses on standardized scenarios for the application of electronic signatures to controlled GxP documents through the Acrobat Sign service as provided in Adobe Acrobat Sign Solutions, enterprise or business levels of service.

Acrobat Sign features provided in Acrobat Pro, Acrobat Standard, and Acrobat Reader are not 21 CFR Part 11 or EudraLex Annex 11 ready and are not considered within this handbook. Moreover, this handbook does not cover electronic signatures generated with Adobe Acrobat and Reader desktop, using APIs to connect systems to Acrobat Sign Solutions, or other applications.

While Acrobat Sign Solutions offer various features to facilitate the digitization of business processes, the use of functionality that supports the use of templates, web forms, custom workflows, and APIs is specific to each Customer's implementation. As such, these types of features are not discussed in this document.

Healthcare and Life Science organizations that are concerned with protecting Protected Health Information (PHI) in compliance with HIPAA can implement privacy and added security safeguards within Acrobat Sign Solutions. However, compliance with HIPAA is not explicitly addressed within this handbook.

While the information in this handbook is intended to help organizations understand the functionalities of Acrobat Sign Solutions that meet the requirements of 21 CFR Part 11 and EudraLex Annex 11, organizations should rely on their own legal counsel when planning a compliant deployment of Acrobat Sign Solutions.

## 3 Glossary of Terms

### 3.1 General Terms

<b>Adobe Admin Console</b>	An administrative portal used by enterprises to manage users and licenses across all Adobe products and services.
<b>Customer</b>	Any organization that subscribes to an Acrobat Sign Solutions account with the intention (in the case of this handbook) to use Acrobat Sign as part of a process that must be compliant with 21 CFR Part 11 and/or EudraLex Annex 11 requirements.
<b>Customer Account (or Acrobat Sign Account)</b>	A specific instance of Acrobat Sign Solutions belonging to a Customer.
<b>User</b>	Any person who is identified by a unique email address and who uses Acrobat Sign Solutions in the capacity of <i>Signer</i> , <i>Sender</i> , or <i>Administrator (Account, Group)</i> .
<b>User Account</b>	Information about the user (such as email address and password) that allows for the individuals who have been added to a Customer Account to authenticate to the system.

### 3.2 Groups, Roles, and Privileges

<b>Account Administrator</b>	An Acrobat Sign Solutions user with elevated permissions to define account settings, to create groups, and may be responsible for adding and/or administering users. Account Administrators must be members of the Customer Account.
<b>Group</b>	An entity within the Customer Account to which distinct configuration settings may be applied. Internal users are assigned to one or more groups.
<b>Group Administrator</b>	An Acrobat Sign Solutions user with limited administration capabilities to define group settings and may be responsible for administering users assigned to that group. Group Administrators must be members of the Customer Account. A user can be designated as Group Administrator of one or more groups.

<b>Sender</b>	<p>An Acrobat Sign Solutions user with appropriate permissions to send documents to Signers for the application of electronic signatures. To route a document for signature, the Sender uploads the document in the <i>Send</i> page interface within Acrobat Sign Solutions and specifies email addresses for the Signers (recipients).</p> <p>Senders must be members of the Customer Account.</p>
<b>Signer (or Recipient)</b>	<p>An individual assigned a request to apply an electronic signature to a document. The Signer receives an email containing a hyperlink to the document, informing them that the document is awaiting signature. Signers can access and sign documents from any device through a secure web browser session.</p> <p>Signers can be people inside or outside the Customer Account (i.e. a Signer does not necessarily need to have a user account).</p> <p>For the purposes of this document, we will refer to them as Internal or External described as follows:</p> <ul style="list-style-type: none"> <li>• An <b>Internal Signer</b> is any individual (identified by the email address) who is any active user within the same Customer Account from which the agreement was sent and who is the recipient of a request to apply an electronic signature to a document. Internal Recipient may be used interchangeably with Internal Signer. Self-signing is also possible when an Internal Signer has an agreement that they need to sign alone.</li> <li>• An <b>External Signer</b> is any individual who is not a member of the Customer Account from which the agreement was sent and who is the recipient of a request in Acrobat Sign Solutions to apply an electronic signature to a document. External Recipient may be used interchangeably with External Signer. Although External Signers do not need to have an Acrobat Sign user account to be able to sign an agreement, they can be a member of another Customer Account that is distinct from the account from which the agreement originated.</li> </ul>

### 3.3 21 CFR Part 11 Terminology

<b>Digital Signature</b>	An electronic signature based upon cryptographic methods of originator authentication, computed by using a set of rules and a set of parameters such that the identity of the Signer and the integrity of the data can be verified. (Ref. [1])
<b>Electronic Record</b>	Any combination of text, graphics, data, audio, pictorial, or other information representation in digital form that is created, modified, maintained, archived, retrieved, or distributed by a computer system, and subject to 21 CFR Part 11 requirements. (Ref. [1])
<b>Electronic Signature</b>	A computer data compilation of any symbol or series of symbols executed, adopted, or authorized by an individual to be the legally binding equivalent of the individual's handwritten signature. (Ref. [1])
<b>GxP</b>	Generic acronym for compliance standards including but not limited to, Good Clinical Practice (GCP), Good Laboratory Practice (GLP), Good Manufacturing Practice (GMP), Good Distribution / Documentation Practice (GDP), and Good Pharmacovigilance Practice (GVP)
<b>Predicate Rule</b>	Any requirement set forth in the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, or any FDA regulation other than 21 CFR Part 11.
<b>Signature Appearance</b>	A graphic that accompanies the signature manifestation and that identifies the Signer.
<b>Signature Manifestation</b>	<p>Signed electronic records shall contain information associated with the signing that clearly indicates all of the following (Ref. [1]):</p> <ol style="list-style-type: none"> <li>(1) The printed name of the signer;</li> <li>(2) The date and time when the signature was executed; and</li> <li>(3) The meaning (such as review, approval, responsibility, or authorship) associated with the signature.</li> </ol>

Note: While a “digital signature” is a form of “electronic signature”, not all electronic signatures are digital signatures. Within this handbook, the term “electronic signature” will be used universally to designate all types of signatures applied using Acrobat Sign Solutions. The term “digital signature” will be used exclusively when referring to a signature process where identification verification and issuance of a digital certificate is performed by an external trust services provider. For additional information about digital signatures, you can go [here](#).

## 4 Acrobat Sign Solutions in a GxP-Regulated Environment

The implementation of Acrobat Sign Solutions for the application of 21 CFR Part 11 and/or EudraLex Annex 11 electronic signatures involves putting in place technical and procedural controls to help customers meet regulatory requirements and business process needs. Acrobat Sign Solutions is designed to offer flexibility to its customers, empowering the customers to decide for themselves which features to use. It is important to understand the features available in Acrobat Sign Solutions to be able to make informed decisions related to the system configuration and necessary supporting processes.

### 4.1 Getting Started

Customers who have purchased Adobe Acrobat Sign Solutions, enterprise or business levels of service, can use the Adobe Admin Console to manage users, products, and Adobe entitlements across the entire organization. As soon as the contract has been purchased, the contract owner will receive an email from Adobe informing them that they have access to the Adobe Admin Console. Acrobat Sign Solutions plans can be purchased on a Per-User or a Per-Transaction basis, and this is reflected in how Acrobat Sign Solutions appears in the Admin Console.

While the user management and provisioning of access can be managed in the Adobe Admin Console, the Acrobat Sign-specific set up is done within the application itself. Before Acrobat Sign Solutions can be used, an Administrator must set up the account and configure it to meet the customer’s business needs. The set-up and configuration is managed by an individual (or group of individuals) given the Admin role in Acrobat Sign Solutions.

Some legacy Customers may have onboarded in a manner that does not use the Adobe Admin Console. These Customers will administer their Acrobat Sign Solutions account and users entirely from within the application interface.

Learn more about getting started with Acrobat Sign Solutions here:

<https://helpx.adobe.com/sign/using/admin-guide.html>

## 4.2 Use the *Bio-Pharma Settings* to support 21 CFR Part 11 requirements

### 4.2.1 Overview

In Acrobat Sign Solutions, the settings known as *Bio-Pharma Settings* include configuration parameters that are tied to helping customers meet 21 CFR Part 11 requirements.

Learn more about how Acrobat Sign Solutions can meet the requirements of 21 CFR Part 11 here: <https://www.adobe.com/content/dam/acom/en/security/pdfs/adobe-sign-compliance-21CFRpt11-wp-ue.pdf>

The *Bio-Pharma Settings* alone are insufficient to satisfy all 21 CFR Part 11 requirements, but they are necessary to control different components of the signing ceremony that are critical to uniquely identifying a signer and that impact the signature manifestation. The *Bio-Pharma Settings* are used to:

- Enable identity challenges and specify when those challenges occur (e.g., upon opening the document, clicking on a signature field, completing a signature ceremony).
- Enforce the use of signing reasons and manage a pre-defined list of reasons to choose from.

The use of *Bio-Pharma Settings* is discussed in greater detail in Section 4.10.

### 4.2.2 Considerations

The *Bio-Pharma Settings* allow configuration of the signature ceremony to require multiple authentications of the signer to assure their identity throughout the signing process. You can think of this in terms of an individual showing identification when entering a building, and again when entering a specific office or secure area that they work in. With *Bio-Pharma Settings*, it is possible to require the signer to authenticate when they open the document, and again every time they initiate a signature within that document.

The *Bio-Pharma Settings* are available to customers who subscribe to the Adobe Acrobat Sign Solutions, enterprise or business levels of service.

Learn more about configuring *Bio-Pharma Settings* here: <https://helpx.adobe.com/sign/using/bio-pharma-settings-configuration.html>

In addition to *Bio-Pharma Settings*, Healthcare and Life Science organizations that are concerned with protecting Protected Health Information (PHI) in compliance with HIPAA will also implement privacy and security safeguards within Acrobat Sign Solutions. Before processing protected health information through Acrobat Sign Solutions, the organization must enter into a Business Associate Agreement (BAA) with Adobe.

Learn more about HIPAA configurations and signing a Business Associate Agreement (BAA) with Adobe here:

<https://helpx.adobe.com/sign/using/adobesign-hipaa-settings.html#BAA>

## 4.3 Setting up the account with Groups

### 4.3.1 Overview

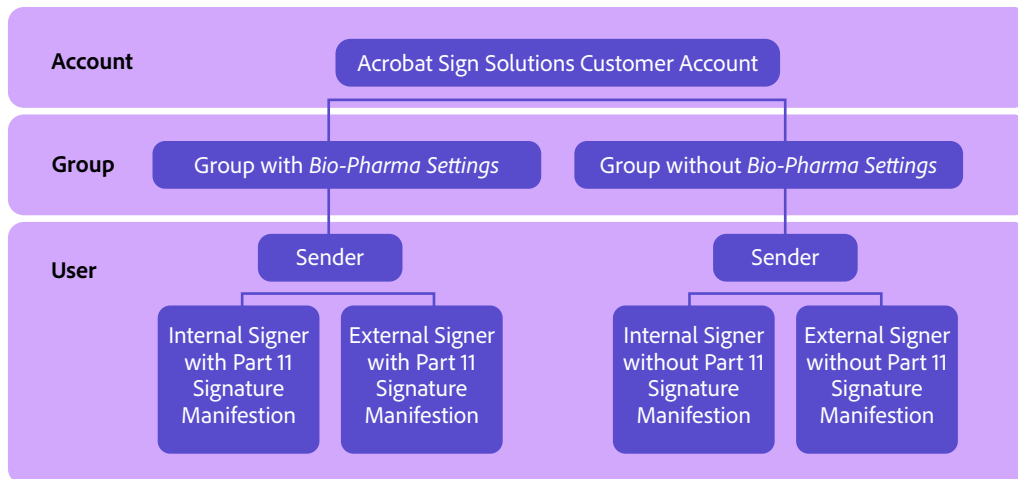
In Acrobat Sign Solutions, groups provide the ability to create subsets of users that have access to unique group settings, which can be extremely useful for defining classes of users that have unique signature requirements.

Learn more about adding and managing groups here:

<https://helpx.adobe.com/sign/using/adobe-sign-groups.html>

The Account Administrator can create groups within the account. Upon the creation of a new group, the group inherits the account-level settings. However, a group can be configured so that specific account settings are overridden at the group-level, making it possible to configure *Bio-Pharma Settings* at the group-level for certain group(s) only.

When business processes need to meet 21 CFR Part 11 requirements for electronic signatures, a dedicated group should be created and configured to use *Bio-Pharma Settings*. Authorized members of this group can send agreements to internal and external recipients for signature with *Bio-Pharma Settings* enforced. This setup is illustrated below.



With the activation of *Bio-Pharma Settings*, users are challenged to reauthenticate to Acrobat Sign Solutions at multiple instances during the signing process. Members of a group that uses *Bio-Pharma Settings* will also be required to reauthenticate whenever they are the only Signer on the agreement using the self-signing feature.



Multiple reauthentication during the signing process impacts overall productivity and user experience. This is acceptable and unavoidable when customers are trying to achieve 21 CFR Part 11 requirements for electronic signatures. However, not all business processes need to meet 21 CFR Part 11 requirements. In these cases, users should be added to a group that does not use the *Bio-Pharma Settings*. There is also an option to add users to multiple groups, so they can choose when to start transactions that yield Part 11 signature manifestations as well as other transactions.

### **4.3.2 Considerations**

21 CFR Part 11 regulations only apply to electronic records and electronic signatures that are created, maintained and/or submitted to the FDA according to an FDA predicate rule (see definition in Section 3.3). Customers should perform an analysis of their business processes to establish what type of documents will need to be signed using Acrobat Sign Solutions with *Bio-Pharma Settings* and those that do not. While planning the implementation of business processes that use Acrobat Sign Solutions, segregate the business processes impacted by 21 CFR Part 11 from those that are not, and then create groups to separate users of different business processes from one another.

Even if only one business process is identified initially, it is advisable to architect the account with a group structure so that scalability will be possible in response to future organizational needs.

## **4.4 Adding Users to the Account and Groups**

### **4.4.1 Overview**

The Acrobat Sign Solutions account and user access can be managed through two distinct administrative environments:

- (1) The Adobe Admin Console:  
When a Customer is onboarded, the first administrator is given access to the Admin Console and from there, additional administrators can be assigned. The administrator can manage users, their identities, and licenses across all Adobe products and services. User creation can be managed manually or automated through synchronization with your organization's enterprise directory.

From the Admin Console, the administrator can grant/revoke a user's access to the Acrobat Sign Solutions product and assign one of three authority roles: User (with no administrative authority), Sign Account Admin, Sign Account and Privacy Admin. The assignment of Acrobat Sign Solutions group membership and user permissions must then be managed from within the administrative environment of the Acrobat Sign Solutions account.

- (2) The Acrobat Sign Solutions application:  
From within the application, a user who is assigned administrator privileges in Acrobat Sign Solutions can manage configuration settings, features, and functionality of the application. Acrobat Sign Solutions administrators can also create and edit groups, assign users to group(s), and edit user permissions. Initially, when an end user or administrator is granted access to Acrobat Sign Solutions, that user is placed into the Default group in the account. However, an Acrobat Sign Solutions account administrator can move that user to another group within the account or assign them membership in multiple groups.

Legacy Customers who have onboarded without access to the Adobe Admin Console will administer their Acrobat Sign Solutions account and users entirely from within the application interface.

Note that an Admin Console administrator is not necessarily an administrator of the Acrobat Sign Solutions account; those administrative privileges are mutually exclusive.

Once a user is created, a user profile is generated in Acrobat Sign Solutions to capture personal information. The user profile ties the individual's first and last name to a valid email address. The user will use this email address to identify themselves to the Acrobat Sign Solutions service. Upon creation of the user account, the user will receive an email notification prompting them to log in to Acrobat Sign Solutions and accept the license entitlement.

Learn more about adding and managing users here:

<https://helpx.adobe.com/sign/using/add-users-to-account.html>

Through the user profile, an administrator may place the user in one or multiple groups. When the "Users in Multiple Groups" feature is enabled, users who are assigned *Send* privileges in multiple groups are allowed to send agreements from more than one group, with the Sender having the authority to decide which group an agreement originates from. This is especially important because the configuration settings associated to the Sender's group largely dictate the system-controlled properties (such as authentication methods, branding, PDF security) of the agreement. The Signer's experience will be dictated by the group-level settings of the group that the agreement originates from, irrespective of the group that the Signer belongs to. Failure to send an agreement from a group that is configured to generate compliant signatures will result in the collection of signatures that do not comply with the regulations.

Learn more about Users in Multiple Groups here:

<https://helpx.adobe.com/sign/using/users-in-multiple-groups.html>

## 4.4.2 Considerations

Acrobat Sign Solutions differentiates users by their unique email address. An email address can only be associated with a single Acrobat Sign Solutions account. Once a user is created in a Customer Account, that individual cannot be associated with a different Acrobat Sign Solutions account using the same email address. If an individual must be an active member of multiple Acrobat Sign accounts, they will require multiple unique email addresses. Errors during on-boarding users are usually the result of this requirement and can be resolved by contacting Adobe support to remove any conflicts that exist with the user's email address.

Customers should implement processes to ensure a unique email address is attributed to an individual prior to onboarding a user into the Customer Account. Appropriate procedural controls should also be put in place to ensure individuals have met all organizational requirements and completed the necessary training prior to being assigned a user account in Acrobat Sign Solutions.

To avoid the risk of fraudulent signatures, 21 CFR Part 11 requires that an individual's identity be verified before that individual is assigned an electronic signature. Organizations should implement a suitable identification verification process to confirm a person's identity (i.e., the person is who they claim to be) before onboarding a user into the Customer Account. This verification is usually performed just once by the customer or a trust service provider (TSP) and is carried out by validating an official ID document (e.g., passport, driver's license) or other piece of personally identifiable information. For practical reasons, many organizations couple the identification verification process with employee hiring and onboarding activities.

When a Sender has multiple group memberships, one group must be marked as the user's primary group whose properties will be applied by default when the Sender accesses the Send page. The Sender has the responsibility of retaining the primary group or selecting a different group (and all related group-level properties) that govern the Signer's experience and the properties of the resultant signatures. Following a conservative approach, it is advised to assign the group configured with *Bio-Pharma Settings* as the Sender's primary group to avoid the unintentional collection of non-compliant signatures due to the Sender's failure to send the agreement from the appropriate group.

## 4.5 Apply and manage user permissions

### 4.5.1 Overview

Once a user is created in the Customer Account, the *Users* settings can be configured to assign them elevating levels of authority which grant the ability to sign documents (*Signer* role) and send documents for signature (*Sender* role at the group-level). Higher-level administrative functions can also be assigned, such as group, account and privacy administrator roles.

A user can only see agreements that they participate in (i.e., agreements sent by them and sent to them), but the Sharing feature can be used to expose agreements from other users to a given user (refer to Section 4.15).

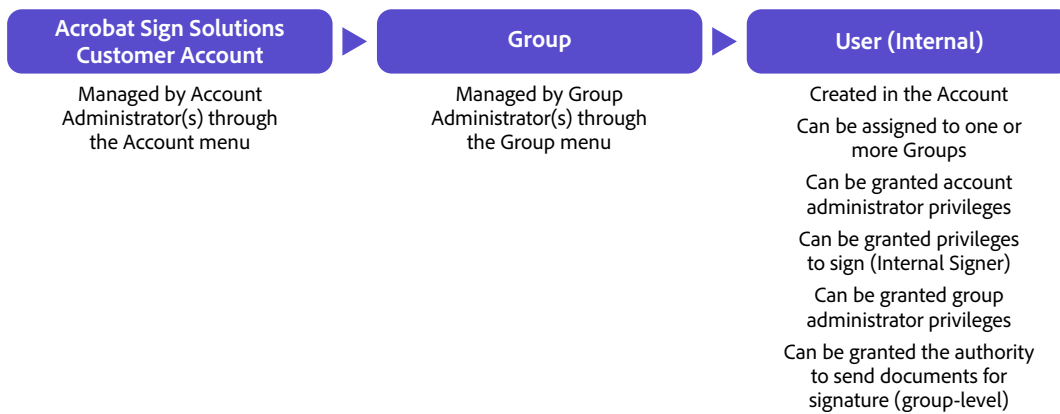


Figure 1: Relationship between Account, Group, and Internal User in Acrobat Sign Solutions

Learn more about editing a user's authority level here:

<https://helpx.adobe.com/sign/using/add-users-to-account.html#CanSign>

## Sender

When a document is sent for signature, the Sender assigns a signature request to one or more Signers. The *Send* configuration settings associated with the Sender's group are applied and control the document signature process. When the Sender is a member of more than one group, the Sender can decide from which group an agreement originates.

## Signer

A user in the sender's Customer Account who has been assigned permission to apply electronic signatures is deemed an *Internal Signer*. Typically, Customer Accounts are set up such that Internal Signers use their organization's Identity Provider (IdP) and Single Sign On (SSO) to identify themselves to the Acrobat Sign Solutions service during the signature process. While it is possible to set up a customer account to require Internal Signers to identify themselves to the Acrobat Sign Solutions service using other authentication methods, these methods are less practical and less commonly implemented.

An individual does not need to be a member of the Customer Account with signing privileges to sign an agreement. *External Signers* can be signers with a user account in another Customer Account or can be signers with no Acrobat Sign user account at all. Any *External Signer* can sign an agreement sent to them through Acrobat Sign Solutions. External users gain access only to the agreements which they are requested to sign; they do not gain access to the Acrobat Sign application interface from where agreements are sent and managed. Given the identity authentication requirements of compliant signatures, External Signers can use an ID created with Adobe as their identity authority. For information on authentication methods available for External Signers, please refer to Section 4.7.

## Administrators (Account, Group, Privacy)

Account Administrator(s) have full authority to edit account settings and group settings for every group within their account. The Account Administrator has the authority to add/remove users (for legacy Customer Accounts only), create new groups, and appoint group administrators. Group administrators can be given the authority to add users to their group and change their group's settings to override those set at the account level.

Learn more about adding users in groups here:  
<https://helpx.adobe.com/sign/using/adobe-sign-groups.html>

Multiple individuals can be assigned to Account Administrator and Group Administrator roles. However, the Group Administrator must be a member of the group for which they are acting as a Group Administrator.

Additionally, an Account Administrator can be assigned the Privacy Administrator role to enable the removal of users and agreements from the account. The Privacy Administrator role can only be assigned to user who is an Account Administrator.

Table 1: Administrator Responsibilities

Authority	Administrator (from Admin Console)	Account Administrator (within Acrobat Sign Solutions)	Group Administrator
Add new users to the account	X	[x]*	
Deactivate/reactivate users in the account	X	[x]*	
Remove users from the account (via Privacy Administrator role)		X	
Edit user profile		X	
Create groups		X	
Add users to a group		X	X
Assign the Account Administrator role to a user	X	[x]*	
Assign the Privacy Administrator role to a user	X	[x]*	
Assign the Group Administrator role to a user		X	X
Assign the Sender role to a user		X	X
Assign the Signer role to a user (Internal Signer)		X	X

\* For legacy Customers who have onboarded without access to the Adobe Admin Console, the addition/removal of users and assignment of administrator privileges can be accomplished within the Acrobat Sign Solutions application interface.

## 4.5.2 Considerations

For GxP business processes, appropriate procedural controls should be put in place to ensure that the Sender only requests signatures from Signers who have met all the organizational requirements authorizing them to sign controlled documents using electronic signatures. These procedural controls may include user training and/or maintaining a User Access List that Senders can consult to determine which individuals are permitted to apply electronic signatures.

If your organization is using Acrobat Sign Solutions to send agreements as part of both GxP and non-GxP business processes, the use of the group structure is recommended so that *Bio-Pharma Settings* can be applied to specific groups whose members must participate in those business processes to which 21 CFR Part 11 applies. The configuration settings associated to the Sender's group are applied during the signature process. Therefore, it is important to ensure that individuals who will act as Senders are assigned to a group that is configured to use *Bio-Pharma Settings*.

When using Acrobat Sign Solutions for GxP business processes, your organization should also assess whether:

- Appropriate supporting processes are in place to govern the controlled operation of the system and how configuration of the Acrobat Sign Solutions account is managed, ensuring that the *Bio-Pharma Settings* are maintained and applied when signing controlled documents with GxP regulated content.
- Controls are implemented to make sure that users in groups configured to use *Bio-Pharma Settings* meet all your organization's requirements for participating in GxP business processes. For example, you may decide to restrict group membership to users with corporate credentials, who in turn have completed internal onboarding and identification verification processes.

## 4.6 Signature types

### 4.6.1 Overview

Acrobat Sign Solutions supports *electronic signatures* that meet the requirements of the *ESIGN Act* as well as the *eIDAS Regulation* and many other e-signature regulations worldwide. Acrobat Sign Solutions also supports more secure, qualified *digital signatures* using a certificate-based digital identifier to confirm the signer's identity. Organizations can implement the signature type method that best fits their risk profile or that best supports their use cases.

Learn more about global e-signature laws here:

<https://www.adobe.com/trust/document-cloud-security/cloud-signatures-legality.html>

When implementing certificate-based digital signatures, an external trust services provider (TSP) will need to be selected. The trust service provider is an entity that is responsible for the creation, verification, and validation of digital signatures. Acrobat Sign Solutions supports the trust service providers identified in the Adobe Approved Trust List (AATL) and the European Union Trust List (EUTL).

Learn more about approved trust service providers here:

<https://helpx.adobe.com/acrobat/kb/approved-trust-list1.html>

and <https://helpx.adobe.com/document-cloud/kb/european-union-trust-lists.html>

Acrobat Sign Solutions also supports the trust service providers that are members of the Cloud Signature Consortium, an organization that defines a universal open standard for cloud-based digital signatures. More information can be found here:

<https://cloudsignatureconsortium.org/>.

## 4.6.2 Considerations

If choosing to use the certificate-based digital signature functionality, an external trust services provider will need to be selected and paid for separately. The Customer's vendor management procedures may require a formal assessment and proper due diligence of the trust service provider in order to ensure that they comply with the Customer's quality and service expectations.

Learn more about Acrobat Sign Solutions digital signatures here:

<https://helpx.adobe.com/sign/using/digital-signatures.html>

Obtaining a physical (wet ink) signature is sometimes unavoidable. Acrobat Sign Solutions can be configured to support obtaining written signatures while ensuring proper access control and leveraging the convenience and benefits of electronic processing and auditing.

Learn more about obtaining written signatures here:

<https://helpx.adobe.com/sign/using/obtain-written-physical-signature.html>

## 4.7 Identity authentication methods for electronic signatures

### 4.7.1 Overview

Identification is the act of presenting some record or qualifying personal information to confirm a person's existence. In comparison, identity authentication involves verifying the person's identity and some additional information to determine if the person is who they say they are. The simplest method is Single-factor authentication, and this is commonly achieved by checking one's identity claim (e.g., username) against only one "factor" (e.g. password). With multi-factor authentication, the robustness of the authentication is augmented with

the enforcement of more “factors”, which generally rely on at least one of the following: something you have — such as a token or device, something you know — such as a password or PIN, something you are — such as fingerprint or other biometrics.

Learn more about identity authentication methods in Acrobat Sign Solutions here: <https://helpx.adobe.com/sign/using/signer-identity-authentication-methods.html>

Acrobat Sign Solutions is designed to offer flexible authentication methods that meet the needs of diverse business processes. Identity authentication methods supported in Acrobat Sign Solutions are described in the table below. Organizations can select and implement the authentication method(s) that best fit their risk profile or that best support their use cases and budgetary allowances. While *Password based* and *Acrobat Sign* authentication methods are available at no additional cost, the following “premium” authentication methods are supported and require additional license terms and subscription fees to use with the application: *Knowledge-based authentication (KBA)*, *Phone authentication*, and *Government ID*.

Table 2: Identity authentication methods

Method	Description	Availability	Premium (\$)	Enforced authentication via BioPharma Settings is supported
<b>Single-factor</b>				
Email authentication	Recipient accesses an email link to establish a reasonable measure of identification	All service plans	No cost	No
Acrobat Sign authentication	Prompts the recipient to validate their identity by logging in with a valid ID created with Adobe (email address and password)	Business and enterprise only	No cost	Yes
<b>Two-factor</b>				
Password based authentication	Prompts the recipient to enter a signing password that is defined by the sender when setting up the agreement	All service plans	No cost	No
Knowledge-based authentication (KBA)	Prompts the recipient to correctly answer personal questions, e.g. “What is your mother’s maiden name?”	Business and enterprise only, Only for recipients in USA	Incurs additional per-use fees	No
Phone authentication	Prompts the recipient to enter a verification code that is sent to their phone via SMS or voice call	Business and enterprise only	Incurs additional per-use fees	Yes
Government ID	Instructs the recipient to supply a selfie image and an image of a government-issued document (driver’s license, passport)	Enterprise only	Incurs additional per-use fees	No

Acrobat Sign Solutions uses email as the default first-factor authentication method for recipients, considering that email addresses are unique and password-authenticated. If an agreement is sent with only *Email* authentication, clicking the hyperlink in the email will open the agreement directly for viewing and action by the recipient (without further authentication). Customers should apply proper governance procedures to ensure access to email inboxes is controlled according to best practices for information security.



Proper authentication methods are necessary for customers to meet their 21 CFR Part 11 requirements pertaining to authorization. While the *Email* authentication is sufficient for many business needs, the *Acrobat Sign* authentication method is preferred for business processes that require an authenticated event for each signature. Customers should evaluate their business needs and desired legal outcomes to determine which authentication method is appropriate for their use. With *Acrobat Sign* authentication, recipients are asked to authenticate to Acrobat Sign before they can view the agreement contents (unless they are already logged into Acrobat Sign Solutions).

Given the challenges of identifying individuals with electronic signatures, Customers may choose to use cloud-based digital signatures in a regulated environment. If certificate-based digital signatures are not chosen for use in the business process, it is judicious to use multi-factor authentication. Acrobat Sign Solutions supports two-factor authentication methods to verify the identity of a Signer. If an agreement is sent with two-factor authentication, clicking the hyperlink in the email will prompt the user to validate their identity prior to opening the agreement for viewing and action.

For business processes where 21 CFR Part 11 applies, *Bio-Pharma Settings* are used to require Signers to provide valid credentials several times during the signature process. Based on configuration for *Enforced Identity Verification*, the Signer may first be challenged prior to opening the agreement, next when the signature field is clicked, and finally when the *Click to Sign* button is pressed. There are options to control the use of the last two challenges, but at least one of them is required.

Any of the implemented methods (as selected in the *Send settings*) can be selected when setting up the agreement. However, the Sender must be aware that the enforced authentication controlled by *Bio-Pharma Settings* requires one of two authentication methods:

- **Phone authentication:** Phone authentication ties the Signer to a known physical phone device supplying the necessary second level of identity authentication. This method requires signers to enter a verification code that is sent to their phone (via SMS or voice call) before being allowed to view the agreement content and sign a document. There is a cost consideration for the use of Phone authentication. An additional charge is applied when this method is used. These fees are negotiated as part of your Acrobat Sign Solutions license agreement and are accounted for as part of the subscription fee for the service. Phone authentication transactions must be purchased before use and are consumed on a per-recipient basis.
- **Acrobat Sign authentication:** Acrobat Sign authentication either uses the identity provider of the account (when SSO is enabled) or uses an ID created with Adobe for authentication. With this method, Signers are required to provide valid credentials, consisting of their verified email address or an Adobe ID and password before being allowed to view the agreement content and sign a document. There are no additional fees for using the Acrobat Sign authentication method.

Learn more about enforced identity verification here:

<https://helpx.adobe.com/sign/using/enforced-identity-authentication.html>

While the *Bio-Pharma Settings* explicitly define where in the agreement the Signer will be challenged to authenticate themselves, the experience is dictated by the identity authentication method(s) specified within the *Send Settings* for the account or group. The *Send Settings* allow Customers to configure preferences for identity authentication as well as other parameters on the *Send* page interface. As part of the *Send Settings*, the administrator can control the authentication methods available to the Sender and determine if the Sender should be allowed to change from the default method. These settings are applied at the account level but can be overridden at the group level.

Default identity authentication methods can be defined for Internal and External Signers. It is possible to define different default methods for these two categories of Signers. For example, External Signers might always be required to use Phone authentication or to use an Adobe ID while Internal Signers might always default to using Acrobat Sign authentication with SSO enabled to authenticate.

If using the cloud-based digital signature functionality, the chosen identity authentication method will be enforced and additional credentials issued from a trust service provider (e.g., personal identification number (PIN) or one-time password (OTP)) will be requested from the Signer at the time of signing.

Acrobat Sign Solutions' Digital Identity Gateway was recently introduced, providing additional authentication options available for a fee. The Digital Identity Gateway allows organizations to deploy pre-configured third-party digital identity providers (IdP) and leverage their authentication and signer identity verification services using the standard OpenID Connect (OIDC) authentication protocol. However, the Digital Identity Gateway presently does not support enforced authentication controls enforced via Bio-Pharma settings and should be excluded from Part 11 implementations of Acrobat Sign Solutions.

Learn more about Acrobat Sign Solutions' Digital Identity Gateway here:

<https://helpx.adobe.com/sign/using/sign-config-digital-identity.html>

## 4.7.2 Considerations

Cost is a consideration when choosing the appropriate identity authentication method. *Acrobat Sign authentication* can be used for both Internal and External Signers. Using the *Acrobat Sign authentication* method can provide both a secure and no-cost method when *Phone* authentication is impractical.

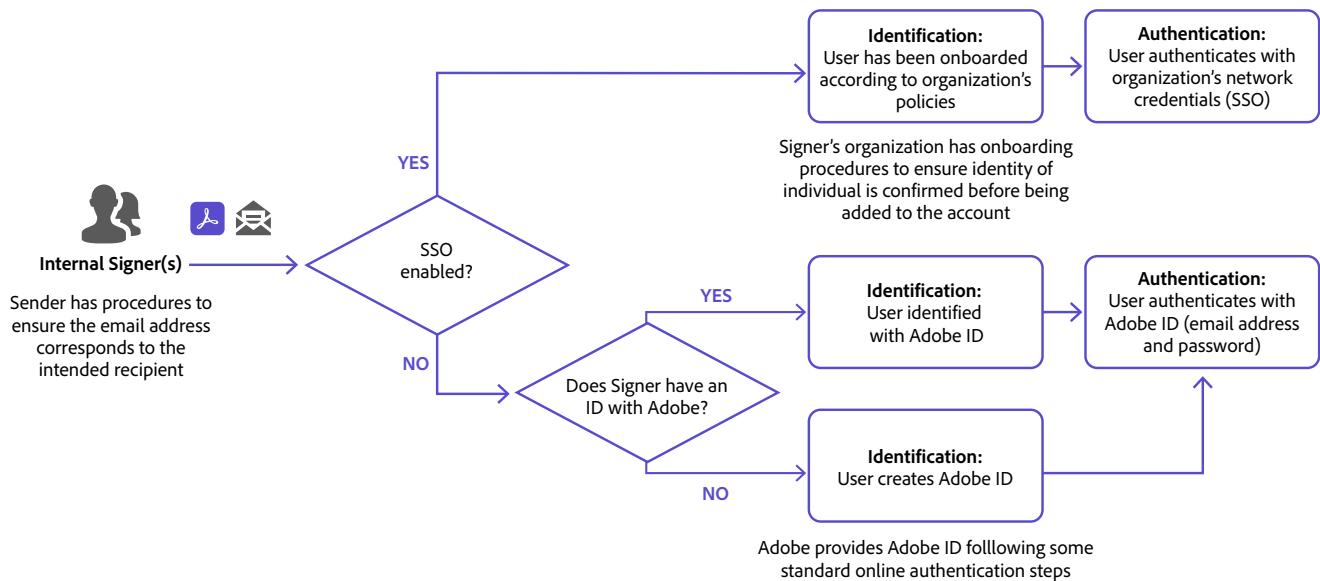
An Internal recipient is (by definition) a member of the Customer Account and, therefore, is "known". In this scenario, using the *Acrobat Sign authentication* method is a "frictionless" option without the additional costs associated with premium authentication transactions.

Using the *Acrobat Sign authentication* method with External recipients presents a unique challenge because they may or may not have an ID with Adobe. If they do not, they will be required to register. This may cause frustration for the recipient. In the scenario where the External Signer is “unknown”, using the *Phone* authentication method may be preferred.

### Scenario 1: The Recipient is an Internal Signer

An organization's SSO capabilities are best suited to verify the identity of the Internal Signer. Positive identity and straight-forward authentication can be accomplished using the Customer's own Identity Provider (IdP) that is configured to work with Acrobat Sign Solutions. SSO is an ideal choice for enterprise customers and organizations who need greater control over how users access software applications. Refer to Section 4.8 for further information.

Some organizations have policies or technical constraints that discourage the implementation of SSO. In these circumstances, the Customer Account can be configured to use the *Acrobat Sign authentication* method, prompting the recipients to authenticate using a verified email address and password (ID with Adobe).

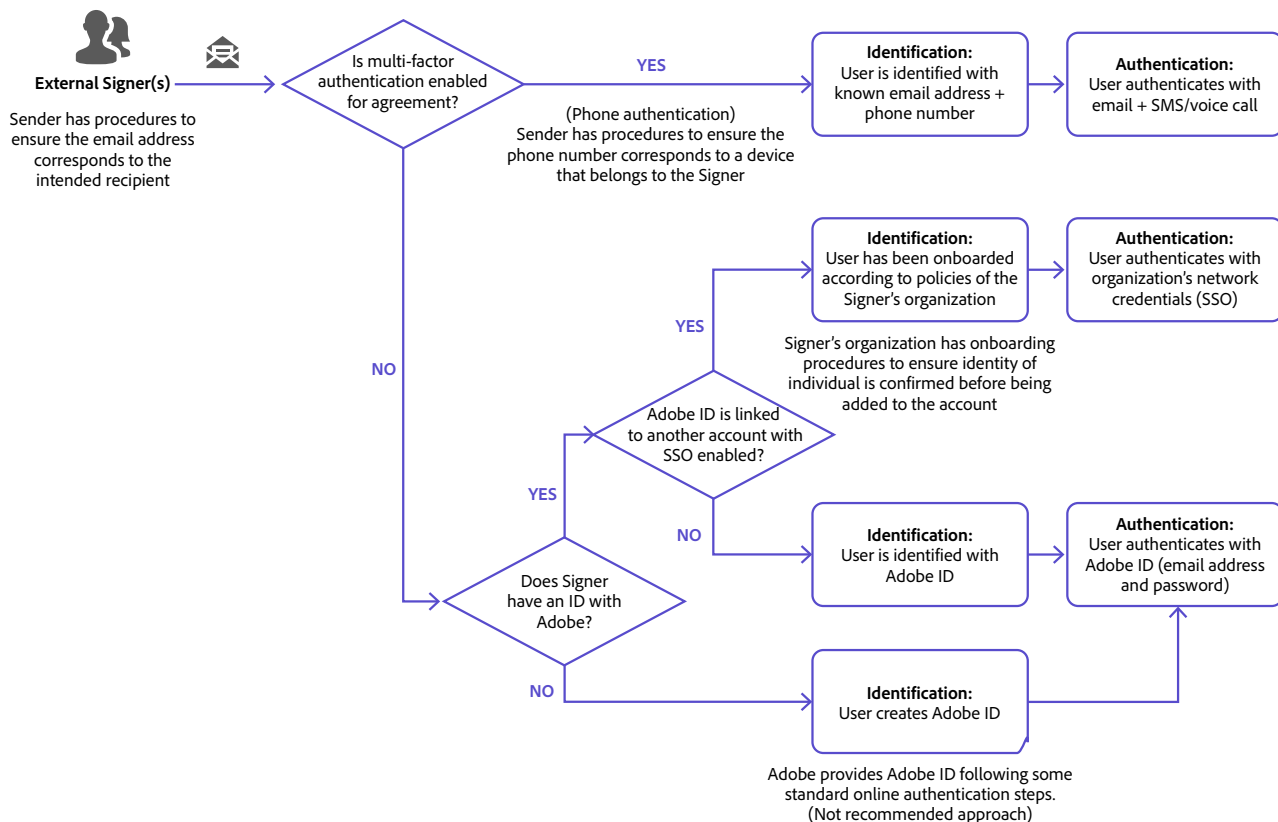


### Scenario 2: The Recipient is an External Signer

For External Signers, the use of *Phone authentication* is ideal if their phone number is known and confirmed to belong to the Signer. The Sender must know the phone number at send time; the recipient's phone number must be entered by the Sender when setting up the agreement. To electronically sign a document, the External Signer must access the agreement via a link from their email inbox. Access to the email link establishes a reasonable measure of identification as the recipient's email address is unique and password authenticated. To view the contents of the agreement, the recipient must provide a system generated verification code sent to their phone number. The Signer can choose to receive the verification code by SMS (text message) or via voice call. Since a new verification code is generated by the system every time the user needs to be authenticated, the use of the *Phone* authentication method ensures that no two signing activities use the same combination of credentials.

When the recipient is an External Signer and their phone number is unknown, the *Acrobat Sign authentication* method can be leveraged. Adobe can provide a new personal ID with Adobe (called Adobe ID) to support authentication during signing. In the case where the Signer lacks an ID with Adobe, the individual will be prompted to create one before being allowed to view the agreement. This involves registering and validating the individual's email address and can also include associating a phone number to the account (to facilitate password recovery). The ID is free and can be used to access other Adobe products and services if desired. However, there is no obligation to participate further with Adobe beyond the signing ceremony. While this is not the recommended approach, some Customers have implemented this method in conjunction with suitable processes to ensure the identification of the individual is verified. Refer to Section 4.9 for further information.

An individual is considered an External Signer because they are not a licensed user within the Customer Account that the agreement originated from. However, it is possible that this individual is a member of an Acrobat Sign Solutions account belonging to a different customer entity. If the account that the Signer belongs to is configured with SSO, then the Signer can use their organization's credentials to authenticate.



## 4.8 Using Single Sign-On (SSO) for user authentication

### 4.8.1 Overview

When managing an Acrobat Sign Solutions account on the Admin Console, an administrator can set up the account and configure domains which are used for login via the Federated ID identity type for SSO. Once the domain is verified, the directory containing the domain is configured to allow users to login to Acrobat Sign Solutions using an email address within that domain via an Identity Provider (IdP), such as Microsoft Azure, Google Federation, or Okta.

Learn more about setting up identity in the Adobe Admin Console here:

<https://helpx.adobe.com/enterprise/using/set-up-identity.html>

If not using the Adobe Admin Console, an administrator can configure *SAML Settings* within the Acrobat Sign Solutions application. This allows for SSO to be enabled for the authentication of users in your account. *SAML Settings* are applied at the account level only and cannot be overridden at the group level. An Enterprise plan is needed to apply *SAML Settings*.

### 4.8.2 Considerations

Federated IDs are recommended for customers who want to maintain strict control over authentication and users based on the organization's enterprise directory. The organization's directory services can be used to manage password and user account lockout policies for Internal users. Logs can be monitored by the Customer to detect and report unusual or suspicious activity on user accounts.

If SSO is not used, users will be authenticated with user account credentials created within the Acrobat Sign Solutions service. In this mode, each user will receive an email notification upon creation of the user account, prompting them to log in to Acrobat Sign Solutions and accept the license entitlement.

Business level service plans do not support SSO. An enterprise plan is required.

Learn more about using the Adobe Admin Console to set up Single Sign-On (SSO) with your Identity Provider (IdP) here:

<https://helpx.adobe.com/enterprise/using/sso-overview.html>

## 4.9 Implications for External Signers

### 4.9.1 Overview

Acrobat Sign Solutions determines if the recipient of the agreement is in your organization based on account membership. An External Signer is any recipient who is not a user in the Acrobat Sign Solutions account that the agreement originated from.

Sending a document to an External Signer is no different than sending an agreement to an Internal Signer. The Sender accesses the *Send* interface within Acrobat Sign Solutions and adds the list of intended Signer(s) by providing the recipient's (Internal and/or External Signers) identifying email address.

As the Sender must also specify the desired authentication method, the Sender needs to be aware that External Signers may require a different authentication method than Internal Signers. Default identity authentication methods defined within the *Send Settings* for Internal and External Signers can be used to ease this burden. For information on authentication methods available for External Signers, refer to Section 4.7.

### 4.9.2 Considerations

Little configuration is necessary to allow External Signers to participate in the signature process. However, given that External Signers are not part of the Customer's account, multi-factor authentication methods should be used for them to participate in regulated signature processes. The choice of authentication method depends on various factors, including cost, risk, and the compliance requirements of the process.

In some cases, with thousands of External Signers participating in the process (e.g., a public clinical trial), *Acrobat Sign authentication* using an ID created with Adobe is a viable option. This provides a no-cost way to assure identity when only the email of the recipient is known to the Sender. In other cases, with a smaller number of well-known recipients and a higher business value, *Phone authentication* may be appropriate.

Customers should implement procedures to ascertain that the individual is the genuine owner of the email address and phone number (if applicable) used to receive and execute the signature request. Irrespective of the authentication method, Customers should implement processes to ensure the identification of the individual is verified (i.e. the person is who they claim to be) by validating an official ID document or other piece of personally identifiable information. Customers should be especially mindful of this before choosing to use the *Acrobat Sign authentication method* with External recipients. If the recipient does not already have an ID with Adobe, they will be required to register. Anyone with an email address can create an Adobe ID by following some standard online authentication steps, but there is no identification verification process to confirm a person's identity.

For GxP business processes, appropriate procedural controls should be put in place to ensure that the Sender only requests signatures from Signers who have proven their identity and satisfied other organizational requirements. These procedural controls may include training for Senders and/or maintaining a User Access List that Senders can consult to determine which individuals have been vetted and are permitted to apply electronic signatures.

Alternatively, some individuals that act on behalf of the account or organization (such as contractors or vendors) can be onboarded into the Customer Account and participate as Internal Signers instead of being handled as External Signers. These individuals should be trained on organizational security policies and quality system procedures to meet all the business and regulatory requirements that permit them to sign documents as part of a GxP process. This approach may be especially practical if the individual will be expected to use Acrobat Sign Solutions on more than a single instance.

## 4.10 Using the *Bio-Pharma Settings* to configure the signature manifestation

### 4.10.1 Overview

*Bio-Pharma Settings* can be configured to implicitly change the signature manifestation and ensure that each signature manifestation includes the following components which are required by 21 CFR Part 11:

- The printed name of the signer
- The date and time when the signature was applied
- The signature meaning (reason for signing)

This information is displayed in human readable form on the electronic display and any paper printout of the signed document.

Learn more about configuring *Bio-Pharma Settings* here:

<https://helpx.adobe.com/sign/using/bio-pharma-settings-configuration.html>

For Internal Signers, the printed name of the Signer in the signature manifestation corresponds to the first and last name recorded in the user's Acrobat Sign User Profile (if using the *Acrobat Sign authentication* method). The system can be configured to prevent editing of the name by the Signer. For External Signers, the full name of the Signer as it will appear in the signature manifestation must be typed in by the individual at the time of signing. If using certificate-based digital signatures, the printed name of the Signer matches the Signer's digital ID.

The time stamp in the signature manifestation is applied when the Signer presses the *Click to Sign* button. This action represents a positive acknowledgement from the Signer that he is willfully signing the document. At this moment, the file is "locked" and an entry is recorded in the audit trail to capture the signing action. If the Signer is applying multiple signatures within a single agreement, he will press the *Click to Sign* button only once at the end of the agreement when the final signature is placed. Although the individual's signature will appear in multiple locations within the document, it is important to note that these signature manifestations essentially represent one signing event. The timestamp across the signature

fields will be updated to the time when the *Click to Sign* button was pressed and only one entry will be captured in the audit trail to reflect the moment at which the *Click to Sign* button was actioned. There may be other scenarios where operational requirements dictate the need to follow a sequential or chronological order of signing activities, in which case signing the document multiple times at once may not be suitable. In those cases, it may be more appropriate to enforce the sequencing of signing events by leveraging Acrobat Sign's built-in workflow capabilities and control the desired signing sequence specified by the Sender when setting up the agreement.

Date and time stamps in the signature manifestation are recorded in standard format. For information on managing date format and time zone settings, refer to Section 4.13.

*Bio-Pharma Settings* can be configured to require the Signer to provide the reason for their signature. Moreover, it is possible to configure a picklist of reasons that the signer will be allowed to choose from and whether the signer will have the option to enter their own reason or be restricted to the list. At the moment of signature, the Signer is prompted to provide a reason for signing. The Signer must re-authenticate after pressing the *Click to Sign* button to allow for the electronic signature to be applied.

Learn more about enforcing a reason for signature here:

<https://helpx.adobe.com/sign/using/reason-for-signature.html>

While preparing to send a document for signature, the Sender should enter the authoring environment, allowing them to insert and position signature fields on the document as placeholders for the expected signatures. Various electronic signature field types can be placed on a document, but the appropriate type should be selected to ensure the signature manifestation display all the required elements per 21 CFR Part 11.

When using electronic signatures, the Sender should insert electronic signature fields of type *Signature* or of type *Signature Block*. Each Signer can be assigned one or more electronic signature fields in a document. When *Bio-Pharma Settings* are configured, the *Signature Block* is adapted to ensure all the required information is displayed (i.e., printed name of the Signer, date and time stamp, reason for signing) as well as the Signer's email address.

When using certificate-based digital signatures, the Sender must enter the authoring environment and insert signature fields of type *Digital Signature* in the document. Each Signer can be assigned only one digital signature field in a document. If the Sender does not position the signature fields through the authoring environment, Acrobat Sign Solutions will automatically set electronic *Signature Block* fields for the Signers in positions assigned by the system.

Learn more about field types here:

<https://helpx.adobe.com/sign/using/field-types.html>



## 4.10.2 Considerations

Configure *Bio-Pharma Settings* at the group level. Reasons for signing in the *Bio-Pharma Settings* can be specified at the account level and will be propagated to all groups unless intentionally overridden at the group level. Consequently, any reasons for signing configured at account level may apply to all groups and additional reasons for signature set at group level will be added to the list of reasons. You should carefully consider if group reasons should be shared or be unique to the groups. For instance, if deploying in different geographical regions with unique language requirements, this feature may be leveraged to make reasons available in multiple languages.

Implement controls to ensure the correct name is incorporated into the signature manifestation:

- For Internal Signers, procedures and controls for the management of the user profile information should be put in place. Consider utilizing a tool to synchronize the user's name with information in the identity management system used for SSO authentication. It is also possible to configure Signature Preferences that prevent recipients from changing their name in the signature panel during the signing ceremony.
- For External Signers, procedures should be put in place to ensure the individual understands the importance of providing a complete and accurate name at the time of signing.

All Signers must understand their responsibility in signing any agreements and must recognize that a reason for signing is necessary for a 21 CFR Part 11-compliant signature.

## 4.11 Signature Delegation

### 4.11.1 Overview

The configuration pertaining to delegation can be applied in the *Group Settings* and it is possible to prohibit delegation entirely for a specific group. *Delegation* can be controlled such that it may be permitted for Internal Signers only, External Signers only, or both.

When Internal Signers are permitted to delegate, additional configuration may be applied to control who their signature may be delegated to:

- Delegation to users in the Customer Account only (Internal Signers)
- Delegation to anyone whether inside or outside the Customer Account

When External Signers are permitted to delegate, their signature may be delegated to anyone.

The signature request can be delegated by the recipient or an auto-delegation can be assigned. When a signature is delegated to a new Signer, the Sender is informed via email. Auto-delegation can be set either by the user, an Account Administrator, or Group Administrator. All signature requests are automatically sent to the delegated Signer until the auto-delegation is removed.

## 4.11.2 Considerations

When delegation is permitted, procedural controls must provide instructions on when a signature can be delegated in a business process and to whom. The process controls should mitigate the risk of a signature request being delegated to an individual who is not authorized to sign controlled documents using electronic signatures.

## 4.12 Audit trail capabilities

### 4.12.1 Overview

Acrobat Sign Solutions provides a system-generated audit report that includes entries for the sequence of events pertaining to the electronic signature collection process. The audit report also captures when a written signature was submitted, when a signature was delegated, when an agreement was canceled, and when a Signer declined the request to sign. Audit report entries associated to the successful application of an electronic signature include the following information:

- Signer's name and email address
- Signature date and time
- Reason for signing

If declining to sign or canceling an agreement, the reason for declining or canceling is also captured in the audit report.

Senders have the option to send periodic and ad hoc email reminders to recipients of an agreement. If desired, the Customer Account can be configured to include reminder events in the audit report.

The audit report also captures the IP address of the device used to view the document being signed as well as the IP address of the time server used to record the signature timestamp.

The audit report is associated to the signed document and is stored independently of the agreement objects viewed in the *Manage* page. The Sender and Internal Signers participating in the agreement can retrieve both the audit report and the associated signed document from the *Manage* page interface as two distinct PDF files. These are linked together through the Transaction ID of the agreement. From the *Manage* page, it is also possible to retrieve the audit report concatenated with the agreement in one single PDF.

Optionally, settings can be configured to include a copy of the audit report and the associated signed PDF as attachments in the email sent to the participants once the agreement is final. Settings determine whether the email attachment is included for some or all recipients (Sender, Internal Signers, External Signers).

Learn more about audit reports here:

<https://helpx.adobe.com/sign/using/audit-reports-transaction-history.html>

Hiding an object from the *Manage* page does not delete the audit report; the Transaction ID (if known) can be used to verify the audit report at any time.

The events captured in the audit report are also presented online in a dynamic Activity list for the agreement within the Acrobat Sign Solutions application. The Activity list is an element of the agreement and is destroyed by explicit actions that remove agreements. If the agreement is deleted, the history of activities is lost as well and cannot be recovered. An exception is possible if the agreement is deleted through system actions based on customer-defined retention rules that exclude deletion of the audit report. Refer to Section 4.14.

#### **4.12.2 Considerations**

In the scenario where an individual needs to apply multiple signatures in different signature fields within a single agreement, it is important to note that only one entry will be captured in the audit trail to reflect the moment at which the *Click to Sign* button was actioned by the Signer for the set of signatures. If the user selected different reasons for signing in the distinct signature fields, the audit report will indicate that multiple reasons have been selected but will not list out each selected reason.

It is possible to route multiple documents for signature as part of a single agreement. By default, Acrobat Sign Solutions will merge the individual files before sending to the Signers. Through configuration, it is possible to separate the files once the agreement is completed. However, only one audit report will be generated for the agreement as a whole and the individual document names are not spelled out. If the intention is to obtain uniquely signed documents with their own audit report, the Sender should upload one document per agreement.

Refer to Section 4.14 for considerations pertaining to the retrieval of signed documents and the associated audit reports from Acrobat Sign Solutions.

## **4.13 Date and time zone settings**

### **4.13.1 Overview**

When applying electronic signatures, all date and timestamps are recorded using Adobe server time. The Adobe servers use the NTP Pool Project for time synchronization with known trusted external sources.

In the case of digital signatures, Public Key Infrastructure (PKI) creates a signature that is embedded in the document, using a digital certificate and a timestamp from the trust provider.

In the audit report, the date and time stamp format is set to YYYY-MM-DD - HH:mm:ss AM/PM [time zone], and this cannot be changed. The audit report shows all events standardized to the GMT time zone by default, but it is possible to configure the *Global Settings* (at the account level) or *Group Settings* (at the group level) to use a different time zone for audit reports.

In the signature manifestation, the time zone displayed in the time stamp corresponds to the signer's time zone (expressed in UTC with a time zone offset), and this cannot be changed.

### 4.13.2 Considerations

The date and time formats in the signature manifestation are set by Acrobat Sign Solutions and are not governed by configuration settings applied by the Customer. Therefore, it is important to ensure the date and time formats enforced by the Acrobat Sign Solutions service are acceptable according to internal policies for date and time recording.

## 4.14 Managing signed records

### 4.14.1 Overview

Once all signatures have been applied to a document using Acrobat Sign Solutions, all parties receive an email informing them that the signed record is available along with its audit report. It is possible to configure the email to include a hyperlink to the signed record. The Sender and Internal Signers can access the signed record via the hyperlink in the email or directly from the *Manage* page in the Acrobat Sign Solutions interface. External Signers can access the signed record only via the hyperlink (if included in email).

It is also possible to configure the *Global Settings* (at the account level) or *Group Settings* (at the group level) so that a PDF copy of the signed record and its audit report are attached to the email sent to some or all participants (Sender, Internal Signers, and External Signers) at the completion of the agreement. While email provides convenient access to the signed document, the Customer should be mindful of any internal information protection and confidentiality policies that prohibit the routing of signed records via email.

Acrobat Sign Solutions encrypts documents and assets at rest and in transit. All Acrobat Sign Solutions documents are stored securely within the data layer (databases and file store) managed by Adobe. Backup management and recovery processes are routinely tested.

While Acrobat Sign Solutions is a safe repository for your agreements, it is not a records management system. The signed record and its audit report can be retrieved for retention in an external system used by the Customer to manage the electronic records. This is possible either directly through the user interface or via API. Documents may be extracted from the Acrobat Sign Solutions interface as PDF files that are certified and sealed, providing proof of origin and integrity.

By default, all customer documents are retained on the Acrobat Sign Solutions service for as long as the Customer Account is active. The data will not be deleted until the Customer takes explicit action to delete the agreements.

The Account Administrator can create retention rules by configuring *Data Governance* policies for their account. Retention rules define the timeframe after which agreements, transactions, and the supporting audit and personal information can be automatically deleted from the Acrobat Sign Solutions service.

When creating a retention rule, it is possible to define a distinct retention period for the associated audit trail. If this option is not enabled, only the documents, files and attachments that the Customer provided as part of the agreement will be deleted. The audit record and personal information will not be deleted and the Transaction ID (if known) can still be used to verify that the agreement has taken place.

Learn more about data governance and retention here:

<https://helpx.adobe.com/ca/sign/using/data-document-retention.html>

Additionally, Acrobat Sign Solutions offers features to help Customers comply with the General Data Protection Regulation (GDPR). Users who are assigned top-level Privacy Administrator privileges have authority to view and delete any agreement created by any user within their account. A Privacy Administrator can irrevocably delete an agreement from the Acrobat Sign Solutions service and the history of the agreement will be removed with the item.

Learn more about complying with GDPR requirements here:

<https://helpx.adobe.com/sign/using/gdpr-compliance.html>

## 4.14.2 Considerations

GxP business processes where Acrobat Sign Solutions will be used should include the retrieval of signed records and audit reports post-signature to ensure proper filing of the record and its audit report. Customers are accountable for their records and should implement procedural controls to ensure records are retrieved in a timely manner.

## 4.15 Sharing Accounts and Agreements

### 4.15.1 Overview

Acrobat Sign Solutions is designed to secure a user's content (agreements, templates, reports) from all other users, unless they are explicitly invited to view or interact with that content. In some organizational frameworks, it may be necessary to involve other individuals or roles (e.g. Line managers, Document Control team) to monitor the progress of an agreement without being an active participant (Sender or Signer) on the agreement. For these scenarios, different sharing options are available to allow users to expose their content.

The Account Sharing feature is available when the content of one user needs to be shared with any other user in the Customer's Account. This imparts a persistent view into the sharing user's agreements. With basic Account Sharing, the shared-with party gains view-only access to content in the sharing user's Manage page (In progress, Completed, and Canceled agreements and audit reports). With Advanced Account Sharing, the shared-with party will be able to view all content, modify in-process agreements, and send agreements on behalf of the sharing user.

Learn more about account sharing here:

<https://helpx.adobe.com/sign/using/share-accounts.html>

When an individual needs to have visibility on a specific transaction but does not require a persistent view into the sharing user's entire list of agreements, the Agreement Sharing feature may be leveraged. Controls exist to allow sharing of agreements with Internal users only, External users only, or both. Sharing an agreement with another internal user will also populate the agreement on the shared-with user's Manage page, where they can review and monitor the agreement as it progresses. Once shared, an agreement cannot be unshared.

Learn more about agreement sharing here:

<https://helpx.adobe.com/sign/using/share-agreement-with-others.html>

An alternative to Agreement Sharing is simply to include an individual's email address in the CC field when specifying the recipients of an agreement. The CC field can only be entered by the Sender when setting up the agreement.

## 4.15.2 Considerations

Sharing agreements should not be enabled unless the Customer defines appropriate sharing rules to safeguard the confidentiality and integrity of records from unauthorized access.

## 4.16 Signing field fillable FDA forms

### 4.16.1 Overview

Some field fillable forms that are submitted to the FDA must be signed prior to submission (e.g. form number 1571, 1572, 0356h). Customers using and completing these forms should be aware that data security measures can remove business logic from the form once the form is uploaded to the Acrobat Sign Solutions service. This can present a challenge for the FDA, who require the form to remain 'live' as there are various teams at the agency that extract the data and text from the forms using different tools.

### 4.16.2 Considerations

If Customers find that the form has been 'flattened' after being processed through Acrobat Sign Solutions, FDA recommends submitting two copies of the form: (1) the completed and electronically signed form, and (2) the original and unsigned form that can be used as a working copy for data extraction.

Customers may opt to use Adobe Acrobat desktop applications (if available) to apply digital signatures on fillable FDA forms.

To clarify any uncertainties, Customers may contact the FDA directly.

# 5 How Adobe Helps its Customers Achieve Compliance

Adobe understands that Healthcare and Life Science organizations have unique requirements and high-quality standards driven by regulations such as 21 CFR Part 11 and EudraLex Annex 11. As a cloud service provider, Adobe has implemented numerous processes and tools to support Customers in achieving their compliance goals.

## 5.1 Compliance with Industry Standards

Acrobat Sign Solutions for enterprise and business are certified compliant with numerous certifications, standards, and regulations, such as ISO 27001, SOC 2 Type 2, and PCI DSS. Certifications and audit reports attest to the design, operation and effectiveness of controls adopted by Adobe. These certifications and audit reports are made available by Adobe so that the Customer can leverage and review them as part of their vendor management and supplier assessment programs. Contact your Adobe Rep to obtain access to copies of available certifications and audit reports under the terms of the non-disclosure agreement signed with Adobe.

Learn more about security, privacy and compliance through the Adobe Trust Center here: <https://www.adobe.com/trust.html>

Adobe has established processes to support employees on their professional development paths. All employees are required to complete business code of conduct and security awareness training. Additional training is offered to ensure that individuals responsible for the development and support of Adobe systems are qualified to perform their assigned tasks. Records of training completion are documented and retained.

## 5.2 Adobe Cloud and Infrastructure Control

Adobe maintains the Acrobat Sign Solutions service in a secure and controlled state. Infrastructure that supports the Acrobat Sign application undergoes strict controls and follows best practices for security, maintenance, and compliance. Lifecycle activities ensure the infrastructure is designed and tested to verify that it can satisfy the application requirements. Third parties to whom any infrastructure services are outsourced must undergo strict evaluation (per Adobe's vendor assessment program) prior to providing services to Adobe. Control processes are vetted by independent auditors who assess compliance with internationally recognized standards (ISO 27001, SOC 2 Type 2, and others) at a regular frequency.

## 5.3 Acrobat Sign Software Lifecycle

Acrobat Sign Solutions, the Acrobat Sign application, and their associated databases are developed and maintained according to a standardized software lifecycle management (SLC) process.

Adobe's SLC process includes a rigid quality testing phase. Test coverage includes common use cases, and testing must be completed successfully prior to releasing software updates. The following use cases are included in Adobe's quality test plan for each release:

- Use Case 1: **Send to Internal Signers** — Signature of a document by multiple Internal Signers (no External Signers)
- Use Case 2: **Self-signing** — Signature of a document by a single Internal Signer who is also the Sender
- Use Case 3: **Send to External Signers** — Signature of a document by one or more External Signers (no Internal Signers)
- Use Case 4: **Send to both Internal and External Signers** — Signature of a document by Internal and External Signers

Refer to Appendix 1 for additional insight on these use cases.

Customers should evaluate the relevance of these use cases with respect to their intended use. Consideration should be given to avoiding unnecessary duplication of testing efforts by relying on Adobe's SLC process which implicitly tests and assures that these use cases can be completed in a consistent and reliable manner.

## 5.4 Service Commitments

Adobe service commitments describe Adobe's service availability for the Acrobat Sign Solutions services set forth in the sales order.

View all Adobe service commitments here:

<https://www.adobe.com/legal/service-commitments.html>

Acrobat Sign Solutions' hosting environment leverages multiple cloud providers. Data is replicated across continuously active availability zones in multiple cloud regions. The landscape is designed to provide a high level of availability and scalability. Adobe continuously monitors Acrobat Sign Solutions, the Acrobat Sign service, and related infrastructure for performance.

The data center configurations provide failover capability and resiliency. In the event of a data center disruption, traffic is routed to other data centers outside of the disrupted availability zone or to an entirely different cloud region.



View the availability status (uptime data) of the Acrobat Sign service here:

<https://status.adobe.com>

Adobe deploys a comprehensive, ISO 22301-certified program for Business Continuity and Disaster Recovery. On an annual basis, Adobe conducts disaster recovery testing for Acrobat Sign Solutions to verify that cross-region failover and failback capabilities respect the stated recovery time and recovery point objectives.

## 5.5 Security and Incident Response

As security threats are constantly evolving, a proactive security approach is followed. Adobe manages threat intelligence information and continuously monitors the Acrobat Sign Solutions service for the prevention and early detection of security vulnerabilities and incidents.

Adobe has implemented an incident response, mitigation, and resolution program. Each security incident is investigated and mitigated by Adobe's incident response team. Adobe personnel are required to complete security awareness training on an annual basis. Training content covers Adobe's current security policies and standards, and how to report security incidents to the response team.

Confirmed incidents are assigned a severity level based on impact, damage, or disruption to Customers. Adobe will notify customers of a confirmed Personal Data Breach in accordance with applicable law. Breach notification is addressed in the contractual terms between Adobe and the Customer.

## 5.6 Release Management

Adobe maintains a well-defined process for managing, planning, testing, and scheduling releases of Acrobat Sign Solutions. Adobe plans to deliver three major feature releases each year. Major releases include new features and/or important changes to existing features. Minor release may be deployed at more frequent intervals to resolve customer-found defects or system processing issues as needed. Minor releases are not intended to introduce new features or changes that alter user experience.

Best efforts are made to release changes in the second week of the month. Planned launch dates are published on the Adobe Acrobat Release Schedule.

View the Adobe Acrobat Release Schedule here:

<https://helpx.adobe.com/sign/release-notes/adobe-sign/sign-release-schedule.html>

The schedule outlines the service type (subscription level) that will be impacted by the change. The schedule also explains whether the feature will be standard (non-configurable) or configurable at the account or group-level in the Customer's Account.

Changes are planned and communicated by Adobe. All communications are produced specifically to provide information that Customers can use in their processes to manage change and the state of compliance. The following information is available:

- **Pre-release Notes:** Pre-release information is published for every major and minor release and is viewable on the Adobe Acrobat Release Schedule page. It describes the scope of the release and highlights functional changes, enhancements and user interfaces updates. Pre-release information is published 60 days, 30 days, and again 15 days before the release in production. Anyone can subscribe to a mailing list if they wish to be notified in advance of the upcoming release features.
- **Release Settings Update:** This document is published for every major release. It describes the settings due to change as a result of the release. It includes new and changed settings that impact both internal and customer-facing capabilities and indicates how the setting will impact customer experience or change default behavior at the account level. It is issued 30 days before the release and again 15 days before the release.
- **Technical Updates:** These updates are typically long-term strategic changes that occur independently of the regularly scheduled major and minor releases. Usually, technical updates are planned and announced well in advance and commonly involve changes that relate to service deprecation. Anyone can subscribe to a mailing list if they wish to be notified of the planned updates.
- **Quality Certificate:** This document is Adobe's attestation that the software release complies with Adobe's quality standard for software development. It is made available on the day of the release.
- **Release Notes:** This document is published for every major and minor release. It is the final, refined version of the Pre-release notes. It is made available on the day of the release. Anyone can subscribe to a mailing list if they wish to be notified of the release notes via email.
- **List of Resolved Issues:** The Pre-release Notes and Release Notes include a list of issues (bugs) resolved within the release.

View Acrobat Sign Solutions release notes for the current release and previous releases here: <https://helpx.adobe.com/sign/release-notes/adobe-sign.html>

Customers are encouraged to review the release documentation to gain visibility into functional or configuration changes. Customers are also encouraged to regularly review Acrobat Sign Solutions technical notifications to better understand Adobe's product roadmap and planned technical updates.

View Acrobat Sign technical notifications here: <https://helpx.adobe.com/sign/using/technical-notifications.html>

Customers should implement processes to ensure pre-release documentation and technical notifications are reviewed to assess upcoming changes and proactively plan for any perceived impact. In some cases, the changes may alter the business process use case. If system configuration changes are needed or the intended use of the system is affected, regression testing and/or re-validation activities may be required. Adobe will assist Customers with this assessment by publishing an assessment report which describes Adobe's evaluation of the potential impact of the upcoming changes from a regulatory compliance and validation perspective.

To the greatest extent possible, Adobe introduces new features in disabled mode by default. Customers who desire the new feature need to take intentional actions to enable the feature. Customers should implement internal change management procedures to oversee feature activation.

## 5.7 Adobe Acrobat Sign Sandbox

Enterprise-tier customers can subscribe to the Adobe Acrobat Sign Sandbox. This environment is discrete from the production environment. Agreements sent from Sandbox will be watermarked as "Not for production use".

The purpose of Sandbox is to allow administrators to define, modify, and test setting configurations as desired without having any effect on production activities. Sandbox is delivered as a clean environment with default configuration and does not mirror the Customer's production settings. However, to facilitate the synchronization of the two environments, an administrator can copy some setup (such as group names, library templates, customer workflows) to and from the production environment.

The account or group level settings in Sandbox generally match the setting options that are found in the production environment, with the exception of any new/updated settings that are pending release. The Sandbox environment is updated with new content 30 days before a major launch in production. While this means that the two environments will be misaligned for 30 days, it provides the benefit of being able to assess and test new features that are approaching release before landing in production.

Customers should also be aware of fully disclosed feature differences between Sandbox and the production environment (e.g., such as suppression of outbound emails, integrations not available with Sandbox accounts).

Learn more about the Adobe Acrobat Sandbox offering here:

<https://helpx.adobe.com/sign/using/adobesign-sandbox.html>

## 5.8 Validation Support

If using Acrobat Sign Solutions to apply electronic signatures in an GxP-regulated context, Customers are responsible for validating Acrobat Sign Solutions to demonstrate (with objective evidence) fitness for their intended use and that the system functions in a consistent and reliable manner and offers the ability to discern altered or invalid records/signatures.

Customers should establish the appropriate level and extent of validation. Regulatory agencies and industry best practices, such as ISPE's GAMP 5 (Ref. [3]), recommend following a risk-based approach to validation. Leveraging supplier activities is encouraged to make the validation effort as effective and efficient as possible.

Adobe offers validation document templates to assist Customers in their validation efforts. While the template package covers a set of typical use cases, other use cases are possible but not considered in the package. The Customer has the responsibility of assessing the suitability of the templates (including use case coverage) and may choose to adapt and execute these validation documents to establish documented evidence that their instance of Acrobat Sign Solutions is fit for intended use. These documents are updated and re-issued as necessary for each major release, in conjunction with an impact assessment report which describes the potential impact from a validation perspective.

Customers who qualify for a Sandbox environment may consider setting up an instance as a controlled environment that can be used for pre-production and validation testing purposes.

## 5.9 Customer Care

Customers may consult the online Adobe Help Center any time for answers to frequently asked questions (FAQ), user guides and tutorials.

View the Acrobat Sign help center here:  
<https://helpx.adobe.com/support/sign.html>

For personalized assistance, Acrobat Sign Solutions customers can submit a case to Adobe Support. Only administrators have the authority to submit support cases. Customers can contact Adobe Support to report issues observed in their Acrobat Sign Sandbox and Production instances.

Customers can also contact Adobe Support to request changes to settings that are not customer-facing through the application interface. However, when doing so, the customer should implement processes (such as change and configuration management) to track the request and the impact of the settings change on their end.

# 6 Implementing Acrobat Sign Solutions — A Practical Guide

## 6.1 Implementation Checklist

Follow this step-by-step list of actions to get a Customer Account up and running with Acrobat Sign Solutions.

Step	Activity	Actions	Configuration
1.	Identification of business use cases: Intended Use	Examine your business processes to establish what type of documents will need to be signed using the Acrobat Sign service and by whom.	N/A
2.	Account creation	<p>Read Section 4.1.</p> <p>Acrobat Sign Solutions, enterprise or business levels of service, is required to benefit from Bio-Pharma settings and other advanced features.</p> <p>An Enterprise plan is needed if implementing Acrobat Sign with Single Sign On (SSO) or if a subscription to Sandbox is desired.</p> <p>Adobe services will support on-boarding the account and provide access to the Adobe Admin Console.</p> <p>Create a user appointed as the Acrobat Sign Solution Account Administrator.</p>	N/A
3.	Group management	<p>Read Section 4.3.</p> <p>As the Account Administrator, create group(s) for users that will be subject to controls of Bio-Pharma Settings (i.e. GxP group) and separate groups for those that will not need to sign in regulated environments (i.e. non-GxP group).</p> <p>Designate user(s) who will act as group administrator for the GxP group. Allow group administrators to add users and edit settings for their group.</p> <p>As the Group Administrator, configure additional settings for the business process.</p>	<p>Account &gt; Global Settings &gt; Groups</p> <p>Account &gt; Groups &gt; Group Settings</p>
4.	Type of signature	<p>Read Section 4.6.</p> <p>If opting for electronic signatures:</p> <ul style="list-style-type: none"> <li>As the Group Administrator, configure the GxP group to allow electronic signatures.</li> </ul> <p>If opting for certificate-based digital signatures:</p> <ul style="list-style-type: none"> <li>As the Group Administrator, configure the GxP group to allow digital signatures.</li> <li>Choose and on-board a trust service provider (TSP) and distribute signing instructions for use with digital IDs.</li> </ul>	<p>Account &gt; Groups &gt; Signature Preferences</p> <p>Account &gt; Groups &gt; Digital Signatures</p>

Step	Activity	Actions	Configuration
5.	Authentication settings	<p>Read Section 4.7.</p> <p>As the Group Administrator, configure authentication methods for the GxP group:</p> <ul style="list-style-type: none"> <li>• For Internal Signers: Select Acrobat Sign authentication.</li> <li>• For External Signers: Select Acrobat Sign authentication, Phone authentication</li> </ul>	Account > Groups > Send Settings
6.	Single Sign-On	<p>Read Section 4.8.</p> <p>As an administrator in the Adobe Admin Console, configure the account to use Federated IDs (if desired).</p> <p>As the Account Administrator, enable single sign-on (if desired).</p>	<p>Adobe Admin Console</p> <p>Or</p> <p>Account &gt; Account Settings &gt; SAML Settings</p>
7.	Allow External Signers	<p>Read Section 4.9.</p> <p>As the Group Administrator, configure the GxP group to allow External Signers to participate in signature agreements.</p> <p>Implement a process so Senders can identify allowed Signers.</p>	<p>Account &gt; Groups &gt; Signature Preferences</p> <p>Account &gt; Groups &gt; Send Settings</p>
8.	Authorization	<p>Read Sections 4.4 and 4.5.</p> <p>Implement a process for user access management.</p> <p>Create users manually or through synchronization with the organization's enterprise directory.</p> <p>As an administrator in the Adobe Admin Console, assign user entitlement to the Acrobat Sign Solutions product.</p> <p>As the Account Administrator or the Group Administrator, place users in the GxP group.</p> <p>As the Account Administrator or the Group Administrator, assign the user's authority level.</p>	Account > Users
9.	Bio-Pharma Settings	<p>Read Sections 4.2 and 4.10.</p> <p>As the Group Administrator, enable and configure Bio-Pharma Settings for the GxP group.</p> <p>As the Group Administrator, configure the pre-defined list of reasons for signing (excluding the blank reason).</p>	Account > Groups > Bio-Pharma Settings
10.	Delegation, Account Sharing, Agreement Sharing	<p>Read Section 4.11 and 4.15.</p> <p>As the Group Administrator, configure delegation preferences for the GxP group (if desired).</p> <p>As the Group Administrator, configure Account Sharing and Agreement Sharing preferences</p>	<p>Account &gt; Groups &gt; Group Settings</p> <p>Account &gt; Groups &gt; Security Settings</p>

## 6.2 Governance

As with any system that must comply with 21 CFR Part 11 and EudraLex Annex 11 requirements, Customers must employ procedures and controls to ensure the integrity of electronic records and electronic signatures. Customers should review their internal policies and procedures to ensure the intended use of Acrobat Sign Solutions is aligned with their needs.

The following table highlights some of the key governance processes which need to be implemented by the Customer to support the use of Acrobat Sign Solutions, along with some recommendations and considerations.

Topic	Consideration
<b>System Administration</b>	<p>Define roles and responsibilities for reviewing the Adobe roadmap and technical update documentation prior to each release.</p> <p>Adobe produces documentation on the changes to their service prior to every major and minor release. Administrators and other stakeholders can subscribe to receive pre-release notes and other notifications about the status of the Acrobat Sign Solutions service. These should be reviewed to evaluate upcoming functional changes and take the appropriate action if necessary.</p>
<b>User Access Management</b>	<p>Define the process for creating user accounts and granting the correct level of permissions based on the users' roles and responsibilities.</p> <p>User account management can be integrated with the existing identity provider (i.e. automated user creation) or through a manual user creation process.</p>
<b>Use of Electronic Signatures</b>	<p>Define the process for application of electronic signatures to electronic records in compliance with US FDA 21 CFR Part 11 and (if needed) EudraLex Volume 4 Annex 11 requirements.</p> <p>The process should emphasize authentication requirements for the key regulated use cases. However, the broader use of electronic signatures may not need these controls. Determining signature use cases is critical to successful rollout.</p>
<b>Records Management</b>	<p>Define the process for extracting signed electronic records and their audit trails from Acrobat Sign Solutions and into the designated electronic records repository or archive that is managed by the Customer.</p>

In addition to the procedures outlined above, Customers are reminded that policies, procedures, or other quality system documents should be implemented to address the following topics to ensure Acrobat Sign Solutions is validated, implemented, managed, and used in a controlled fashion:

- Computer System Validation
- Logical Security
- Training Management
- Documentation Management
- Change and Configuration Management
- Backup and Recovery
- Disaster Recovery and Contingency Planning
- Periodic Review
- Vendor Assessment
- Incident and Problem Management

# 7 Appendix 1: Overview of Business Use Cases

Common business use cases are presented below to illustrate how Acrobat Sign Solutions can be implemented to help customer obtain 21 CFR Part 11 and Annex 11 compliant electronic signatures.

Description of Use Case	Example(s)	Insight
Use Case 1: Send to Internal Signers	<ul style="list-style-type: none"> <li>Approving a validation artifact (Validation Plan, Validation Protocol, etc.)</li> <li>Approving a standard operating procedure (SOP)</li> </ul>	<p>The <i>Send</i> page interface is used to send an agreement to internal recipients.</p> <p>The Sender may or may not be one of the Signers.</p>
Use Case 2: Self-signing	<ul style="list-style-type: none"> <li>Signing a Note to File or other form/ report by the individual issuing the document where additional approvals are not required</li> <li>Signing an Incident report</li> <li>Signing your own status report</li> </ul>	<p>This use case pertains to the signature of a document by a single Internal Signer who is also the Sender.</p> <p>The Signer will click the <i>Fill and Sign a document</i> tile to sign the agreement themselves.</p>
Use Case 3: Send to External Signers	<ul style="list-style-type: none"> <li>Signing a waiver</li> <li>Signing an informed consent form</li> <li>Signing a contract with supplier</li> </ul>	<p>The <i>Send</i> page interface is used to send an agreement to one or more signers that are not members of the customer's account.</p>
Use Case 4: Send to both Internal and External Signers	<ul style="list-style-type: none"> <li>Signing a controlled document (e.g., SOP, validation deliverable, etc.) where one or more of the Signers are consultants or contractors who have not been added to the organization's Acrobat Sign Solutions account.</li> <li>Site Contracts for clinical studies which are signed by the sponsor (internal) and the investigator (external)</li> </ul>	<p>The <i>Send</i> page interface is used to send an agreement that either the Sender or another internal team member will sign prior to or after an external signer.</p> <p>The Sender may or may not be one of the Signers.</p>

# 8 References

Ref. [1] U.S. Food and Drug Administration, Code of Federal Regulations, Title 21 Part 11, *Electronic Records; Electronic Signatures*, 1997.

Ref. [2] EudraLex, The Rules Governing Medicinal Products in the European Union, Volume 4, Good Manufacturing Practice, Medical Products for Human and Veterinary Use, *Annex 11: Computerised Systems*, 2011.

Ref. [3] ISPE, *GAMP 5 - A Risk-Based Approach to Compliant GxP Computerized Systems*, Second edition, 2022.



## 9 Acknowledgment

This document was prepared through a collaboration between Adobe and Montrium Inc. Learn about Montrium at [www.montrium.com](http://www.montrium.com).

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