

# Integration Vendor Connectivity Specification

v3.0 / NOVEMBER 2023

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## Purpose

To document specifications to establish system connectivity with Aledade.

## Connectivity Method

Connectivity method supported by Aledade:

1. Virtual Private Network (VPN)
2. Secured File Transfer Protocol (SFTP)
  - a. Partner Hosted SFTP.
  - b. Aledade Hosted SFTP.
3. XDS.b

## Data Type

Aledade supports the following data type in a practice system integration:

Data Type	File Type	File Format
Scheduling	HL7	SIU
Claims	HIPAA X12	837
C-CDA	C-CDA	XML

## Virtual Private Network (VPN)

### Establishing VPN Connectivity Process

1. Vendor to complete [VPN Form](#).
2. Vendor and Aledade begin to build a VPN tunnel on their respective sides.
3. An Integration team member will coordinate with an Aledade DevOps Engineer to exchange PSK and test connectivity.

## VPN Form

Complete VPN form on the next page.

Aledade VPN request Form		
Company Information		
	Aledade	Sending Entity
Name	Aledade	
Contact Name	[Integration Personnel name]	
Contact Phone		
Contact Email	<p><b><u>Pre-production setup and issues:</u></b></p> <p>Reach out to Interface Project Management: [Integration Manager name]. We will include Network resources, as necessary. We may escalate Network issues to:  <a href="mailto:network-ops@aledade.com">network-ops@aledade.com</a>.</p> <p><b><u>Production issues:</u></b></p> <p>Reach out to Interface Support:  <a href="mailto:integration-support@aledade.com">integration-support@aledade.com</a>.            We will include Network resources, as necessary. We may escalate Network issues to:  <a href="mailto:network-ops@aledade.com">network-ops@aledade.com</a>.</p>	
Calendly Schedule URL		
System Information		
PM/EHR System Name		
Sending Entity		
VPN Parameters		
	Aledade	Sending Entity
Tunnel Endpoint	Aledade public IP	
IKE Mode	Main	
NAT-T	Disabled	
IKE Phase 1	IKEv2	

Authentication	SHA-256	
Encryption	AES-256	
DH Group	14	
Lifetime	86400s	
IpSec Phase 2	ESP	
Authentication	SHA-256	
Encryption	AES-256	
DH Group	14 PFS enabled	
Lifetime	86400s	

Server Information							
Environment	Interface	Internal IP	NAT'D IP (when applicable)	Port	Partner IP	Partner NAT'D IP (when applicable)	Partner Port
DEV	SIU						
	ADT						
	837						
	CCDA						
	Other (specify)						
PROD	SIU						
	ADT						
	837						
	CCDA						
	SIU						
	Other (specify)						

## Secured File Transfer Protocol (SFTP)

### Vendor Required Information

Required Information	Details Description
Company name	
Contact name	
Contact email address	
Contact phone number	
Whitelist Aledade IP	If your organization requires to whitelist Aledade's IP Address, please whitelist IP: 54.173.183.248.
Whitelist Partner IP	(Provide your IP Address to be whitelisted by Aledade).
Data type that will use this connection	<input type="checkbox"/> Scheduling <input type="checkbox"/> Claims <input type="checkbox"/> C-CDA
If partner prefers a single folder to transmit all data types, specify identifier to distinguish each data type	
If multiple practices or providers use a single feed, specify identifier to distinguish each practice or provider	
Partner hosted-SFTP URL	
Partner hosted-SFTP Username	Please send username via secure email to Aledade.
Partner hosted-SFTP Password	Please send a password via secure email to Aledade. Aledade password requirement: <ol style="list-style-type: none"> <li>1. Length: 12-16 characters.</li> <li>2. Contain alpha-numeric characters.</li> <li>3. Cannot contain characters: " ' \ \$ ;</li> </ol>
Confirmation of support of SHA-256 algorithm	Please confirm SHA-256 is supported to connect to Aledade SFTP.



## Establishing Vendor Hosted SFTP Process

1. Vendor to complete [Vendor Required Information](#) and return the document to the Integration team member at Aledade.
2. Vendor will create SFTP folders based on interfaces listed in the Vendor Required Information and provide credentials: URL, username, and password to Aledade.
3. Aledade supports the SHA-256 encryption algorithm. SHA-1 is no longer supported. Please ensure that the host system supports SHA-256.

## Establishing Aledade Hosted SFTP Process

1. Partner to complete Partner Required Information and return the document to the Integration Manager at Aledade.
2. Aledade will create SFTP folders based on interfaces listed in the Partner Required Information and provide login information: URL, username, and password to partner via encrypted email.
  - URL to Aledade SFTP: sftp3.aledade.com, port #22.
3. Partner to send sample data for each data type included in the scope of the integration, as well as backload 2 years of production data.
4. Aledade supports the SHA-256 encryption algorithm. SHA-1 is no longer supported. Please ensure that the sending system supports SHA-256.

## Supported Keys

1. **Key exchange methods:**  
curve25519-sha256,curve25519-sha256@libssh.org,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,diffie-hellman-group14-sha256,diffie-hellman-group-exchange-sha256
2. **Cyphers:**  
chacha20-poly1305@openssh.com,aes128-ctr,aes192-ctr,aes256-ctr,aes128-gcm@openssh.com,aes256-gcm@openssh.com
3. **Host key algorithms:**  
rsa-sha2-256,rsa-sha2-512,ecdsa-sha2-nistp256,ssh-ed25519

## XDS.b

### SSL Certificate Requirements

mTLS connections require both the host and the client to verify their identity via certificates. Aledade requests **certificate provided by vendor/sending entity** meets the following requirements:

- Preferred Certificate encoding type:
  - PEM (Base64 ASCII)
- The **certificate chain** consists of the **root**, **intermediary**, and the **client certificate**
- The root certificate must be from a trusted CA (Global Signing Authority)
- May use existing cert (i.e., does not have to be unique for Aledade)
- The file extension can be the following:
  - .txt
  - .pem
  - .foo
  - .bar

### Obtaining SSL Certificate

A Client Certificate can be purchased from a variety of vendors. For example ssl.com offers [Organizational Certificates for Client Authorization](#).

Process to obtain SSL certificate from a Certificate Authority (CA), such as ssl.com:

- Register an account with the CA
- Purchase the desired certificate
- Upon payment, the CA will verify your organization details, between all publicly available information and the information submitted during purchase
  - Information verified: Business Phone Numbers, Business Address, Business Email, etc.
  - Verification methods may include: (1) Sending an email to your publicly listed email addresses, (2) Call the phone number publicly listed, and/or (3) Mail a letter to your office to verify the address
- Once information has been confirmed, the certificate purchase will be approved
- A CSR will need to be submitted or the CA may generate one and send it via one of the contact methods listed during purchase
- After the certificate has been generated, the files can be downloaded
  - On the download page, copy/paste each one into a separate file, resulting in 3 files: a certificate, a csr, and a key
  - Key is private to your organization and should not be shared with anyone

## **XDM**

Aledade partners with Updax (HISP) who manages the direct messaging environment. Updax will create a TEST and PRODUCTION accounts, but does not support a separate test environment.

## Version Control

Version	Date	Update Description
1.0	7/9/2021	Initial document.
1.1	8/11/2021	Added Aledade password requirements for vendor-hosted SFTP account.
1.2	8/16/2021	Adding link to document that shows how to test VPN connection with Aledade.
1.3	5/31/2022	Adding SHA256 requirement for SFTP connections.
2.0	12/31/2022	Updated VPN Form. Updated SFTP to reflect SFTPGO.
3.0	11/1/2023	Added XDS.b Certificate requirements