FOIAXpress popexus

PAL Deployment Manual

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FX 11.1.0 PAL Deployment Manual

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Version History

#	Date	Description	
1.0	3/1/2023	New document for v11.1.0	
1.1	4/10/2023	Updated the Deployment System Requirements to specify compatibility with only Windows 2016 and 2019.	
1.2	5/3/2023	 Updated Install SQL Server Module (2.3) to include steps to unblock the .zip file. Added the Download the Installation Package (3) section, as well as steps to unblock the .zip file. 	

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1 FOIAXpress PAL Deployment Introduction

The purpose of this document is to provide instructions for creating the FOIAXpress Public Access Link (PAL) database and installing the FOIAXpress PAL application.

FOIAXpress PAL facilitates the submission of Freedom of Information Act (FOIA) requests over the internet and allows information to be published to the Electronic Reading Room. FOIAXpress PAL supports SQL Databases.

(!!) Notes:

- This document does not provide instructions for installing windows server or Microsoft .net. Please consult your software vendor for further details concerning these installations.
- A single server can be used to install FOIAXpress PAL and all its components, however it is highly recommended to configure separate servers for the FOIAXpress application, database, and repository due to the processing demands of the CPU.

1.1 Installation Option 1: External PAL Database

The PAL application URL will be accessible by the public for submitting FOIA requests to your agency. However, the web server and database server must remain secure. Installation option 1 includes the following configuration:

- The PAL Database, PAL Application, and PAL File Server are installed in the External network (DMZ).
- The FOIAXpress Application, FOIAXpress Database, and all applicable services are installed in the local intranet.
- The Database Port and HTTPS port are enabled to allow the PAL modules to communicate with FOIAXpress.

The figure below shows a diagram of Installation Option 1.

FOIAXpress PAL Deployment Introduction



1.2 Installation Option 2: Intranet PAL Database

The PAL application URL will be accessible by the public for submitting FOIA requests to your agency. However, the web server and database server must remain secure. Installation Option 2 includes the following configuration:

- The PAL Application and PAL File Server are installed in the External network (DMZ).
- The PAL Database, FOIAXpress Application, FOIAXpress Database, and all applicable services are installed in the local intranet. This option offers more security on the PAL database side.
- The HTTPS port is enabled to allow the PAL File Server to communicate with FOIAXpress.

The figure below shows a diagram of Installation Option 2.



2.1 FOIAXpress-PAL Deployment System Requirements

Before proceeding with the installation, it is necessary to do the following:

- Install Microsoft SQL Server 2017/2019 on the database server.
- Configure the SMTP Server to relay email to the email server while using FOIAXpress PAL. The SMTP server must be configured to relay e-mail messages to other domains.
- Before installing the FOIAXpress PAL database, make sure SQL Server collation is configured for case-insensitive.

The installation package must be deployed from the application server, which must meet the requirements outlined below:

Requirement	Description
Location	Deployment scripts can be executed from Application server. The script must be executed from application server if the Application or Scheduler are installed.
User Permissions	The logged-in user should have the local administrator permissions.
Operating System Requirements	Windows 2016/2019
URL Rewrite	Install the Microsoft IIS URL Rewrite extension, available via <u>https://www.iis.net/downloads/microsoft/url-rewrite</u>

Requirement	Description
Microsoft .NET Framework 4.8 Runtime	Microsoft .NET Framework 4.8 Runtime must be downloaded and installed. It can be downloaded and installed from the following location: <u>https://dotnet.microsoft.com/en-us/download/dotnet-</u> <u>framework/net48</u>
SqlPackage	The SqlPackage must be downloaded and installed. It can be downloaded and installed from the following location: <u>https://learn.microsoft.com/en-us/sql/tools/sqlpackage/sqlpackage- download?view=sql-server-ver16#windows-net-framework</u>
SqlServer	The SqlServer module must be downloaded and installed on the application server. See the <i>Install SQL Server Module</i> section for steps.
PowerShell Version	PowerShell 5.1.22621.963 must be installed for deployment using auto deployment. https://www.microsoft.com/en-us/download/details.aspx?id=54616

2.2 FOIAXpress PAL Database Account Requirements

There are three accounts which must provisioned in order to configure the application, database, and repository servers. The table below outlines the type of accounts, their purpose, and their requirements.

Account	Purpose	Requirement
Application Setup	This user installs and configures the FOIAXpress PAL application and its components.	This account is set up as a Domain/Local User and is a member of the Administrators on server groups.
FOIAXpress PAL Database Creation	This user sets up the PAL database user account and grants any required permissions.	This account is added to the following SQL Server security roles for the user that will create the database either in SQL Server (Windows User) or Windows Authentication Mode (NT User): • dbcreator • securityadmin
FOIAXpress PAL Database User	This user performs all FOIAXpress PAL database transactions required for the FOIAXpress PAL Application.	This account must be assigned as a member of the db_owner database role for the FOIAXpressPAL SQL Server database.

2.3 Install SQL Server Module

Follow the steps below to install the SQL Server Module on the application server:

- 1. Navigate to the following link: <u>https://www.powershellgallery.com/packages/Sqlserver/21.1.18256</u>
- 2. Under Installation Options, select Manual Download:



- 3. Click **Download the raw nupk file**. The SQLserver .nupkg file downloads.
- 4. Locate the downloaded "SQLserver" file, then right click it and select **Properties**.
- 5. On the General tab, select **Unblock**, then click **Apply**.
- 6. Next, edit the "SQLserver" file extension from .nupkg to .zip.
- 7. Extract the .zip package in the downloaded location. After the folder is extracted, remove "sqlserver." from the folder name:



- 8. Navigate to C:\ProgramFiles\WindowsPowerShell\Modules and create a folder called **SqlServer**.
- 9. Copy the renamed .zip folder from the downloaded location to the SqlServer folder created in the previous step (C:\ProgramFiles\WindowsPowerShell\Modules\SqlServer)

2.4 Enabling Windows Search Service

Windows Search Service allows users to perform search operations on the server. This service is required in order to perform content searches on documents located in the PAL Reading Room.

(!!) Notes:

- Administrators are not be able to install windows search services if the indexing service is installed on the server. They must uninstall the indexing service then install the windows search service.
- This service must be enabled on the application server.

Follow the steps below to enable Windows Search Service:

10. Click **Start > Server Manager**. The Server Manager application appears.



11. Click Add roles and features. The Add Roles and Features Wizard pop up window appears.

E	Add Roles and Features Wizard
Before you begin	DESTINATION SERVER TW-Sandboxains-inc.com
Before You Begin Installation Type Server Selection	This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
	Start the Remove Roles and Features Wizard
	Before you continue, verify that the following tasks have been completed:
	The Administrator account has a strong password
	 Network settings, such as static IP addresses, are configured The most current security updates from Windows Update are installed
	If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
	To continue, click Next.
	Skip this page by default
	< Previous Next > Install Cancel

12. Click Next. The Select installation type window appears.

elect installation	on type TW-Sandbox.airs-inc.com
Before You Begin	Select the installation type. You can install roles and features on a running physical computer or virtual
Installation Type	machine, or on an offline virtual hard disk (VHD).
Server Selection	Role-based or feature-based installation
	Configure a single server by adding roles, role services, and features.
	Remote Desktop Services installation
	install required role services for virtual Desktop infrastructure (VDI) to create a virtual machine-basi or session-based desktop deployment.
	< Previous Next > Install Cancel

13. Select **Role-based** or **Feature-based** installation using the radio buttons.

14. Click **Next**. The Select Destination Server pop up window appears.

Before You Begin Installation Type	Select a server or a Select a server 	virtual hard disk on which from the server pool	to install roles and features.
Server Selection	 Select a virtual 	hard disk	
Server Roles	Server Pool		
Features	Filter		
	riiter:		
	Name	IP Address	Operating System
	TW-Sandbox.ains	-inc.com 192.168.0.85	Microsoft Windows Server 2012 R2 Standard
	1 Computer(c) four		
	1 Computer(s) four	id	dowr Server 2012, and that have been added by uri

- 15. Select a server or a virtual hard disk using the radio buttons.
- 16. Click **Next**. The *Select server roles* pop up window appears.

B	Add Roles and Features Wizard	_ D X
Select server roles	Select one or more roles to install on the selected server.	DESTINATION SERVER TW-Sandbox.ains-inc.com
Installation Type Server Selection Server Roles Features Confirmation	Roles Active Directory Certificate Services ^ Active Directory Domain Services ^ Active Directory Federation Services ^ Active Directory Lightweight Directory Services ^	Description Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
Results	Active Directory Nights Management Services Application Server DHCP Server DRS Server Fax Server Fax Server In File and Storage Services (2 of 12 installed) Hyper-V Network Policy and Access Services	
	Print and Document Services Remote Access Remote Desktop Services Y Y 	> Install Cancel

17. Click Features from the left-hand menu, then select Windows Search Service.18. Click Next. The *Confirm installation selections* pop up window appears.

Confirm installation selections DESTIN TW-Sandb Before You Begin Installation Type Server Selection Server Roles Features To install the following roles, role services, or features on selected server, click Install. Confirmation Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this page because been selected automatically. If you do not want to install these optional features, click Pre- their check boxes. Windows Search Service	
Before You Begin To install the following roles, role services, or features on selected server, click Install. Installation Type I Restart the destination server automatically if required Server Selection Optional features (such as administration tools) might be displayed on this page because been selected automatically. If you do not want to install these optional features, click Prettheir check boxes. Features Windows Search Service	IATION SERVER iox.ains-inc.com
Installation Type Restart the destination server automatically if required Server Selection Optional features (such as administration tools) might be displayed on this page because been selected automatically. If you do not want to install these optional features, click Pret their check boxes. Features Windows Search Service	
Server Selection Optional features (such as administration tools) might be displayed on this page because been selected automatically. If you do not want to install these optional features, click Pret their check boxes. Features Windows Search Service	
Server Roles been selected automatically. If you do not want to install these optional features, click Pretheir check boxes. Features Confirmation Windows Search Service	they have
Features Confirmation Windows Search Service	vious to clear
Confirmation Windows Search Service	
Results	
Export configuration settings	
Specify an alternate source path	
< Previous Next > Install	

19. Click **Install** to start the installation process. The *Installation progress* pop up window appears:

B	Add Roles and Features Wizard	_ _ X
Installation progre	ess	DESTINATION SERVER TW-Sandbox.ains-inc.com
Before You Begin	View installation progress	
Installation Type	i Feature installation	_
Server Roles	Installation started on TW-Sandbox.ains-inc.com	_
Features Confirmation Results	Windows Search Service	
	You can close this wizard without interrupting running tasks. View task page again by clicking Notifications in the command bar, and then Task Export configuration settings	progress or open this : Details.
	< Previous Next >	Close Cancel

20. The installation process begins. This may take a few moments. After the installation completes a confirmation window appears.

Installation progre	225	DESTINATION SERVER TW-Sandbox.ains-inc.com
	View installation progress	
	i Feature installation	
	Installation succeeded on TW-Sandbox.ains-inc.com.	
	Windows Search Service	
Confirmation		
	You can close this wizard without interrupting running tasks. View tasl page again by clicking Notifications in the command bar, and then Ta Export configuration settings	c progress or open this sk Details.
	< Previous Next >	Close Cancel

21. Click **Close** to exit the Add Roles Wizard.

2.5 Enable TIFF files in Windows Search Service

TIFF is a file format for storing images. TIFF files are not enabled for search by default; therefore you must enable the Windows TIFF IFilter feature in order to search TIFF files.

22. Click **Start > Server Manager**. The *Server Manager* application launches, as shown below.



23. Click Add roles and features. The Add Roles and Features Wizard pop up window appears.

E	Add Roles and Features Wizard	- 0	x
E Before you begin Installation Type Server Selection Server Roles Features Confirmation Results	Add Roles and Features Wizard DESTIN TW-Sandb This wizard helps you install roles, role services, or features. You determine which roles, ro features to install based on the computing needs of your organization, such as sharing do hosting a website. To remove roles, role services, or features: Start the Remove Roles and Features Wizard Before you continue, verify that the following tasks have been completed: The Administrator account has a strong password Network settings, such as static IP addresses, are configured The most current security updates from Windows Update are installed If you must verify that any of the preceding preequisites have been completed, close the completed thea run the winzed axis.	ATION SERIOX ains-inc.c	VER om or or
	To continue, click Next.		
	< Previous Next > Install	Cance	:

24. Click Next.

elect installation	Destination serve: TW-Sandboxains-inc.com
Before You Begin	Select the installation type. You can install roles and features on a running physical computer or virtual machine, or an an offline virtual hard dirk (VHD)
Installation Type	machine, of on an omine virtual hard disk (VHD).
Server Selection	Role-based or feature-based installation
	Configure a single server by adding roles, role services, and features.
	Remote Desktop Services installation
	Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-bas or session-based desktop deployment.
	< Previous Next > Install Cancel

25. Select Role-based or feature-based installation. 26. Click **Next**.

Before You Begin Installation Type	Select a server or a vi Select a server from	rtual hard disk on which om the server pool	to install roles and features.	
Server Selection	O Select a virtual ha	rd disk		
Server Roles	Server Pool			
Features	Filton			
	riter			
	Name	IP Address	Operating System	
	TW-Sandbox.ains-in	c.com 192.168.0.85	Microsoft Windows Server	2012 R2 Standard
	1 Computer(s) found			
	This page shows serv Add Servers comman collection is still inco	ers that are running Wir Id in Server Manager. Of mplete are not shown.	idows Server 2012, and that h fline servers and newly-addec	ave been added by using I servers from which data

- 27. Select from the available options.
- 28. Click Next.

a	Add Roles and Features Wizard	_ D X
Select server roles	Select one or more roles to install on the selected server.	DESTINATION SERVER TW-Sandboxains-inc.com
Installation Type Server Selection Server Roles	Roles	Description Active Directory Certificate Services (AD CS) is used to create
Features Confirmation Results	Active Directory Domain Services Active Directory Federation Services Active Directory Lightweight Directory Services Active Directory Rights Management Services Application Server DHCP Server DKS Server Fax Server Fax Server Fiel and Storage Services (2 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services	certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
	Remote Access Remote Desktop Services < Previous Network 	ext > Install Cancel

29. Select Features.

30. Select Windows TIFF IFilter.

31.Click Next.

P	Add Roles and Features Wizard	_ D X
Confirm inst	allation selections	STINATION SERVER indbox.ains-inc.com
Before You Begin	To install the following roles, role services, or features on selected server, click Install.	
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page becau	use they have
Server Roles	been selected automatically. If you do not want to install these optional features, click their check boxes.	Previous to clear
Features		
Confirmation Results	Export configuration settings	
	Specily an alternate source part	
	< Previous Next > Install	Cancel

32. Click Install.

è	Add Roles and Features Wizard	_ □ ×
Installation progr	ess	DESTINATION SERVER TW-Sandbox.ains-Inc.com
Before You Begin	View installation progress	
Installation Type	i Feature installation	
Server Selection		
Server Roles	Installation started on TW-Sandbox.ains-inc.com	
Features	Windows TIFF IFilter	
Confirmation		
	You can close this wizard without interrupting running tasks. View task page again by clicking Notifications in the command bar, and then Tas Export configuration settings	progress or open this k Details.
	< Previous Next >	Close Cancel

33. The installation process continues. This may take a few minutes. On conclusion, an installation confirmation appears:

Installation progre	255	DESTINATION SERVER TW-Sandbox.ains-inc.com
	View installation progress	
	i Feature installation	
		-
	Installation succeeded on TW-Sandbox.ains-inc.com.	
	Windows TIFF IFilter	
Confirmation		
	You can close this wizard without interrupting running tasks. View task page again by clicking Notifications in the command bar, and then Tas Export configuration settings	progress or open this k Details.
	< Previous Next >	Close Cancel

34. Click **Close** to exit the Add Roles Wizard.

2.6 Enable PDF in Windows Search Service

PDF files are not enabled for search by default; you must install the Adobe PDF IFilter feature in order to search PDF files. Follow the steps below to enable PDF in Windows Search Service.

- 1. Download and install Adobe PDF IFilter 9 from the following link: <u>ftp://ftp.adobe.com/pub/adobe/acrobat/win/9.x/</u>.
- 2. Restart the Windows Search Service after installing Adobe PDF IFilter 9/11:
 - a. Click **Start > Administrative Tools > Services**. The *Services* application launches.
 - b. Scroll down and select Windows Search.

		Services				x
File Action View	Help					
	a 📑 🛛 🖬 🕨 🖬 🗤					
Services (Local)	Services (Local)					
	Windows Search	Name 🔺	Description	Status	Startup Type	Log ^
	Trindows Scarch	🔍 Windows Encryption Provid	Windows E		Manual (Trig	Loc
	Stop the service	Windows Error Reporting Se	Allows error		Manual (Trig	Loc
	Restart the service	Windows Event Collector	This service		Manual	Net
		🎑 Windows Event Log	This service	Running	Automatic	Loc
	Description:	🔍 Windows Firewall	Windows Fi	Running	Automatic	Loc
	Provides content indexing, property	鵒 Windows Font Cache Service	Optimizes p	Running	Automatic	Loc
	caching, and search results for files, e-	鵒 Windows Installer	Adds, modi		Manual	Loc
	mail, and other content.	鵒 Windows Management Inst	Provides a c	Running	Automatic	Loc
		鵒 Windows Modules Installer	Enables inst		Manual	Loc
		鵒 Windows Presentation Fou	Optimizes p		Manual	Loc
		鵒 Windows Process Activatio	The Windo	Running	Manual	Loc
		鵒 Windows Remote Manage	Windows R	Running	Automatic	Net
		🍓 Windows Search	Provides co	Running	Automatic (D	Loc
		🌼 Windows Store Service (WS	Provides inf		Manual (Trig	Loc
		🤐 Windows Time	Maintains d	Running	Manual (Trig	Loc
		鵒 Windows Update	Enables the	Running	Manual (Trig	Loc
		🔍 WinHTTP Web Proxy Auto	WinHTTP i	Running	Manual	Loc
		🤐 Wired AutoConfig	The Wired		Manual	Loc
		🔍 WMI Performance Adapter	Provides pe		Manual	Loc ≡
		🔍 Workstation	Creates and	Running	Automatic	Net
		🧠 World Wide Web Publishin	Provides W	Running	Automatic	Loc 🗸
	<u></u>	<	Ш			>
	Extended Standard					

3. Click Action > Restart. The Service Control pop up window appears.

Service Control
Windows is attempting to start the following service on Local Computer Windows Search
Close

4. Select **File > Exit** to close the *Services* application.

5. Click **Start > Control Panel > Indexing Options**. The *Indexing Options* pop up window appears.

æ	Indexing	Options	x
Index these loss	594 items indexed Indexing complete. ations:		
Induded Loca	tions xplorer History (TW-SANDBOX u	Exclude AppData; AppData	
Modify How does inde: Troubleshoot s	Madvanced	Pause Close	

6. Click Advanced. The Advanced Options pop up window appears.

Advanced Options	X
Index Settings File Types	
File Settings	
Troubleshooting	
Delete and rebuild index Rebuild	
Troubleshoot search and indexing	
Index location	
Current location:	
New location, after service is restarted: Select new	
Advanced indexing help OK Cancel	

7. Click the **Rebuild** button located in the *Troubleshooting* section. The *Rebuild Index* pop up window appears.



8. Click **OK**. The *Indexing* Options window changes to display the rebuild progress. This may take several minutes to complete. Once the rebuild is completed, the *Indexing Options* window will indicate the total number of items rebuilt.

æ	Indexing	Options		x
R	139 items indexed Indexing speed is reduced due	to user activity.		
Index these lo Included Loo Internet	cations: ations Explorer History (TW-SANDBOX nu	Exclude		
Users		Appuata; Appuata		
Modif How does inde	y BAdvanced	Pause		
Troubleshoot	<u>search and indexing</u>		Close	

- 9. Click **Close** to exit the Indexing Options feature.
- 10. Close the Control Panel window.

3 Download the Installation Package

The FOIAXpress installation package contains the files needed to install FOIAXpress PAL. Contact OPEXUS support at support@opexustech.com for your installation package.

After downloading the package, follow the steps below to unzip the file:

- 1. Locate the downloaded .zip file, then right click it and select **Properties**.
- 2. On the *General* tab, select **Unblock**, then click **Apply**.
- 3. Next, unzip the contents of the folder. The contents of the package appear as shown in the following example:

	Name	Туре	Date modified
	dbscripts	File folder	2/24/2023 8:26 PM
	FOIAXpress	File folder	2/24/2023 8:27 PM
	installscripts	File folder	2/24/2023 8:20 PM
	inputs.json	JSON File	2/24/2023 8:20 PM
1	🗟 install	Windows PowerShell Script	2/24/2023 8:20 PM
1	a uninstall	Windows PowerShell Script	2/24/2023 8:20 PM

3.1 Verify the Integrity of the Installation Package

Steps to verify the integrity of the installation package.

- 1. Open Windows Powershell ISE.
- 2. Use the command below to verify the integrity of installation package:

Test-FileCatalog -CatalogFilePath "<<catalog file path(with extension of .cat) from downloaded artifact>>" -Path "<< folder that should be validated against the catalog file >>"

3. It will show as valid, as shown in the following example:



3.2 About the Installation Package

There are two primary files you'll interact with during installation:



- 1. *Inputs.json*: Drives the installation of the FOIAXpress system components. The file is in a standard json format and needs to remain a valid json file for successful installation.
- 2. *Install.ps*1: The executable file you will run to deploy the installation package with the parameters configured in the Inputs.json file.

4 Inputs.Json Settings for New Installations

4.1 About the Inputs.json File

The Inputs.json file located in the root directory of the extracted deployment package zip file drives the installation of the different components of the FOIAXpress PAL system. The file is in a standard json format and needs to remain a valid json file post updates prior to the installation.

The settings are grouped into sections, each addressing settings which may or may not require configuration, depending on your specific installation. The following subsections in this chapter describe each section of the Inputs.json file.

The parent node is the 'inputs' section. This section appears as follows:

{

```
"inputs": {
    "InstallType": {
        "New": "N",
        "Upgrade": "Y"
    },
    "Components": {
        "APP": "Y",
        "DB": "N"
    },
```

Each section has parameters you can adjust to configure your installation. An example section is shown below, with an explanation for how it works:

Each (1) *Section* ("InstallType" in this example) includes various (2) *Settings* ("New" in this example) to configure.



For each (**A**) Setting ("Upgrade" here), you can edit the (**B**) text in quotations ("N" here to indicate "No") to configure the settings for your installation. This might include adding a file path, user name, password, or simply a "Y" or "N" depending on the field you are configuring.

The first section under the parent node is the Install Type. See the following section for details on configuring your install type, with the remaining sections following in the order they appear in the Inputs file.

4.2 Install Type

Use the "InstallType" section to determine if this is a new installation, or an upgrade for an existing system:

```
"InstallType": {
"New": "N",
"Upgrade": "Y"
```

Setting	Description
New	Determine whether this is a new installation. For new installations this should be a "Y" value
Upgrade	Determine whether this is an upgrade for an existing application. For new installations this should be a "N" value

4.3 Install Components

The "Components" section allows you to determine which components to include with this installation. To include a component with your installation, be sure to assign the component a "Y" value on the corresponding line.:



Setting	Description
АРР	Include the FOIAXpress PAL Application in this installation procedure. This should be a "Y" value for new installations.
DB	Include the FOIAXpress PAL Database in this installation procedure. This should be a "Y" value for new installations.

4.4 Application and Scheduler

The "APPANDSCHEDULER" section has settings related to the FOIAXpress PAL application and scheduler installations. A value must be set for all values in this section to successfully install the application:

(!!) Note: any files paths specified must have two backslashes where a path in windows explorer requires a single backslash.

```
"APP": {
 "InstallLocation": "C:\\Program Files",
 "BackupLocation": "C:\\Backup",
 "SSLCert": {
    "CertPath": "<<CERTIFICATE PATH>>",
   "CertPassword": "<<CERTIFICATE PASSWORD>>"
  },
  "PALSSLCert": {
   "SSLPort": "<<PAL SSL PORT>>",
   "DnsName": "PAL"
 },
  "PALConfigSSLCert": {
   "SSLPort": "<<PAL CONFIG SSL PORT>>",
   "DnsName": "PALConfig"
  },
  "AppPool": "PALAppPool"
```

Setting	Description
InstallLocation	Specify a path for the application installation. Note this must be a file path for the .json file the execute.

Setting	Description
BackupLocation	Specify a path for the application backup location. Note this must be a file path for the .json file the execute
SSLCert	The following lines contain the SSL Certificate information. No data is required on this line. This is the grouping for SSL Certification settings to be used for the installation.
CertPath	Specify a path where the .pfx certificate file is located. Note this must a file path for the .json file to execute
CertPassword	Enter the password associated with the certificate linked in the "CertPath" field
PALSSLCert	The following lines contain the PAL SSL Certificate information
SSLPort	The network port designated for PAL's secure communications using SSL
DnsName	DNS name associated with the PAL application
PALConfigSSLCert	The following lines contain the PAL Configuration SSL Certificate information
SSLPort	The network port designated for PAL Configuration to communicate securely using SSL
DnsName	DNS name associated with PAL Configuration
AppPool	Enter the name of the application pool associated with your FOIAXpress application,

4.5 Database Settings

The "DB" section contains the settings for installing or upgrading your FOIAXpress PAL database. In case of a new installation, an agent account will be created.

```
"DB": {
    "DBServer": "PROJ-FX-SQL01",
    "DBName": "FXPALDB_ASHOK_0216231",
    "CreaterDBUserId": "sa",
    "CreaterDBUserPassword": "Ains$400",
    "IntegratedSecurity": "N",
    "AgentAccount": "<<AGENT NAME TO CONNECT PAL DB>>",
    "AgentAccountPassword": "<<AGENT PWD>>",
    "AgentAccountIntegratedSecurity": "N"
```

Setting	Description
DBServer	Name assigned to the server responsible for storing, retrieving, and managing FOIAXpress data
DBName	Name given to the specific database used for FOIAXpress
CreaterDBUserID	Database User ID to be used for this installation. The CreaterDBUserId should have admin rights with the ability to create a new database or database object on the specified Database server
CreaterDBUserPassword	Password associated with the account used in the "CreaterDBUserID" field
IntegratedSecurity	The Integrated Security property instructs the SQL Client to connect to SQL Server using Windows Authentication through the Security Support Provider Interface (SSPI). Use "Y" or "N" to determine if you are using Integrated Security in this installation.

Setting	Description
AgentAccount	The SQL server login account to be created in case of a new database install or the login already setup for the database being upgraded
AgentAccountPassword	The SQL server Agent Account password specified in the AgentAcount setting
AgentAccountIntegratedSecurity	Whether integrated security should be used when connecting to the database, default is "N"

4.6 Configuration Settings

Settings to configure the PAL Administration user details as well as the basic Organization details.

```
"Configuration": {
   "AdminUser": {
    "FirstName": "Admin",
    "LastName": "Admin",
    "Email": "<<EMAIL ID>>",
    "Login": "Administrator",
    "Password": "<<PASSWORD>>"
   },
   "Organization": {
    "Name": "<<ORGANIZATION NAME>",
    "Email": "<<ORG EMAIL ID>>"
```

Setting	Description
AdminUser	Fields to configure the PAL Administration admin user details
FirstName	First name for the PAL Admin user
LastName	Last name for the PAL Admin user

Setting	Description
Email	Email ID associated with the PAL Admin user
Login	Login ID for the PAL Admin user
Password	Password associated with the Login ID provided above
Organization	Details about the organization as configured for PAL
Name	Organization name
Email	Email ID associated with the organization

5 Inputs.json Settings for PAL Upgrade

This section discusses the inputs.json settings used when upgrading an existing FX PAL environment. For information on using the inputs.json file, see the *About the Inputs.json File* section of this manual.

(!!) Note: Some fields that would be required for a new installation should be left as -is for an upgrade. It is important to not edit or remove these fields as this could compromise the integrity of the inputs.json file. These are described where appropriate in the following sections.

5.1 Install Type

Use the "InstallType" section to determine if this is a new installation, or an upgrade for an existing system:

```
"InstallType": {
    "New": "N",
    "Upgrade": "Y"
```

Setting	Description
New	Determine whether this is a new installation. For upgrades this should be a "N" value
Upgrade	Determine whether this is an upgrade for an existing application. For upgrades this should be a "Y" value

5.2 Install Components

The "Components" section allows you to determine which components to include with this upgrade. To include a component with your upgrade, be sure to assign the component a "Y" value on the corresponding line:



Setting	Description
APP	Include the FOIAXpress PAL Application in this upgrade procedure.
DB	Include the FOIAXpress PAL Database in this upgrade procedure.

5.3 Application and Scheduler

The "APPANDSCHEDULER" section only requires input in the InstallLocation and BackupLocation fields.

(!!) Note: All fields not listed above can remain as-is during an upgrade.

```
"APP": {
 "InstallLocation": "C:\\Program Files",
 "BackupLocation": "C:\\Backup",
 "SSLCert": {
   "CertPath": "<<CERTIFICATE PATH>>",
   "CertPassword": "<<CERTIFICATE PASSWORD>>"
  },
  "PALSSLCert": {
   "SSLPort": "<<PAL SSL PORT>>",
   "DnsName": "PAL"
  },
  "PALConfigSSLCert": {
   "SSLPort": "<<PAL CONFIG SSL PORT>>",
   "DnsName": "PALConfig"
  },
 "AppPool": "PALAppPool"
```

Setting	Description
InstallLocation	Specify a path for the application installation. Note this must be a file path for the .json file the execute.
BackupLocation	Specify a path for the application backup location. Note this must be a file path for the .json file the execute

5.4 Database Settings

The "DB" section contains the settings for installing or upgrading your FOIAXpress database. In case of a new installation, an agent account will be created.

(!!) Note: You do not need to edit the AgentAccount fields during an upgrade, these can remain as-is.

```
"DB": {
    "DBServer": "PROJ-FX-SQL01",
    "DBName": "FXPALDB_ASHOK_0216231",
    "CreaterDBUserId": "sa",
    "CreaterDBUserPassword": "Ains$400",
    "IntegratedSecurity": "N",
    "AgentAccount": "<<AGENT NAME TO CONNECT PAL DB>>",
    "AgentAccountPassword": "<<AGENT PWD>>",
    "AgentAccountIntegratedSecurity": "N"
```

Setting	Description
DBServer	Name assigned to the server responsible for storing, retrieving, and managing FOIAXpress data
DBName	Name given to the specific database used for FOIAXpress
CreaterDBUserID	Database User ID to be used for this installation. The CreaterDBUserId should have admin rights with the ability to create a new database or database object on the specified Database server
CreaterDBUserPassword	Password associated with the account used in the "CreaterDBUserID" field
IntegratedSecurity	The Integrated Security property instructs the SQL Client to connect to SQL Server using Windows Authentication through the Security Support Provider Interface (SSPI). Use "Y" or "N" to determine if you are using Integrated Security in this installation.

5.5 Configuration Settings

Settings to configure the PAL Administration user details as well as the basic Organization details.

(!!) Note: These fields can remain as-is during the upgrade.

6 Install PAL

Before you are ready to run the Install.ps1 file, review the steps below to verify you've completed all the steps to this point:

- Make sure you have connectivity to the servers where the software is being installed.
- Complete the procedures described in the PAL Installation Prerequisites section.
- Download, verify, and extract the FOIAXpress PAL Installation package.
- Configure the Inputs.json file for your installation.

Once the above prerequisites are complete, follow the steps below to deploy the FOIAXpress PAL Installation package.

- 1. Open Windows Powershell ISE
- 2. Use PowerShell to navigate to the location where you extracted the installation package:



3. Type .\install.ps1 for either install or upgrade



4. If the inputs.json file is in same location as the extracted installation files, simply click enter to execute the installation. Alternatively, if you have file in different location provide this file location, then execute the script.

This section provides instructions to configure the FOIAXpress Sync Service (PAL) and permissions. This section is relevant only if PAL is installed on your Web server.

7.1 Public Module Database Server and Database Information

(!!) Notes:

- Prior to configuring FOIAXpress Sync Service, ensure that the PAL Database has been created.
- The Download Document location is with respect to the FOIAXpress Sync Service only if you are using database configuration for your Sync Service. The configured user of the FOIAXpress Sync Service should have Full Control Security permissions on the Download Document location.
- The Download Document folder should be manually created on the local or remote system. Ensure that the FOIAXpress PAL application and the Download Document folder path (local or UNC) is accessible by the IIS user on the system where the FOIAXpress PAL application is installed. The path for the Download Document folder should be accessible by creating the virtual directory (DOWNLOADDOCUMENTS) on the FOIAXpress PAL application server.
- The Electronic Reading Room folder should be manually created on the local or remote system. Ensure that before the IIS user accesses the FOIAXpress PAL application, the Electronic Reading Room folder path (local or UNC) is accessible to the system on which the FOIAXpress PAL application is installed. The path for the Electronic Reading Room folder should be accessible by creating the virtual directory (ELECTRONICREADINGROOMDOCUMENTS) on the FOIAXpress PAL application server.

To configure FOIAXpress Sync Service, perform the following steps:

- 1. Select Start > All Programs > AINS FOIAXpress.
- 2. Right-click FOIAXpress Sync Configuration and select Run as administrator.



3. The Sync Service Configuration window will appear with the fields described in the table below based on the database server type (**MS SQL Server**) you configured earlier. Enter the required information and click **Configure**. The screen below uses MS SQL Server.

FOIAXpress Sync. Service Configuration	_		>
Enter the database server information to create the configuration file for the FOIAX Sync. Service application.	press	1	
Database Server Information			
Connect PAL Using WebService			
Public Access Link Database Server Dashboard			
Server Type: MS SQL Server V Sync. Interval (Minutes):			
Public Access Link Database Information			
Server Name:			
Database Name:	-		
Windows Authentication Requests None	~		
Login ID: Addresses None	~		
Password:			
SMTP Server Information			
SMTP Server: SMTP Port Number:			
Reprocess Failed Jobs for every Send E-mail Alert for every H Sync. Service Interval (Minutes): 5 Contact E-mail: Download Documents Location: PAL Reading Room Location:	lour(s)).	
The Download Document location is with respect to the FOIAXpress Sync. Service. The configues for this service should have Full Permissions on the above specified download document Before accessing FOIAXpress Public Access Link, make sure that the same location is access system where FOIAXpress PublicAccess Link is Installed and it is configured in the Modules s FOIAXpress Public Access Link configuration URL.	ired : locat ible to ection	ion. the of	
FOIAXpress Failed Requesters Public Access Link Failed Request	ters		
FOIAXpress Failed Requests Public Access Link Failed Reque	sts		
Note: Please restart the FOIAXpress Scheduler Service for the configuration changes to be eff Logged-in user must have full control on 'Config.ini' file located in 'C:\Program Files (x86)\AlNS FOIAXpress\Schedulerbin'.	ected.		
Configure Cancel			

Field Name	Description
Server Type	MS SQL Server.

Field Name	Description
Server Name	The title given to the server where the PAL database resides.
Database Name	The title given to the PAL database during creation.
Login ID	The unique identifier of the database owner (for example, FOIAAgent).
Password	The password associated with the database owner ID.
Dashboard	When selected, allows you to set the sync interval in number of minutes.
Auto Merge Requester Profile	When selected, automatically merges a requester's FOIAXpress profile data with a newly created requester's profile in PAL.
When Requester Address is Updated, Updated	Determines whether to update the requester's address in PAL if it is modified in the FOIAXpress application. The system will update the address for Open , Closed , Open and Closed , or None of the requests. If the Billing/Shipping address is modified in the FOIAXpress application, the system will update the Billing , Shipping , Billing and Shipping or None of the addresses in PAL.
SMTP Server	The title given to the SMTP server.
SMTP Server Port No.	The number assigned to the SMTP Server port. By default, the port number is 25.
Reprocess Failed jobs for every	How often and at what interval failed jobs will be reprocessed. The field specifies a unit of time and frequency (how often the reprocess has to be invoked). If the process fails, it automatically is reprocessed.

Field Name	Description
Send E-mail Alert for every	A time interval to send an email alert for failed jobs.
Sync Service Interval (Mins.)	The time gap after which the synchronization process starts again and will process all jobs within the queue. Effectively, this is the sleep time between which the synchronization service stops and resumes another cycle of the sync process. When the sync process starts, the FOIAXpress PAL database is updated with the latest requesters and request information. If the sync process interval time is more than the number of jobs to be processed in a synchronization process, the cycle will also increase, and vice versa. The sync service must be set to a number greater than zero.
Contact Email	The electronic mail address where failed job notifications will be sent.
Download Document Location	This location stores the requested documents where the requested delivery mode is 'PAL.' This location must be on a remote system that is accessible to the FOIAXpress Sync Service. (For example: \\systemname\foldername) The Download Document Folder must be shared prior to installing the sync service so it is available for selection during the configuration process.
PAL Reading Room Location	This location stores the electronic reading room documents and must be on a remote system, which is accessible to the FOIAXpress Sync Service.

7.2 Using the WebService to Connect to PAL

Using the WebService to connect to PAL does not require database access. However, you must configure the WebService in IIS in order to have a successful connection.

(!!) Note: The below steps should be taken on the server where PAL is configured.

- 1. Click Start > Administrative Tools > Internet Information Services (IIS) Manager.
- 2. Expand Start Page > Sites > PALConfig and select the WebServices folder.
- 3. Double-click Authentication in the middle pane and enable Windows Authentication.



- 4. Click the **WebServices** folder on the **Connections** pane to return to the WebServices Home screen.
- 5. Right-click the **PALConfig** node and select **Edit Bindings**.



6. Add the **HTTP Secure Socket Layer** port assignment. Click **Add**. The *Add Site Binding* window appears.

Sync Service (PAL)

Type	Add Site Binding			?	×
https	Type: http Host name: Example: www.co	IP address: All Unassigned	Port:		ve
			ОК	Cancel	

- a. Select **https** from the *Type* dropdown menu.
- b. Select the **SSL Certificate** provided in the drop-down list. For example, WMSvc-TW-AINSDOCSAX.

Туре:	IP address:	Port:	
https	 All Unassigned 	~ 443	
Host name:			
Require Se	erver Name Indication		
SSL certificat	e:		

- c. Click **OK** to retain the settings or click **Cancel** to exit from the *Site Bindings* window.
- 7. Add the SSL Certificate. If a certificate is not available in the **SSL Certificate** drop-down list:
 - a. Select the Start Page (name of the server).
 - b. Click the Server Certificates option in the middle pane.



- c. Click **Create Certificate Request** in the Actions pane. For further instructions, go to http://technet.microsoft.com/en-us/library/cc732906.aspx.
- d. Click **Complete Certificate Request** in the *Actions* pane. For further instructions, go to http://technet.microsoft.com/en-us/library/cc771816.aspx.
- 8. Configure SSL Settings:
 - a. Double-click SSL Settings.

- b. Select the **Require SSL** checkbox.
- c. Accept client certificates.
- d. Click **Apply** in the Actions pane.
- 9. Click the **PALConfig** node in the *Connections* pane to return to the home page.
- 10. Click the **Connect PAL Using WebService** option on the FOIAXpress Sync Service Configuration window.
- (!!) Note: This should be done on the server where the FOIAXpress Sync Service is installed.
 - 11. Provide the PAL WebService URL in the **URL** field. For example: <u>https://palserver/webservices/syncservice.svc</u>.
- (!!) Note: The palserver portion of the URL above needs to reflect your PAL server name.

12. Enter the Windows Login ID and Password for the PAL Server.

* FOIAXpress Syr	nc. Service Configuration	_		x	
Enter the database server information t Sync. Service application. Database Server Information	to create the configuration file for the FOIAX	press	;		
Connect PAL Using WebService					
WebService Configuration URL: Login: Password: Test Connection	Dashboard Sync. Interval (Minutes): Auto Merge Requester Profile When Requester Address is Updated, Update Requests None Addresses None	e ~ ~			
SMTB Sonver Information					
SMTP Server	SMTP Port Number:				
Reprocess Failed Jobs for every Sync. Service Interval (Minutes): 5 Co	Send E-mail Alert for every	lour(s).		
FOIAXpress Failed Requesters	Public Access Link Failed Reques	ters			
FOIAXpress Failed Requests Public Access Link Failed Requests Note: Please restart the FOIAXpress Scheduler Service for the configuration changes to be effected. Logged-in user must have full control on 'Config.in' file located in 'C\Program Files (x80)AINS FOIAXpress\Schedulerbin'. Configure Cancel					

13. Enter the required information, and click **Configure**.

14. A confirmation message appears once the information is accepted. Click **OK**.

7.3 FOIAXpress Failed Requests and Requesters

Within the FOIAXpress Sync. Service Configuration window, you can view the number of FOIAXpress failed requests and requesters, and Public Access Link failed requests and requesters. Based on this information, you can take an appropriate action, such as retrying failed jobs. These fields are represented as links that will be enabled only when there are failed requesters and/or requests of FOIAXpress and/or PAL respectively. You must click the links on the bottom-left of the FOIAXpress Sync Service Configuration window in order to view the failed jobs.



1. After clicking the **FOIAXpress Failed Requesters/Requests** link the FOIAXpress Failed Requests window appears.

			FOIAXpress Failed Requ	ests		x
F	etry	Select All Deselect All V	iew Export Failed Jobs to Log	Close		
	ID	Request ID	Requester Name		Error Description	
	157	2017-FOI-00053-BK	Krusinger, Rebecca		Error From WCF : ProcessFXTransa	
	279	2018-VPRT-YA AO- AO-A	Yerramaneni, Akhila		Error From WCF : ProcessFXTransa	
	508	2017-APP-MARAD OC-D	Kyle, Mills		Error From WCF : ProcessFXTransa	
	546	KN-AO-AI-17-00011	Beherendorff, Jason		Error From WCF : ProcessFXTransa	
	549	2017-FOI-00212-	Beherendorff, Jason		Error From WCF : ProcessFXTransa	
	551	2017-APP-YA AO- AO-AY	Yerramaneni, Akhila		Error From WCF : ProcessFXTransa	
	564	KN-AO-AI-17-00012	Beherendorff, Jason		Error From WCF : ProcessFXTransa	\sim
<						
Di: All	Displays the list of FOIAXpress failed Requests and take the necessary action such as Retry for the failed Requests. All the Retry Requests will be sent for Sync process again.					

2. To retry the failed requests/requesters, select the checkbox for each job and click **Retry**. (!!) Note: All failed jobs will be sent to the sync service.

3. To view the details of the failed jobs, select a job and click **View** or double-click the selected job.

Faile	ed Job Description
Close - FOIAXpress Failed Request D	etails
Request ID	[157]
Requester Name	Krusinger, Rebecca
Error Description	Error From WCF : ProcessFXTransactions :System.Exception: Incorrect syntax near the keyword 'group'. Unclosed quotation mark after the character string ')'. at SyncService.ProcessFXTransactions (String strInvoicesXml, String strInvoiceDetailsXml, Stri
Visible Request ID	2017-FOI-00053-BK

4. To export failed jobs to a log file, click Export Failed Jobs to Log.



7.4 Public Access Link Failed Requests and Requesters

You must click the links on the bottom-right of the FOIAXpress Sync Service Configuration window in order to view the failed jobs.

(!!) Note: The below screenshots show the Public Access Link Failed Requests screens, however, the Public Access Link Failed Requesters screens look very similar.

1. After clicking the **Public Access Link Failed Requesters/Requests** link, the *Public Access Link Failed Requests* window appears.

	Public Access Link failed Requests				
Retry S	Retry Select All Deselect All View Export Failed Jobs to Log Close				
ID	Request ID	Requester Name	Error Description		
361		m, Samy	Unable to create an appeal for 'TB		
Displays the	Displays the list of Public Access Link failed Requests and take the necessary action such as Retry for the failed Requests.				
All the Retry	All the Retry Requests will be sent for Sync process again.				

- 2. To retry the failed requests/requesters, select the checkbox for each job and click **Retry**. All failed jobs will be sent to the sync service.
- 3. To view the details of the failed jobs, select an **ID** and click **View** or double-click the selected job.

Failed Job Description				
Close				
Public Access Link Failed Request Details				
Request ID	351			
Requester Name	m, Samy			
Error Description	Unable to create an appeal for 'TBD' in secured subnet, as the request does not exist			
Visible Request ID				

4. To export failed jobs to the log file, click **Export Failed Jobs to Log**.



8 Required Privileges for FOIAXpress PAL Application Server

The following section lists the directories that are relevant to FOIAXpress PAL as well as the level of permissions that should be applied to these directories.

8.1 Required Permissions for Network Service User (ASP.NET Process Identity)

On a Web server running Microsoft Windows Server 2016/2019 and Internet Information Services (IIS) 7.5/8/10, the ASP.NET process runs in the application pool for the Web application. FOIAXpress PAL setup will set the application pool identity as NETWORK SERVICE account by default.

The file and folder permissions listed in table below must have the ASP.NET Process Identity of FOIAXpress PAL Web application (Network Service User/configured impersonate user).

Location	Access type	Comments
%SystemRoot%\Microsoft. NET\ Framework\versionNumber \ Temporary ASP.NET Files	Read, List Folder Contents, Read & Execute, Write	This is the location for dynamically compiled files. Beneath this location, application code generation takes place in a discrete directory for each application.
%SystemRoot%\assembly	Read, List Folder Contents, Read & Execute	This is the location of the <u>global assembly cache</u> (GAC).
%SystemRoot%\System32	Read, List Folder Contents, Read & Execute	This location contains system DLLs loaded by .NET Framework.

Location	Access type	Comments	
%SystemRoot%\Temp	Full Control	This location is used for Web services support.	
User profile directory	Read, List Folder Contents, Read & Execute, Write	This directory is used by the GAC cache lock files and the security configuration caching mechanism of the common language runtime. If the user profile directory for the account does not exist, ASP.NET uses the default user profile directory.	
Electronic Reading Room Documents Location	Read, List Folder Contents, Read & Execute, Write	All FOIAXpress PAL electronic reading room documents are stored in this location.	
Download Documents Location	Read, List Folder Contents, Read & Execute, Write	All FOIAXpress PAL download documents are stored in this location.	
Inetpub\wwwroot\ PublicAccessLink\PAL\imag es	Modify, Read & Execute, List Folder Contents, Read, Write	This location stores the images of the PAL website.	
Inetpub\wwwroot\ PublicAccessLink\PALConfi g\ images	Modify, Read & Execute, List Folder Contents, Read, Write	This location stores the images of PAL Config website.	

Location	Access type	Comments
Inetpub\wwwroot\ PublicAccessLink\ PALConfig\App_Data	Modify, Read, & Execute, List Folder Contents, Read, Write	This location contains dictionary file information
Program Files\PAL\pallog.txt -OR- Program Files (x86)\PAL\pallog.txt	Modify, Read & Execute, List Folder Contents, Read, Write	This file records the error log information for PAL.
Program Files\PAL\Errorlog.txt -OR- Program Files (x86)\ PAL\Errorlog.txt	Modify, Read & Execute, List Folder Contents, Read, Write	This file records the error log information for PortalXpress

(!!) Note: If file repository folders (Download Documents and Electronic Reading Room documents locations) are located on another server other than the FOIAXpress PAL application server, set the required security and sharing permissions for the FOIAXpress PAL application server account (network service user). Example: palserver\$.

Required Privileges for FOIAXpress PAL Application Server

1	PAL	Properties		x	
General Sharing	Security	Previous Versions	Customize		
Network File and I	Folder Sh	aring			
PAL Shared					
Network Path:					
\\Qa-sandbox\pa	I				
Share					
Advanced Sharing	,				
Set custom permis advanced sharing	sions, cr options.	eate multiple share:	s, and set other		
Advanced	Shanng				
	Clo	ise Cano	el Apply	,	
			on repri		
	DAL	Droportion		x	
L	PAL	. Properties		x	
🚶 General Sharing S	PAL Security	Properties	Customize	X	
General Sharing Sharing Sharing	PAL Security PAL	Properties Previous Versions	Customize	×	
General Sharing Solution Solut	PAL Security PAL s:	Properties Previous Versions	Customize	x	
General Sharing Object name: C:\ Group or user name	PAL Security PAL s:	. Properties Previous Versions	Customize	×	
General Sharing Object name: C: Group or user name Everyone SYSTEM NETWORK SI	PAL Security PAL s: ERVICE	Properties	Customize	×	
General Sharing Object name: C: Group or user name Compose System System System State Stat	PAL Security PAL s: ERVICE	Properties Previous Versions	Customize	×	
General Sharing Object name: C: Group or user name Everyone SYSTEM SYSTEM NETWORK SI SS1.5.21.1102 To change pemissi	PAL Security PAL s: ERVICE 774220.3	Provious Versions	Customize	×	
General Sharing Object name: C: Group or user name SYSTEM SYSTEM SYSTEM SSUPPRIME C To change permissi Permissions for Ever	PAL Security PAL s: ERVICE 774220.3 ons, click	Properties Previous Versions Previous Versions U128536810.34630 III Edit. Alic	Customize	×	
General Sharing Object name: C: Group or user name Everyone SYSTEM SYSTEM NETWORK SI SSL5.21.1108 C To change permissi Permissions for Ever Full control	PAL Security PAL s: ERVICE 774220-3 ons, click	Properties Previous Versions P	Customize	×	
General Sharing Object name: C: Group or user name Everyone SYSTEM NETWORK SI SSI 5-21.1108 To change permissi Permissions for Ever Full control Modify	PAL Security PAL s: ERVICE 774220-3 ons, click	Provious Versions	Customize	×	
General Sharing Object name: C: Group or user name Everyone SYSTEM NETWORK SI SISTEM To change permissi Permissions for Ever Full control Modify Read & execute	PAL Security PAL s: ERVICE 774220.3 ons, click ryone	Provious Versions	Customize	×	
General Sharing Object name: C: Group or user name Evenyone SYSTEM NETWORK SI SS15-21.1108 Control Modify Read & execute List folder control Desc	PAL Security PAL s: ERVICE 774220.3 ons, click ryone	Properties Previous Versions I128536810.34630 III Edit. Allo	Customize	×	
General Sharing Object name: C: Group or user name SYSTEM SYSTEM SYSTEM SYSTEM Permissions for Eve Full control Modify Read & execute List folder conten Read Write	PAL Security PAL s: ERVICE 774220.3 ons, click nyone	Properties Previous Versions U128536810.34630 U1285368100.34630 U12853681000000000000000000000000000000000000	Customize		
General Sharing Object name: C: Group or user name SYSTEM SYSTEM NETWORK SI SYSTEM SYS	PAL Security PAL s: ERVICE 774220.3 ons, click ryone ts	Provious Versions	Customize		
General Sharing Object name: C: Group or user name SYSTEM SYSTEM NETWORK SI SS.1.5.21.1108 C Full control Modify Read & execute List folder conten Read Write For special permissio click Advanced.	PAL Security PAL s: ERVICE 774220-3 ons, click ryone ts	Previous Versions	Customize		
General Sharing Object name: C: Group or user name SYSTEM SYSTEM NETWORK SI SSTEM Control Full control Modify Read & execute List folder conten Read Write For special permission	PAL Security PAL s: ERVICE 774220.3 ons, click nyone ts	Previous Versions	Customize		

The File Repository folder located on the file server should have the Read and Write permissions for File Sharing and Full control for Security permissions. Please refer to the above screenshots to view the permissions.

8.2 FOIAXpress Sync Service Required Privileges

The following table shows which type of file and folder permissions the user must have in order to function properly.

Location	Access Type	Account	Comments
%SystemRoot%\assembly	Read, List Folder Contents, Read & Execute	Service User	This is the location of the global assembly cache (GAC).
%SystemRoot%\System32	Read, List Folder Contents, Read & Execute	Service User	This location contains system DLLs loaded by the .NET Framework.
User profile directory	Read, List Folder Contents, Read & Execute, Write	Service User	This location stores the cache files of the Sync Service.
%SystemRoot%\Microsoft.NET \Framework\version and subdirectories	Read, List Folder Contents, Read & Execute	Service User	ASP .NET must be able to access the system assemblies referenced in the Machine.config file in the CONFIG subdirectory under %SystemRoot%\Microsoft.NET\ Framework\version.

Location	Access Type	Account	Comments
AFXWDOFL	Read & Execute, List Folder Contents and Read	Service User	All FOIAXpress original documents are stored in this location.
AFXWERR	Full Control	Service User	All FOIAXpress electronic reading room documents are stored in this location.
Program Files\AINS\\ FOIAXpress\bin -OR- Program Files (x86)\AINS \FOIAXpress\bin	Full Control	Service User	Installed application files will be stored in this location.
Program Files\AINS\\Logs -OR- Program Files (x86)\AINS \Logs	Modify, Read & Execute, Read, Write	Service User	The application error log and configuration files will be stored in this folder
Documents Download Location	Full Control	Service User	This is provided in the Sync Service configuration. If request delivery mode is set to web download, the documents will be stored in this location.

Location	Access Type	Account	Comments
Electronic Reading Room location	Full Control	Service User	This is provided in the Sync Service configuration. The documents published from FOIAXpress will be stored in this location.

(!!) Notes:

- The above specified Download Document Location and Electronic Reading Room Location should be the same as the location specified in the <u>FOIAXpress Sync Service</u> <u>Configuration</u>.
- The folders \AFXWDOFL and \AFXWERR are the FOIAXpress File Repository folders.
- The folder %SystemRoot% is the Microsoft Windows installation folder.