



# Aero Data Server (ADS)

ADS Windows User Manual Version 1.2606

NSN76440152335389

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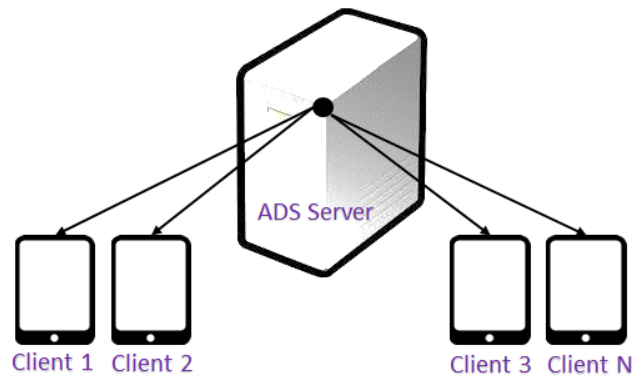
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# 1 Introduction

This guide is designed to help you navigate and utilize the features of Aero Data Server effectively. Aero Data Server (ADS) is a server that is used for database management, sharing, and downloading Aero App data, providing users with advanced capabilities for visualization, georeferencing, and metrics used to monitor server performance. In this manual, you will find comprehensive instructions on installation, configuration, and operation of the Aero Data Server.

## 1.1 Overview

Aero Data Server (ADS) allows Aero App on iOS and Android mobile devices to download Aero App data cycles over a locally hosted Wi-Fi network. ADS enables pilots to retrieve aeronautical data in a fast and secure way.



## 2 Hardware and Software Requirements

To install and utilize Aero Data Server (ADS), it is important to ensure that your computer meets the necessary software requirements. These include having a compatible operating system, sufficient memory and disk space, and the necessary software dependencies installed. It is essential to follow all steps carefully to avoid issues during or after installation.

The hardware and software requirements are listed below:

- Computer running Windows 10 with OS 64 bit and .NET 4.7.1 or later
- At least 60 GB (SSD preferred) of free disk space available and 2 GB or higher of RAM
- Minimum resolution of 1024 X 768 pixels
- The ADS installation file is available on the EFB DVD and [aeroapp.info](http://aeroapp.info)
- Disabled all third-party firewalls
- LAN connectivity (Wi-Fi, 100 Mbit/s, 1Gbit preferred)

It is important to note that these are just the minimum requirements, and it is recommended to have a more powerful system for optimal performance.

### 2.1 Routers

There are many router manufacturers. Users should research options and choose a router that is dependable, easy to set up, and performs well. It is advisable that both the computer (laptop or desktop) and the router have at least 1Gb/s ethernet port.

### 2.2 Compatible Browsers

ADS supports the following browsers:

- Google Chrome
- Mozilla Firefox
- Microsoft Edge

### 3 Troubleshooting

If you have problems that cannot be resolved, contact the Aero App Support Team:

**Phone:** 954-323-2244 ext. 412

**Email:** [aeroappsupport@hiltonsoftware.com](mailto:aeroappsupport@hiltonsoftware.com)

**Contact Form:** [aeroapp.info/contactus/](http://aeroapp.info/contactus/)

**Hours of Operation:** Monday - Friday 1000-1800 EST

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## 4 Configuration

1. Verify that your computer meets the minimum requirements needed to successfully install ADS.
2. Choose network connectivity:
  - Connect device to a wireless access point
  - Plug device into a secure network
3. Set up your Ethernet connection by plugging the Ethernet cable into any available port.

### 4.1 Advantages and Disadvantages

Option	Advantage	Disadvantage
Stand-alone	IP address stays the same	Some set up required and must coordinate with system administrator.
Network (SSID)	No set up required	IP address may change if machine is rebooted.

### 4.2 Configure Wi-Fi

Configure the Wi-Fi router with the following settings:

- SSID: Aero App Network (or other name as determined by the system administrator)
- Encryption: WPA2
- Wi-Fi password: Create a secure alpha-numeric password
- DHCP: Enabled

## 5 Aero Data Server (ADS) Installation

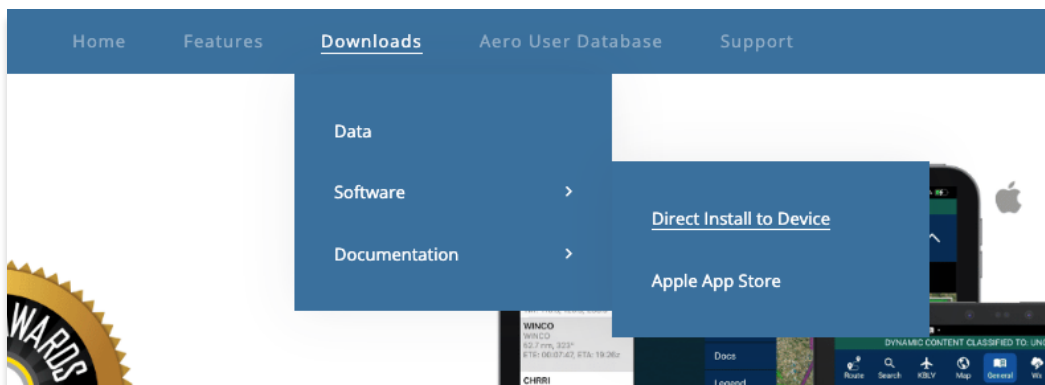
Install Aero Data Server (ADS) from the following sources:

- **Aero App DVD:** NGA distributes the Aero App DVD. For additional information, contact the Defense Logistics Agency ([acctmgr@dla.mil](mailto:acctmgr@dla.mil)).
- **Aero App Website:** To access the Aero App website, visit [aeroapp.info](http://aeroapp.info) > Downloading from the Aero App website requires an **Aero User Database** ([userdb.aeroapp.info/auth/register](http://userdb.aeroapp.info/auth/register)) or **GEOAxis** ([geoaxis.nga.mil](http://geoaxis.nga.mil)) account.

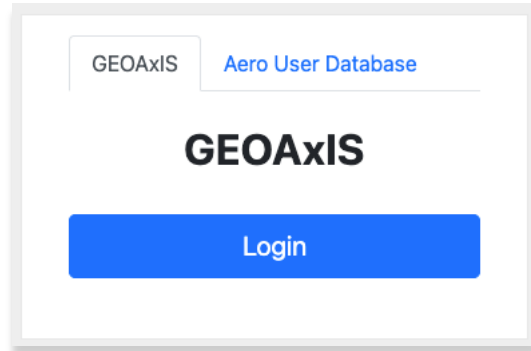
### 5.1 Aero App Website

This section describes how to download ADS directly from the Aero App website. Access to the download page requires authentication using either Aero User Database (AUD) credentials or authenticate through GEOAxis.

1. Open a web browser and navigate to the **Aero App website** ([aeroapp.info](http://aeroapp.info)).
2. Hover over **Downloads**, select **Software**, then choose **Direct Install to Device**.

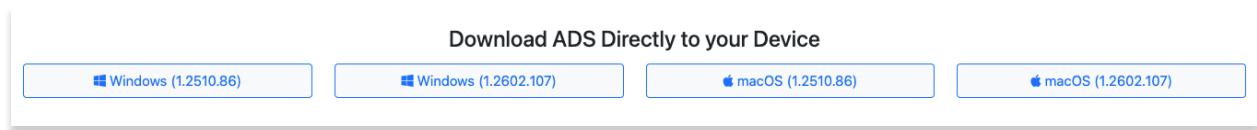


3. When prompted, authenticate using either **Aero User Database** (refer to [Section 11.2.1](#)) credentials or authenticate through **GEOAxis** (refer to [Section 11.2.2](#)).



After successful authentication, the Download page is displayed. The page provides access to two app releases, the previous version and the latest version.

4. Select the desired **ADS build** to download.



If prompted by the operating system, trust or approve the executable before continuing with the installation process.

## 5.2 Aero App DVD

This section describes how to obtain and extract ADS from the Aero App DVD. The Aero App DVD contains ADS installation files and aeronautical data, which is released on a 28-day update cycle. To obtain an Aero App DVD, contact the Defense Logistics Agency (DLA).

Before proceeding, ensure that a desktop or laptop computer with an internal or external DVD drive is available

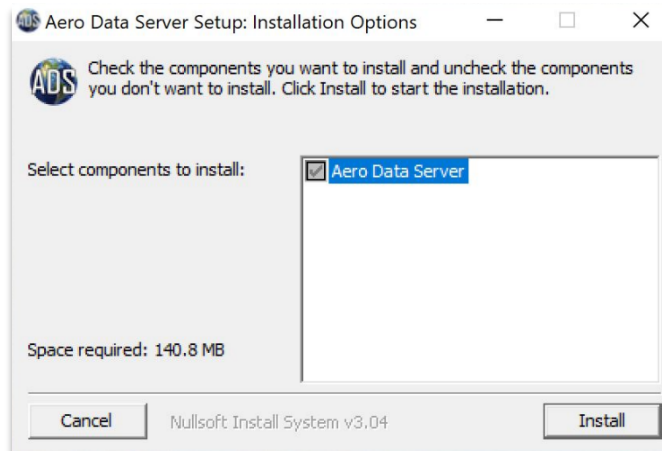
1. Insert the Aero App DVD into the computer's DVD drive. If the computer does not have an internal DVD drive, connect and use an external DVD drive.
2. Open File Explorer and navigate to the **DVD drive**.
3. Open the **apps** folder.
4. Extract the **app-ADS ZIP file** to a location on the local workstation.
5. Navigate to the extracted files to continue the installation process.

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## 6 Aero Data Server (ADS) Setup

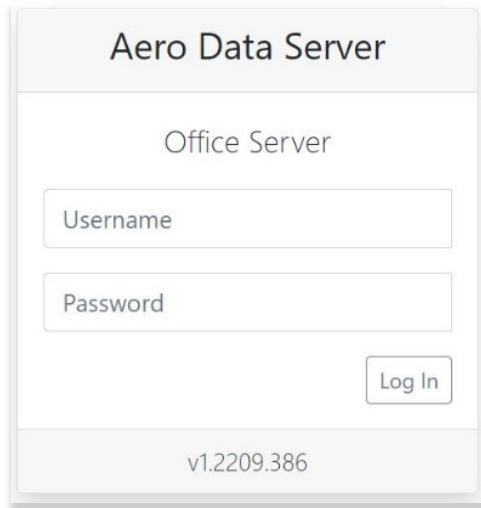
Each source (Aero App Website and Aero App DVD) includes the ADS app executable file required to install the ADS software on your device. After downloading the ADS app executable, you will need to transfer the file to the device's local file where you intend to install ADS. Once stored, follow the steps below to complete the ADS installation process.

1. Double-click on the **ADS executable** to run the application.
2. A series of prompts will be displayed. Follow the prompts then click **Install**. The app installation process will begin.



3. Once the installation is complete, the ADS icon will be placed in your computer's System Tray. If necessary, click the **arrow** at the bottom right of the screen to show hidden icons.
4. Right-click on the **ADS icon**. The following menu options are available:
  - **Manage** – initiates the ADS program
  - **Start** – if the ADS program has been disconnected, users can reconnect by clicking Start.
  - **Stop** – disconnects from the server
  - **Change Port** – displays the HTTP and HTTPS ports being used while having the option to modify the ports of your server.
5. Enter desired port numbers in the Change Port option, if necessary.
6. From the ADS popup, select **Manage** to launch ADS.

7. You will be directed to the ADS login page. Enter the default admin credentials.
  - a. **Default username:** admin
  - b. **Default password:** admin



Aero Data Server

Office Server

Username

Password

Log In

v1.2209.386



**NOTE:** When accessing ADS, the system will automatically launch on the web browser that you have set as the default on your computer.

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8. Click **Log In**.

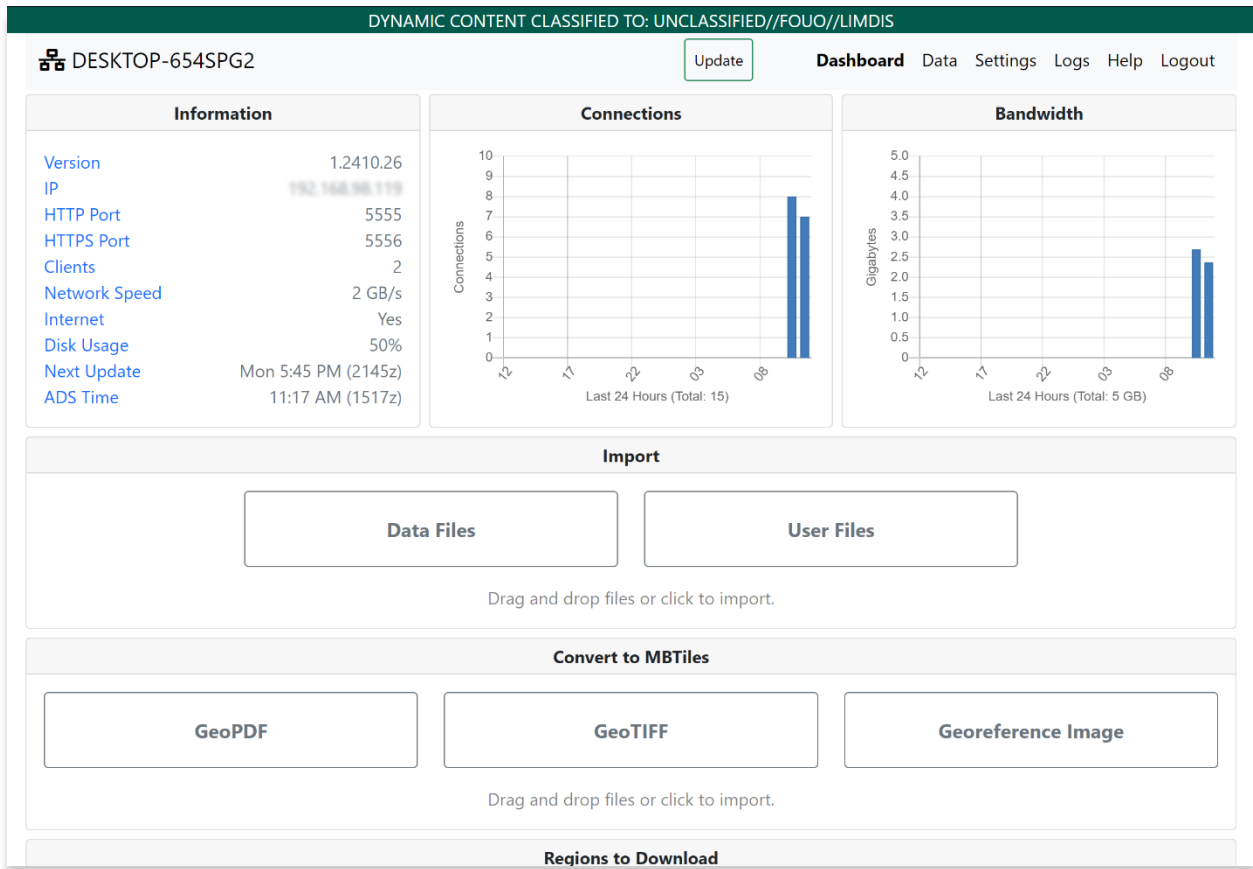


**NOTE:** If there is a login from a separate computer, the user must enter the browser IP address and port displayed on the dashboard (user must have this address beforehand). In the event this occurs, the session started by another user will be disconnected.

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## 7 Dashboard

The Aero Data Server's Dashboard is a comprehensive tool that provides users with an array of features. With this tool, users can gain insights on server details, including metrics that monitor server performance. Additionally, the Dashboard offers data retrieval options such as Import, Convert to MBTiles, Regions to Download, and Additional Files to Download.



## 7.1 Information

The Information section of the Dashboard page provides users with essential server details. If the Wi-Fi or Ethernet is connected but the Host/IP address is invalid, the internet field on the Dashboard will indicate “No.” However, users can still perform an update as they are connected to the internet.

If the Wi-Fi or Ethernet connection is disconnected, the internet field on the Dashboard will display “No”. Without internet connection, users will be unable to perform any updates.

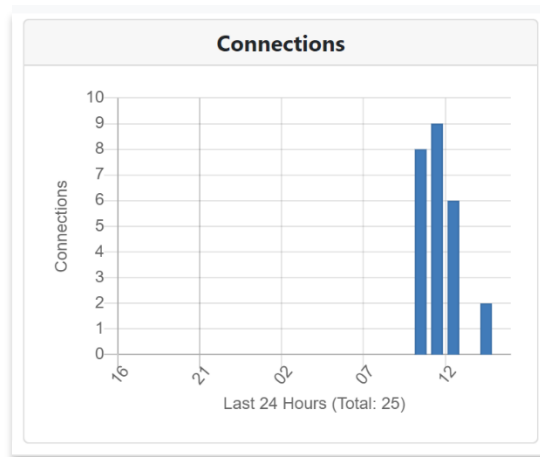
- **Version** – ADS version number
- **IP** – ADS IP address
- **HTTP Port** – ADS port number
- **HTTPS Port** – ADS secured port number
- **Clients** – Number of clients currently connected to the server
- **Network Speed** – Current network link speed
- **Internet** – Displays the internet connection status. “Yes”, is displayed when ADS is successfully connected to the internet and “No”, when there is no internet connection.
- **Disk Usage** – Current disk usage of the computer where the ADS is installed
- **Next Update** – Server time for the next auto update (Zulu time included)
- **ADS Time** – Displays the current time based on the location of where ADS is being used (Zulu time included).

Information	
Version	1.2410.26
IP	192.168.96.119
HTTP Port	5555
HTTPS Port	5556
Clients	2
Network Speed	2 GB/s
Internet	Yes
Disk Usage	50%
Next Update	Mon 5:45 PM (2145z)
ADS Time	11:17 AM (1517z)

## 7.2 Connections

The Connections section provides users with server metrics for the number of requests being made within the 24-hour period.

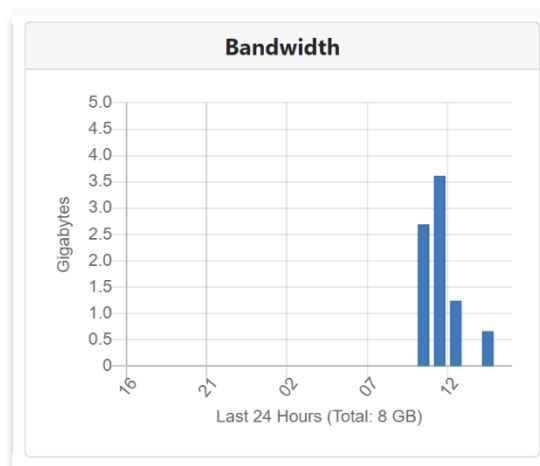
1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Connections* section. The graph will display connection metrics within the 24-hour period.



## 7.3 Bandwidth

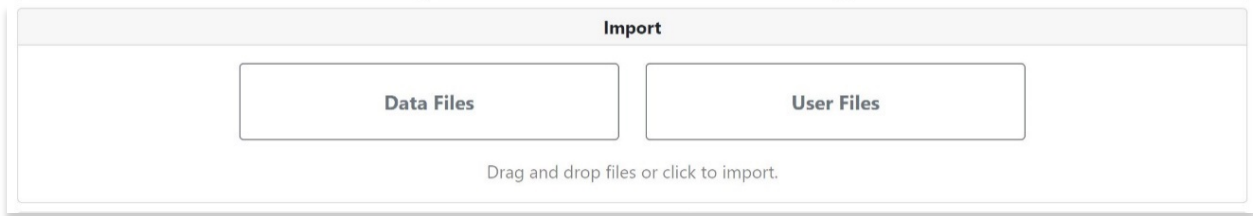
The Bandwidth section provides users with server metrics containing the amount of data being used within the 24-hour period.

1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Bandwidth* section. The graph will display bandwidth metrics within the 24-hour period.



## 7.4 Import

In the Import section, users can manually import several types of data files, including Global, Regions, Sectionals, Georeference, Aero App Maps, Helicopter and TAC Maps, E-IPL, Giant Reports, Earth Base Maps, and Terrain data. Users can also import user-generated files, like MBTiles and PDFs, by selecting User Files. Multiple files can be selected for import at the same time.



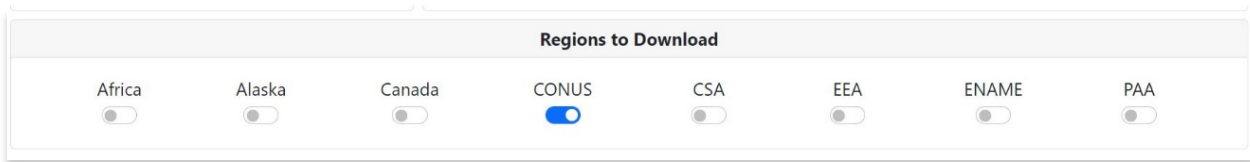
## 7.5 Convert to MBTiles

The Convert to MBTiles section enables users to convert GeoPDF and GeoTIFF files to MBTiles format. The Georeference Image tool is available to georeference images in JPG, PDF, and PNG formats, then converts the georeferenced images to MBTile format. The file conversion tool can only process one file at a time.

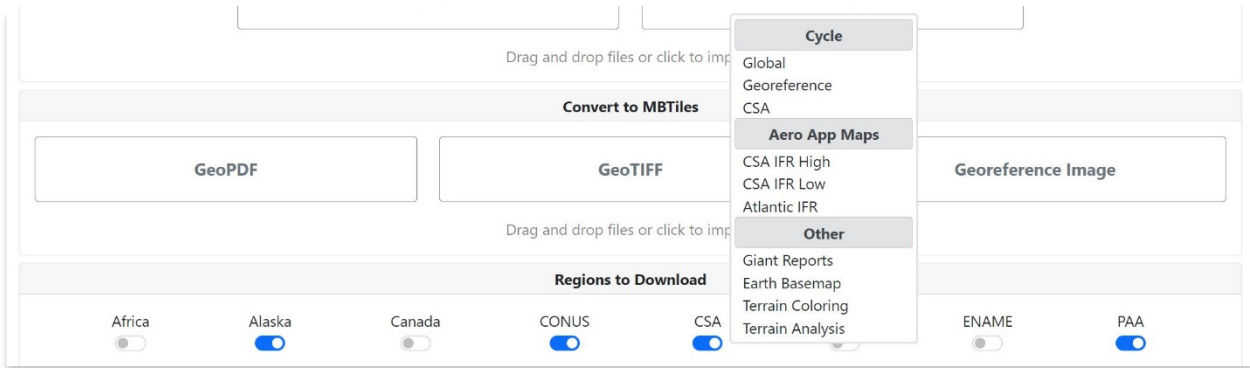


## 7.6 Regions to Download

The Regions to Download section allows users to choose one or more regions to download data. Available regions include Africa, Alaska, Canada, CONUS, CSA, EEA, ENAME, and PAA.

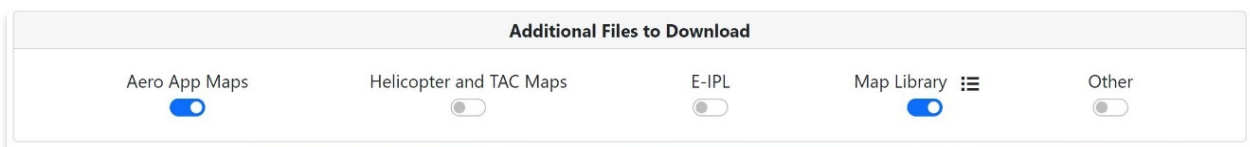


The Regions to Download section is divided into specific regions, each containing the associated data available for download. Hover over a region to preview its available data.



## 7.7 Additional Files to Download

The Additional Files to Download section allows users to select additional files such as Aero App Maps, Helicopter and TAC Maps, E-IPL, Map Library, and Other data such as Giant Reports, Earth Base Map, Terrain Coloring, and Terrain Analysis.



**NOTE:** By clicking the Map Library's menu icon, you can individually select desired chart(s) from the listed Map Library files.



**NOTE:** From the *Select Map Library Files to Download* popup, click the date column to browse and view Created, Effective, or Expiration dates of a file.

## 8 Getting Data

Core data is updated every 28 days, on a per-cycle basis. Certain data types, including FAA Sectional, Helicopter and TAC charts, IFR Enroute charts, FAA VFR charts, and Canada charts, are updated on a 56-day cycle.

To ensure you're using the most current data for your mission, it is recommended that Aero App data is kept up to date.

ADS provides several methods to obtain and manage data. Data can be downloaded directly from the cloud through Amazon Web Services (AWS) or imported from an external source. ADS also includes configuration options that enable devices running Aero App to connect to the server such as Aero App Upload, which allows users to upload data from their device to ADS during a specified time window.



**NOTE:** Aero App will receive data for the latest three cycles loaded on ADS but will only have access to the cycles containing Global.

### 8.1 Download Data

Aero App data is stored in the cloud through Amazon Web Services (AWS). To download data from the cloud, users must possess an active Aero User Database (AUD) account or authenticate through GEOAxis.

#### 8.1.1 Download Data Using Aero User Database (AUD) Credentials

This section describes how to download data using an Aero User Database (AUD) account. Before proceeding, ensure your valid AUD credentials are entered and saved in Settings. Refer to [Section 11.2.1](#) for more information.

1. On the **Dashboard** page, locate the Regions to Download and Additional Files sections.
2. In the **Regions to Download** section, select the region(s) you wish to download. Available options include Africa, Alaska, Canada, CONUS, CSA, EEA, ENAME, and PAA.
3. In the **Additional Files to Download** section, select the data file(s) you wish to download. Available options include Aero App Maps, Helicopter and TAC Maps, E-IPL, Map Library, and Other.

The screenshot displays two sections of the settings interface:

- Regions to Download:** A row of eight toggle switches for Africa (on), Alaska (on), Canada (off), CONUS (on), CSA (off), EEA (off), ENAME (off), and PAA (off).
- Additional Files to Download:** A row of five toggle switches for Aero App Maps (on), Helicopter and TAC Maps (off), E-IPL (off), Map Library (on), and Other (off).

- Click **Update** once desired data is selected to start the download.

A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

- To verify the download, click **Data** on the Main Menu. Then, select the tab for each type of data downloaded. The files will appear under their respective tabs.

Filename	Size
2301	2.8 GB
2213	3.0 GB
Africa africa-2022-12-29.zip	63 MB
Alaska alaska-2022-12-29.zip	136 MB
CONUS Part 1 conus_part_1-2022-12-29.zip	853 MB
CONUS Part 2 conus_part_2-2022-12-29.zip	519 MB
FAA Sectionals faa_sectionals-2022-12-29.zip	893 MB
Georeference georeference-2022-12-29.zip	1 MB
Global global-2022-12-29.zip	337 MB
Africa africa_delta-2022-12-29.zip	43 MB

### 8.1.2 Download Data Through GEOAxis

This section describes how to download data from the cloud through GEOAxis. GEOAxis supports two authentication methods: a PKI certificate login and a certificate-linked account login.

- Click **Settings** on the Main Menu.
- Navigate to the **Auto Update** section and click **Log in and Update**. The GEOAxis Enterprise Identity & Access Management page opens.

3. Authenticate using either a **PKI certificate** (refer to [Section 11.2.2.1](#)) or a **certificate-linked account** (refer to [Section 11.2.2.2](#)).

After successful authentication, a confirmation message is displayed, and you are redirected to ADS.

1. On the **Dashboard** page, locate the Regions to Download and Additional Files sections.
2. In the **Regions to Download** section, select the region(s) you wish to download. Available options include Africa, Alaska, Canada, CONUS, CSA, EEA, ENAME, and PAA.
3. In the **Additional Files to Download** section, select the data file(s) you wish to download. Available options include Aero App Maps, Helicopter and TAC Maps, E-IPL, Map Library, and Other.

The screenshot displays two sections of the ADS dashboard. The top section, titled "Regions to Download", contains eight toggle switches for the following regions: Africa (checked), Alaska (checked), Canada (unchecked), CONUS (checked), CSA (unchecked), EEA (unchecked), ENAME (unchecked), and PAA (unchecked). The bottom section, titled "Additional Files to Download", contains five toggle switches for the following file types: Aero App Maps (checked), Helicopter and TAC Maps (unchecked), E-IPL (unchecked), Map Library (checked), and Other (unchecked).

4. Click **Update** once desired data is selected to start the download.

A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

- To verify the download, click **Data** on the Main Menu. Then, select the tab for each type of data downloaded. The files will appear under their respective tabs.

The screenshot shows the ADS Desktop interface for user DESKTOP-654SPG2. The 'Data' tab is selected, displaying a list of map files. The interface includes a navigation bar with 'Update', 'Dashboard', 'Data', 'Settings', 'Logs', 'Help', and 'Logout'. Below the navigation bar are tabs for 'Cycle', 'Aero App Maps', 'Helicopter and TAC Maps', 'Map Library', 'E-IPL', 'Other', and 'User Files'. The main content area is a table with columns for 'Filename' and 'Size'. Each row represents a folder or file, with a folder icon for folders and a file icon for files. Each entry includes a trash icon for deletion.

Filename	Size
2301	2.8 GB
2213	3.0 GB
Africa africa-2022-12-29.zip	63 MB
Alaska alaska-2022-12-29.zip	136 MB
CONUS Part 1 conus_part_1-2022-12-29.zip	853 MB
CONUS Part 2 conus_part_2-2022-12-29.zip	519 MB
FAA Sectionals faa_sectionals-2022-12-29.zip	893 MB
Georeference georeference-2022-12-29.zip	1 MB
Global global-2022-12-29.zip	337 MB
Africa africa_delta-2022-12-29.zip	43 MB

### 8.1.3 Download Map Library

ADS includes a Map Library that allows pilots to download a variety of commonly requested maps. These charts include resources such as NavPlan charts, range charts, Search and Rescue charts, and more.

To access the Map Library, you must be logged in with valid AUD credentials. Before proceeding, ensure your valid AUD credentials are entered and saved in Settings. Refer to [Section 11.2.1](#) for more information.

- Map Library is listed under the *Additional Files to Download* section. Click the **Map Library menu icon** to display the *Select Map Library Files to Download* popup.
- Maps are organized into folders. Click the **folder** to reveal the available subfolder(s). Click on the **subfolder** to reveal the map files the selected folder contains.

- Click on the date column header to view the **Created**, **Effective**, or **Expiration** dates for each file.

### Select Map Library Files to Download

Filename	Effective	Size
Partner Maps		7.1 GB
CADRG European Low Flying Chart		1.9 GB
NGA VFR mm_nga_clfc-2022-07-01.mbtiles	01 Jul 2022	600 MB
NGA VFR mm_nga_clfc-2022-08-01.mbtiles	01 Aug 2022	608 MB
NGA VFR mm_nga_clfc-2022-09-01.mbtiles	01 Sep 2022	728 MB
CADRG European Low Flying Chart Night		429 MB
NGA VFR mm_nga_clfcn-2022-07-01.mbtiles	01 Jul 2022	140 MB



**NOTE:** If the files have expired, the Created time is replaced by “Expired.”

- Select desired map file(s).
- Click **OK** once selection is completed.

Cancel OK

- Click **Update** to start the download.
- To verify the download, click **Data** on the Main Menu, then select the **Map Library** tab. The downloaded charts will be listed.

Filename	Effective	Size
Partner Maps		245 MB
Helicopter		245 MB
VFR Helicopter Charts mm_faa_helicopter_conus_routes-2021-04-22.mbtiles	22 Apr 2021 Expired	82 MB
VFR Helicopter Charts mm_faa_helicopter_conus_routes-2021-05-20.mbtiles		82 MB
FAA Helicopter mm_faa_helicopter_conus_routes-2021-06-17.mbtiles	17 Jun 2022	81 MB

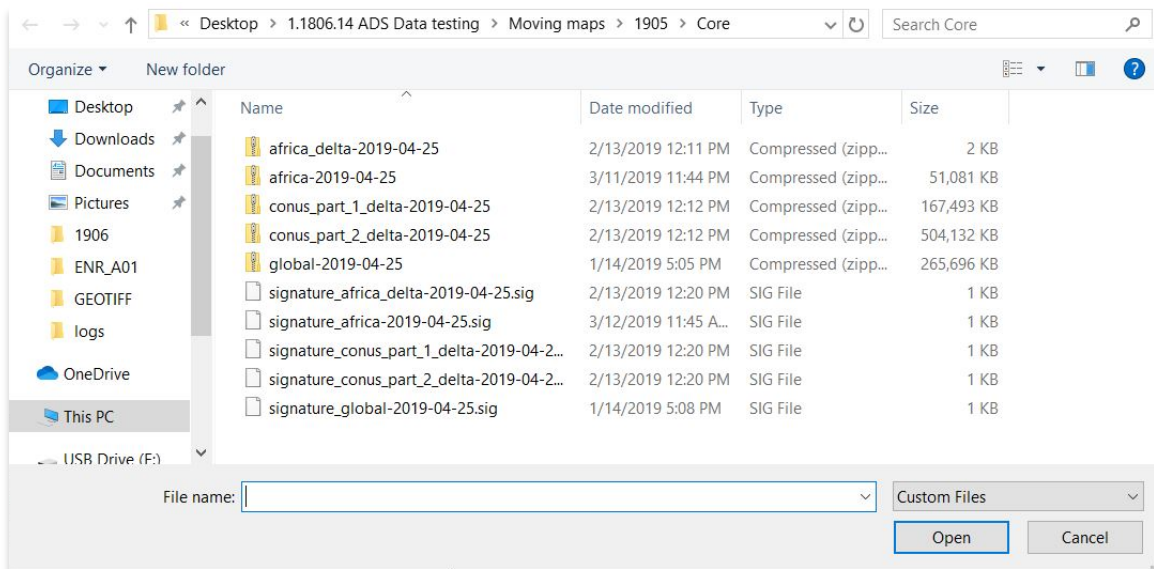
## 8.2 Import Data

Users can import data to ADS. This method does not require login credentials. The Import section provides options for importing Data Files and User Files into ADS. Files can be imported individually or by using the drag-and-drop function, which supports the import of multiple files at the same time.

### 8.2.1 Data Files

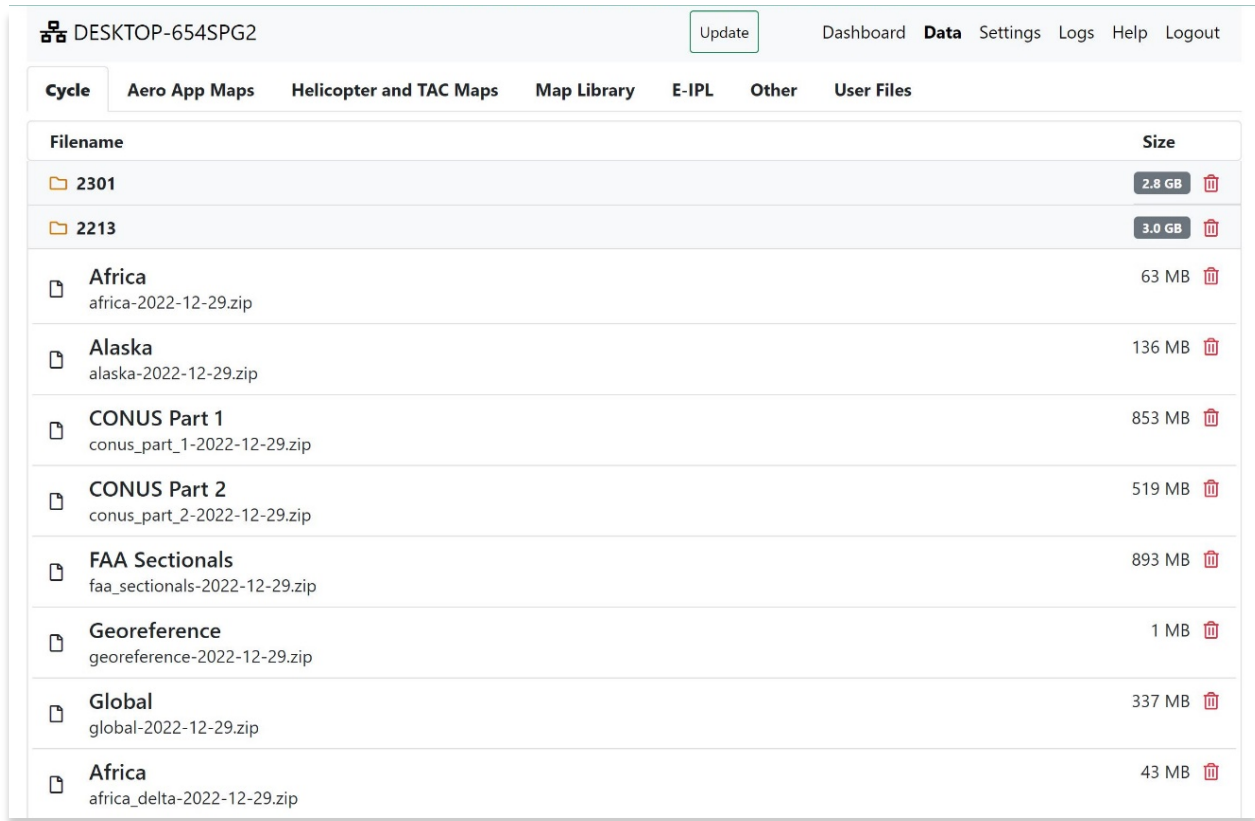
The Data Files option provides a method for importing global, regional, and supplemental data files into ADS. The following data files can be imported: Aero App Maps, Helicopter and TAC Maps, EIPLs, and Other. Files can be imported from a DVD, USB drive, a local workstation, or use the drag-and-drop feature.

1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Import* section then select **Data Files**.
3. Select source (DVD, USB, or computer) containing the data files that you wish to import into ADS.
4. Select desired file(s).
5. Click **Open**.



A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

- To verify if the Data Files have been imported into ADS, click **Data** on the Main Menu.
- Select the **Cycle** tab. The imported cycle data files will be listed below.



The screenshot shows the ADS interface with the 'Cycle' tab selected. The interface includes a top navigation bar with 'Update', 'Dashboard', 'Data', 'Settings', 'Logs', 'Help', and 'Logout'. Below the navigation bar are tabs for 'Cycle', 'Aero App Maps', 'Helicopter and TAC Maps', 'Map Library', 'E-IPL', 'Other', and 'User Files'. The main content area displays a table of imported files with columns for 'Filename' and 'Size'.

Filename	Size
2301	2.8 GB
2213	3.0 GB
Africa africa-2022-12-29.zip	63 MB
Alaska alaska-2022-12-29.zip	136 MB
CONUS Part 1 conus_part_1-2022-12-29.zip	853 MB
CONUS Part 2 conus_part_2-2022-12-29.zip	519 MB
FAA Sectionals faa_sectionals-2022-12-29.zip	893 MB
Georeference georeference-2022-12-29.zip	1 MB
Global global-2022-12-29.zip	337 MB
Africa africa_delta-2022-12-29.zip	43 MB



**NOTE:** To load data files, user must import .zip and .sig files together.

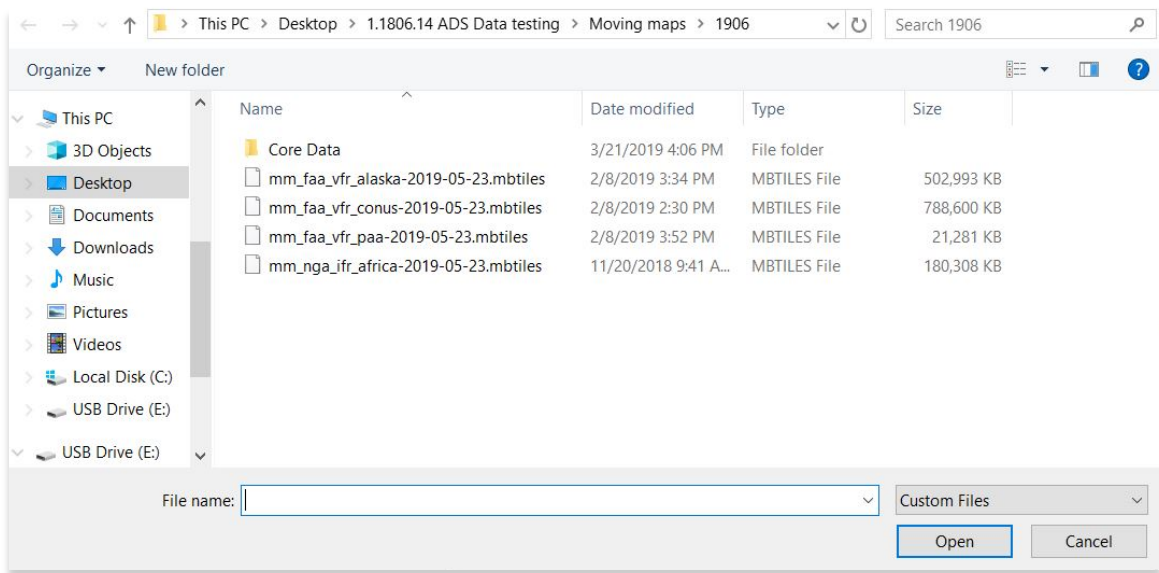


**NOTE:** Alternatively, users can drag and drop data files into ADS.

## 8.2.2 User Files

The User Files option provides a method for importing PDF and MBTiles files into ADS. Files can be selected from the local workstation or imported using the drag-and-drop feature.

1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Import* section then select **User Files**.
3. Select source (DVD, USB, or Computer) containing the user files that you wish to import into ADS.
4. Select desired file(s) (PDF and/or MBTiles).
5. Click **Open**.



A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

6. To verify if User Files have been imported into ADS, click **Data** on the Main Menu.



**NOTE:** In the event of duplicate file names, the most recently added file will be appended with an underscore following the format of <Original File Name>\_<New File Type>).

7. Select the **User Files** tab. The imported user files will be listed below.

Filename	Size
MBTiles	26 MB
AFR A-2 16 JUN 2022.mbtiles	4 MB
africa.mbtiles	5 MB
canada.mbtiles	13 MB



**NOTE:** To view a user-generated PDF file, click on the document icon next to the PDF.



**NOTE:** Alternatively, users can drag and drop user files into ADS.

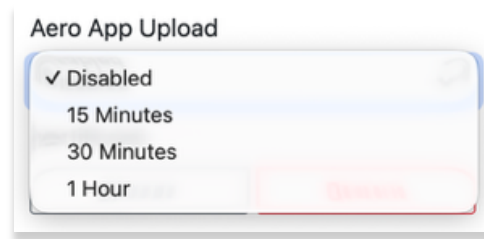
### 8.3 Aero App Upload

The Aero App Upload setting allows users to upload data to ADS. When enabled, a time window of 15 minutes, 30 minutes, or 1 hour can be selected to allow devices to connect to the server and upload data. After the selected time period expires, the server is no longer available in the list of upload destinations.

Before using Aero App Upload, verify that Share with Devices is set to Enabled. If this setting is disabled, the server will not appear in the list of available servers.

Configure Aero App Upload settings:

1. Click **Settings** on the Main Menu.
2. Navigate to the **Server** section.
3. In Share with Devices, ensure **Enabled** is selected.
4. In the Aero App Upload section, open the dropdown and select a time frame: **15 minutes**, **30 minutes**, or **1 hour**.
5. Click **Save**.

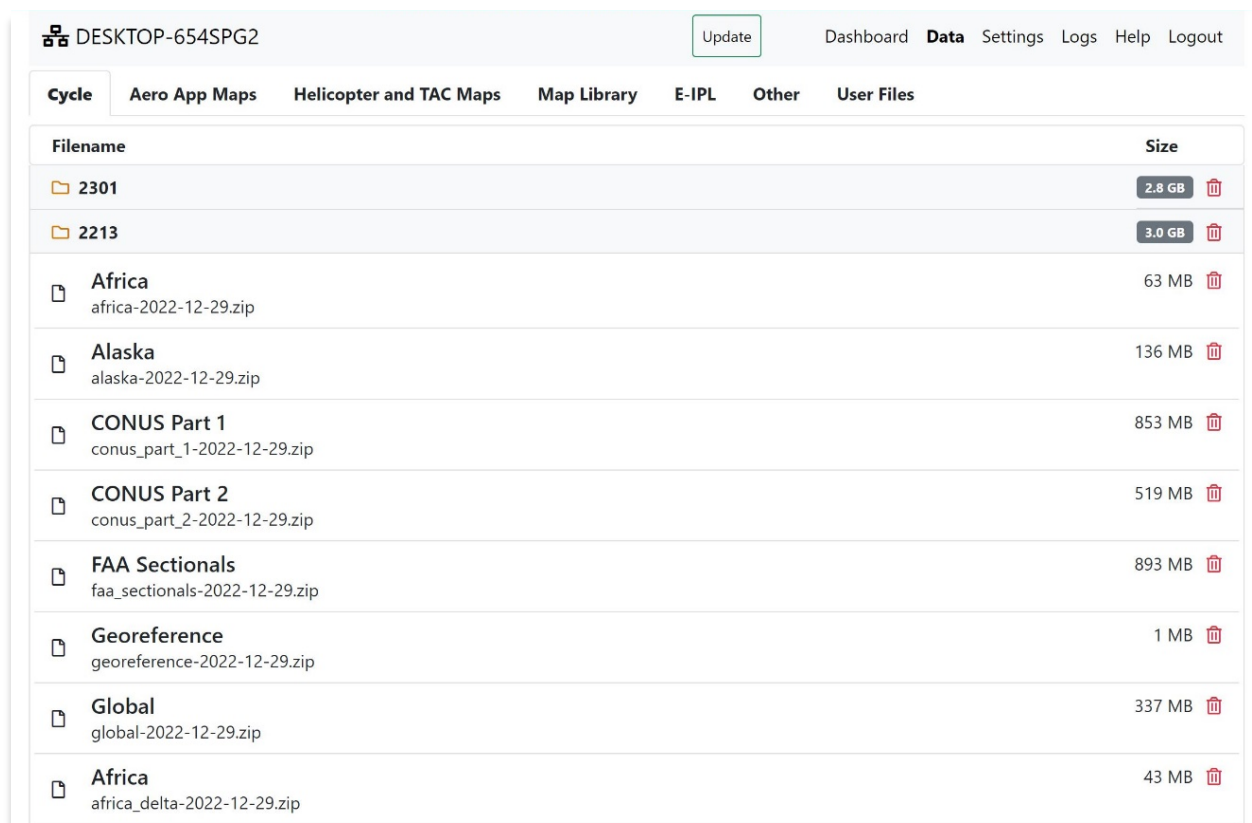


Complete the upload from a device running Aero App:

6. Confirm the device is connected to the same network as the server and contains the data you want to upload.
7. Open the Data Status page and tap **Share**.
8. Select the data you want to upload, then tap **Share** again.
9. Choose **ADS** as the destination.
10. Connect to the **server** to begin the upload.

On ADS, a progress bar will appear at the top of the Dashboard showing the upload status.

11. To verify the upload, click **Data** on the **Main Menu**, then select the tab for the corresponding data type. The uploaded files will appear under their respective tabs.



The screenshot shows the ADS dashboard interface. At the top, there is a header with the user ID 'DESKTOP-654SPG2', an 'Update' button, and navigation links for 'Dashboard', 'Data', 'Settings', 'Logs', 'Help', and 'Logout'. Below the header is a tabbed interface with tabs for 'Cycle', 'Aero App Maps', 'Helicopter and TAC Maps', 'Map Library', 'E-IPL', 'Other', and 'User Files'. The 'User Files' tab is active, displaying a table of uploaded files. The table has two columns: 'Filename' and 'Size'. Each row includes a folder icon for subfolders and a file icon for individual files, along with a trash icon for deletion.

Filename	Size
2301	2.8 GB
2213	3.0 GB
Africa africa-2022-12-29.zip	63 MB
Alaska alaska-2022-12-29.zip	136 MB
CONUS Part 1 conus_part_1-2022-12-29.zip	853 MB
CONUS Part 2 conus_part_2-2022-12-29.zip	519 MB
FAA Sectionals faa_sectionals-2022-12-29.zip	893 MB
Georeference georeference-2022-12-29.zip	1 MB
Global global-2022-12-29.zip	337 MB
Africa africa_delta-2022-12-29.zip	43 MB

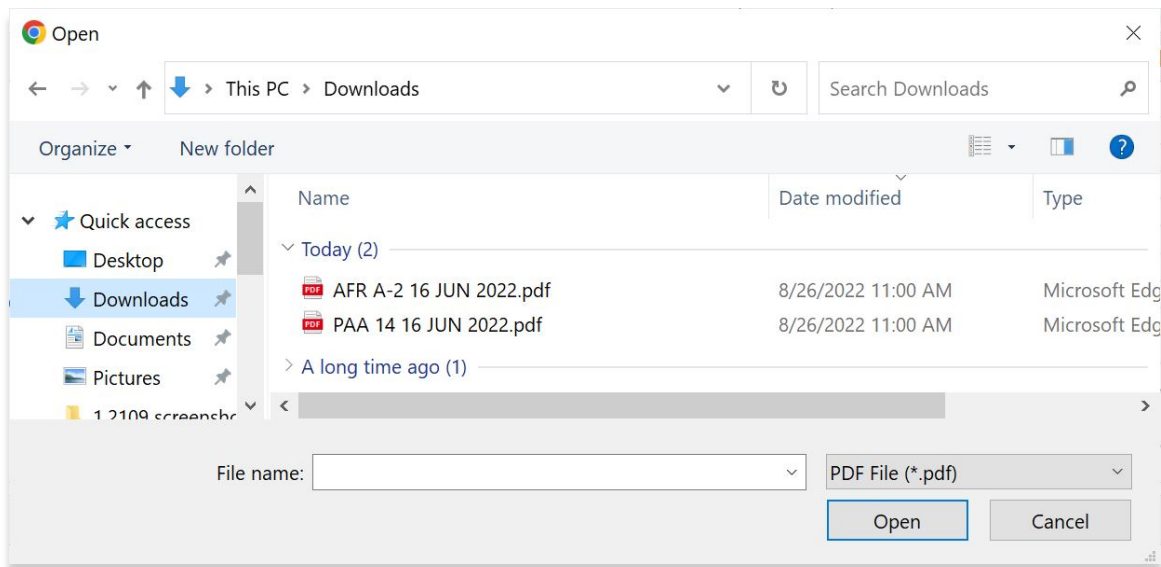
## 9 Convert to MBTiles

The Convert to MBTiles section enables users to convert files such as GeoPDF, GeoTIFF, or launch the Georeference tool on ADS. Users can use the drag and drop feature or click to import desired files. Only one file can be converted at a time.

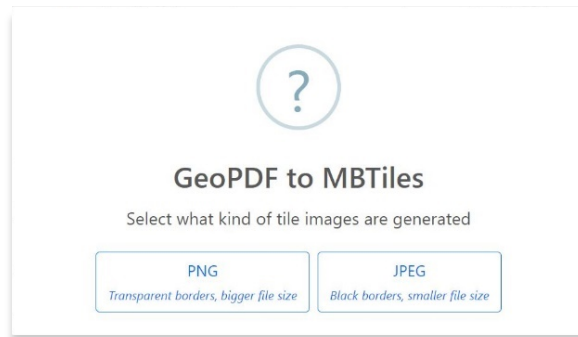
### 9.1 GeoPDF

The GeoPDF option allows users to easily convert GeoPDF files to MBTiles format.

1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Convert to MBTiles* section then select **GeoPDF**.
3. Select source (DVD, USB, or Computer) containing the GeoPDF file that you wish to import into ADS.
4. Select desired file (GeoPDF).
5. Click **Open**.



- On the popup, select PNG or JPEG file images.



A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

- To verify if the imported GeoPDF file has been converted to a MBTiles file format, click **Data** on the Main Menu.



**NOTE:** In the event of duplicate file names, the most recently added file will be appended with an underscore following the format of <Original File Name>\_<New File Type>).

- Select the **User Files** tab. The converted MBTiles file will be listed below.

DESKTOP-654SPG2		Update	Dashboard	Data	Settings	Logs	Help	Logout
Cycle	Aero App Maps	Helicopter and TAC Maps	Map Library	E-IPL	Other	<b>User Files</b>		
Filename								Size
📁 MBTiles								26 MB 🗑️
📄 AFR A-2 16 JUN 2022.mbtiles								4 MB 🗑️
📄 africa.mbtiles								5 MB 🗑️
📄 canada.mbtiles								13 MB 🗑️
📄 digitalglobe_sandiego_mobile.mbtiles								3 MB 🗑️

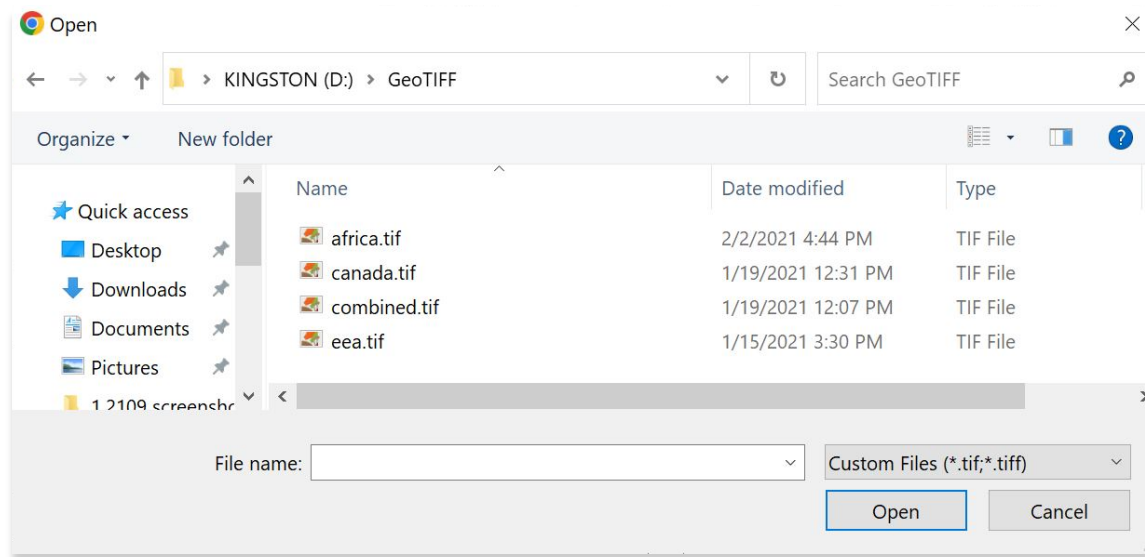


**NOTE:** Alternatively, users can drag and drop GeoPDF files into ADS.

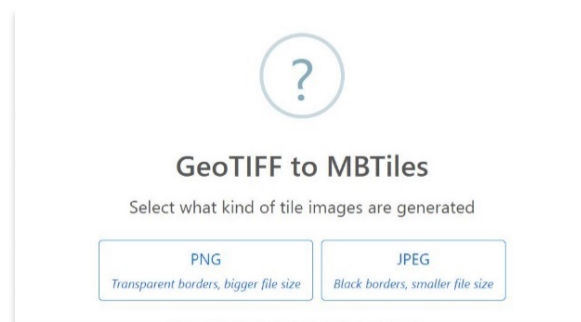
## 9.2 GeoTIFF

The GeoTIFF option allows users to easily convert their GeoTIFF files to MBTiles format.

1. Click **Dashboard** on the Main Menu.
2. Navigate to the *Convert to MBTiles* section then select **GeoTIFF**.
3. Select source (DVD, USB, or Computer) that contains the GeoTIFF files in which you are importing into ADS.
4. Select desired files (GeoTIFF).
5. Click **Open**.



6. On the popup, select PNG or JPEG file images.



A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

- To verify if the imported GeoTIFF file has been converted to a MBTiles file format, click **Data** on the Main Menu.



**NOTE:** In the event of duplicate file names, the most recently added file will be appended with an underscore following the format of <Original File Name>\_<New File Type>).

- Select the **User Files** tab. The converted MBTiles file will be listed below.

Filename	Size
MBTiles	26 MB
AFR A-2 16 JUN 2022.mbtiles	4 MB
africa.mbtiles	5 MB
canada.mbtiles	13 MB



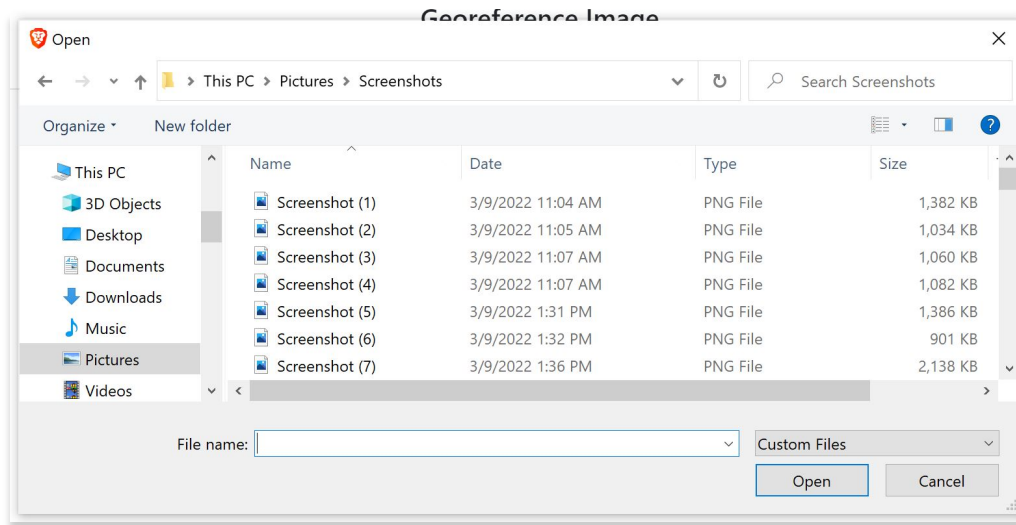
**NOTE:** Alternatively, users can drag and drop GeoTIFF files into ADS.

### 9.3 Georeference Image

The Georeference Image tool enables users to georeference various image formats, such as JPG, PDF, and PNG to ensure your images are accurately positioned on a map. The georeferenced image will be converted to MBTile format.

- Click **Dashboard** on the Main Menu.
- Navigate to the *Convert to MBTiles* section then select **Georeference Image**.
- The Georeference Image popup will display. To select an image, click **Open**.
- Locate source (DVD, USB, or Computer) and select desired image following the formats JPG, PDF, or PNG.

5. Click **Open**.



6. Click a point on the image to designate placement for Point A.



**NOTE:** Clicks outside of the image are not recognized, therefore, the point is not added.




**NOTE:** In an event where neither of the point sections is highlighted, adding a point to the image will default to *Point A*.

7. Enter respective coordinates in the latitude and longitude fields.
8. Click on the second point on the image to designate placement for Point B.

9. Enter respective coordinates in the latitude and longitude fields.

**Georeference Image**  
Select Point A or Point B, click point on the image, and enter coordinates. Image must be North Up.



Point A		Point B	
Latitude	Longitude	Latitude	Longitude
40 28.87	-107 13.06	39 17.30	-103 14.82

Buttons: Open, Convert, Clear, Cancel



**NOTE:** Ensure to use the appropriate format in the latitude and longitude text boxes. Refer to the Contextual Help button in each box for appropriate the formats.

10. Click **Clear** to clear the designated placement for point A and point B.
11. Click **Cancel** to void the action and return to the Dashboard.
12. Click **Convert** to georeference the image.

13. The Georeference popup will dismiss.

A progress bar is displayed at the top of the Dashboard to show the status of the download. The progress bar depicts the action it is performing (e.g., downloading, importing, or converting), file name, and its extension.

14. To verify if the image has been georeferenced, click **Data** on the Main Menu.



**NOTE:** In the event of duplicate file names, the most recently added file will be appended with an underscore following the format of <Original File Name>\_<New File Type>).

15. Select the **User Files** tab. The georeferenced image(s) will be listed below.

Filename	Size
MBTiles	28 MB
AFR A-2 16 JUN 2022.mbtiles	4 MB
africa.mbtiles	5 MB
C-17.mbtiles	2 MB
canada.mbtiles	13 MB
digitalglobe_sandiego_mobile.mbtiles	3 MB



**NOTE:** Alternatively, users can drag and drop JPG, PDF, or PNG files onto the Georeference button on the Dashboard or directly into the Georeference window.

---

## 10 Data

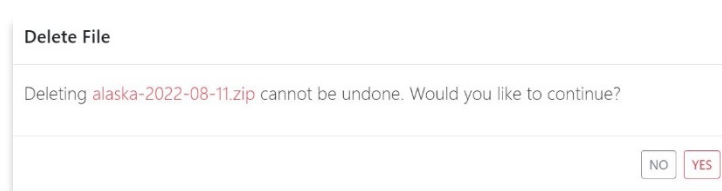
The Data menu serves as the central hub for managing all downloaded, imported, and converted data. Users can navigate through tabs to access individual pages for each data type, which are categorized into distinct types:

- **Cycle** – contains the latest three cycles available on ADS. Users can only access cycles if Global is included.
- **Aero App Maps** – contains IFR and VFR maps for the selected region.
- **Helicopter and TAC Maps** – contains Helicopter and Terminal Area charts.
- **Map Library** – files are stored and placed in folders that can be expanded or collapsed to reveal or hide files, respectively. Users can click on the date column header to browse, and view Created, Effective, or Expiration dates of a file.
- **E-IPL** – contains charts for the selected region.
- **Other** – contains Giant Reports, Earth Base Map, Terrain Coloring, and Terrain Analysis files.
- **User Files** – contains PDF images and MBTiles files. Click the document icon next to the file to view the user-generated PDF files.

### 10.1 Deleting Files

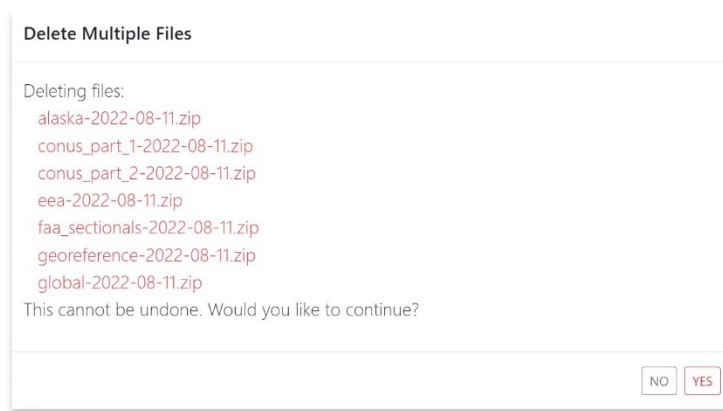
Data files are divided into their respective types. Each data type contains categorized folders that store related files for ease of access. Click on the folder header to show or hide its respective files. Each folder and individual file have a designated delete button. Users have the option to permanently delete files individually or in bulk.

1. Click the **delete** button of the *individual file* that you wish to delete.
2. Click **YES** on the confirmation popup to permanently delete the selected individual file.



Multiple files can be deleted in bulk. The steps in achieving this are as follows:

3. Click the **delete** button of the *folder* that you wish to delete.
4. Click **YES** on the confirmation popup to permanently delete multiple files of the selected folder.



**NOTE:** Users cannot delete multiple Map files at once. Instead, files must be individually deleted unless the user wants to delete the entire region regardless of the cycles loaded.

---

## 11 Settings

The Settings menu provides users with the ability to display options to modify and set various settings. The Settings menu includes the following sections:

- Server
- Auto Update
- Login Credentials
- Internet Connectivity

DYNAMIC CONTENT CLASSIFIED TO: UNCLASSIFIED//FOUO//LIMDIS

Office Server
Update
Dashboard Data **Settings** Logs Help Logout

**Server**

Name:

Share with Devices:

Next Update:

Cycle Options:

HTTPS Only:

Certificate:

Designate this server as containing SECRET material

**Auto Update**

**Aero User Database**
**GEOAxIS**

Username:

Password:

Partner:

Save Credentials:

Auto Purge:

**Login Credentials**

Username:

Password:

Confirm Password:

**Internet Connectivity**

Host or IP address to Ping:

Frequency Check (seconds):

### 11.1 Server

The Server section includes various server setting options including the Name, Next Update, Cycle Options, HTTPS Only and Certificate Upload, Working Mode, Core Data Options, Aero App Upload, and set ADS to SECRET.

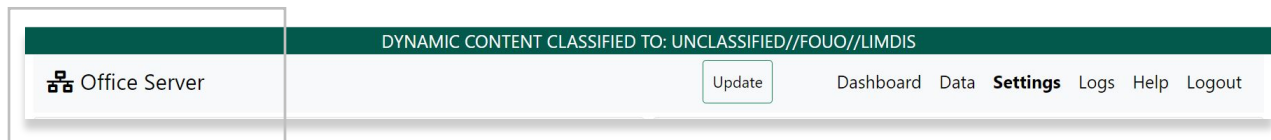
### 11.1.1 Name

The Name field allows users to modify the server's name to a desired name.

1. In the Name field, enter the desired server name.
2. Click **Save** to apply changes.



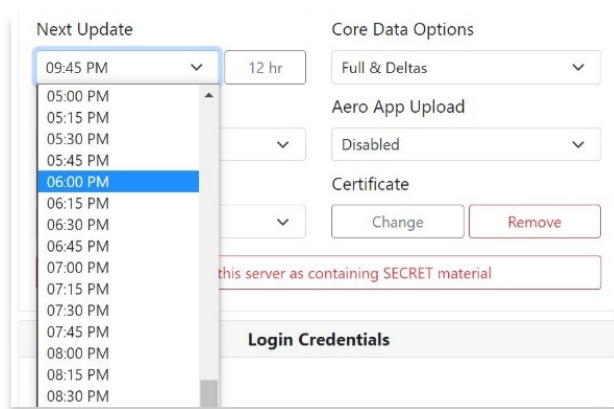
3. To verify if the name has changed, locate the main menu and the new server's name will display on the upper-left side of the screen.



### 11.1.2 Next Update

The Next Update feature allows automatic download of the latest Aero App data at the scheduled time.

1. Navigate to the **Next Update** feature in the **Server** section.
2. By default, the time switch is set to 12-hour. Click the **time switch** again to switch to 24-hour.
3. Click on the **Timer Selector** drop-down to select a time from the list of options, which are in 15-minute intervals.



4. Click **Save** to apply changes.



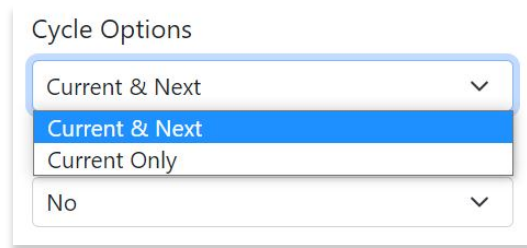
**NOTE:** The time selected for the next update reflects the local time of the server.

---

### 11.1.3 Cycle Options

The Cycle Options feature enables users to select their preferred cycle for downloading. The options include Current & Next or Current Only cycles.

1. Navigate to the **Cycle Options** feature in the **Server** section.
2. Click the drop-down and select **Current & Next** or **Current Only**.
3. Click **Save** to apply changes.



**NOTE:** The Current & Next option is selected by default.

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### 11.1.4 HTTPS Only

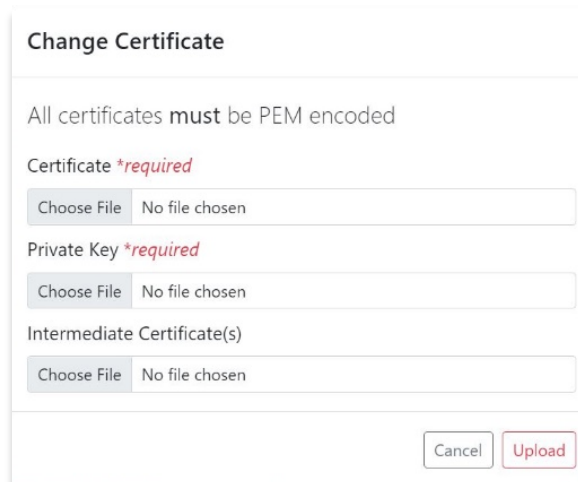
The HTTPS Only feature allows users to store ADS on a secure network. To make ADS secure, users will need to upload a Secure Sockets Layer (SSL) certificate, which a Systems Admin or IT Department can provide. Otherwise, a user would have to obtain a certificate from a Certificate Authority (CA). Below are general guidelines on creating a certificate.

1. Gather information about the website – IP address and domain.
2. Decide which type of SSL certificate to create – there are many types and are categorized based on validation and domains.
3. Choose a CA to issue your certificate – make sure it is reputable.
4. Generate a Certificate Signing Request (CSR) – the process depends on the web server, contact your web host.
5. Submit CSR to selected CA.
6. Obtain SSL certificate from CA.

### 11.1.4.1 Certificate Upload

Users will need to upload the SSL certificate into ADS. Instructions on installing the certificate depends on the device's operating system. When uploading to ADS, users will be prompted to upload a PEM encoded certificate file and a private key file on ADS. Intermediate certificates are optional and based on whether the certificate issuer recommends one.

1. In the Settings tab, select **Yes** from the HTTPS Only drop-down to force https only access. If HTTPS Only is set to No, users will be allowed to use both http and https.
2. Click **Change** under **Certificate**.
3. Choose the **certificate** file.
4. Choose the **private key** file.
5. Choose the **intermediate certificate** file, if necessary.
6. Click **Upload**.



Change Certificate

All certificates must be PEM encoded

Certificate *\*required*

Choose File No file chosen

Private Key *\*required*

Choose File No file chosen

Intermediate Certificate(s)

Choose File No file chosen

Cancel Upload

7. Click **Save** to apply changes.
8. Refresh the page. Log in again, if necessary.



**NOTE:** Each browser handles certificates differently. The browser will let users know when accessing an unsecure ADS either on the address bar or via a privacy page. Similarly, a lock icon will appear on the address bar implying the network is secure after certificates have been uploaded.



**NOTE:** Depending on the certificate type, certificates would need to be installed in devices as needed.

### 11.1.5 Share with Devices

The Share with Devices feature downloads data directly to the user's mobile device on the same network. By switching the mode to disabled, the data files are downloaded to the device and stored in the `C:\ProgramData\ads\data` directory. Pilots can transfer the data files to any device running Aero App.

1. Navigate to the **Share with Devices** feature in the **Server** section.
2. The drop-down includes options to enable or disable the feature. Enabled is selected by default.
3. Click **Save**. Users on the same network can download data on Aero App.

DYNAMIC CONTENT CLASSIFIED TO: UNCLASSIFIED//FOUO//LIMDIS

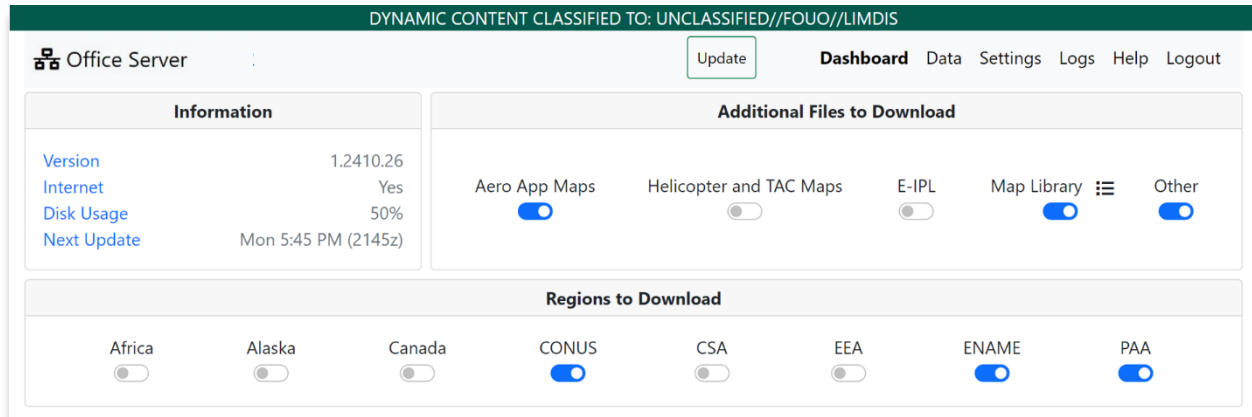
Office Server
Update
Dashboard Data **Settings** Logs Help Logout

Server	Auto Update
<p>Name: Office Server</p> <p>Share with Devices: Enabled</p> <p>Next Update: 03:30 PM (12 hr)</p> <p>Core Data Options: Full &amp; Deltas</p> <p>Cycle Options: Current &amp; Next</p> <p>Aero App Upload: Disabled</p> <p>HTTPS Only: No</p> <p>Certificate: Change Remove</p> <p style="border: 1px solid red; padding: 2px;">Designate this server as containing SECRET material</p>	<p><b>Aero User Database</b> GEOAxIS</p> <p>Username: Username</p> <p>Password: Password</p> <p>Partner: No partner selected Select Partner</p> <p>Save Credentials: Yes Clear</p> <p>Auto Purge: Yes</p>
Login Credentials	Internet Connectivity
<p>Username: admin</p> <p>Password: Password Confirm Password: Confirm Password</p>	<p>Host or IP address to Ping: www.google.com</p> <p>Frequency Check (seconds): 10</p>

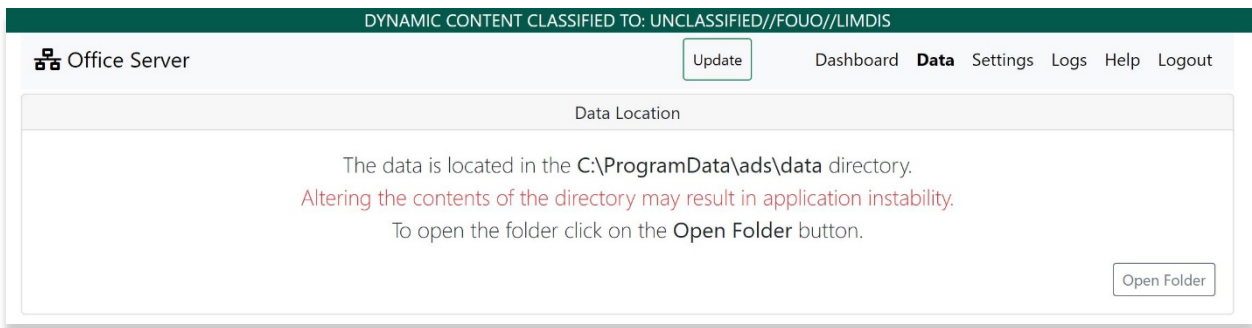
Save

4. Navigate to the **Share with Devices** feature in the **Server** section.
5. Click the drop-down to expand options then select **Disabled**.
6. Click **Save**.
7. Return to the Dashboard.
8. Select desired region(s): **Africa, Alaska, Canada, CONUS, CSA, EEA, ENAME,** and/or **PAA**.

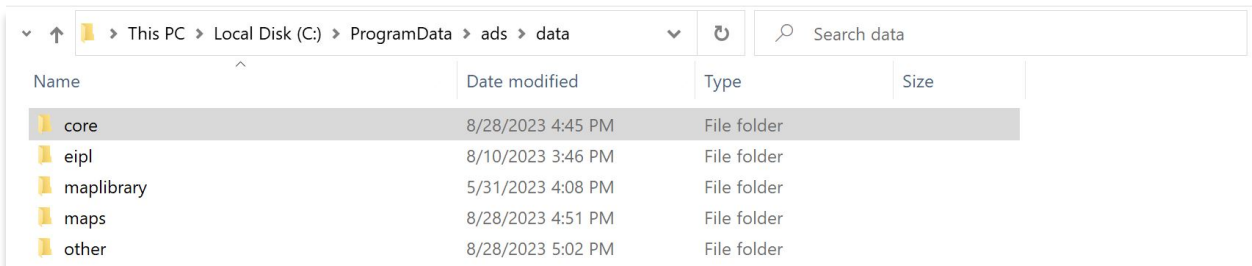
- To include additional files such as **Aero App Maps, Helicopter and TAC Maps, E-IPL, Map Library,** and **Other** data such as **Giant Reports, Earth Base Map, Terrain Coloring, and Terrain Analysis** select the desired options under **Additional Files to Download**.



- Once you have made your selections, click **Update**, and the data files will download onto the `C:\ProgramData\ads\data` directory.
- Once the download is complete, click **Data** on the Main Menu.
- Click **Open Folder**.



- To begin the sideload, navigate to the folder where your files are located. Once located, select the files you want to transfer to your device.

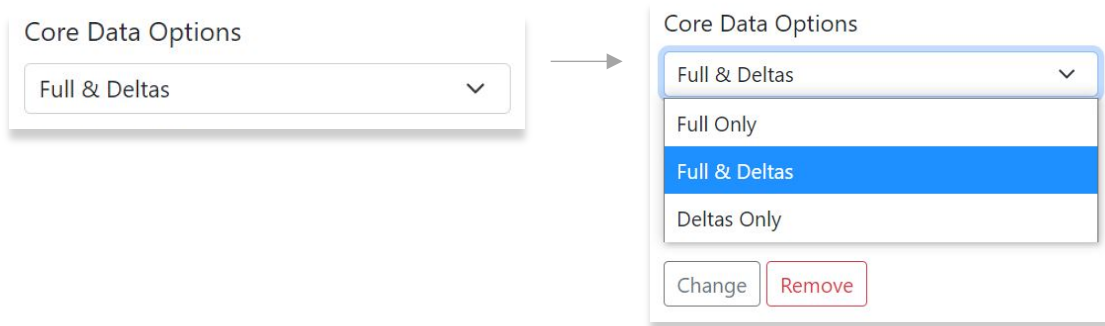


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### 11.1.6 Core Data Options

The Core Data Options feature allows users to select their preferred core data for download. The options include Full Only, Full & Deltas, or Deltas Only.

1. Navigate to the **Core Data Options** feature in the Server section.
2. The Full & Deltas option is the default for Core Data Options. Click the drop-down and select from **Full Only**, **Full & Deltas**, or **Deltas Only**.



3. Click **Save** to apply changes.



**NOTE:** Deltas only consist of Global, Georeference, FAA Sectionals, and all Core Data Delta files.

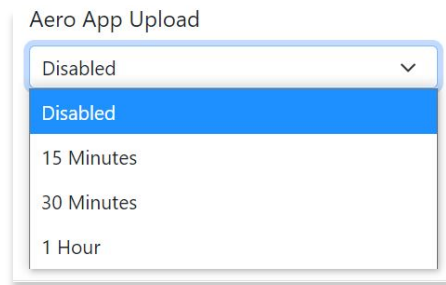
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### 11.1.7 Aero App Upload

The Aero App Upload feature enables users to make the server available for data uploads from Aero App within a given time frame. For instructions on Aero App Upload, refer to [Section 8.3](#).

1. Navigate to the **Aero App Upload** feature in the Server section.
2. Click the drop-down and select a desired window of time. Options include Disabled, 15 minutes, 30 minutes, or 1 hour.



3. Click **Save** to apply changes.



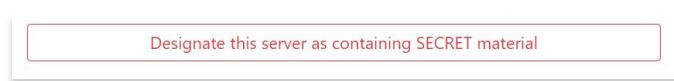
**NOTE:** Preloading data on ADS is not required. However, to access ADS from Aero App, users must have global loaded in Aero App.

---

### 11.1.8 Set ADS to SECRET

Aero Data Server enables users to classify ADS as SECRET. Once the setting is set to SECRET, the action cannot be undone. ADS must be uninstalled and reinstalled to revert to UNCLASSIFIED.

1. Navigate to the **Aero App Upload** feature in the Server section.
2. Click the **Designate this server as containing SECRET material** button.
3. Two warning popups will be displayed confirming the action. The following options are available:
  - **Cancel** – dismisses the action
  - **Update** – confirms the action to switch to SECRET mode



**NOTE:** UNCLASSIFIED is the default setting.

---

## 11.2 Auto Update

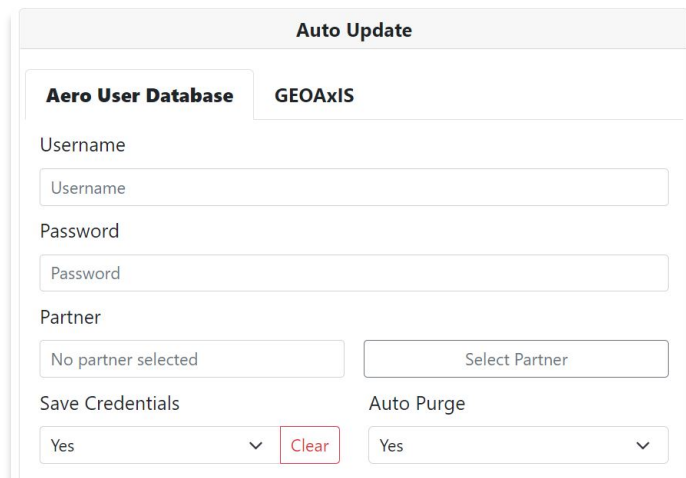
Users can download data directly from the cloud through Amazon Web Services. ADS supports multiple authentication methods. This section describes how to log in using Aero User Database (AUD) credentials and authenticate through GEOAxis.

### 11.2.1 Aero User Database (AUD) Authentication

This section describes how to authenticate Aero User Database (AUD) credentials to access Aero App data ([Section 8.1.1](#)) and download the ADS application file ([Section 5.1](#)).

If you do not yet have an Aero User Database account, you must register on the Aero User Database registration page ([userdb.aeroapp.info/auth/register](https://userdb.aeroapp.info/auth/register)). A valid .mil or .gov email address is required.

1. Click **Settings** on the Main Menu.
2. Navigate to the *Auto Update* section then click the **Aero User Database** tab, if necessary.
3. Log in with Aero User Database credentials.



The screenshot shows the 'Auto Update' settings interface. It features two tabs: 'Aero User Database' (selected) and 'GEOAxis'. The 'Aero User Database' tab contains the following fields and controls:

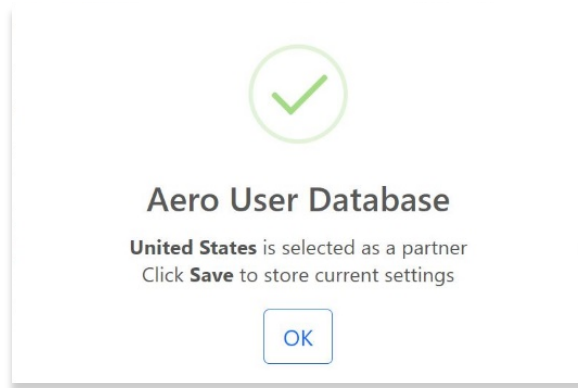
- Username:** A text input field with the placeholder text 'Username'.
- Password:** A text input field with the placeholder text 'Password'.
- Partner:** A dropdown menu currently showing 'No partner selected' and a 'Select Partner' button.
- Save Credentials:** A dropdown menu set to 'Yes' and a 'Clear' button.
- Auto Purge:** A dropdown menu set to 'Yes'.



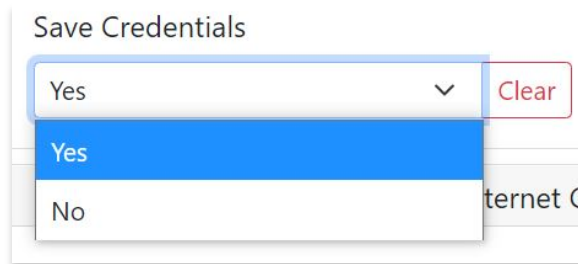
**NOTE:** Previously entered username will be retained for ease of access when relogging into Aero User Database.

4. Navigate to the **Partner** option, then click the **Select Partner** button. The Aero User Database partner selection will pop up.
5. Select a **partner**.

- Once a partner has been selected click **OK**, and an Aero User Database confirmation will display.

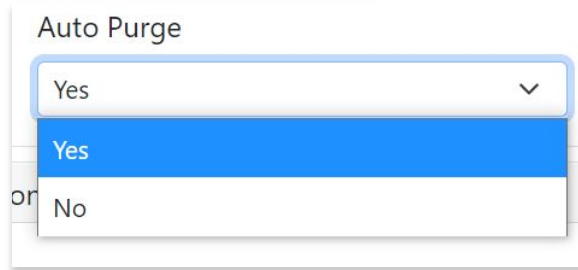


- Click **OK** to close the popup.
- Navigate to the **Save Credentials** option to save AUD credentials for future use.
- Click the drop-down. Yes is selected by default. Choose from **Yes** or **No**.



**Auto Purge** will delete any data that is older than the previous cycle when logged in with AUD credentials. Previous, current, and future cycles will not be purged.

- Navigate to the **Auto Purge** option in the *Auto Update* section.
- Click the drop-down. Yes is selected by default. Choose from **Yes** or **No**.
- Click **Save** to apply changes.



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## 11.2.2 GEOAxis Authentication

This section describes how to authenticate through GEOAxis to access Aero App resources, such as Aero App data and the ADS application file. First-time GEOAxis users must complete the initial account setup on a CAC-enabled desktop computer with a CAC card inserted. Initial registration cannot be completed on a mobile device.

GEOAxis supports two authentication methods: a PKI certificate login and a certificate-linked account login.



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**NOTE:** GEOAxis data download is allowed only by the ADS admin. Users who access an ADS remotely (via IP address) will not be able to download data from GEOAxis.



**NOTE:** Depending on the browser, users will need to allow ADS access to navigate to GEOAxis login page through a set of browser popups prompting the user for permission.



**NOTE:** GEOAxis OAuth is not supported by Safari. It is recommended to use Firefox instead, which supports GEOAxis OAuth for users running ADS on a Mac computer.

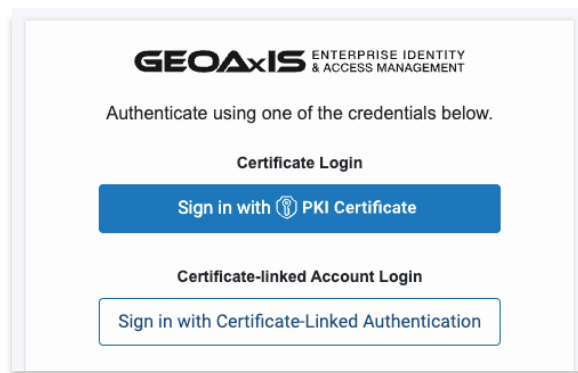
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### 11.2.2.1 Certificate Login

To authenticate using a PKI certificate, ensure that your PKI certificate is installed and available on the workstation. The PKI card reader must be connected, and the PKI card must be inserted before attempting to log in.

Once you've selected GEOAxis to authenticate, you will be taken to the GEOAxis Enterprise Identity & Access Management page.

1. Select **Sign in with PKI Certificate**.



During GEOAxis authentication, your browser will prompt you to select a certificate. Select the **certificate** and enter the associated **PIN** to continue.

After successful authentication, a confirmation message is displayed, and you will be redirected to ADS.

### 11.2.2.2 Certificate-Linked Account Login

Certificate-linked account (CLA) authentication allows users to access GEOAxis using credentials associated with a PKI certificate. Before using this authentication method, a CLA account must be created and linked to the user's certificate. Initial setup requires a CAC or NSS token to complete registration and create the CLA account from the GEOAxis user profile. Once the CLA account has been configured, the associated credentials can be used to authenticate with GEOAxis.

**GEOAxis** ENTERPRISE IDENTITY & ACCESS MANAGEMENT

## Sign in with Certificate-Linked Authentication

**Log in**

Username

Password

Show Password

[Forgot your password?](#)

**Next**

GEOAxis Certificate-linked Authentication (CLA) account serves as a secondary Authentication method (e.g. for access on mobile devices without card readers) associated with your PKI credentials.

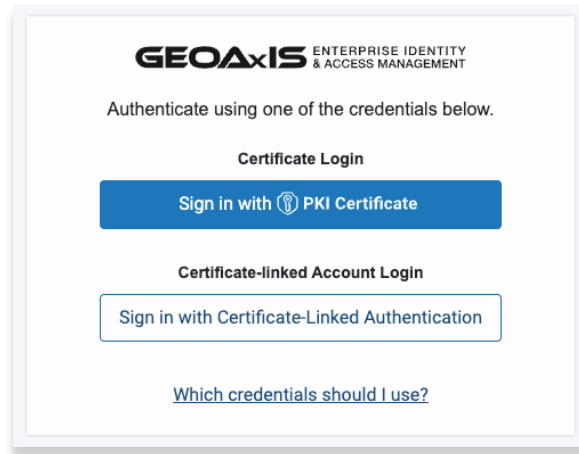
**Create a CLA Account**

1. You must have a CAC/NSS Token to register
2. Go back to the landing page
3. Log into the GEOAxis Portal using your PKI certificate
4. Once authenticated, you may create a CLA account from your user profile

**NOTE:** You may still register for a CLA account if your CAC/NSS Token has been issued but is currently on hold. Use the Certificate-Linked Authentication option with the username/password associated with your SBU/SECNet workstation credentials.

Once you've selected GEOAxis to authenticate, you will be taken to the GEOAxis Enterprise Identity & Access Management page.

1. Select **Sign in with Credential-Linked Authentication**.



2. Enter the username and password then click **Next**.

After successful authentication, a confirmation message is displayed, and you will be redirected to ADS.

## 11.3 Login Credentials

The Login Credentials section enables users to change the default “admin” credentials to their preferred credentials.

1. Click **Settings** on the Main Menu then navigate to the *Login Credentials* section.
2. Locate *Username* and enter your username.
3. Locate *Password* and enter desired password.
4. Confirm password.
5. Click **Save** to apply changes.

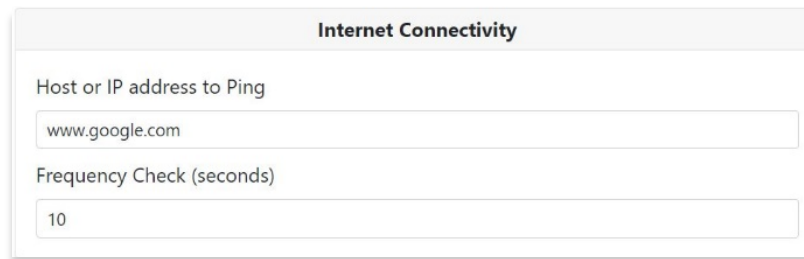
Login Credentials	
Username	<input type="text" value="admin"/>
Password	<input type="password" value="Password"/>
Confirm Password	<input type="password" value="Confirm Password"/>

---

## 11.4 Internet Connectivity

Internet Connectivity displays Frequency Check (in seconds) and Host or IP Address to Ping.

- The default for frequency is set to 10 seconds; this can be changed by typing in the desired frequency.
- The default host is `www.google.com`.
- The frequency check must be between 10 and 600.



The screenshot shows a form titled "Internet Connectivity". It contains two input fields. The first field is labeled "Host or IP address to Ping" and contains the text "www.google.com". The second field is labeled "Frequency Check (seconds)" and contains the number "10".



**NOTE:** Save Settings by clicking the **Save** button located at the bottom-right of the screen.

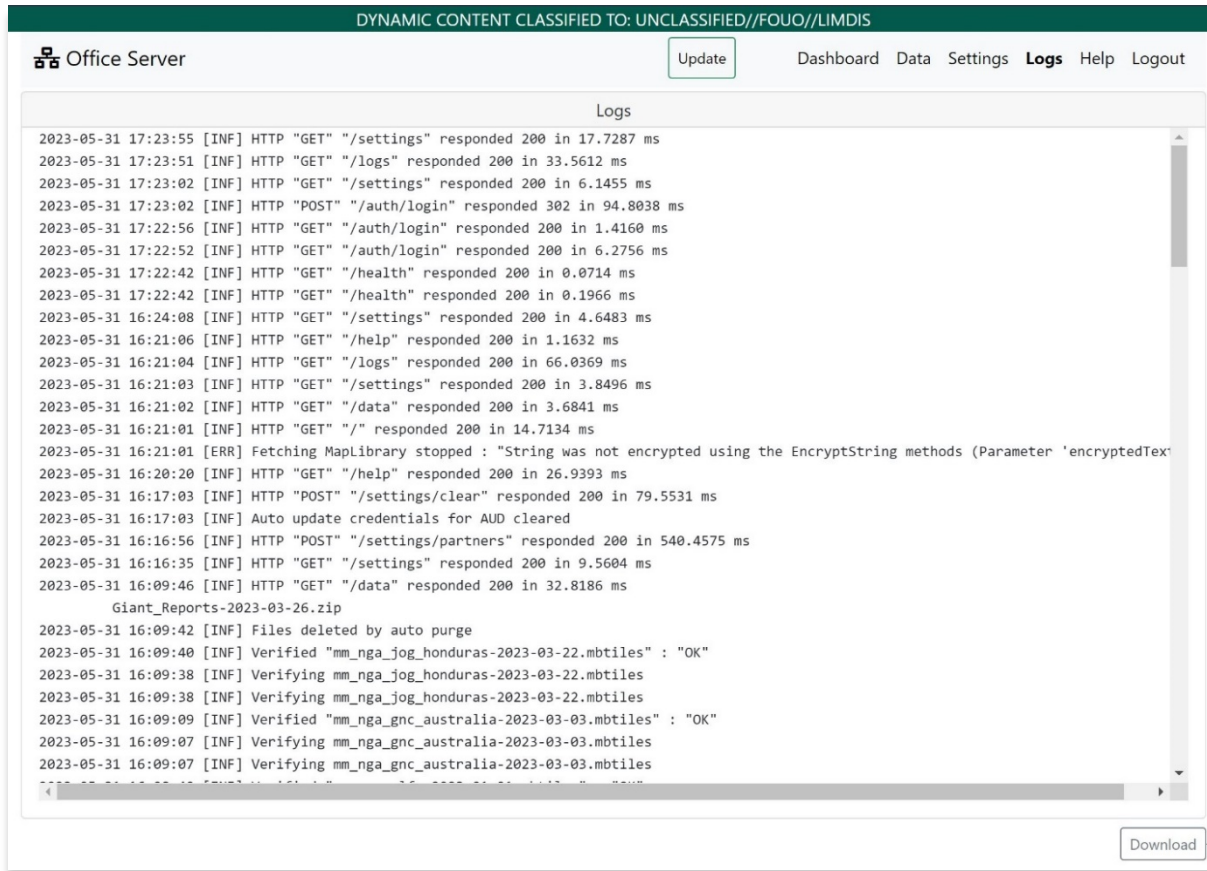
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## 12 Logs

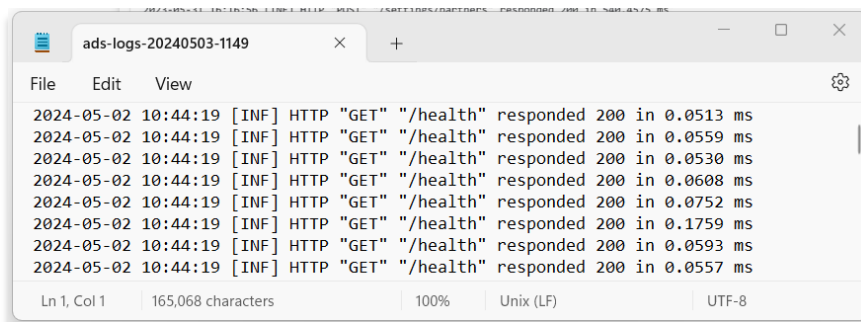
The Logs menu contains detailed information about your server activities. The option to download logs is available.

1. Click **Logs** on the Main Menu.

2. Your ADS log history will display. Click **Download** to view logs on a text document.



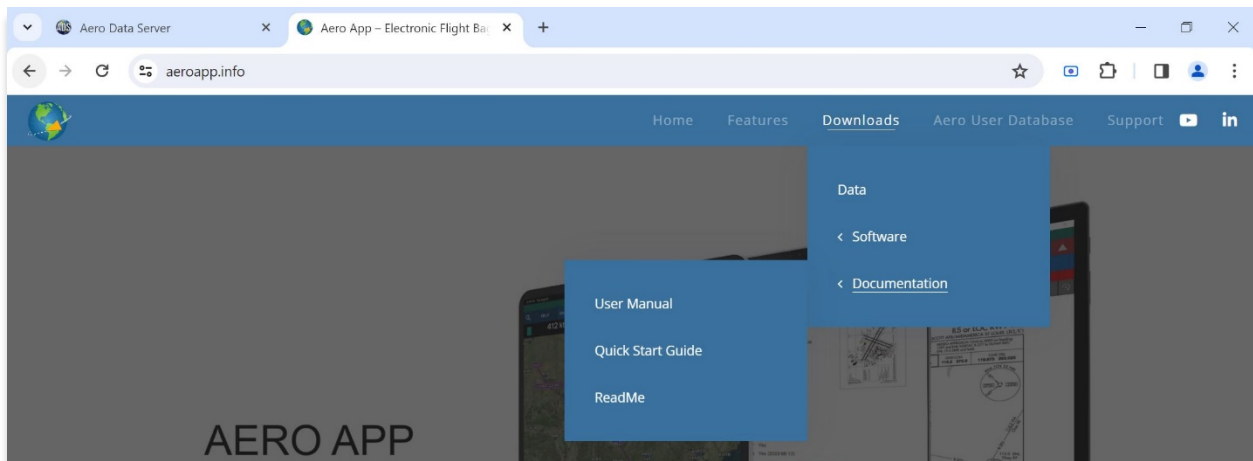
3. Your logs are downloaded and displayed on a text file.



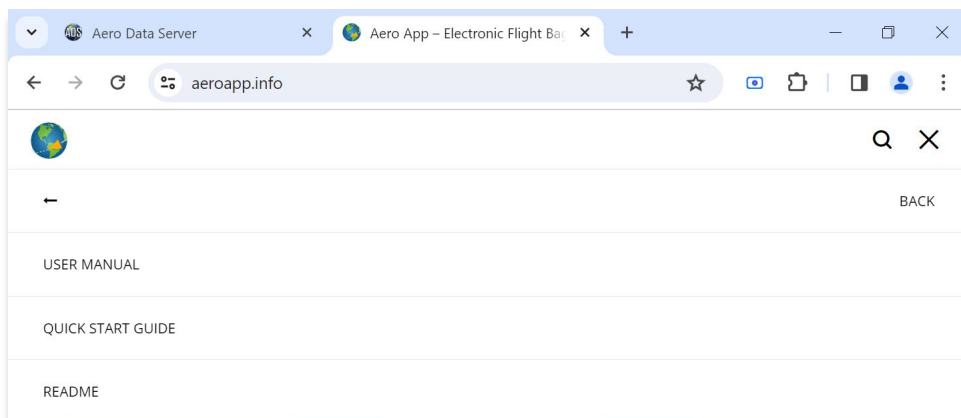
## 13 Help

The Help menu enables users to access ADS for Windows user manual through the Aero App website.

1. Click **Help** on the Main Menu.
2. Click the **aeroapp.info** link and you will be redirected to the Aero App homepage.
3. Hover over Downloads. The option placement will vary depending on display size.
  - On larger screens, hover over **Downloads** from the menu ribbon to reveal additional download options.



- On smaller screens, click the hamburger button and select **DOWNLOADS** to display additional download options.



4. Select **Documentation** then **User Manual**.
5. From the list of platforms, click **Aero Data Server (ADS) for Windows** to reveal related user manuals.
6. Select desired user manual version and you will be redirected to the PDF.



## 14 Logout

The Logout menu enables users to log out from Aero Data Server.

1. Click **Logout** on the Main Menu.
2. Click **Logout** and you will be logged out of Aero Data Server.

## 15 Map Tile Server

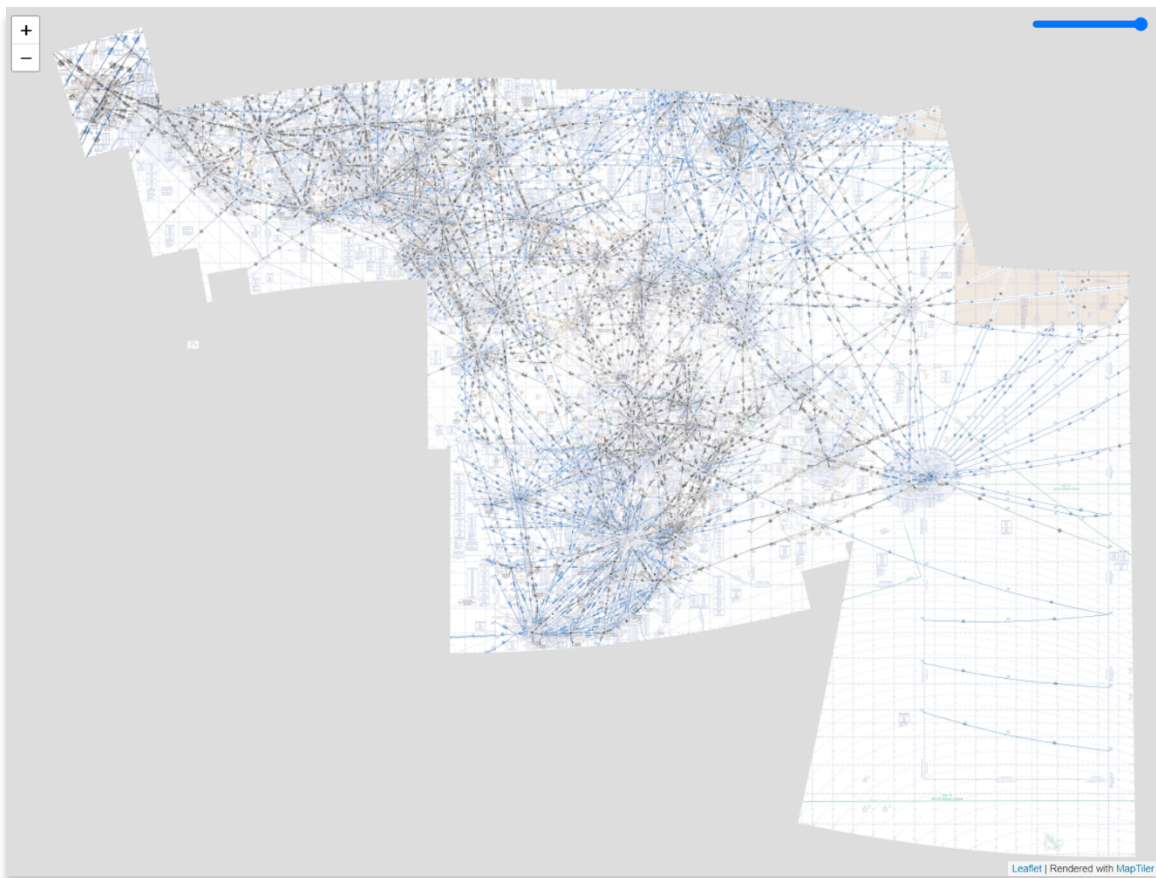
Aero Data Server has a built-in map tile server. Users can request tiles from maps by passing in an IP address, port number, and an ID. To obtain a list of map IDs use the following URL format:

**`http://{ipaddress}:{portnumber}/tiles/v1/tilesets`**

Ensure you use the appropriate *ID* contained in the JSON text. To access the map tile server, use the following URL format:

**`http://{ipaddress}:{portnumber}/tiles/v4/{id}/{z}/{x}/{y}.png`**

Where the IP address and port number are those of the Aero Data Server. The ID is the map type requested.

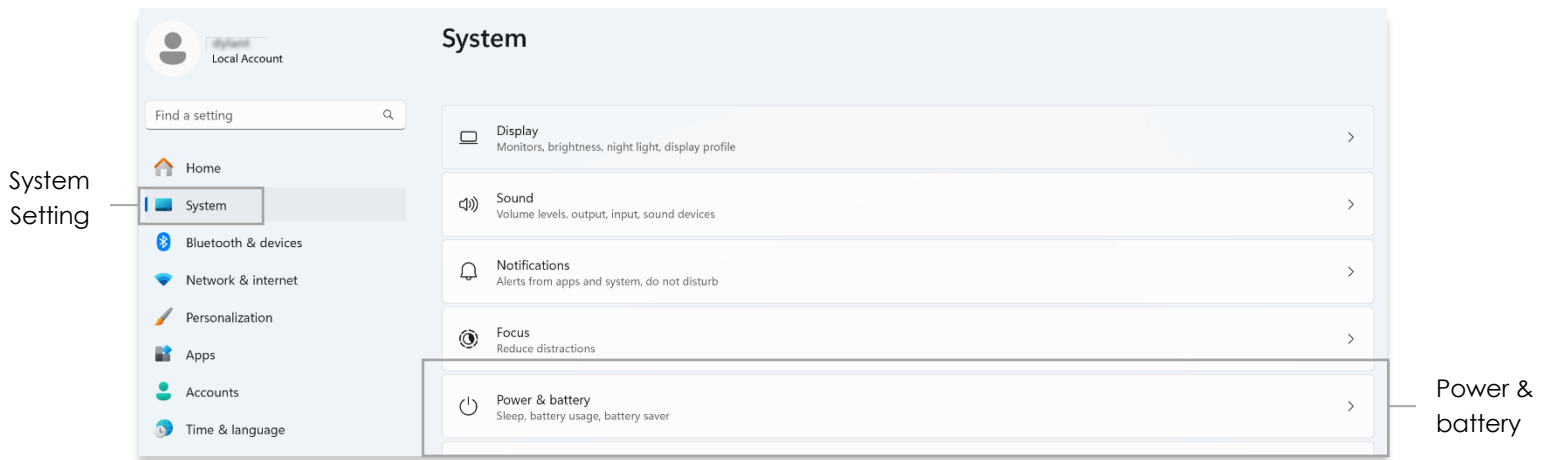


**NOTE:** Some map tiles are very small and often cannot be spotted at first glance; Therefore, users must zoom into the screen to view the image.

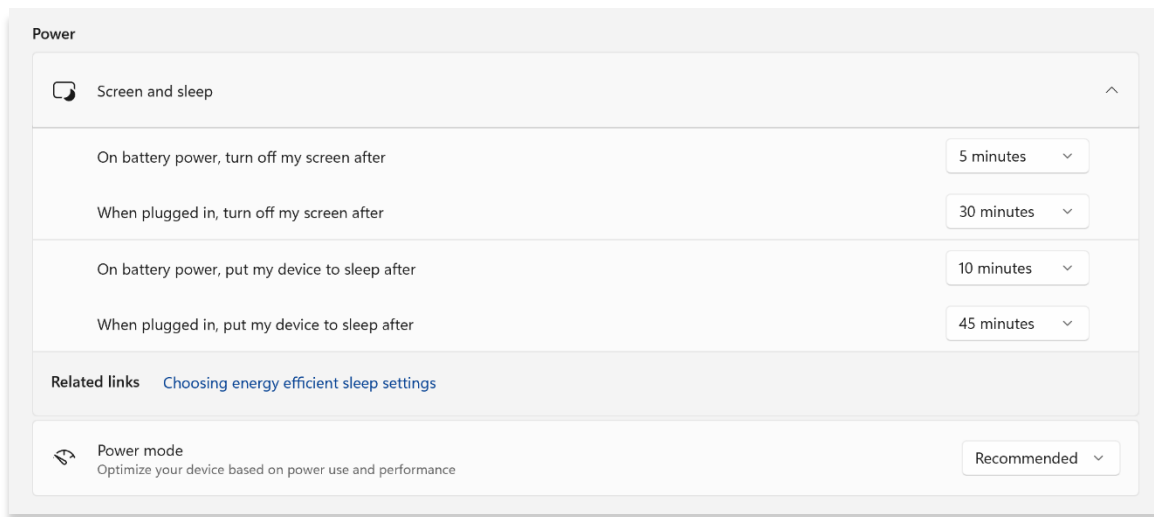
## 16 Appendix A | Prevent the Computer from Sleeping

To ensure optimal performance during the loading process, we advise adjusting your computer settings to prevent it from entering sleep mode. The following instructions apply to computers running Windows.

1. Go to **Settings** on your computer.
2. Select **System** on the left panel.
3. Select **Power & battery**.



4. Navigate to the **Power** section and select the **Screen & sleep** drop-down to expand options.
5. Configure the settings to choose how long you want your device to remain idle before it goes into sleep mode.



## 17 Appendix B | Acronyms and Glossary

ADM	Aero Download Manager
ADS	Aero Data Server
Aero App	Application designed to enhance the use of aeronautical Flight Information Publication (FLIP) data and manage individual FLIP products
AUD	Aero User Database
AWS	Amazon Web Services
CNA	Canada / North Atlantic
CONUS	Contiguous United States
CSA	Caribbean and South America
Data Cycle	The data used by Aero App is refreshed every 28 days. These data refreshes are known as data cycles. Each cycle has effective, and expiration FLIPs dates.
Default	Preexisting value of a user-configurable setting assigned to a software application
DHCP	Dynamic Host Configuration Protocol
DVD	Digital Versatile Disk for digital data storage
EEA	Eastern Europe and Asia
EFB	Electronic Flight Bag
E-IPL	Electronic – Instrument Procedure Library
ENAME	Europe, North Africa, and Middle East
Encryption	Process of encoding a message in such a way that only authorized parties can access it
Ethernet	A system for connecting several computer systems to form a local area network
FLIP	Flight Information Program
FOUO	For Official Use Only
GB	Gigabyte
Gb/s	Gigabyte per second
Gbps	Billions of bits per second and it is a measure of bandwidth on a data transmission median
GEOAxis	Credentials authentication provider for the government
GeoTIFF	GeoTIFF is a public domain metadata standard which allows georeferencing information to be embedded within a Tagged Information File (TIFF).
Giant Report	A vehicle to advise aviators of location issues
Host	A computer or other device connected to a network offering information, services, and other applications to users
IP	Internet Protocol
LAN	Local Area Network

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Mbit/s	Megabits per second
MBTiles	File format for storing map tiles in a single file
OS	Operating System
PAA	Pacific, Australasia, and Antarctica
Ping	Query from a computer or network to determine whether there is a connection to it
Port	Serves as an interface between the computer and other computers or peripheral devices
RAM	Random-Access Memory
SSD	Solid State Drive
SSID	Service Set Identifier
Subnet or Net Mask	A subnet or net mask is a 32-bit mask used to divide an IP address into subnets and specify the network's available hosts. In a net mask, two bits are automatically assigned
TACs	Terminal Area Charts
USB	Universal Serial Bus
Wi-Fi	Technology that allows electronic devices to connect to a wireless LAN
WPA	Wi-Fi Protected Access
WPA2	Security certification developed by Wi-Fi Alliance