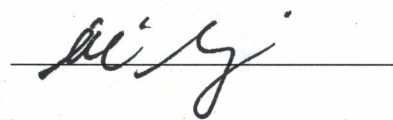


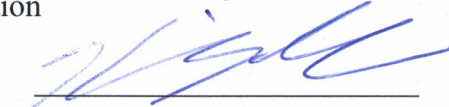
MEMORANDUM

TO: Distribution

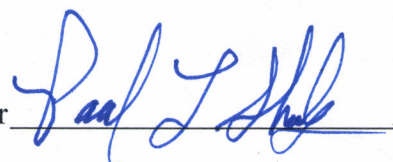
RECOMMENDED BY: Ali Logmanni, Manager
Division of Planning and Engineering
GIS and Engineering Technology Section



REVIEWED BY: Kevin Clarke, Director
Division of Planning and Engineering
Office of Planning



APPROVED BY: Paul L. Shank, PE, C.M., Chief Engineer
Division of Planning and Engineering



DATE: December 19, 2018

SUBJECT: Design Standards Supplement
DST-18-005, AIRPortal ADM Standards for the Office of Planning
Consultants

Effective immediately, the following modification shall be made to the MAA 2018 Design Standards Manual:

Volume 1: Chapter 5, AIRPortal

- Insert New **Section 5.6**, ADM Standards for the Office of Planning Consultants

The Office of Planning consultants are required to submit all FINAL documents to MDOT MAA via the AIRPortal Document Manager (ADM) application for archiving and retrieval by AIRPortal users. Documents must be submitted to ADM as soon as the final version of the document is published. Documents must be submitted in PDF format. Consultants may also submit files in other file formats in addition to PDF. All fee proposals submitted to the Office of Planning must include a statement that the consultant will comply with this requirement.

Consultants listed herein are required to distribute this design standard to their respective staff and subconsultants.

If you believe the attached design standards conflict with any other codes or regulations, or if you should have any questions regarding this matter, please contact the Director, Office of Planning at (410)859-7787.

Distribution:

Mr. Allan A'Hara (AECOM)	Mr. William Lebergen (HNTB)
Mr. Shawn Ames (MAA)	Mr. Ali Logmanni (MAA)
Mr. Royce Bassarab (HNTB)	Mr. Dave Lookenbill (JMT)
Mr. Charlie Baublitz (MAA)	Ms. Niki Miller (JMT)
Mr. Sagar Bethu (AECOM)	Ms. Sarah Munroe (Baker)
Ms. Robin Bowie (MAA)	Ms. Alexa Murray (Brudis)
Mr. Austin Brown (ADCI)	Mr. Alex Ollerman (MAA)
Mr. Mark Butterfield (JMT)	Mr. David Orellana (Mimar)
Mr. Ned Carey (MAA)	Mr. Alan Peljovich (ADCI)
Mr. Peter Charles (MAA)	Mr. Wayne Pennell (MAA)
Mr. Kevin Clarke (MAA)	Mr. Pete Petersen (MAA)
Mr. Woody Cullum (MAA)	Mr. Al Pollard (MAA)
Mr. Jonathan Dandois (JMT)	Mr. Brian Reidy (MAA)
Ms. Linda Dangerfield (MAA)	Ms. Keiva Rodrigues (Hill)
Mr. Randy Dickinson (MAA)	Ms. Mary Scheuermann (WSP)
Mr. Sean Eames (MAA)	Ms. Jo Schneider (MAA)
Ms. Donna Flaherty (JMT)	Mr. Adam Scholten (HMMH)
Mr. Vince Ford (ADCI)	Mr. Paul Shank (MAA)
Mr. Will Garmer (JMT)	Mr. Syed Shariq (MAA)
Ms. Monica Geygan (Landrum-Brown)	Ms. Eileen Sien (ADCI)
Ms. Rhea Gundry (HMMH)	Mr. Greg Solek (MAA)
Mr. Scott Harris (JMT)	Ms. Julie Spangler (JMT)
Mr. Alan Hass (Landrum - Brown)	Mr. Charles Steen (MAA)
Mr. Thomas Hayden (MAA)	Mr. George Steinrock (JMT)
Mr. Neal Heaton (MAA)	Ms. Peggy Summers (Mimar)
Mr. Robert Henry (ADCI)	Mr. John Stewart (MAA)
Mr. Alex Houseal (TranSystems)	Ms. Madhuri Subramaniam (Baker)
Ms. Tracy Hollida (Baker)	Ms. Darline Terrell-Tyson (MAA)
Ms. Kim Hughes (HNTB)	Mr. Jeff Tyley (Parsons)
Mr. John Hurt (MAA)	Ms. Christine Varney (ADCI)
Mr. Cedric Johnson (MAA)	Mr. Tom Varughese (MAA)
Mr. Cedric Johnson (ADCI)	Mr. Jim Walsh (MAA)
Mr. John Knowlton (AECOM)	Mr. Scott Wardle (Baker)
Mr. Ken Krach (URS)	Ms. Debra Watkins (JMT)
Mr. Matt Lee (Landrum-Brown)	Mr. Mark Williams (MAA)

5.6 ADM Standards for Office of Planning Consultants

5.6.1 Introduction

The Maryland Department of Transportation Maryland Aviation Administration (MDOT MAA) Office of Planning requires consultants to submit final project documents to MDOT MAA via the AIRPortal Document Manager (ADM) application.

ADM is a light weight, downloadable, Windows-based desktop application that allows consultants to directly submit electronic deliverables to MDOT MAA for archiving in AIRPortal prior to the closeout of a project. The purpose of ADM is to streamline the archiving process and to ensure those documents meet archiving standards.

Final documents must be uploaded in PDF format. Consultants may submit files in other file formats in addition to PDF. Once planning files have been submitted and approved by the MDOT MAA archivist, they are stored in a database and are accessible by reference in one or more Planning libraries found in AIRPortal. A file is assigned a database reference for a library based on its attributes (i.e. library, category, and/or topic). Below is a chart of those attributes.

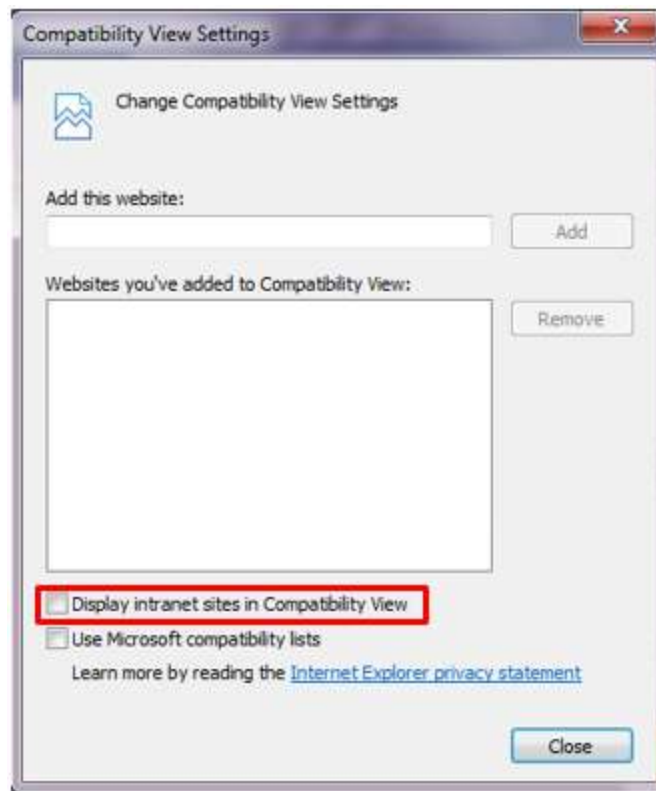
Office	Library Name in AIRPortal	Category	Topic
Planning	Planning Documents	Various	Various
	Airport Layout Plans	Airport Layout Plans	Airport Layout Plans
	Airport Master Plans	Master Plan	Various
	Real Estate	Real Estate	Various

5.6.2 System Requirements

To use ADM on a Windows PC, users must have at least the following:

- Windows 7 SP1 or higher
- .NET Framework 4.5 (Install will download it from Microsoft if target PC does not already have it installed)
- 1 GHz processor
- 1 GB RAM
- 100 MB of disk space
- Internet connectivity

For users of Internet Explorer, ensure that compatibility mode is turned off. To do this, go to Tools > Compatibility View Settings. Uncheck the box next to Display intranet sites in Compatibility View.



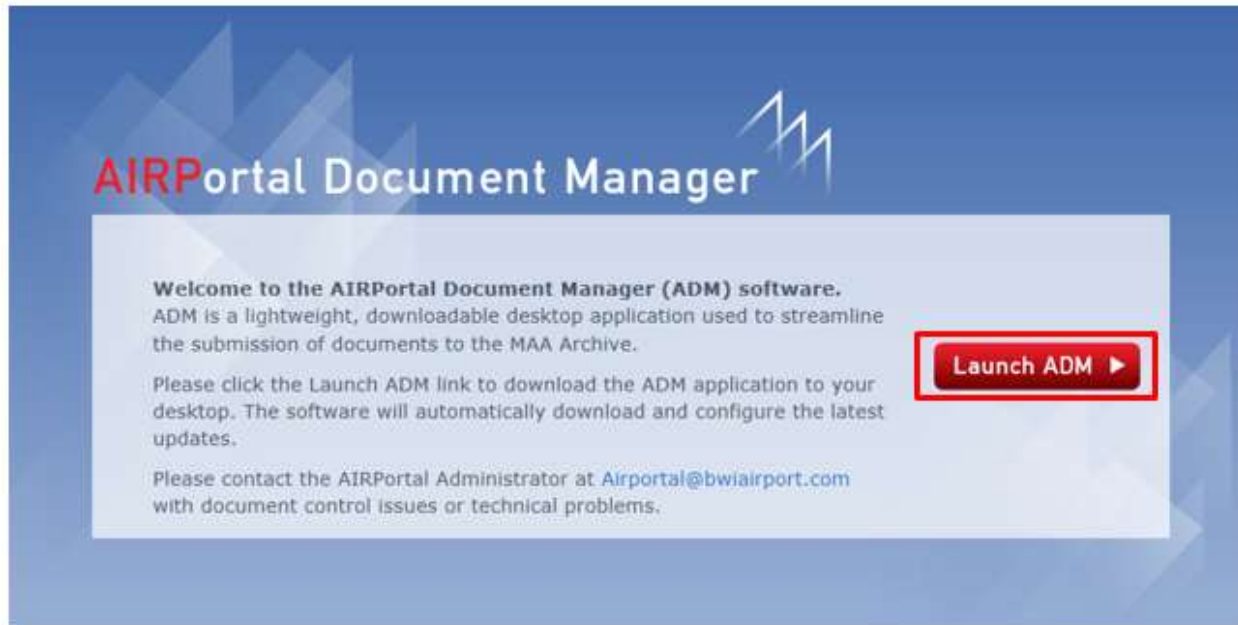
5.6.3 Accessing AIRPortal Document Manager

ADM software is available at the following AIRPortal location: AIRPortal>AIRPortal Document Manager (ADM). An AIRPortal login is required to access the ADM software. Additional permissions are required to use the software. To request permission to use ADM, the consultant project manager should contact the AIRPortal Administrator (airportal@bwiairport.com).



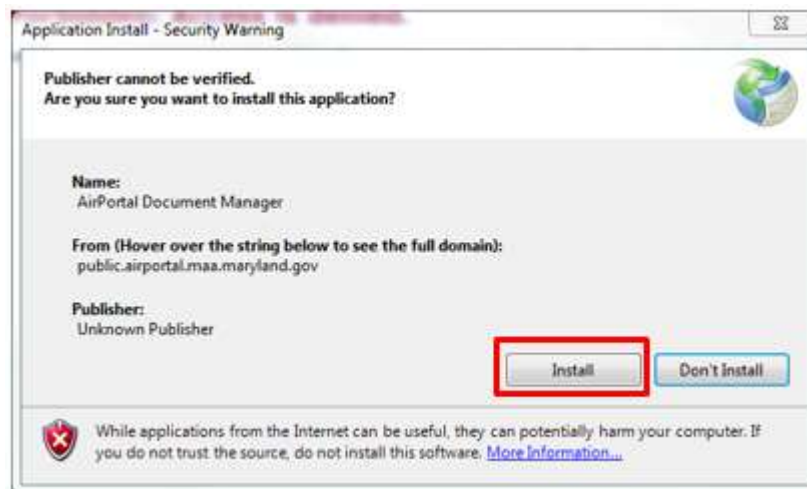
5.6.3.1 Downloading AIRPortal Document Manager

When you click on the ADM module, you will be redirected to the download site. When you click the Launch ADM link, the software will download and install on the target PC. If the target PC does not have .NET framework 4.5, the framework will download with the ADM software.

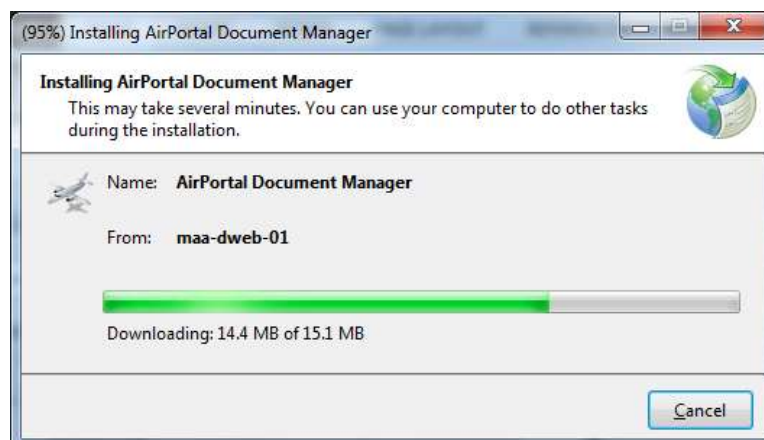


5.6.3.2 Installing AIRPortal Document Manager

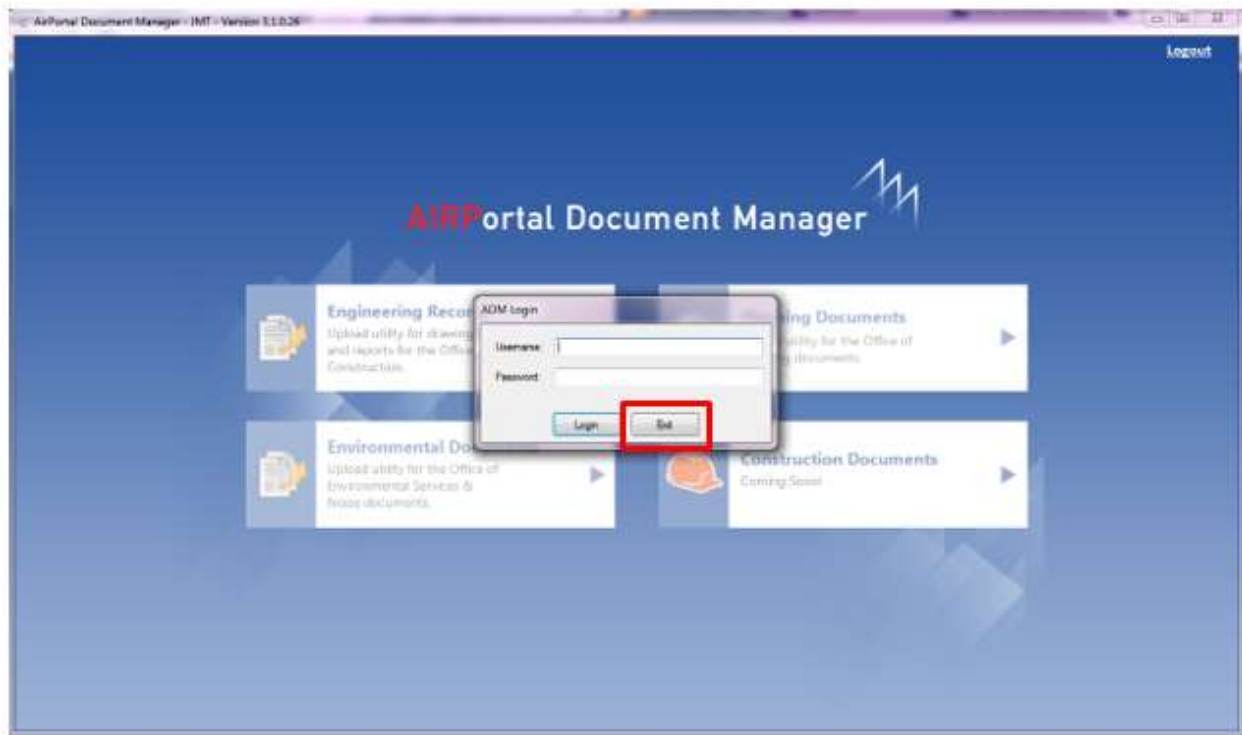
Once you have downloaded the AIRPortal Document Manager, click Install and follow the installation steps.



After you have clicked the Install button you will see the application being installed.

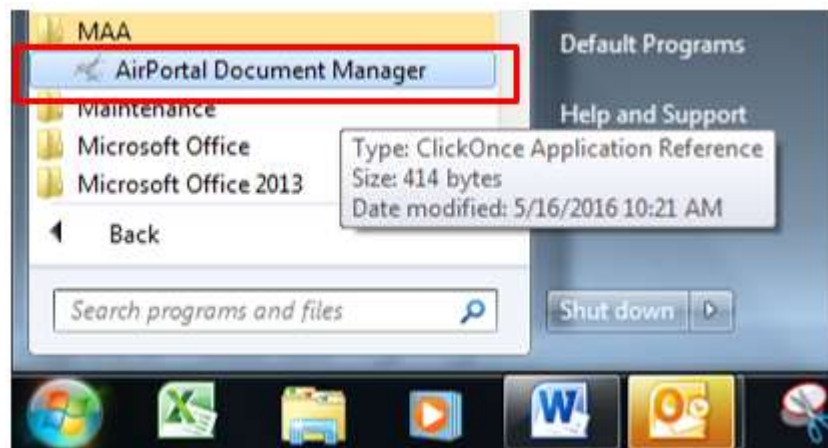


When the installation is complete, the AIRPortal Document Manager application will open. To close this window, click the Exit button at the bottom of the Login window.

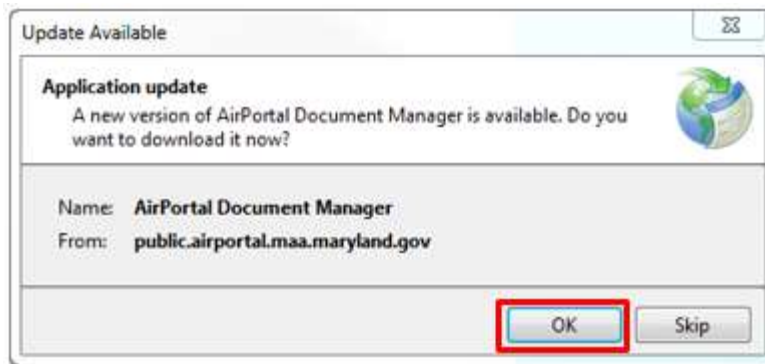


5.6.3.3 Opening AIRPortal Document Manager

Once ADM is installed, the application will be available through Start Button > All Programs > MAA > AIRPortal Document Manager.

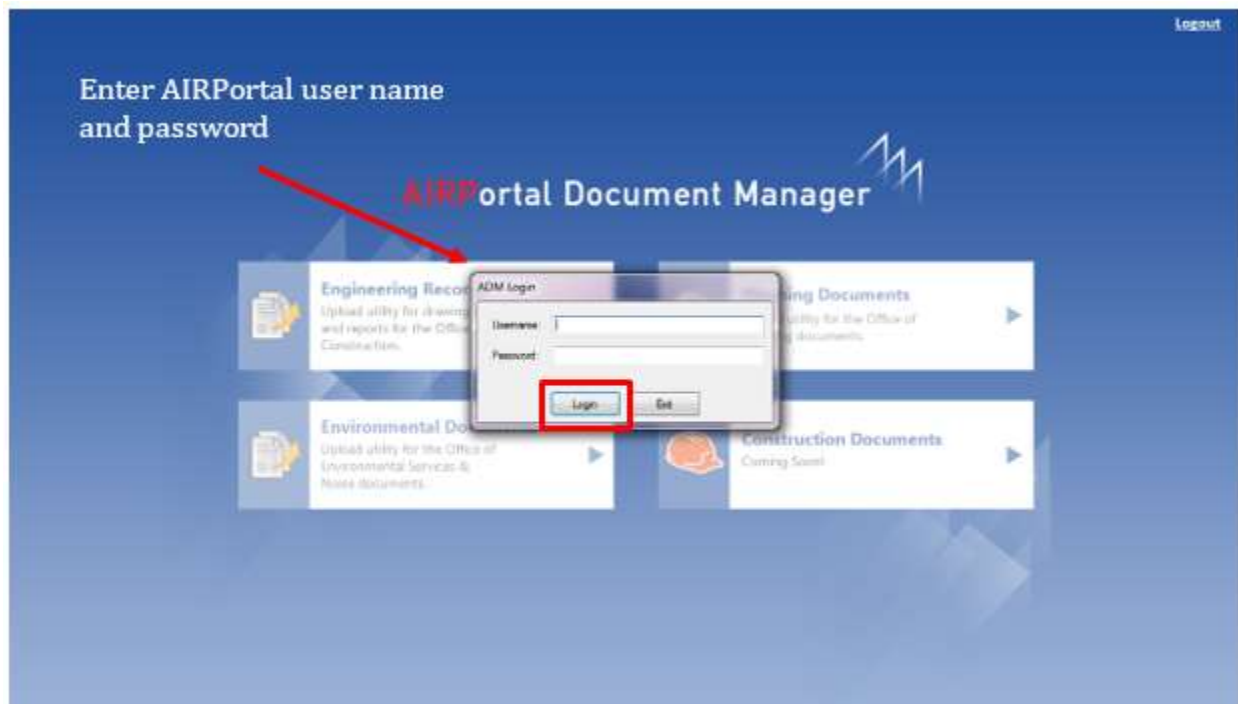


The application will automatically check for updates each time it is launched. Users are encouraged to install any updates to the software as they are available to ensure maximum functionality. To accept the application update, click OK.

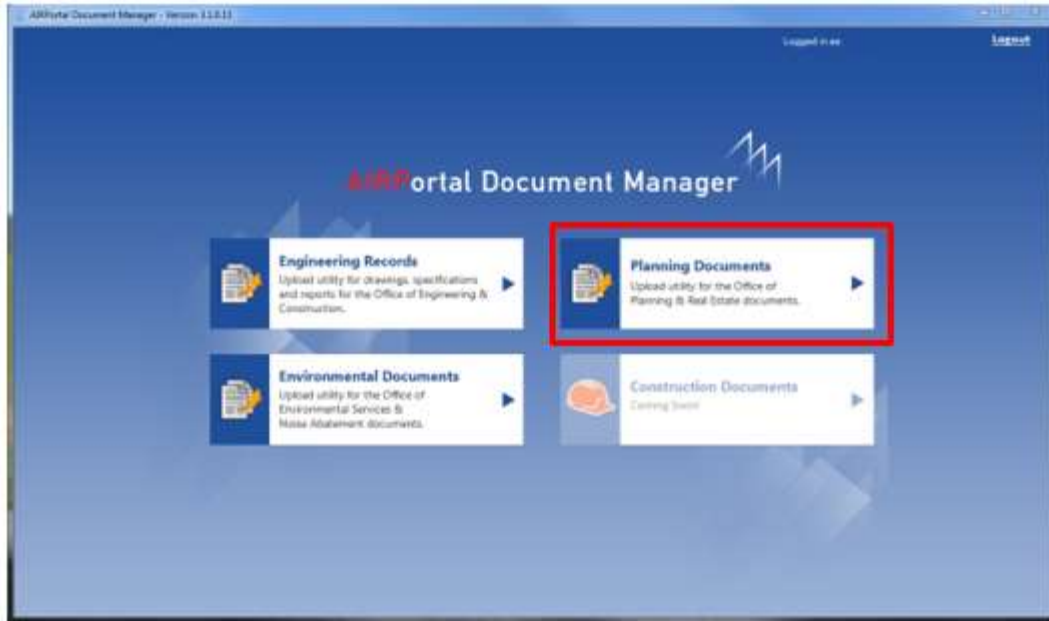


5.6.3.4 Logging Into AIRPortal Document Manager

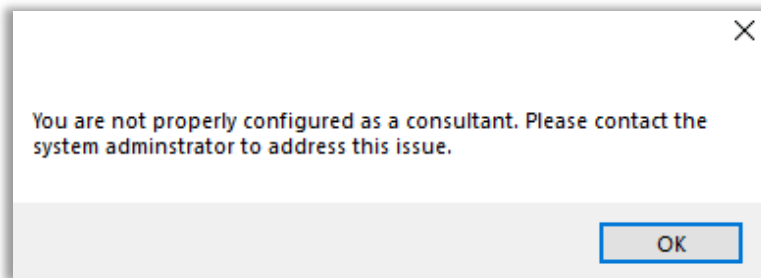
To log in to the AIRPortal Document Manager (ADM), enter your AIRPortal Username and Password in the ADM Login window. Click Login.



Once logged in, the user will come to a landing page where they can choose between Engineering Records, Planning Documents, and Environmental Documents. Permission to access these upload tools is dependent on the consultant. If a consultant does not have permissions to upload planning documents, the Planning Documents button will be grayed out. Click on the Planning Documents button.



If a planning consultant receives the error message below after clicking on the Planning Documents button, they should send an email to Airportal@bwairport.com.



5.6.4 Planning File Guidelines

5.6.4.1 File Contents

Planning files submitted to MDOT MAA via ADM are the final version of a file that has been reviewed and approved by the MDOT MAA Office of Planning. Before uploading a planning file in ADM, please make sure to check for the following:

- It is the final version of the file
- The first page of the file contains the title and publication date of the document (where applicable)
- No pages are missing
- No pages are duplicated
- If the file has been scanned, the scan is good enough quality for a user to be able to read it on screen and read a printed copy

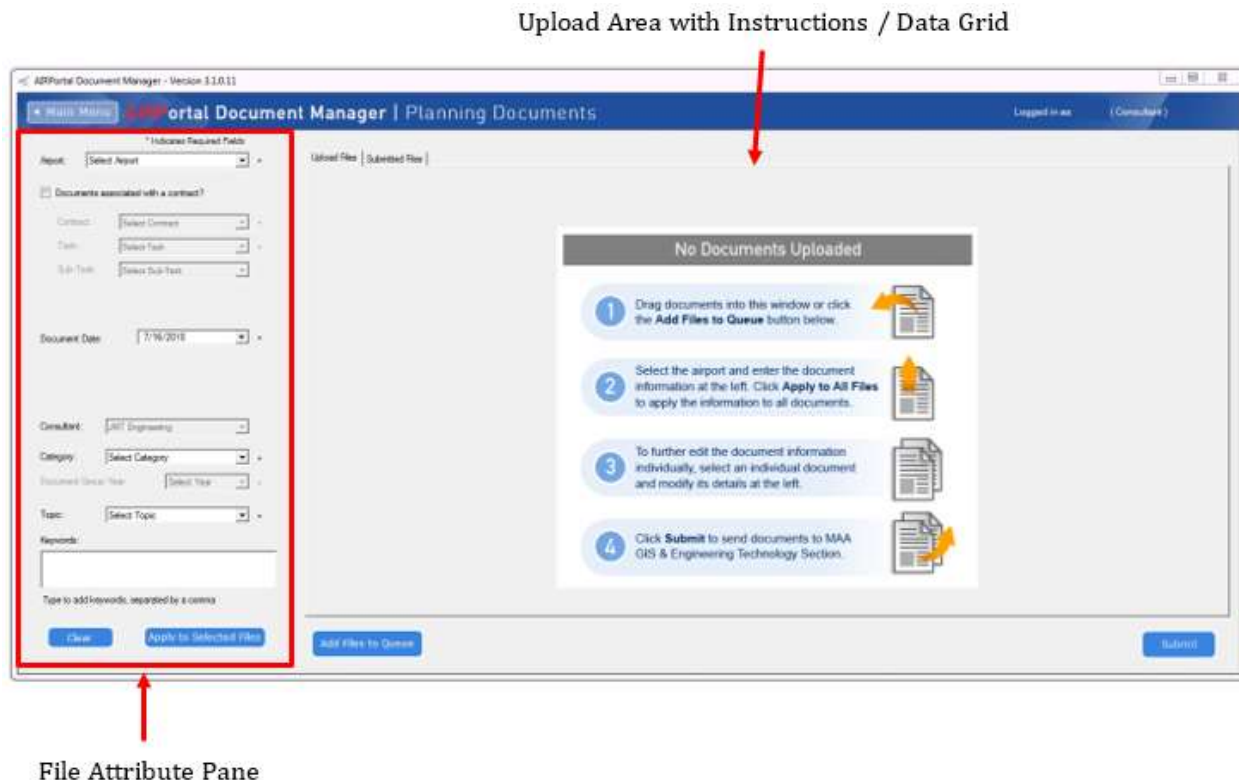
5.6.4.2 File Naming

Planning files that will be uploaded into AIRPortal via ADM must have a suitable name. The guidelines below should be followed when naming files:

- The file name should match the name of the document, with some minor exceptions
 - The file name must be less than 247 characters
 - If the airport name is included in the title, it does not have to be spelled out
- Since all documents are final documents, the word “Final” should not be included in the title
- If the file contains sensitive security information (SSI), it should have _SSI appended to the file name
- Drawings such as Airport Layout Plans should have file names that define the drawing and how the files are to be displayed such as:
 - <Four-digit year> <Airport code> <sheet Sequence No.> “-” <Sheet Identifier> “-” <Document Title or Sheet Title>
 - Airport code: BWI or MTN
 - Sheet Sequence No. = 4-digit number starting with “0001”. Leading zeros are required. Must match the sheet number.
 - Sheet Identifier = Sheet number as shown, if the sheet sequence and sheet number are the same
 - Document title or sheet title = Sheet title as shown in drawing title box.

5.6.5 Overview of Planning Documents Home Window

When the user first enters ADM for Planning Documents, they see the following screen.



The Planning Documents ADM interface allows the user to upload files or view submitted files that have not yet been approved. Once a user adds a file to the queue for uploading, the instructions are replaced with a data grid that lists the files in the queue.

5.6.6 Add Files to Upload Queue and Define Attributes

All files to be uploaded must have attribute information. The file attributes can be set before or after adding files to the queue. Attributes include:

Airport: A required field, the user can choose from BWI Airport, Martin State Airport, Both, or Other.

Documents associated with a contract: Some planning documents are not associated with a contract. If the document to be uploaded is associated with a contract, the user must check this box. Doing so will make the Contract, Task, and Sub-Task dropdowns active.

Contract: A required field, the user will choose the contract that the file(s) they are uploading are related to. The user will only be able to view contracts for which their firm is the prime.

Task: A required field, the user will choose the task that the file(s) they are uploading are related to. The user will only be able to view tasks for which their firm is the prime.

Sub-Task: The user can choose a sub-task that the file(s) they are uploading are related to. The user will only be able to view sub-tasks for which their firm is the prime. Not all tasks have a sub-task.

Document Date: A required field, the user will enter the effective date of the file(s) to be uploaded. This should be the date as it appears in the document being submitted.

Consultant: This field is populated by the system and is based on the credentials of the user uploading the file.

Category: A required field, the user can choose among a number of values including Administration, Airport Layout Plans, Airside, Landside, Master Plan, Other, Real Estate, Regional, and Terminal. Categories serve as keywords and facilitate searches in the AIRPortal document library for Planning.

Document Group Year: A required field for files with a category of Master Plans or Airport Layout Plans, the user must choose a year from the list. This field will help group files by year which will aid users in finding files in the AIRPortal document library for Planning. If the selected category is other than Master Plans or Airport Layout Plans, this field is disabled.

Topic: A required field, the user can choose among a number of values. Users can start typing a topic name to jump down the list. Topics serve as keywords and facilitate searches in the AIRPortal document library for Planning.

Keywords: The user can enter other keywords, separated by a comma, that will help users to find the file in the AIRPortal document library for Planning. This field can be left blank. Users should not duplicate category or topic values.

5.6.6.1 Define File Attributes Before Adding Files to the Queue

The user can begin the process by entering the required file attributes. Required fields are marked with an asterisk. In the example below, the document to be uploaded is associated with a contract.

* Indicates Required Fields

Airport: *

☒ Documents associated with a contract?

Contract: *

Task: *

Sub-Task:

Document Date: *

Consultant:

Category: *

Document Group Year: *

Topic: *

Keywords:

Type to add keywords, separated by a comma

After entering the required file attributes, the user will click on Add Files to Queue or drag and drop one or more files from their desktop into the ADM Upload Files window.

Portal Document Manager | Planning Documents

Logged in as: user123 (Logout)

Upload Files | Submitted Files

☒ Documents associated with a contract?

Contract: [MAA-AE-03-002] Task: [2] Sub-Task: [A]

Document Date: [7/16/2018]

Consider: [001 Engineering] Category: [Master Plan] Document Group Year: [2018] Type: [Planning]

Keywords: []

Press to add keywords, separated by a comma

No Documents Uploaded

- 1 Drag documents into this window or click the **Add Files to Queue** button below.
- 2 Select the airport and enter the document information at the left. Click **Apply to All Files** to apply the information to all documents.
- 3 To further edit the document information individually, select an individual document and modify its details at the left.
- 4 Click **Submit** to send documents to MAA GIS & Engineering Technology Section.

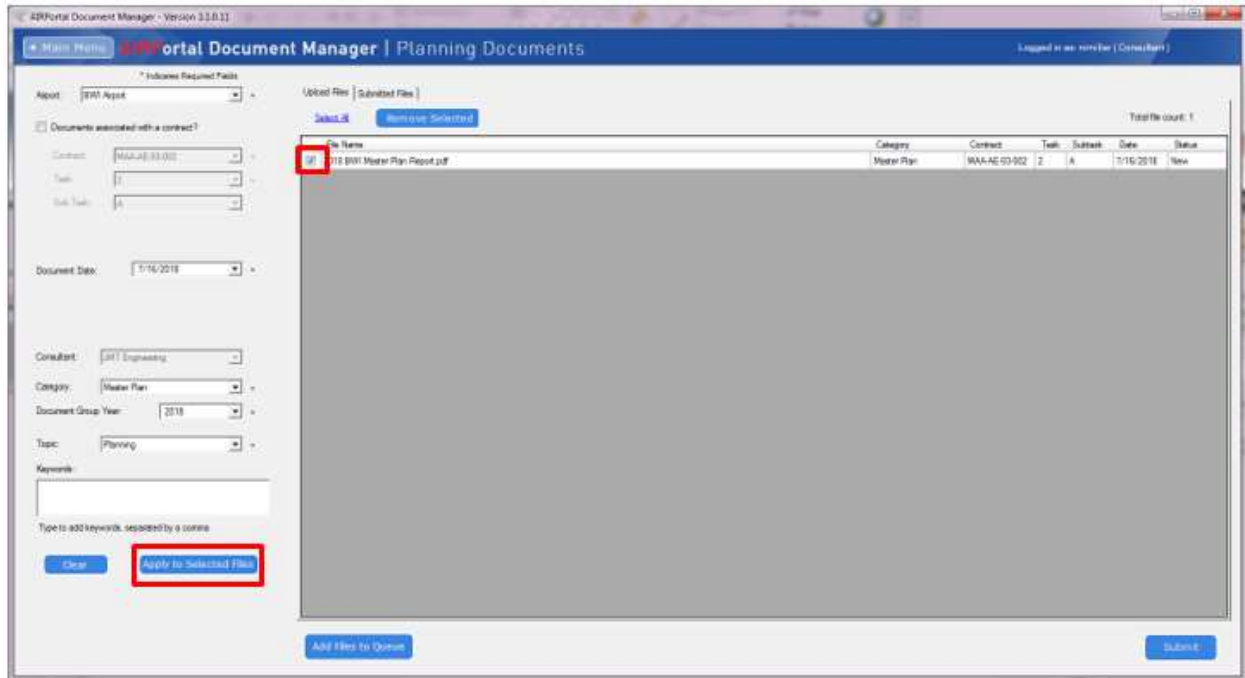
When the user adds a file to the queue, it is assigned the attributes that were entered beforehand.

Upload Files | Submitted Files

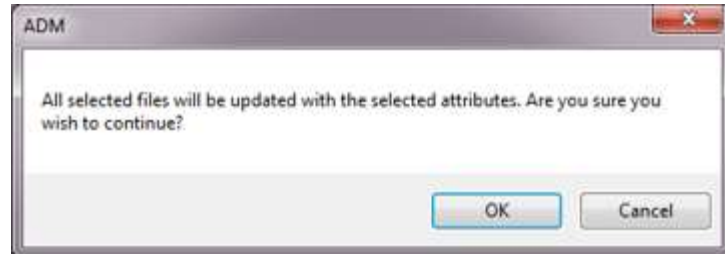
Total file count: 1

File Name	Category	Contract	Task	Subtask	Date	Status
<input type="checkbox"/> 2018 BWI Master Plan Report.pdf	Master Plan	MAA-AE-03-002	2	A	7/16/2018	New

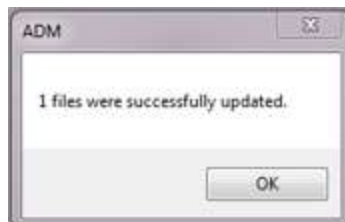
The user can modify the attribute information of the file by clicking the checkbox next to the file, updating the attribute information in the file attribute pane, and then clicking Apply to Selected Files at the bottom of the file attribute pane.



The user will be asked to confirm that they want to update the selected files with the new attribute information. The user can proceed with the update by clicking OK or canceling the update by clicking Cancel.

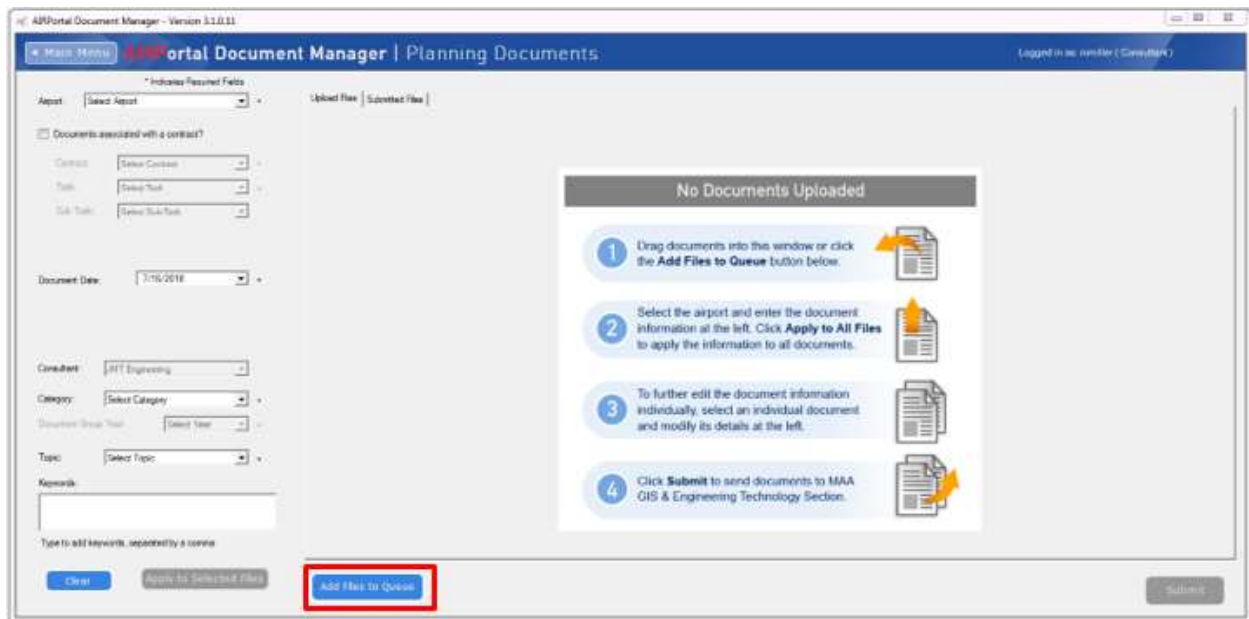


After the user clicks OK, they will receive a message that the update was successful.

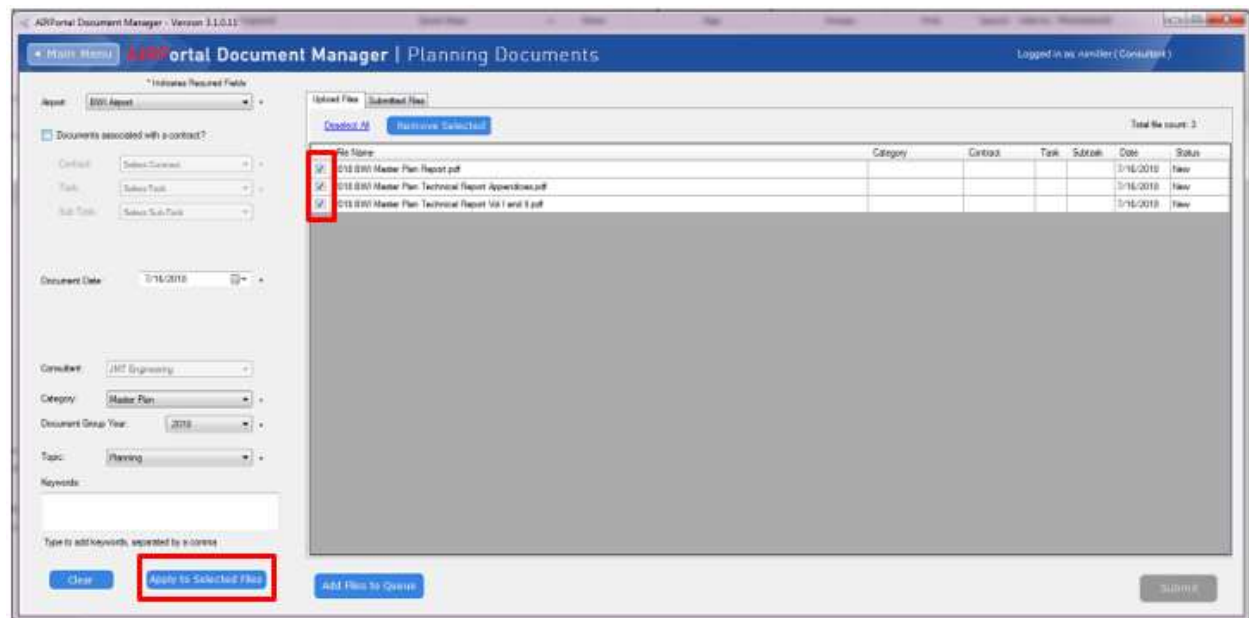


5.6.6.2 Define File Attributes After Adding Files to the Queue

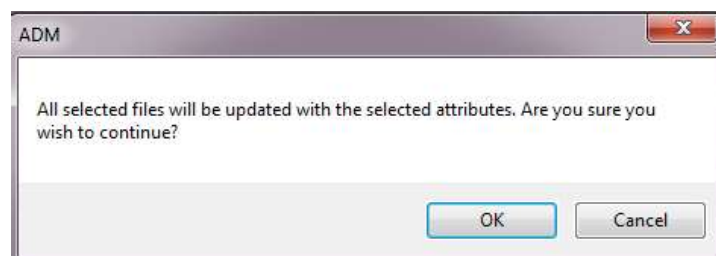
A user can add files to the queue for upload by clicking on Add Files to Queue or dragging and dropping files from their desktop into the ADM Upload Files window. Clicking Add Files to Queue will open a window where users can navigate to the location of the files on their desktop or on a shared drive.



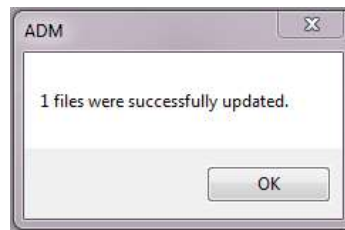
After the user has added one or more files to the queue, they will check the box next to the applicable files, define the file attributes, and click Apply to Selected Files.



The user will be asked to confirm that they want to update the selected files with the attribute information. The user can proceed with the update by clicking OK or canceling the update by clicking Cancel.

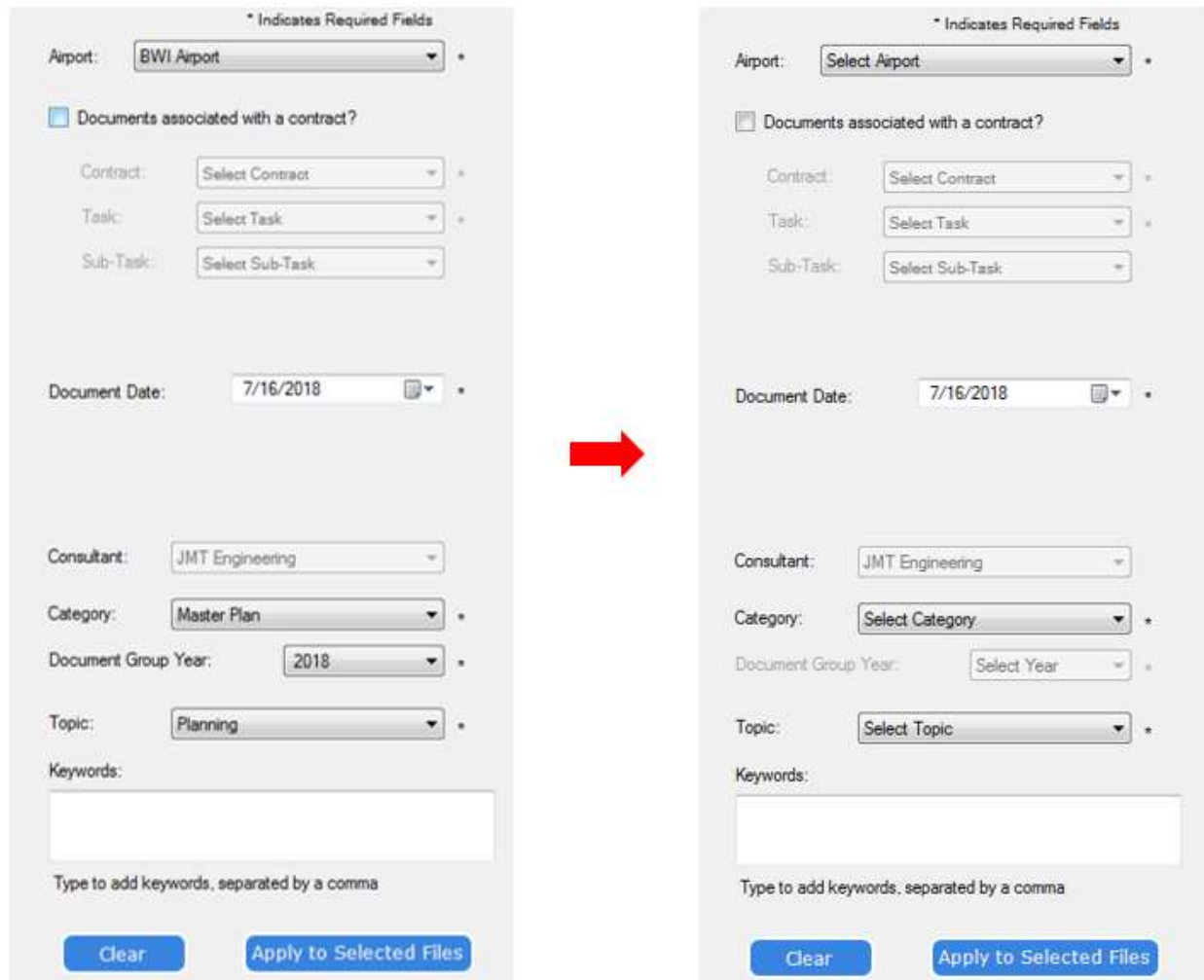


After the user clicks OK, they will receive a message that the update was successful, and the data grid will reflect the changes made.



5.6.7 Clear Attribute Information

If at any time, the user wants to clear the attribute information that is visible in the file attribute pane, they can click on the Clear button.



The image displays two versions of a file attribute form, connected by a red arrow indicating a 'Clear' action.

Left Form (Populated):

- Airport: BWI Airport
- ☒ Documents associated with a contract?
- Contract: Select Contract
- Task: Select Task
- Sub-Task: Select Sub-Task
- Document Date: 7/16/2018
- Consultant: JMT Engineering
- Category: Master Plan
- Document Group Year: 2018
- Topic: Planning
- Keywords: (empty text box)
- Buttons: Clear, Apply to Selected Files

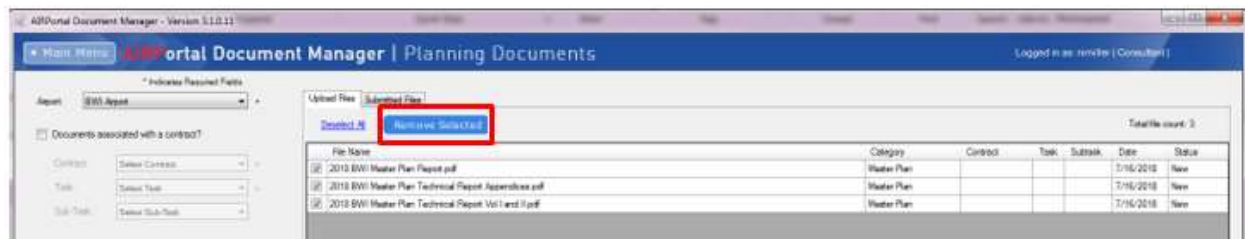
Right Form (Cleared):

- Airport: Select Airport
- ☐ Documents associated with a contract?
- Contract: Select Contract
- Task: Select Task
- Sub-Task: Select Sub-Task
- Document Date: 7/16/2018
- Consultant: JMT Engineering
- Category: Select Category
- Document Group Year: Select Year
- Topic: Select Topic
- Keywords: (empty text box)
- Buttons: Clear, Apply to Selected Files

After clearing the file attribute pane, the user can enter new information and apply it to selected files in the data grid. The document date will default to today's date.

5.6.8 Remove a File

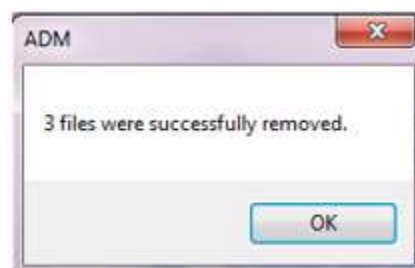
Files can be removed from the upload queue by checking the box next to the document and clicking Remove Selected.



The user will be prompted to confirm that they want to proceed and permanently delete the files marked for deletion. Clicking OK will delete the files. Clicking Cancel will cancel the action.



After clicking OK, the user will get a message notifying them of the successful removal of the files. The data grid will be emptied if all files have been selected for removal.



5.6.9 Submit a File

Once the user has put all the files into the queue that they want to submit and defined the attributes for the files, they will submit the files by clicking Submit. If the user has not populated all the required fields, they will get an error message when they try to submit.

Note: If the user closes ADM before clicking on the Submit button, the files that have been queued will be removed. The user will have to reload the files into the queue the next time they launch ADM.

The screenshot shows the 'AEP Portal Document Manager | Planning Documents' interface. On the left, there are filters for 'Asset' (BRT Asset), 'Contract' (Select Contract), 'Task' (Select Task), 'Sub-Task' (Select Sub-Task), 'Document Date' (7/16/2018), 'Consultant' (BRT Engineering), 'Category' (Master Plan), 'Document Group Year' (2018), 'Topic' (Planning), and a 'Keywords' field. The main area displays a table of documents with columns: File Name, Category, Contract, Task, Subtask, Date, and Status. Three documents are listed, all with a status of 'New'. At the bottom right, a 'Submit' button is highlighted with a red box.

File Name	Category	Contract	Task	Subtask	Date	Status
2018 BRT Master Plan Report.pdf	Master Plan				7/16/2018	New
2018 BRT Master Plan Technical Report Appendix.pdf	Master Plan				7/16/2018	New
2018 BRT Master Plan Technical Report Vol I and II.pdf	Master Plan				7/16/2018	New

The user will be asked to confirm that they want to continue and upload all files in the data grid. They will click OK to continue or Cancel to cancel.



The Status field will show the current state of the file upload. Statuses include:

- New: Status of a file that has not yet been uploaded
- Validating: Status of a file that is in the process of being validated for upload
- Uploading: Status of a file whose upload is in progress
- Uploaded: Status of a file that has been successfully uploaded

The screenshot shows the 'ADRPortal Document Manager | Planning Documents' interface. On the left, there are filters for 'Aspect' (BWI Aspect), 'Documents associated with a contract?', 'Contract', 'Task', 'Sub-Task', 'Document Date' (7/16/2018), 'Consultant' (JRT Engineering), 'Category' (Master Plan), 'Document Group Year' (2018), 'Topic' (Planning), and 'Keywords'. The main area displays a table of submitted files. A red box highlights the 'Status' column, which contains the values 'Uploaded', 'Uploading', and 'New'.

File Name	Category	Contract	Task	Subtask	Date	Status
[X] 2018 BWI Master Plan Report.pdf	Master Plan				7/16/2018	Uploaded
[X] 2018 BWI Master Plan Technical Report Appendix.pdf	Master Plan				7/16/2018	Uploading
[X] 2018 BWI Master Plan Technical Report Vol 1 and 2.pdf	Master Plan				7/16/2018	New

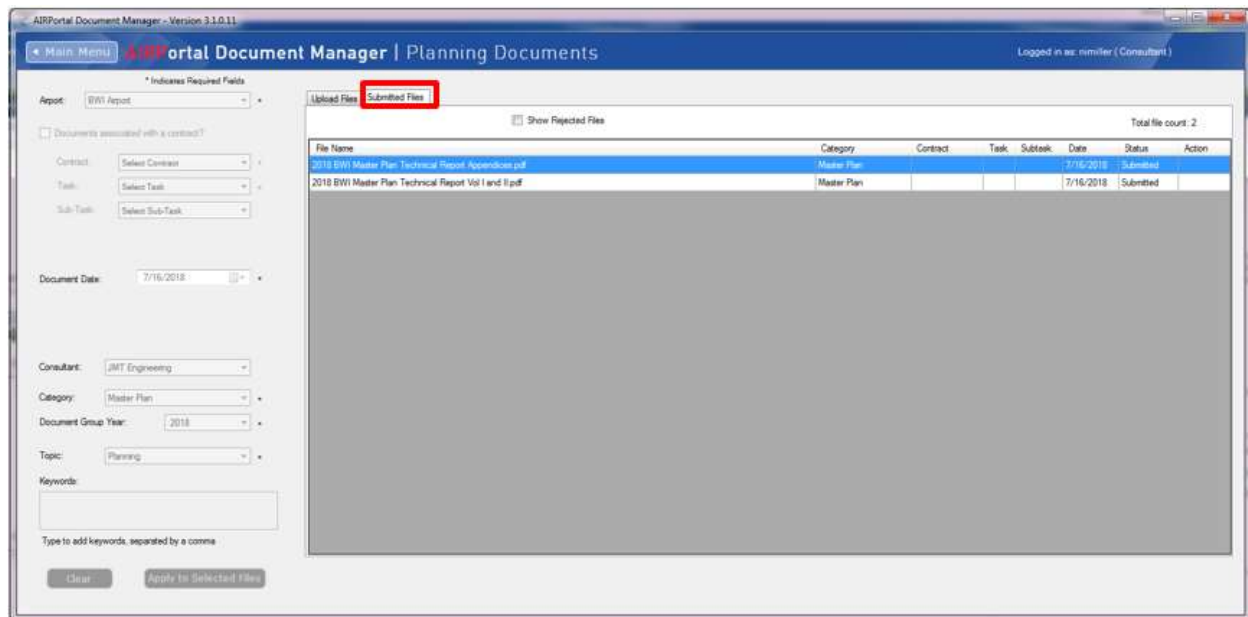
Once a file is submitted, it cannot be removed or edited by the consultant unless the file is rejected by the MDOT MAA Archivist.

When the upload process is complete, the user will get a pop-up message letting them know how many files were uploaded successfully and how many failed. If all the files uploaded successfully, the data grid will be empty.

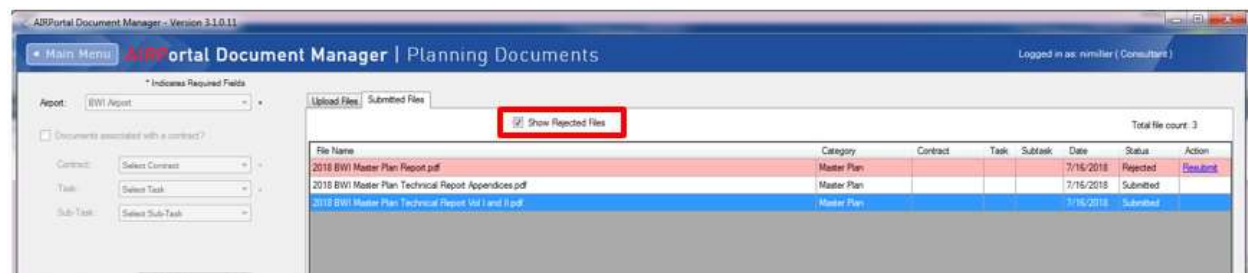
The screenshot shows the same ADRPortal Document Manager interface, but with a pop-up message box in the center. The message box, titled 'ADM', contains the text: '3 files were successfully uploaded. 0 files failed.' and an 'OK' button. The background table is now empty.

5.6.10 Submitted Files Tab

Once a user submits one or more files and before those files are approved, they are visible to the consultant in the Submitted Files tab.



Users can see rejected files in this tab by checking the box next to Show Rejected Files. When a file is rejected by the MDOT MAA Archivist, an email is sent to the user from MAA-ADM-NoReply@bwiairport.com with an explanation of why the file was rejected.

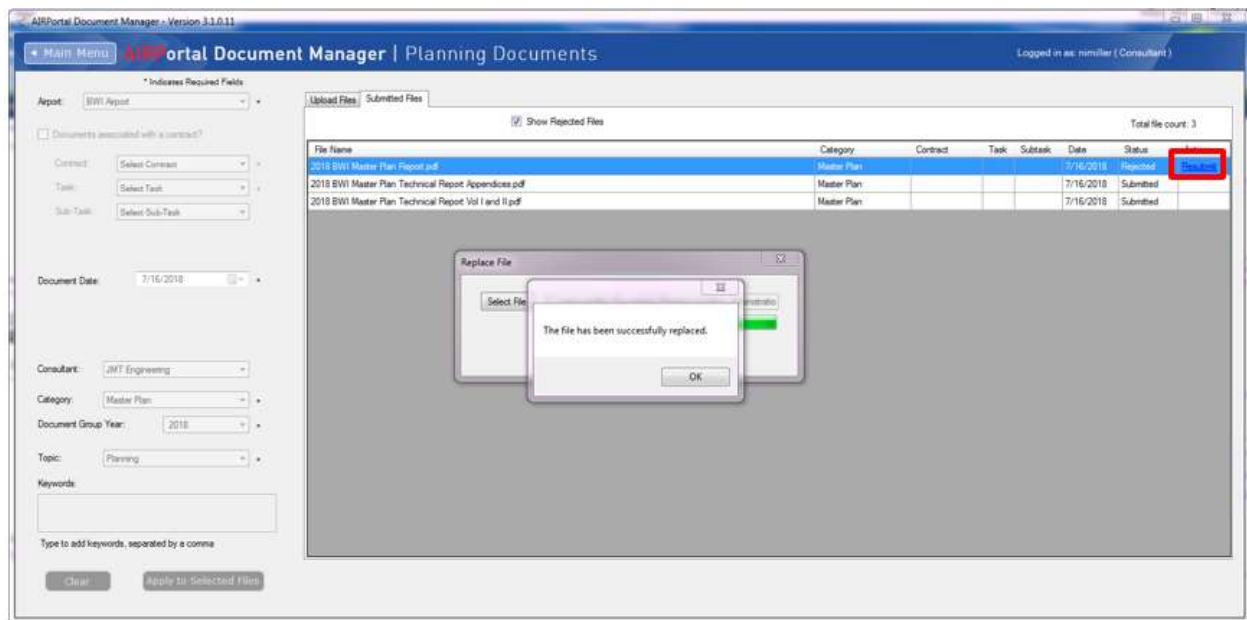


Approved files will be accessible to AIRPortal users in the appropriate Planning library.

5.6.11 Resubmit a Rejected File

It is possible that a file submitted to MDOT MAA via ADM could be rejected. If a file is rejected, an email will be sent to the consultant that submitted it from MAA-ADM-NoReply@bwiairport.com with a reason for why the file was rejected.

A user can resubmit a rejected file by logging into ADM for Planning, going to the Submitted Files tab, and clicking on the Resubmit link. This will launch a window where the user can navigate to the replacement file and upload it. When the file upload is successful, they will get a message saying that the file has been successfully replaced. The replacement file will be assigned the same attributes as the original file.



A resubmitted file will be given a status of Resubmitted in the data grid.

Upload Files

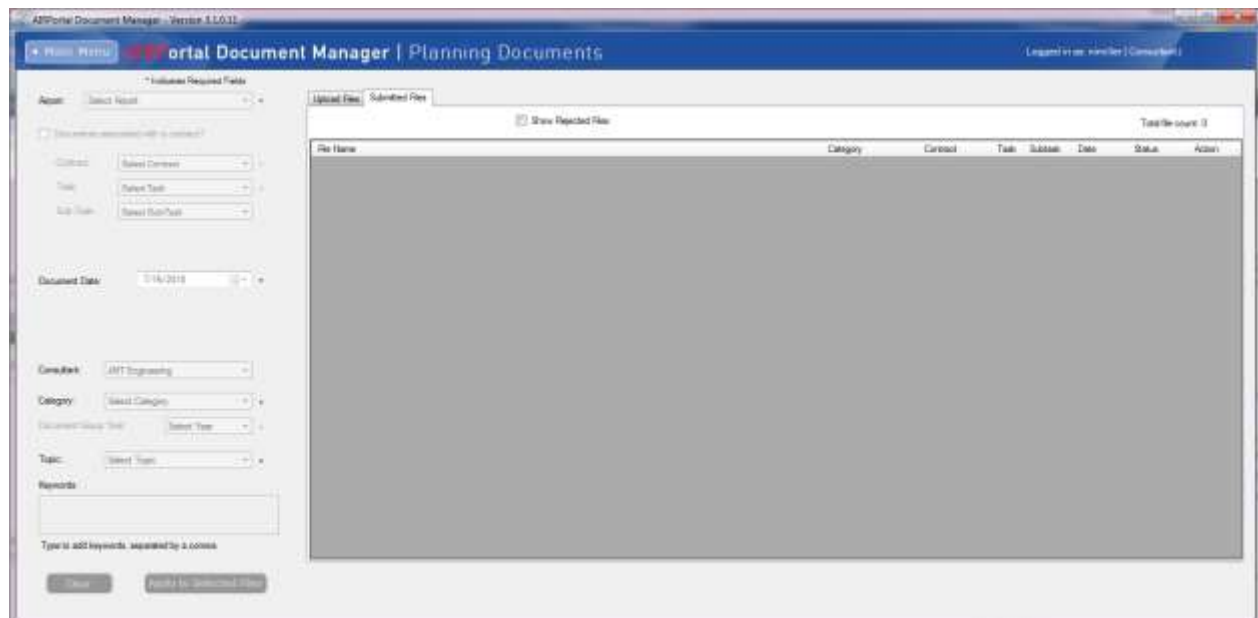
Submitted Files

☒ Show Rejected Files

Total file count: 3

File Name	Category	Contract	Task	Subtask	Date	Status	Action
2018 BWI Master Plan Report.pdf	Master Plan				7/16/2018	Resubmitted	
2018 BWI Master Plan Technical Report Appendices.pdf	Master Plan				7/16/2018	Submitted	
2018 BWI Master Plan Technical Report Vol I and II.pdf	Master Plan				7/16/2018	Submitted	

Once all files that a consultant has submitted have been approved, the Submitted Files tab will be empty. Approved files will be accessible to AIRPortal users in the appropriate Planning library.



5.6.12 AIRPortal Document Manager Support

Sarah Munroe

Michael Baker

smunroe@bwairport.com

410-859-7933

Onsite at MDOT MAA