

Subject: Using the Decision Support System (DSS) Custom Automated Data Delivery (CADD)

Statement: NYISO customers now have the ability to create automated processes through which they may download any data residing in the NYISO DSS system. The data can be downloaded in either Comma Separated Value (CSV) or XML format. This new functionality (CADD) has no effect on the existing ADD system.

Details:
Summary:

This Technical Bulletin addresses the following topics relating to CADD:

- Creating Documents for CADD.
- Scheduling Documents for CADD.
- System Automation for Data File Retrieval from CADD.

This Technical Bulletin assumes that Users have a valid digital certificate, a DSS account, and are currently logged into the DSS web environment. The table below compares ADD to CADD:

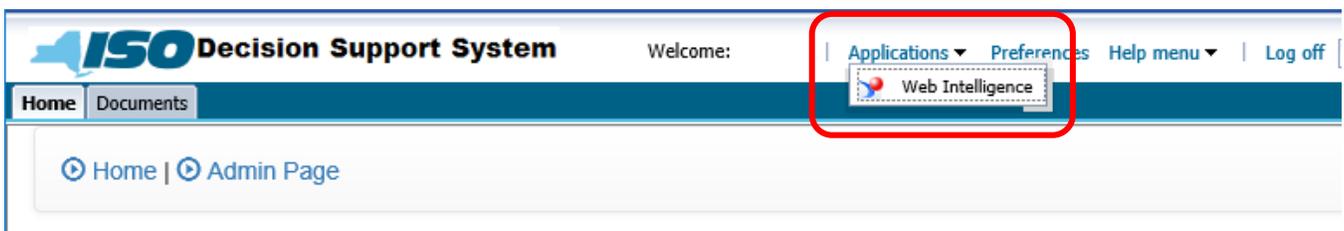
	ADD	CADD
Interactive User Actions	<ul style="list-style-type: none"> • Log in • Submit a request for a file 	<ul style="list-style-type: none"> • Log in • Create a WebIntelligence Document • Schedule the Document to be Automatically Refreshed
When files are available	No files are displayed until ALL files are complete.	Each file is made available as soon as it is created.
Automated System Actions	Scripts to Automate the Machine to Machine download of the data files.	Scripts to Automate the Machine to Machine download of the data files. These scripts must include error-handling logic.

Creating Web Intelligence Documents for CADD

For detailed information on creating documents, please refer to Online Resources for the DSS on NYISO’s Market Training website. Below is a brief summary for creating a Web Intelligence document.

1. From within DSS, click on ‘Applications’ then ‘Web Intelligence’ in the top navigation bar. (See Figure 1)

Figure 1: NYISO DSS Web Intelligence Link



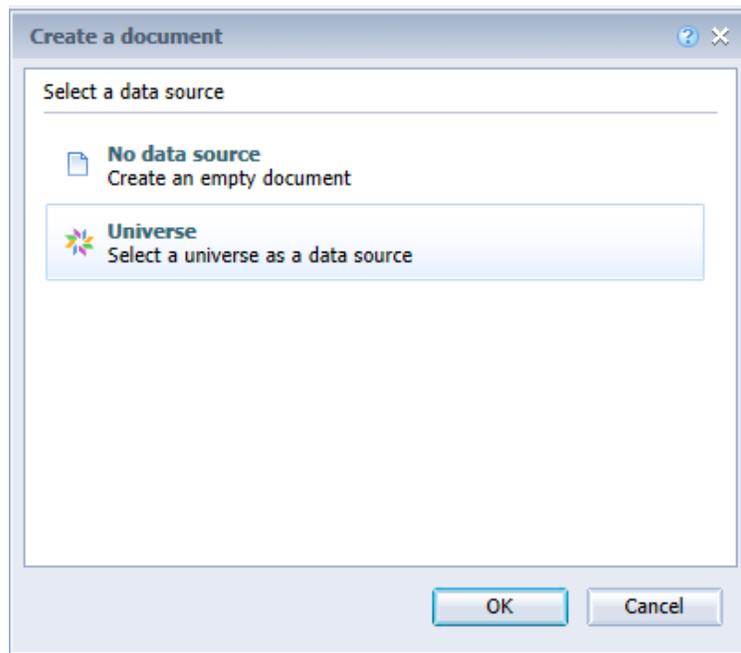
2. Then select the New document icon. (See Figure 2)

Figure 2: NYISO DSS Web Intelligence New Document Icon



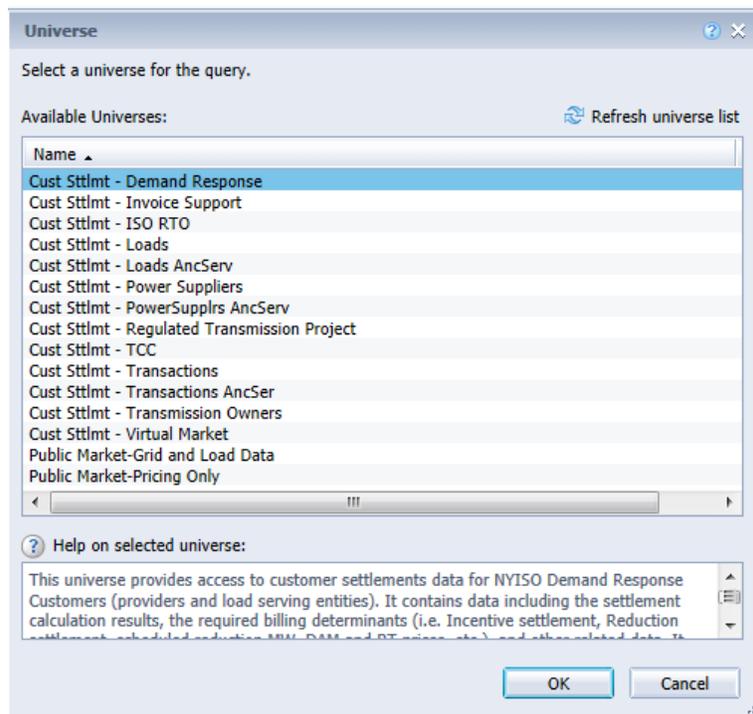
- On the 'Create a Document' screen select 'Universe'. (See Figure 3)

Figure 3: NYISO DSS Web Intelligence Create a Document Screen



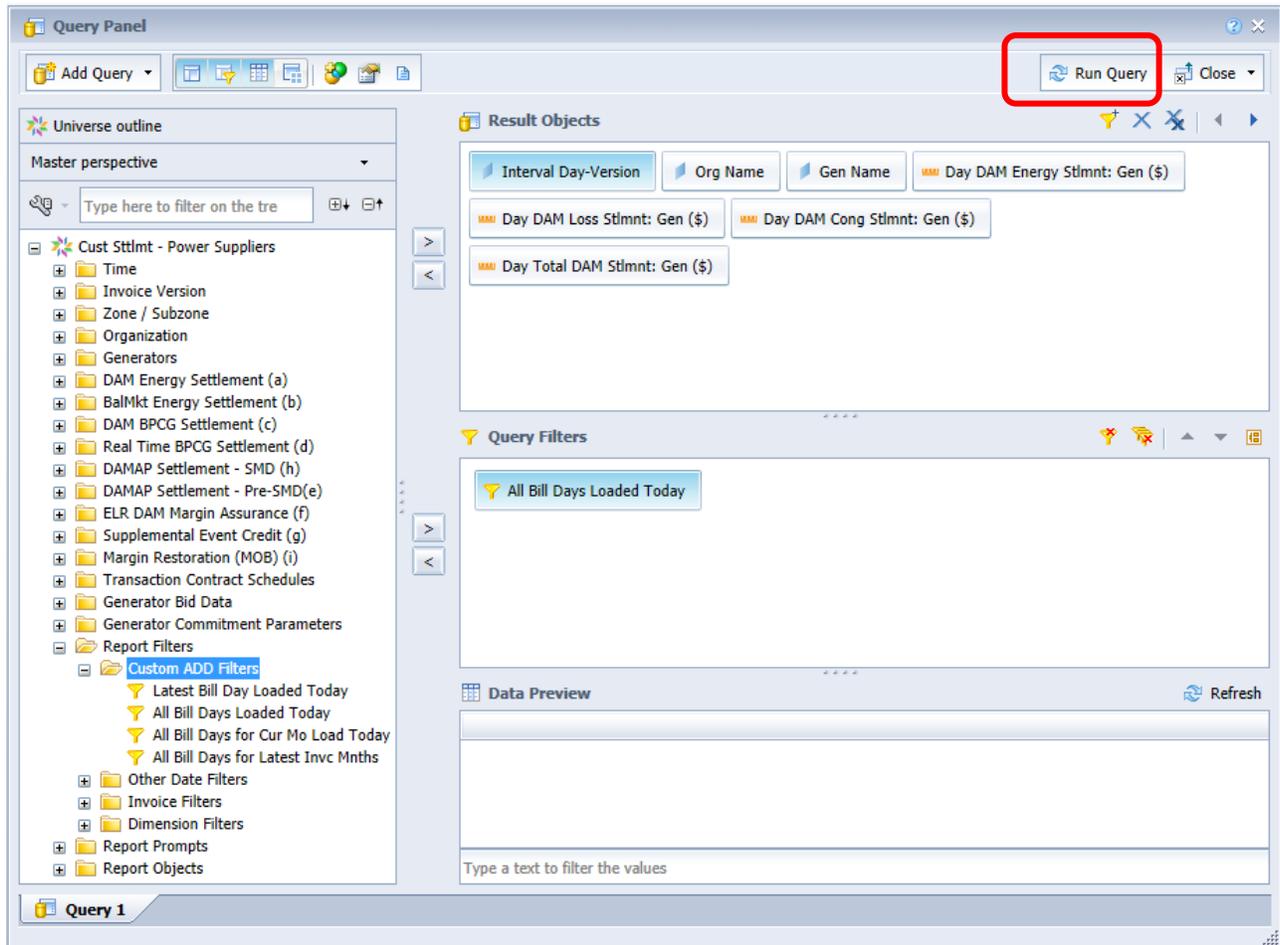
- On the Universe screen, select a universe to create a query against. (See Figure 4)

Figure 4: NYISO DSS Web Intelligence Select a Universe Screen



- In the respective Query panel (See Figure 5), add objects to Result Objects (top right pane) that you want to receive in your file. Users must also include an object in Query Filters (middle right pane) from the “Custom ADD Filters” class.

Figure 5: NYISO DSS Web Intelligence Query Panel Screen

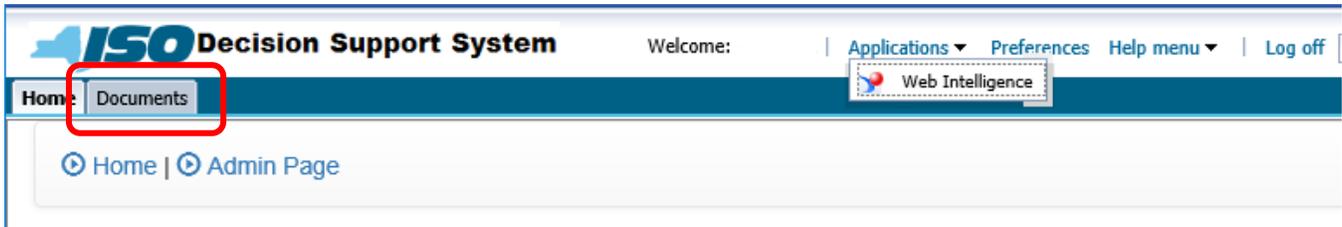


- After adding all of your objects to Result Objects and a Date type object to Query Filters, click the Run Query button on the top right of the Query Panel. (See Figure 5)
- Confirm that the output contains the rows and columns that you want to receive in the file to be downloaded.
- Save the document to your Favorites Folder. Close the document.

Scheduling Documents for retrieval via CADD

- Navigate to your 'My Favorites' folder. From within DSS, click on 'Documents' in the top navigation bar. (See Figure 6)

Figure 6: NYISO DSS Documents Tab



- Select 'My Documents' and then select the 'My Favorites' folder (See Figures 7a and 7b)

Figure 7a: NYISO DSS My Documents

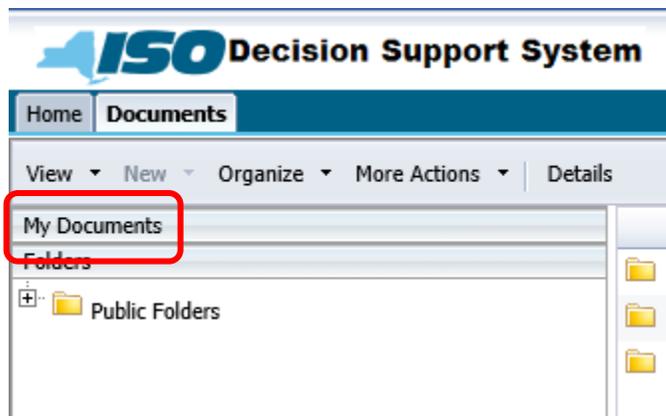
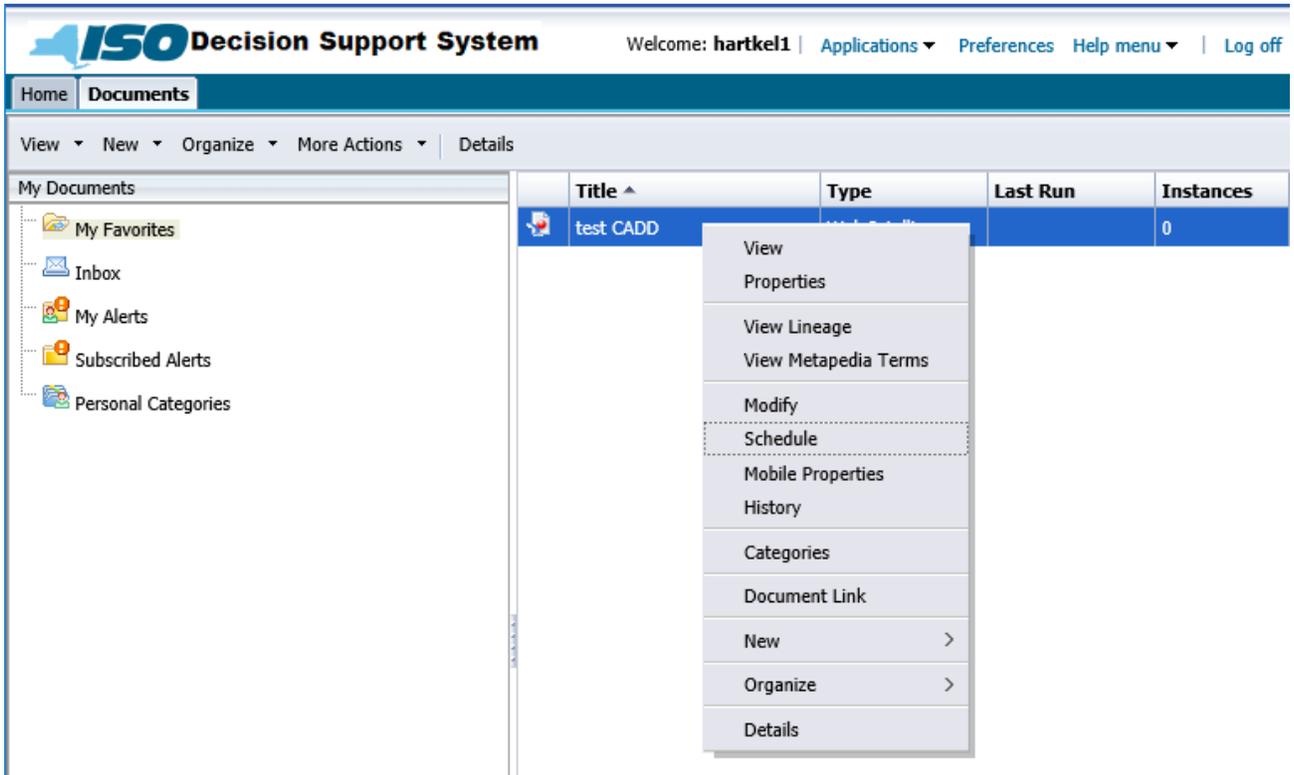


Figure 7b: NYISO DSS My Favorites



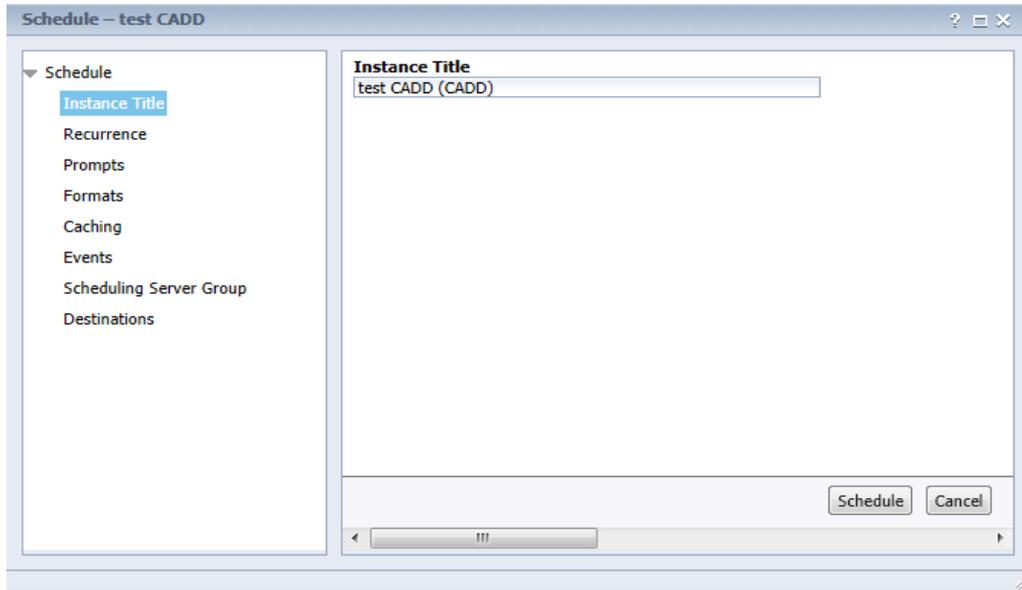
- Right mouse click on the Web Intelligence report that you want to schedule. Then select 'Schedule' option from the menu list. (See Figure 8).

Figure 8: NYISO DSS Schedule Option



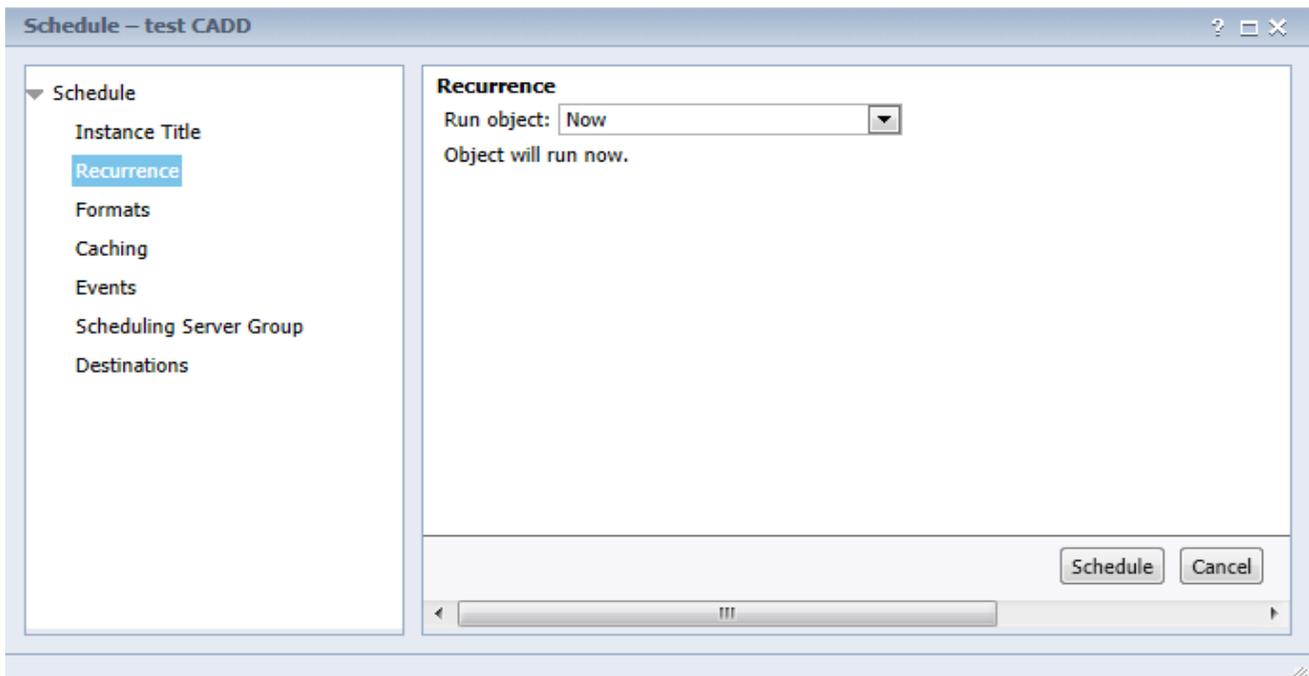
12. The 'Schedule' Screen will be displayed. Select 'Instance Title'. Enter the report title. The report title **MUST** include the text string (CADD) somewhere in the title name. (See Figure 9a)

Figure 9a: NYISO DSS Schedule CADD Instance Title Selection



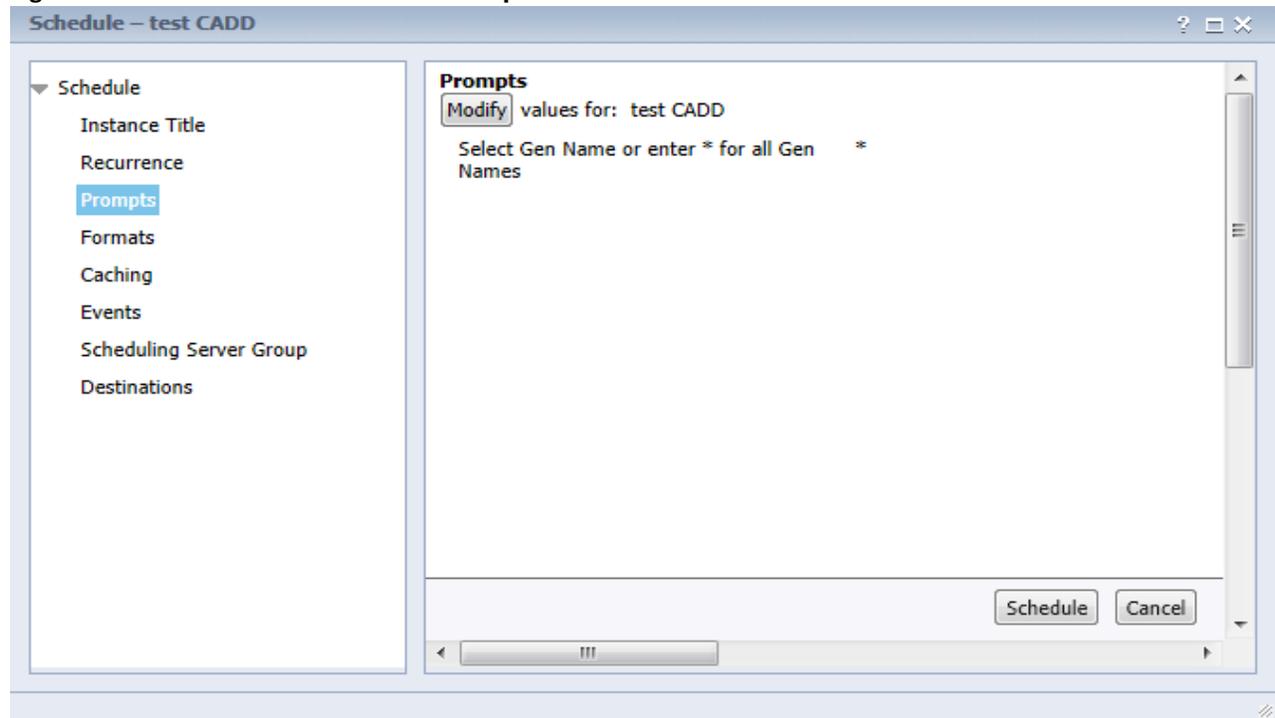
13. Select 'Recurrence' (See Figure 9b) for the desired report refresh frequency (i.e. Daily, Weekly) and select the preferred run time.

Figure 9b: NYISO DSS Schedule CADD Recurrence Selection



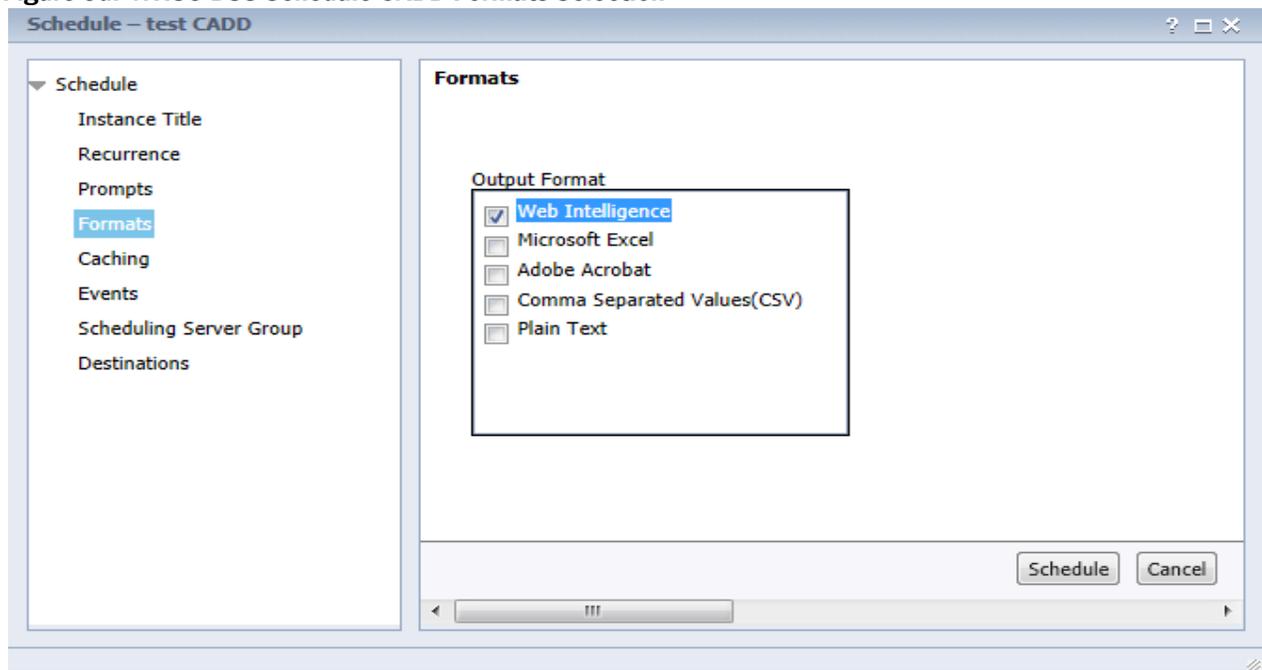
14. Select 'Prompts' (See Figure 9c) if your report contains prompts. You must set the prompts prior to scheduling.

Figure 9c: NYISO DSS Schedule CADD Prompts Selection



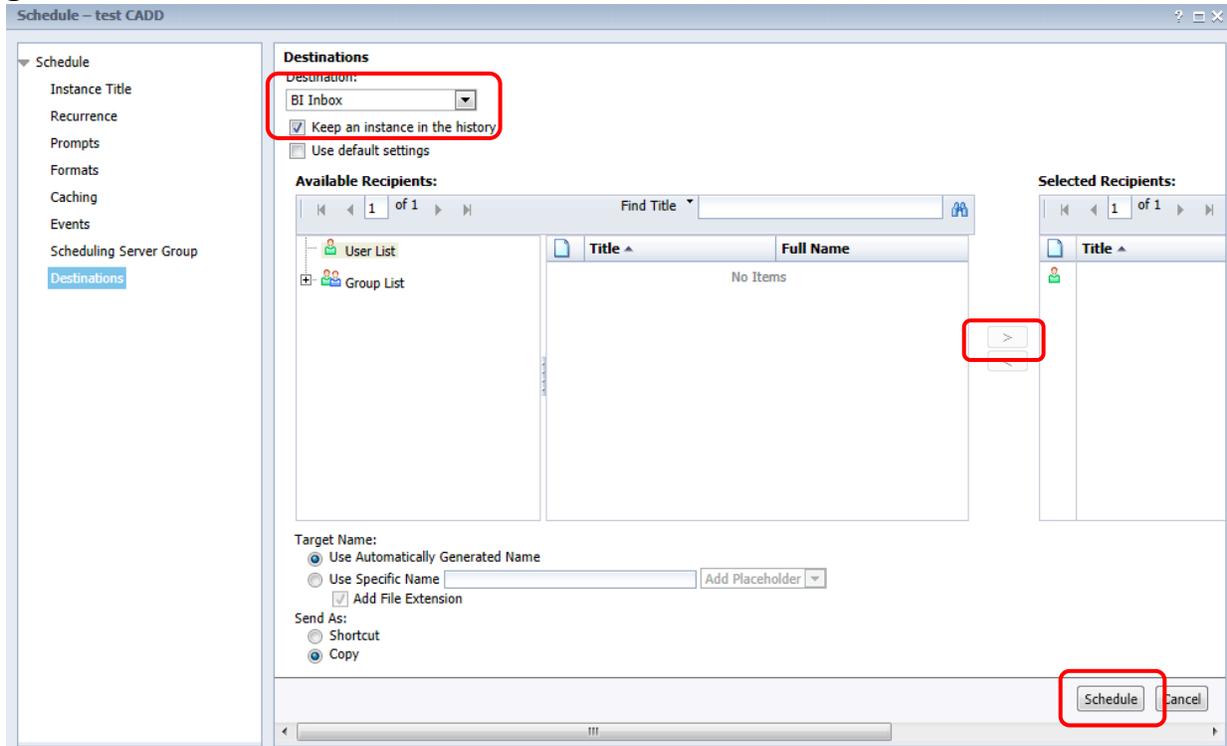
15. Select 'Formats' (See Figure 9d) and click the Web Intelligence check box.

Figure 9d: NYISO DSS Schedule CADD Formats Selection



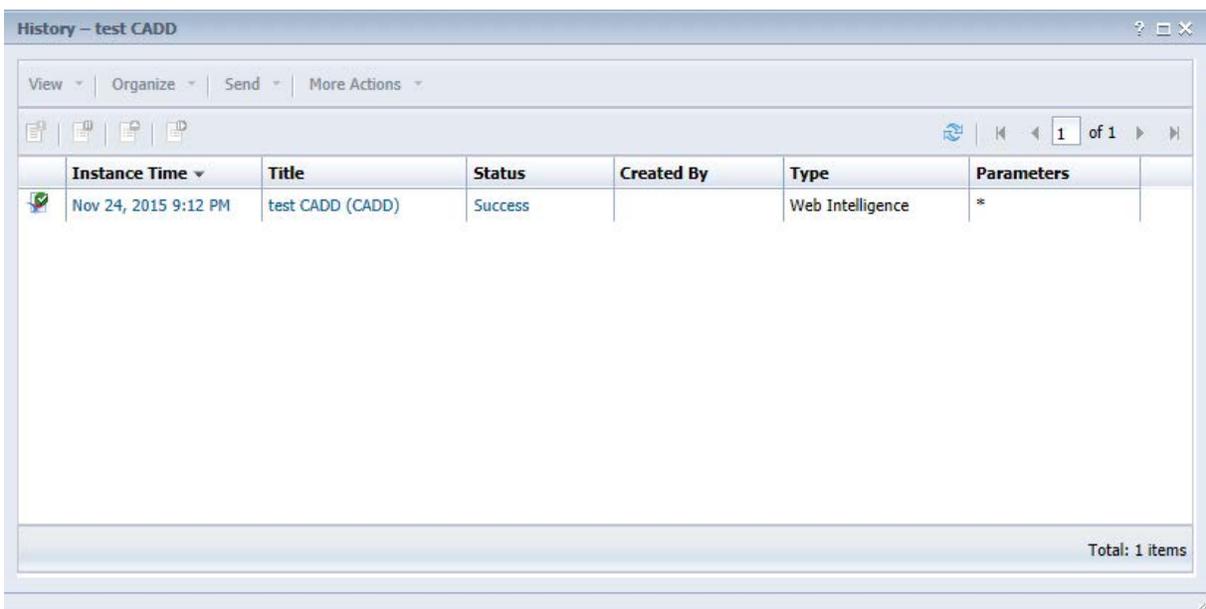
16. Select 'Destinations' (See Figure 9e) and select BI Inbox in the drop down box. Move user name from Available Recipients to Selected Recipients using the right arrow. Click the 'Schedule' button

Figure 9e: NYISO DSS Schedule CADD Destinations Selection



17. The User will be shown the instances for that document (at the time the document is scheduled only one instance will exist). (See Figure 10)

Figure 10: NYISO DSS Schedule Instances Screen



System Automation for Report Retrieval from CADD

Once the documents are scheduled, and being delivered to the User's BI Inbox on a recurring basis, Market Participants may retrieve the contents of those documents through automated/ third party systems rather than through the interactive browser interface. The following describes the automated processes.

Since access to the DSS application requires authentication via the use of digital certificates, an application program will need to handle the exchange of web server and client certificates that occurs as part of the handshake before an SSL connection is established during automated processes. Use of a particular certificate store or client certificate will also require special processing.

Participants may programmatically access the DSS Inbox CADD File interface. To do so, the application will need to issue a 'GET' or 'POST' HTTP request to the upload/download program at the following URL:

https://dss.nyiso.com/dss/login.jsp?user=****&pass=****&automated=3

Market Participants should use their actual DSS userid and password in the place of
user=****&pass=****

Use of the 'POST' request method is recommended to avoid the limitations on content length that occur with the 'GET' request. Use of uppercase in the request verb is also recommended.

The above URL will return a comma delimited list of Document Ids, Document Names, Document Size (equal to zero *retained for backwards compatibility), Document Type, Date that the contents were generated, and an error message if one exists. Examples of results of above link are below:

417433,PS-Daily Results,0,wid,09/11/2015 21:38,
417446,LSE-Daily Results,0,wid,09/11/2015 21:58,
417729,Trans-SCD Results,0,wid,09/10/2015 03:01,
417732,LSE-SCD Results,0,wid,09/09/2015 18:21,

To retrieve the individual file content for each document, the automated process must extract the Document Names and Document IDs from the list provided by the url above, and substitute them into the following URL:

https://dss.nyiso.com/dss/scripts/dssCADDRetrieveFile.jsp?ID=*****&fileName=*****&fileType=xxx

FileType must also be specified. Replace xxx with either XML or CSV (File Type is case sensitive).

To delete the documents from the Inbox after retrieving their contents, use this URL:

<https://dss.nyiso.com/dss/scripts/dssCADDdeleteFile.jsp?ID=xxxxxx&fileName=xxxxxx>

where ID is the Document ID and fileName is the document name.

All Users should note that after retrieving their files, they must log-out of the automated environment with the following URL:

<https://dss.nyiso.com/dss/scripts/dssADDAutomationLogout.jsp>

Other Important Notes:

1. After downloading files in XML format, do not use the tag names or the object ids to identify each data column. Tag names and object ids have the potential to change without notice. Use “Index” number for identifying columns within the data.
2. After downloading files in CSV format, do not use column headers to identify each data column, as they have the potential to change without notice. Use the position of the data column to identify columns within the data.
3. The files will all be in zipped format and must be unzipped by each User’s automation routine.
4. If including Org Name as one of the objects in the Web Intelligence document, use the object titled: Org Name – Custom ADD. This object will remove the commas from the Org Name so it will not interfere with the parsing of the comma separated values files.

**This Technical Bulletin is not currently expected to be incorporated into a
NYISO Manual/User Guide.**