6/3/2005, weblinks updated 11/20/2009, 3/3/2010

Subject: Accessing Customer Statement Files through the Decision Support System (DSS)

NYISO Customers may access customer statement files in comma separated value (CSV) format directly through the DSS Automated Data Delivery (ADD) tool.

Details:

Background

Settlement advisory files are available through the Automated Data Delivery (ADD), a subsystem of the Decision Support System (DSS). The ADD system allows customers to dynamically access customer settlement data - specifically daily and hourly customer statement files - directly from the DSS.

Additionally, Market Participants may create Transaction Import Files for the Federal Energy Regulatory Commission Electric Quarterly Report (FERC EQR) through ADD. This functionality is described in Technical Bulletin 139, “The NYISO Decision Support System (DSS) and the FERC Electric Quarterly Report (EQR).”

Files retrieved through ADD are limited to Billing Days/Billing Versions that have been stored in the DSS since April 8, 2004. Once bills are “respun” for non-invoiced days and versions, these non-invoiced versions of data are over-written with the latest non-invoiced version. These non-invoiced versions are referred to as Version 0 (V0) in the DSS. Invoiced versions are maintained by the DSS and are never overwritten. The DSS stores the initial invoice as Version 1 (V1), the four-month bill as Version 2 (V2) and the 12-month bill as Version 3 (V3). Since the DSS only retains the latest non-invoiced version of the data (V0) at any time, previous non-invoiced versions of files for "respun" days will not be available from the NYISO. If Market Participants wish to maintain all versions of all days, they must retrieve them from the DSS on a daily basis, and store these files locally. Since the DSS is only loaded once per day, requesting the same day and version of data within the same day is redundant.

This Technical Bulletin assumes that users have a valid digital certificate, a DSS account, and are currently logged into the DSS web environment. Users accessing the ADD environment through Internet Explorer (IE) should confirm that their browsers are configured according to the download instructions discussed in the “Retrieving Files” section below.

The remainder of this Technical Bulletin addresses the following topics for accessing statements through the DSS ADD:

- Accessing ADD
- Entering New Requests in ADD
- Retrieving Files
- Viewing, Modifying, or Deleting Requests for Files
- System Automation for File Retrieval from ADD

Accessing ADD

Users may access the ADD system directly from the Home screen of the DSS. All applicable links to ADD functions appear in a box at the top right-hand of the screen as displayed in Figure 1:

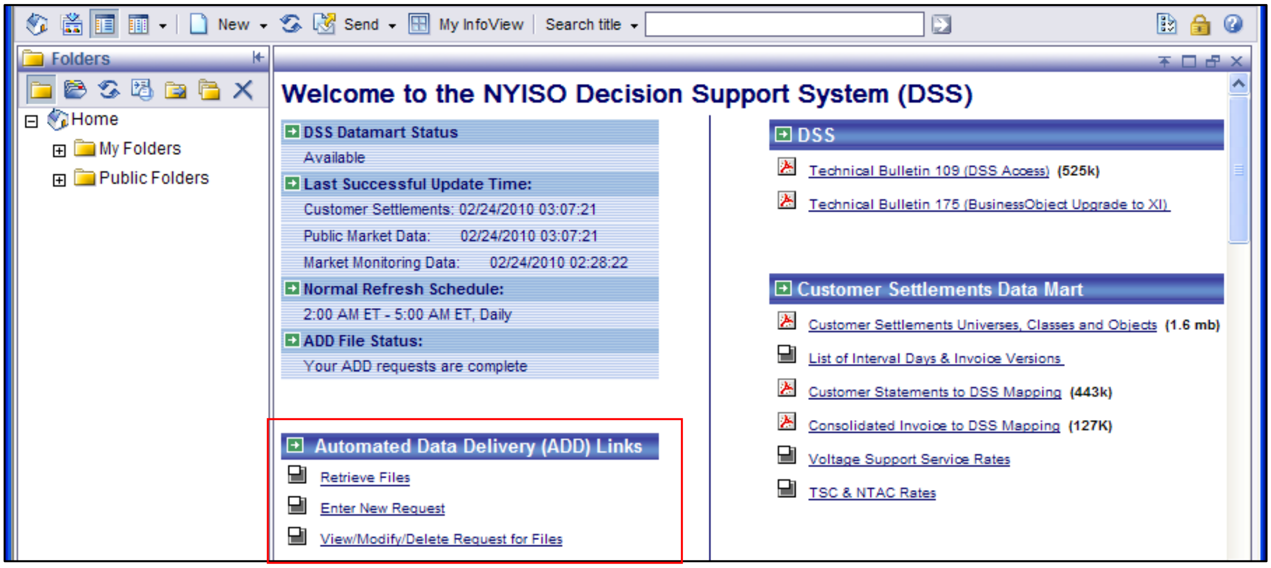

Figure 1 (updated)

The ADD system offers three primary functions: (i) the ability to retrieve customer statement files; (ii) the ability to enter new requests for files; and, (iii) the ability to view, modify, or delete existing requests for files. Additionally, to assist users in entering requests for customer statement files, the ADD document link box allows access to the list of interval days and invoice versions that are available in the DSS. The ADD link box is available on every screen of the ADD system.

Entering New Requests in ADD

Users may enter new requests by selecting the “Enter New Requests” option in the ADD link box. The following screen, within the DSS page, will appear:

Select Format Type for New Request

Format Type	Release	Effective Date
Daily Customer Statement V2.0	2.0	08/30/2004

Format Type Description : Daily Customer Statement Version 2.0 is the Daily Customer Statement file format. This file format includes updates to support changes to Customer Settlement data resulting from SMD 2.0. This file format can be run for billing days both pre and post the SMD 2.0 effective date.

Format Type	Release	Effective Date
Hourly Customer Statement V2.0	2.0	08/30/2004

Format Type Description : Hourly Customer Statement Version 2.0 is the Hourly Customer Statement file format. This file format includes updates to support changes to Customer Settlement data resulting from SMD 2.0. This file format can be run for billing days both pre and post the SMD 2.0 effective date.

Format Type	Release	Effective Date
FERC EQR Transaction File V1.0	1.0	02/01/2005

Format Type Description : FERC EQR Transaction File is a comma separated value file which contains reportable transactions in the Electric Quarterly Report that is filed with the Federal Energy Regulatory Commission. The records in the file are limited to Energy and Ancillary Services transactions where the New York Independent System Operator is the counterparty to the organization requesting the file. The file is uploadable into the FERC EQR software. For more information on the FERC EQR process, please visit FERC.gov.

Figure 2

The three format types available - Daily Customer Statement V1.0 , Hourly Customer Statement V1.0, and FERC EQR Transaction File V1.0 - present data on an hourly, daily, or monthly level.[1] In order to enter a request, users may select one of the format types. For instance, if the Daily Customer Statement were to be selected, the following screen would appear:

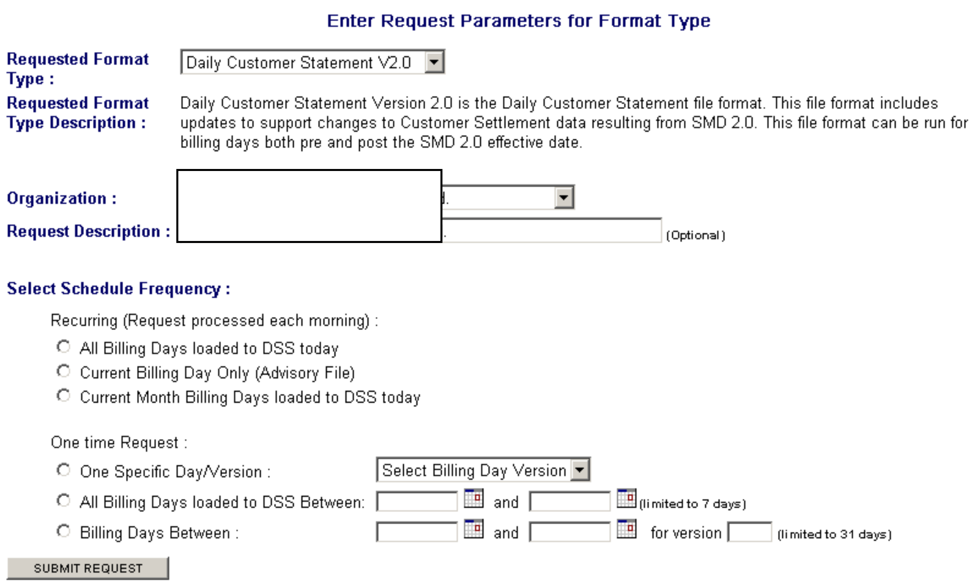

Figure 3

Utilizing this screen, users may select specific request parameters based on the format type (Daily or Hourly). The top of this screen (Figure 3) displays the identical metadata (format descriptions) offered in the “Select Format Type for New Request Screen” (Figure 2). Users may next select their company or organization from the menu drop-down box in the parameter labeled

[1] Market Participants should note that the functionality associated with FERC EQR reports is described in Technical Bulletin 139.

"Organization." Market Participants should note that the list of available organizations is dependent upon user log-in; users will only see those organizations for which they have been authorized Customer Settlements access by the organization's DSS administrator. Users should title requests using the optional "Request Description" parameter as this will help to identify requests when requests are viewed or modified later.

The next parameter "Select Schedule Frequency" is split into two categories. The "Recurring" option creates requests which are executed each morning immediately following the daily load of data. The "One Time Requests" option initiates requests that occur on a one-time basis – at the time the request is submitted. Within each option, three radio buttons allow for further levels of granularity for requests.

Selecting any of the three radio buttons under "Recurring" will result in one or more reports being sent to a user's ADD account on a *daily* recurring basis.

Under the "Recurring" option, the first radio button "All Billing Days loaded to DSS today" creates a file for each billing day, regardless of date or settlement version that has been loaded into the DSS on the date the request is run.

The second radio button limits requests to the most current advisory files available in the DSS. These advisory files contain data for settlement versions two days prior to the day of the request. For example, a request executed on the 10^{th} of the month would produce a file containing data for the 8^{th} of the month.

The last radio button limits requests to settlement versions, from the current month, that have been loaded into the DSS on the date the request is run. In this case, the user would receive all days loaded to the DSS on the day the request is run for the current calendar month *and* the prior not yet invoiced month. For example, if the request was run on May 7^{th}, then the user would receive files for May 1st-5^{th}, and files for any April days that were added to the DSS on May 7th.

Selecting any of the three options under the "One Time Request" parameter will result in one or more files that will be created at the time of the request. The first option results in a file for one specific billing day and version number. The billing day version is selected through the adjacent drop-down menu.

The second radio button "All Billing Days Loaded to DSS Between:" results in a one-time request producing files for each billing day and settlement version loaded into the DSS between specific dates. Users may indicate these dates by selecting either of the two calendar icons next to the parameter. These requests are limited to a seven-day date range.

The last radio button allows users to specify a range of billing days for a single version number, limited to a 31-day date range.

After defining these parameters, users may select the "Submit Request" at the bottom of the screen (Figure 3). The following message will appear at the top of the screen: "You have successfully submitted your request."

Retrieving Files

Subsequent to entering a new request, users may access the resulting files through the “Retrieve Files” link of the ADD link box.

If the Retrieve Files screen is accessed prior to the completion of a new request, the following message will be displayed: "The NYISO is currently processing your requests. In order to see your file list please click on 'Refresh List' link in Retrieve Files Links. Thank you for your patience." After requests have been successfully processed by ADD the following screen will appear:

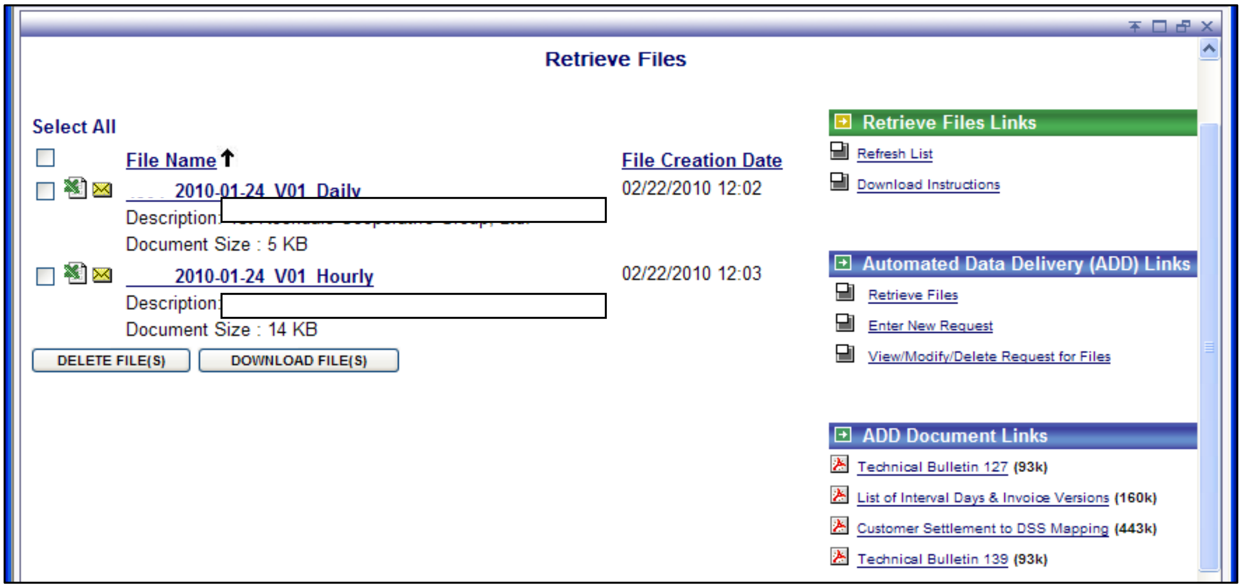

Figure 4 (updated)

This screen provides the list of all files available to a specific user. The naming convention used to denote files is as follows: (Org ID)_(Date: Year Month Day)_(Billing Version Number)_(Format Type: Daily or Hourly). By clicking on the file name, users have the option of either saving the file locally or opening it within the browser. Users experiencing difficulties while downloading files should select the “Download Instructions” in the list of links on the right; this option will provide a pop-up display that describes how to reconfigure IE to download files. When users select a file by clicking on the title, a pop-up box will ask if the user wants to open or save the file. Users may delete files by selecting the check boxes adjacent to the file name and then selecting the delete button at the bottom of page. To delete all the files that appear on the Retrieve Files screen, users may choose the “Select All” button at the top of the page and then press “Delete Files.”

Users may download any of the files appearing on the Retrieve Files screen to their local drive in zip format. To download files, users may either select individual files by clicking the check box next to the file name or select all the files on the screen by clicking the “Select All” box. After specifying the files users should click the “Download Files” button at the bottom of the screen. The user will be prompted to save the file(s) and specify the file location.

The column headers “File Name” and “File Creation Date” are used to organize and arrange the file list on the “Retrieve Files” screen. In figure 4, the upward facing arrow directly to the right of the “File Name” column indicates that the files are arranged in ascending alphabetical order. Clicking on the arrow would rearrange the files in descending alphabetical order. Selecting the

"File Creation Date" column would order files by date. The arrow can be similarly used to arrange files by ascending or descending date.

While in the "Retrieve Files" screen, users will also see the following link directly below the ADD link box. Clicking on this link will refresh the list of files to incorporate new files:

Figure 5 (updated)

Users should note that after a file is opened, it remains within the user's ADD retrieved files list only through the end of that day. The envelope icon adjacent to the file name denotes an unopened request. Any unopened files will remain viewable in the ADD retrieved files list for 21 days.

Users may confirm the status of a "Retrieve Files" request through the "Session Status" box on the left-side of the DSS Home screen. As the system is processing requests, the ADD File Status will display the following message, "Your ADD requests are currently being processed." After files are retrieved, the message will read, "Your ADD requests are complete."

<u>Viewing, Modifying, or Deleting Requests for Files</u>
Users may view parameters, modify parameters, or delete requests for files. These options apply towards requests for files rather than the files themselves. Files may be deleted directly from the Retrieve Files screen. This ability to view, modify, or delete requests is available through the "View/Modify/Delete Request for Files" option of the ADD link box. Selecting this option produces the following screen:

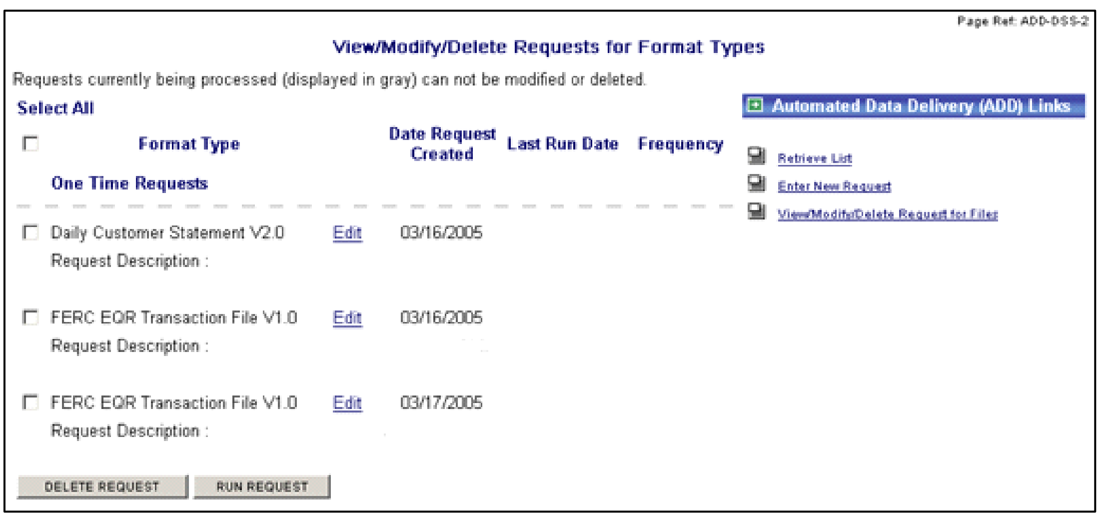

Figure 6

If the "Edit" function is selected in Figure 6, the "Modify Request Parameters for Format Type" screen (Figure 3) appears. However, when modifying parameters through the "View/Modify/Delete Request for Files" screen, the "select schedule frequency" parameter will be limited only to those radio buttons for the schedule frequency requested. In other words, if the schedule frequency is recurring, the three radio buttons for recurring requests appear; if the format type is one time, only the three radio buttons for one time requests appear (Figure 3).

Users may cancel any future executions of a request by first selecting the check box adjacent to the format type and then selecting the "Delete Request" button at the bottom of the page. By utilizing the "Select All" option at the top of the screen in figure 6 and then choosing the "Delete Request" button, users may delete all requests.

Users may re-run requests by selecting the check box adjacent to the format type and clicking the "Run Request" button.

System Automation for File Retrieval from ADD

Market Participants may also access the DSS ADD through automated/ third party systems rather than the browser interface described above. The following describes two options for 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. These conditions apply to each of the options described below.

Option A – Comma Delimited List of ADD Files

This option may be utilized by selecting the following url:

https://dss.nyiso.com/dss/login.jsp?user=****&pass=****&automated=2

This URL redirects the automated process to the "Retrieve Files" page (Figure 4). Market Participants should use their actual DSS userid and password in the place of user=****&pass=****)

The above URL will return a comma delimited list of Document Ids, Document Names, and the date that the files were generated in ADD.

To retrieve the individual file content for each file, the automated process used to access the comma delimited list must retrieve the Document Names and Document IDs from that list, and substitute them into the following URL:

https://dss.nyiso.com/dss/docViewAGN.jsp?RepoType=I&ID=XXXX&DocName=XXXXXXXX&entry=&DocType=csv

The comma delimited list will be in the following format. Document IDs and Document names are highlighted in red.

12345, 9876_2004-06-05_V00_Daily,06/08/2004 14:23
23456, 8765_2004-06-05_V00_Hourly,06/04/2004 14:23

Optionally, users may retrieve and then delete files through the automated process. The string "&delete=1" is an optional parameter for users wishing to first retrieve and then delete files and may be utilized through the following URL:
https://dss.nyiso.com/dss/docViewAGN.jsp?RepoType=I&ID=XXXX&DocName=XXXXXXXX&entry=&DocType=csv&delete=1\

All users should note that subsequent to retrieving files, they must log-out of the automated environment with the following the following URL:

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

Option B – HTML Source Code for the ADD "Retrieve Files" Page

This option redirects the automated process to the "Retrieve File" page (Figure 4) and may be accessed through the following URL:

https://dss.nyiso.com/dss/login.jsp?user=****&pass=****&automated=1

Again, MPs should use their actual DSS userid and password in the place of user=****&pass=****.

After successful authentication, the above URL will return the html source code for the Retrieve Files Page. This contains all of the information needed to retrieve the csv file content – particularly the Document Name, and Document ID for each file.

Individual file content may be retrieved by parsing the Document Names and Document Ids from the html source code and substituting the names and IDs into the following URL:

https://dss.nyiso.com/dss/docViewAGN.jsp?RepoType=I&ID=XXXX&DocName=XXXXXXXX&entry=&DocType=csv

The retrieved source code will appear in the following format. The document name and document ID are highlighted in red.

```
 </td>
                    <td ALIGN="LEFT"><a
HREF="docViewFrameTop.jsp?docUnread=true&add=1&sID=12345&sRepoType=I&sDocName=9876_2004-06-05_V00_Daily&sDocType=csv&Back=toDocList" target="_top"><FONT face=arial
COLOR=CC0033>9876_2004-06-05_V00_Daily</font></a> <br>
                    <font face="Arial" SIZE="-1">Description: Organization Name</font>
                    <br>
                    <font size=-1 face=arial>Document Size : <i>2 K</i>   
```

For more information relating to options for programmatic access to ADD files, please refer to Attachment 1 of this Technical Bulletin.

Market Participants with any questions regarding customer settlement files availability through the DSS ADD should contact NYISO Customer Relations via telephone at (518) 356-6060 or via email at market_services@nyiso.com

The NYISO anticipates that this Technical Bulletin will be rolled into the forthcoming DSS User Guide.