Load Forecast Upload

Overview

- MISO created a tool to enable registered external entities to upload daily medium-term load forecast (MTLF) files.
- This tool will replace current processes to upload such files through MISO's FTP server.
- Load forecast file name and data specifications are not changing.
- Access procedures require a digital certificate and associated role to be provisioned by your company's Local Security Administrator (LSA).

Obtaining Access to Load Forecast Upload

The registered Local Security Administrator (LSA) within your organization can provision access to Load Forecast Upload. To provision access to the new tool, the LSA must use the Self-Service LSA (SSLSA) tool and add the following role to a user with a valid certificate:

- **Load Forecast (submit)**

Navigating to Load Forecast Upload

Once the role has been provisioned, the user can access Load Forecast Upload by navigating to the **Load Forecast Submission** card on the Market Portal landing page.

To access the tool, simply select the **Upload** link from the Load Forecast Submission card.

Load Forecast Submission

Allows Local Balancing Authorities to view and upload daily medium-term load forecast (MTLF)

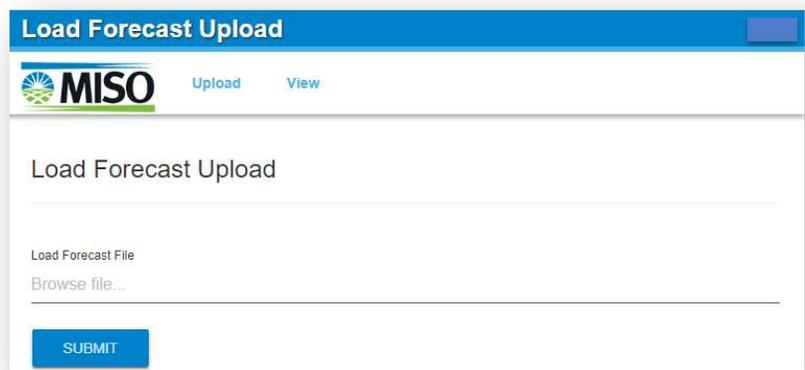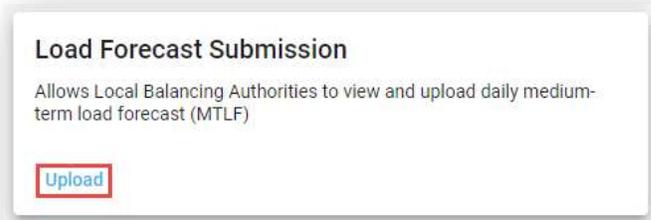Upload

Uploading Your Files

To upload your MTLF files, click on **Browse file**. This will open a file selector where you can choose the file you wish to upload.

Once your file is selected, click **Submit**.

Load Forecast Upload

MISO   Upload   View

Load Forecast Upload

Load Forecast File
Browse file...

SUBMIT

File Validations

Files are validated at time of file upload. If your file is successfully uploaded, you will receive a green success message.

If there are errors, a red message box will include a reason(s) why the file was not uploaded. See section on *File Validation Messages* for more detail.

[lf001___2020070905CDT00.txt] The file has been successfully uploaded!

File has not been uploaded for the following reason(s):

[lf001___2020070914CDTv2.txt] Version should be numeric

MISO

Viewing Submitted and Processed Files

To view submitted and processed files, select **View** from the tool menu. The **Load Forecast Upload** page will list available files.

From the view page, selecting the column headings will sort the files. Additionally, you can change the number of files shown as well as filter by the upload date of your file. Below is an example of the screen.

Load Forecast Upload

MISO   Upload   View

Load Forecast Upload

Show 10 entries   Search

FILTER BY FILE DATE

File Name	File Date	Status
lf001 ¨ 2020120701CDT11.txt	Dec 07 2020	Incoming
lf001 ¨ 2020070909CDT00.txt	Jul 09 2020	Incoming
lf001 i2020070907CDT00.txt	Jul 09 2020	Incoming
lf001 2020070903CDT00.txt	Jul 09 2020	Incoming
lf001 2020030512CDT02.txt	Mar 05 2020	Incoming
lf001 i2020030512CDT03.txt	Mar 05 2020	Incoming
lf001 2020030412CDT01.txt	Mar 04 2020	Incoming
lf001 i2020030312CDT00.txt	Mar 03 2020	Incoming
lf001..... 2020030312CDT01.txt	Mar 03 2020	Incoming
lf001 2020030312CDT02.txt	Mar 03 2020	Incoming

Showing 1 to 10 of 27 entries

Previous 1 2 3 Next

File Status

Files will be displayed with several status values. Those values are described below.

Status	Description
Incoming	Files that have been uploaded but not processed by MISO.
Received	Files that are currently being processed by MISO.
Sent	Files that were processed successfully by MISO.
Error	Files that encountered an error during processing that was not validated at time of file upload. The Load Forecast team will reach out to entities regarding files in this status.

File Validation Messages

As mentioned, the application includes validation at the time of upload. Below is a summary of those validations.

File Name	• File must follow specified file name format = fffffxxxxYYYYMMDDHHZZZVV.txt
	
	  fffff — must start with lf001*
	  xxx — NERC ID, up to 4 letters, use _ to make up if NERC ID length less than 4
	  YYYMMDDHH — Year(4), Month(2), Day)2) and hour(2) (digits)
	  ZZZ — Time zone
	  VV — Version number (2 digits)

File Type	• File must be .txt format
File Contents	• File cannot be empty

If approved by MISO, file names may also begin with lf000, or pl000

Load Forecast Upload: Programmatic Upload

Summary

The Load Forecast Upload application includes a REST API to submit files. Endpoint uses appropriate HTTP Status codes to communicate results.

Authentication and MRH Cookie Handling

All programmatic calls to the API require authentication using a digital client certificate, provisioned with proper access (see "Obtaining Access to Load Forecast Upload" above). We encourage following these authentication best practices:

- Use one MRH Session cookie
- Do not allow re-directs
- Get a new cookie every 25 minutes
- If a status code 302 is returned, request another cookie
- Set User Agent to any string that is not a browser

Submit File(s)

The submit endpoint accepts multipart/form-data where the files are submitted under the form key "files".

HTTP	URL	Accepts	Produces
POST	https://markets.midwestiso.org/lbaloadforecast/api/file	multipart/form-data	application/json

Sample Responses:

Error

```
[
    {
        "fileName": "001nerc2020070903CDT00.txt",
        "messages": [ ],
        "errors": [
            "Unable to parse file information from file name. Load Forecast file name
            must be 24 characters long and follow this format fffffxxxxYYYYMMDDH
            HZZZVV.txt."
        ]
    }
]
```

Success

```
[
    {
        "fileName": "lf001nerc2020070903CDT00.txt",
        "messages": [
            "The file has been successfully uploaded!"
        ],
        "errors": [ ]
    }
]
```

MISO