



Managing Transmission Line Ratings

Technical Rating Communication implementation workshop

Various



Agenda

3:00-3:10 p.m.

Review Project milestones and open questions

Magaly Barajas-Roman

3:10 p.m.-3:15 p.m.

Review of Sandbox access

Mark Phelps

3:15 p.m.-3:30 p.m.

Review of Sandbox release

Mark Phelps/Joshua Bauer



HIGH LEVEL PROJECT MILESTONES



MTLR Limit Exchange Portal (LEP) External Milestones

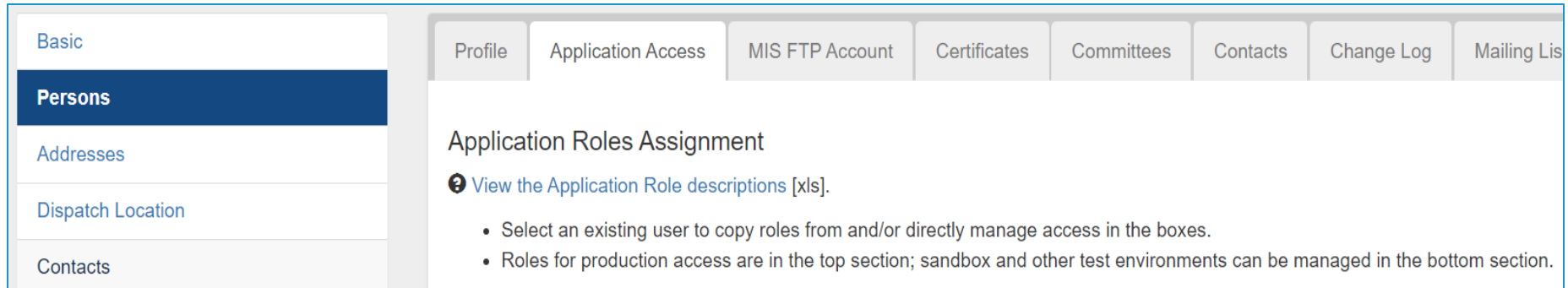
	Key Dates	Functionality
LEP Operation(UI/API)	Oct. 18, 2024	Sandbox available with APIs, AARs, Seasonal Ratings, Temporary Ratings exceptions
LEP Operation	January 31 st , 2025	Sandbox update to include Local Transmission feature and UI bug fixes, if needed;
NX	TBD	Sandbox available
LEP Historical(Cloud)	TBD	Sandbox available
FERC 881 deadline	TBD	

[Refer to page:FERC Order No. 881: Managing Transmission Line Ratings \(MTLR\) \(iso-ne.com\)](https://www.iso-ne.com/ferc-order-no-881-managing-transmission-line-ratings)



Assign Power System Limits Exchange Portal (LEP) Sandbox Roles to Users

Security Administrators (SAs) can assign the LEP operational sandbox roles to users that will perform testing for their company. To assign the roles, access the Application Roles Assignment screen from the Persons Application Access tab.

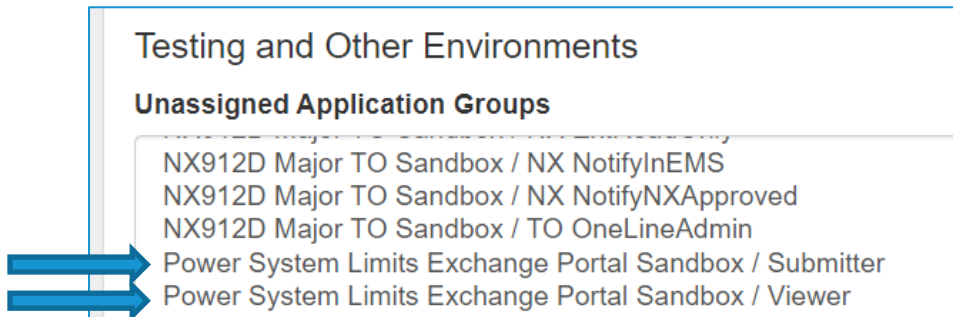


The screenshot displays the LEP application interface. On the left is a sidebar with navigation links: Basic, **Persons**, Addresses, Dispatch Location, and Contacts. The 'Persons' link is highlighted. The main content area has a tabbed interface with the following tabs: Profile, Application Access, MIS FTP Account, Certificates, Committees, Contacts, Change Log, and Mailing List. The 'Application Access' tab is selected. Below the tabs, the page title is 'Application Roles Assignment'. Below the title is a link: [View the Application Role descriptions \[xls\]](#). Below the link are two bullet points:

- Select an existing user to copy roles from and/or directly manage access in the boxes.
- Roles for production access are in the top section; sandbox and other test environments can be managed in the bottom section.

Assign Power System Limits Exchange Portal (LEP) Sandbox Roles to Users (cont.)

SAs assign the LEP sandbox roles from the Unassigned Application Groups section of the page:



- Power System Limits Exchange Portal Sandbox / Submitter – submits ambient adjusted ratings (AARs) compliant with FERC Order No. 881 requirements.
- Power System Limits Exchange Portal Sandbox / Viewer – views submitted ambient adjusted ratings (AARs).



Assign Power System Limits Exchange Portal (LEP) Sandbox Roles to Users (cont.)

- SAs notify the users they grant access to the LEP sandbox and which role they have been assigned.
- Access will bridge to the user's digital certificate **BY THE BUSINESS DAY FOLLOWING** the role assignment.
- Users can access the [Introduction to Transmission Ratings and Operating Limits Information Exchange \(TROLIE\)](#) technical introduction to view information presented by GE Grid Solutions, the Linux Foundation, and the Midcontinent Independent System Operator (MISO) to learn more about the LEP application.
- View project information on the [FERC Order No. 881: Managing Transmission Line Ratings project page](#).



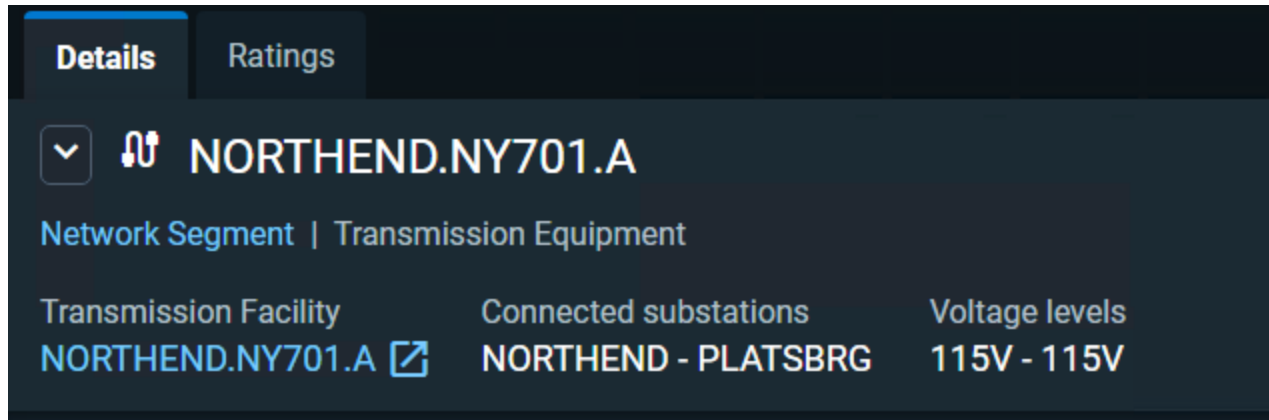
CORRECTIONS IN NEXT RELEASE TO SANDBOX

High level changes that will be in the next release to Sandbox



Corrections to database and code

- Not all of the changes will be visual
- Example of a change that is visually presented:
 - Correctly presenting ISO-NE EMS station names:



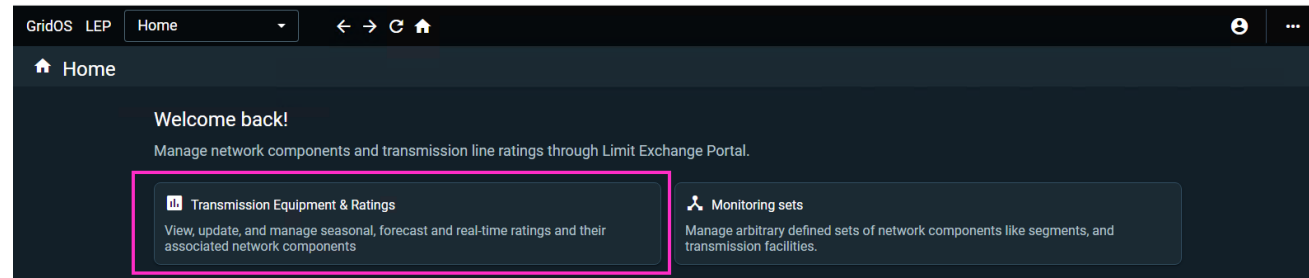
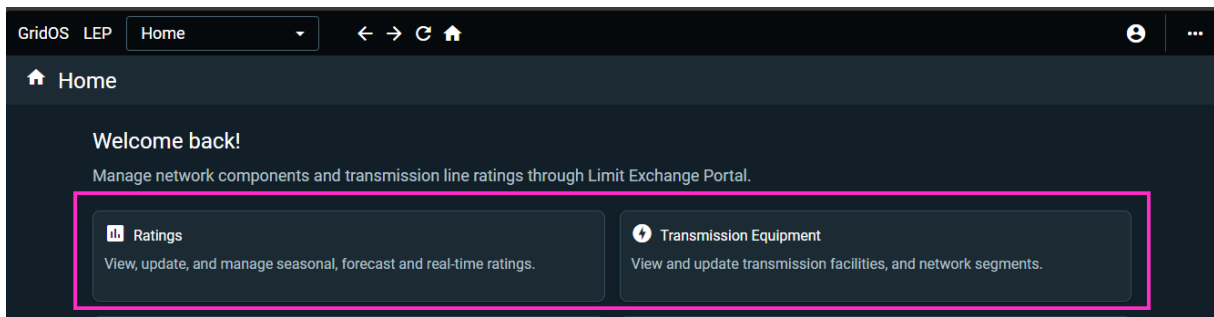
The screenshot shows a web interface with two tabs: 'Details' (selected) and 'Ratings'. Below the tabs, there is a dropdown menu with a downward arrow, a red and white icon, and the text 'NORTHEND.NY701.A'. Underneath this, it says 'Network Segment | Transmission Equipment'. At the bottom, there are three columns of information: 'Transmission Facility' with the value 'NORTHEND.NY701.A' and an external link icon, 'Connected substations' with the value 'NORTHEND - PLATSBURG', and 'Voltage levels' with the value '115V - 115V'.

Transmission Facility	Connected substations	Voltage levels
NORTHEND.NY701.A ↗	NORTHEND - PLATSBURG	115V - 115V



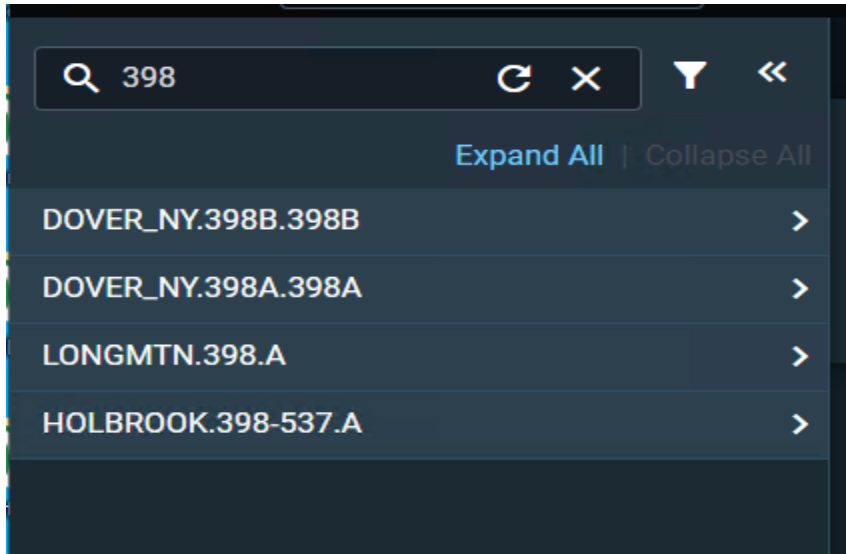
2 displays merged into 1

- Transmission Equipment and Ratings displays combined into one



Corrections and enhancements to filtering

- On the Transmission Facility and Ratings display you can enter in a just a line name and it will populate the full results.
 - There are still more enhancements coming.



Forecast Ratings can be entered via the UI

Seasonal **Forecast** Real-Time

Default
0

Invalid
0

Missing
288

Overwritten
0

No Filters Applied Advanced Filters 🔍 ⋮

Period Start ↑

Normal

LTE

STE

DAL

▼ 01/29/2025 ⚠️ 11 missing rows

13:00					ⓘ
14:00					ⓘ
15:00					ⓘ
16:00					ⓘ
17:00					ⓘ
18:00					ⓘ
19:00					ⓘ
20:00					ⓘ
21:00					ⓘ
22:00					ⓘ
23:00					ⓘ

> 01/30/2025 ⚠️ 24 missing rows

> 01/31/2025 ⚠️ 24 missing rows

> 02/01/2025 ⚠️ 13 missing rows

Rows: 72

Columns

Filters

KNOWN ISSUES

These are some of the issues ISO-NE is aware of and GE is working to correct

Multiple issues with Seasonal Ratings

- Some equipment will either show no Seasons or test data for only 9 Seasons

The screenshot shows a web application interface with a dark theme. At the top, there are three tabs: 'Seasonal' (selected), 'Forecast', and 'Real-Time'. Below the tabs, there are four filters: 'Default' (0), 'Invalid' (0), 'Missing' (0), and 'Overwritten' (0). Below the filters, it says 'No Filters Applied'. The main table has a header with 'Season' and 'Normal'. The table body is empty, with the text 'No rows to display' at the bottom.

Season	Normal
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The screenshot shows a web application interface with a dark theme. At the top, there are three tabs: 'Seasonal' (selected), 'Forecast', and 'Real-Time'. Below the tabs, there are four filters: 'Default' (36), 'Invalid' (0), 'Missing' (12), and 'Overwritten' (0). Below the filters, it says 'No Filters Applied'. The main table has a header with 'Season', 'Normal', 'LTE', 'STE', 'DAL', and a column with circular icons. The table body contains 12 rows of data for the months of the year. The 'Rows: 12' indicator is at the bottom.

Season	Normal	LTE	STE	DAL	
January	289	335	335	390	○
February	288	334	334	389	○
March	287	333	333	388	○
April	285	331	331	386	○
May	284	330	330	385	○
July	283	329	329	384	○
August	284	330	330	385	○
October	286	332	332	387	○
November	288	334	334	389	○
June					○
September					○
December					○

AAR Exemptions and Nominal Ratings

- Both AAR Exemption and Nominal Ratings are on the incorrect level in the database and UI. They are getting moved to the Network Segment level.

The screenshot shows a web application interface with a dark theme. On the left is a sidebar with two items: 'Transmission Facility' (highlighted with a red border) and 'Network Segment' (highlighted with a green border). The main content area is divided into two sections:

AAR Exemption (with an information icon):

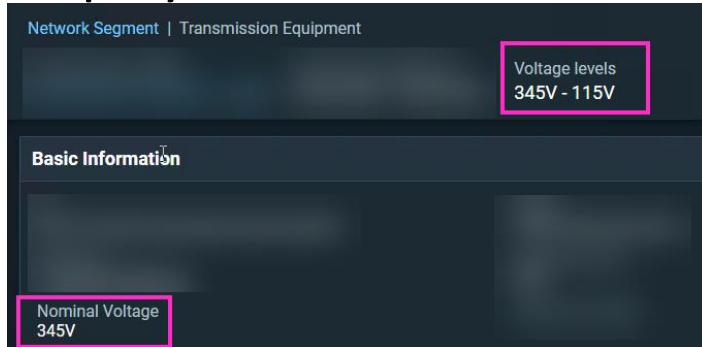
- AAR Exempt: ☐ Disabled
- * Expiration: Select an expiration date (MM/DD/YYYY)
- * Reason: (empty text field)

Nominal Ratings (with an information icon):

* Normal	* LTE
221	284
MVA	MVA
* STE	* DAL
288	288
MVA	MVA

Other known issues GE is working on

- Incorrectly accepts Zero
 - Number should be greater than Zero
- Data entry logic issues
 - Missing validation and logic for multiple items
- Displays show V when it should be kV.



Questions

