



Managing Transmission Line Ratings

Technical Rating Communication implementation workshop

Various



Agenda

3:00 – 3:10 pm

High-Level Project Milestones

Magaly Barajas-Roman

3:10 pm - 3:30 pm

LEP Operations Update

Mark Phelps / Raj Sivakumar / Joshua Bauer

3:30pm – 3:40pm

LEP User Guide

Mark Phelps / Raj Sivakumar / Joshua Bauer

3:40pm – 4:00pm

Questions



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;
LEP Operation	7/31/2025	Additional bug fixes and functionality; Will depend on vendor delivery quality.
NX	TBD	Fully functional Sandbox
LEP Historian(Cloud)	TBD	
FERC 881 deadline	Q4 2026	Filing date is December 15, 2026

•Future mtgs: June 25, 2025, August 27, 2025, October 29, 2025



LEP OPERATIONS



Update to LEP Sandbox

- Late July LEP Sandbox will be updated with the latest LEP release from GE
 - The LEP User Guide that will be posted to the Project webpage is based on this release.
- This release will have significant updates to the UI and the code to address defects.
 - The changes to the UI make it more intuitive to use.



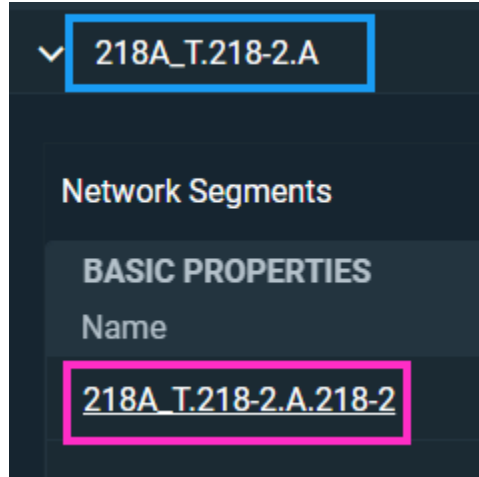
Functionality added/fixed

- Submit Seasonal Ratings Proposals via UI or API
- Get Seasonal Rating snapshots via API
- Submit real time ratings via API
- Submit Scenario Ratings via UI or API
- Set AAR Exemption status to Exempt via UI or API
- Enter Temporary Ratings via UI or API



Other notable changes

- The NETMOMCompositeld was changed to make it unique for every Network Segment
 - The format is the Transmission Facilities' NETMOMCompositeld (in blue box) with the EQID for the segment (in pink box) added to the end.



A screenshot of a software interface. At the top, a dropdown menu is open, showing a checkmark icon and the text '218A_T.218-2.A', which is enclosed in a blue rectangular box. Below the dropdown, the text 'Network Segments' is displayed. Underneath, there is a section titled 'BASIC PROPERTIES' with a sub-label 'Name'. The text '218A_T.218-2.A.218-2' is entered into the text field and is enclosed in a pink rectangular box.



Other notable changes (continued)

- Can now use Aliases for “resource-id”
 - NX_ERN: this is the associated NX9 Equipment Reference Number.
Possible non-unique situations:
 - 3 winding transformers
 - Equipment with topology based rating (i.e., Terminal CBs)
 - Directional based
 - ParticipantEquipID: this is provided by the Participant on the NX9 form.
 - This field is not reviewed for uniqueness.
 - CIMMRID: currently comes from the upload into LEP process. Could change with a new model deployment to LEP
 - This issue will be addressed later, not in 2025.



LEP USER GUIDE

Introduction

- The LEP User Guide will be posted on the project webpage
- There will also be a few files added that provide payload requirements and examples for some non-TROLIE based items
- Reminder: this guide is based on the LEP software being released at the end of July to the Sandbox environment



Topics covered

- Description of the data that needs to be entered by a Ratings Provider
- Identification of parameters used in LEP REST API requests
- Guidelines for creating a commonly used API submission (entering data into LEP)
- Get effective rating snapshots from LEP
- Navigating and using the LEP UI



Power System Limits Exchange Portal (LEP)

Sample Client Programs

[Power System Limits Exchange Portal \(LEP\) Sample Client Programs in Java](#) for API calls are available on the ISO website under the Upload and Download File Format Protocols section. The files include these API samples:

GET calls

- Monitoring set by ID
- Transmission Facilities
- Transmission Facility ID
- Voltage Levels

[Monitoring Sets](#) (CRUD ops)

- PUT (update)
- POST (create)
- DELETE
- GET

PATCH (partial update)

- [Forecast Rating Proposal](#)



Questions

