



Managing Transmission Line Ratings

Technical Rating Communication implementation workshop

Various



Agenda

3:00 – 3:10 pm

High-Level Project Milestones

Mark Phelps

3:10 pm - 3:30 pm

LEP API Sample Code

Mark Phelps / Raj Sivakumar

3:30pm – 3:35pm

LEP Sandbox Access Reminder

Mark Phelps / Heather Latka

3:35pm – 3:40pm

Other Updates / Ongoing Efforts

Mark Phelps

3:40pm – 4:00pm

Clarifications

Joshua Bauer / Raj Sivakumar



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	TBD	Additional bug fixes and functionality; Will depend on vendor delivery quality.
NX	7/11/2025	Fully functional Sandbox
LEP Operation	7/31/2025	Fully functional Sandbox available
LEP Historian(Cloud)	TBD	
FERC 881 deadline	TBD	

Q: What is cadence of working group meetings going forward in light of extension?



LEP API SAMPLE CODE



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](#)

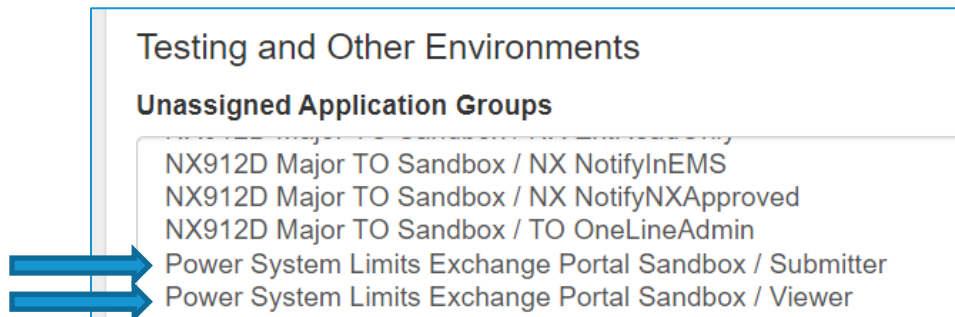


LEP SANDBOX ACCESS REMINDER



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

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](#).



OTHER UPDATES / ONGOING EFFORTS



Other Updates / Ongoing Efforts

- The “Ratings” tab had been enabled for both LepReadWriteUser (submitter) and LepReadOnlyUser (viewer) roles in Sandbox
- We are actively working on creating a “User Guide” / FAQ



CLARIFICATIONS

Provide some clarifying information about what to use when constructing some RESTAPI submissions



What should you use

- “resource-id” – In the RESTAPI on the Headers tab under “X-LEP-Name-Type” it is set to “NETMOMCompositeId”



- This is the ISO-NE NETMOM Composite ID
- Found using the Get Network Segments or Get Network Segments ID queries

GET Get Network Segments	208629	1	"type": "NETMOMCompositeId",
	208630		"name": "LONGMTN.398.A"
GET Get Network Segment by ID	208631		
	208632	7	



What should you use

- “provider” – this would be the customer ID from CAMS associated with the “Participant” on the NX9 form. Examples:
 - Eversource Energy Service Co: **112**
 - New England Power Company: **81**
 - NSTAR Electric Company: **3**
 - Central Maine Power Company: **6**
 - The Narragansett Electric Comp: **156**
 - Vermont Transco LLC: **50853**
 - Connecticut Light and Power Co: **50092**
 - United Illuminating Company_ T: **181**



What should you use

- “authority” – This is the name of the modeling authority set. For Sandbox LEP, it is “ISONE”.
 - Can be identified using Get Model Authority Sets
 - NOTE: emp60 should not be used, it is the one that came with LEP
- “origin-id” – Have not found any specific requirements for this field in the TROLIE specs.
 - For Forecast Proposals I use: <https://pslep-sbx.iso-ne.com/lep-operations/rating-proposals/forecast>
 - For Seasonal Proposals I use: <https://pslep-sbx.iso-ne.com/lep-operations/rating-proposals/seasonal>



NX Application to LEP correlations

```
"names": [  
  {  
    "type": "ParticipantID",  
    "name": "513-507"  
  },  
  {  
    "type": "NXID",  
    "name": "513-507/D156-BE"  
  },  
  {  
    "type": "NX_ERN",  
    "name": "4597"  
  }  
]
```

Equipment Search						
Equipment Reference Number	Participant ID	Participant	Reference Number	Participant Equipment ID	ISO Equipment ID	ISO EMS ID
4597	3	NSTAR Electric Company	4597	513-507	513-507/D156-BE	513-507/D156
4602	3	NSTAR Electric Company	4602	478-502-4	478-502-2-BE	478-502-2
4724	81	New England Power Company	4724	U2	U2-2	U2-2
4725	81	New England Power Company	4725	U2	U2-1	U2-1
4731	81	New England Power Company	4731	X-24W	X-24W-1B	X-24W-1
4625	3	NSTAR Electric Company	4625	478-503	478-503-3-OH	478-503-3

Available Alternate Identifiers

- Use Get Network Segments to identify the different “names” that can be used as “alternate-identifies”. Worthwhile ones:
 - "type": "ParticipantID"
 - "type": "NXID"
 - "type": "NX_ERN"
 - "type": "CIMMRID"
- There are others, but they are not useful.



Time components in Forecast Proposal

- If creating a Forecast Proposal at clock time 1710 on 03/26/25, here is how to go about determining the time
 - “begins” – This should be the hour beginning time for the first period being provided
 - "begins": "2025-03-26T18:00:00-04:00",
 - First period start and ends:
 - "period-start": "2025-03-26T18:00:00-04:00",
 - "period-end": "2025-03-26T19:00:00-04:00",
- Required to submit all 72 periods for a Network Segment at the same time for them to be accepted

Questions

