



DR Hub Update

Demand Response Subcommittee
February 27, 2019

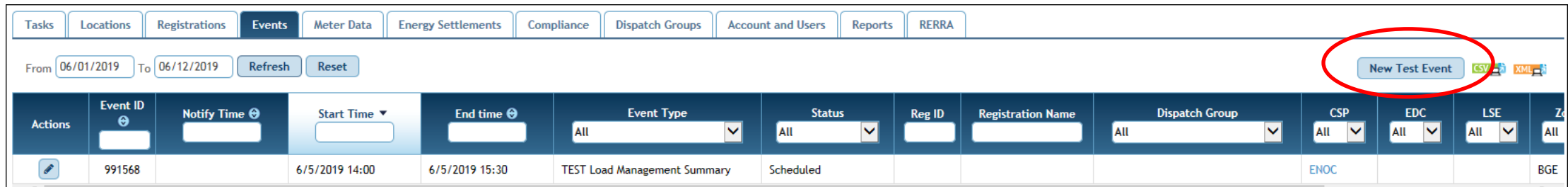
- Train: Feb. 28
- Prod: March 14
 - Load Management Test and Re-Test events scheduled by CSPs will create test events, with appropriate lead time, to be acknowledged through Web Services
 - Duplicate Registrations – terminated registrations will have new status to make it easier to identify and resubmit
 - Compliance Search screen .csv download


- Event Name Changes – make consistent with Load Management Event names

Current Test Event Name	New Test Event Name
Load Management Test	TEST Load Management Summary
Load Management Re-Test	RE-TEST Load Management Summary

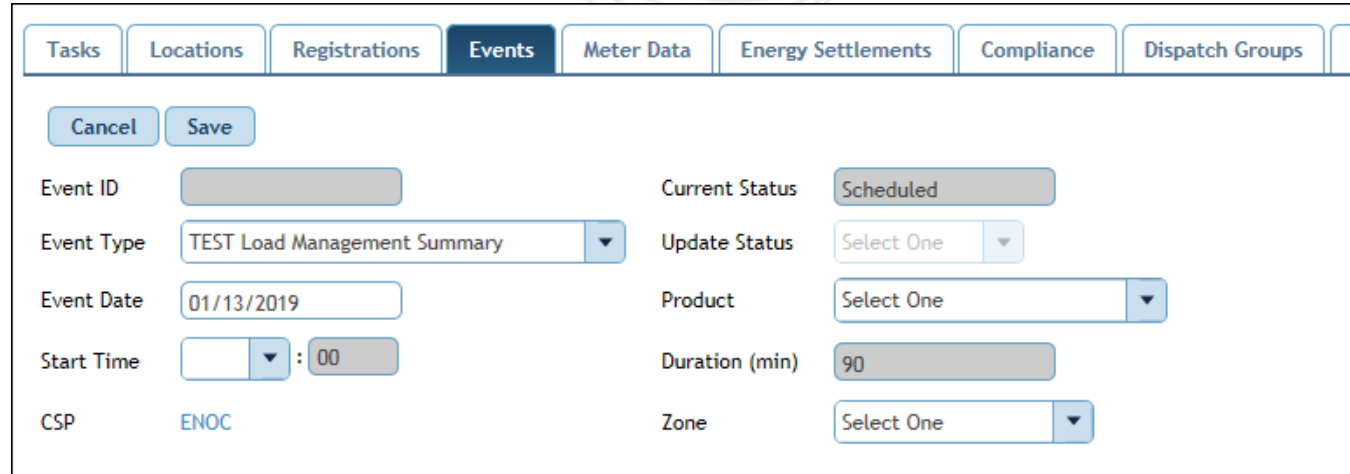
* New Event Type * Registration-Level Test Event
TEST Load Management
RE-TEST Load Management

- Create TEST and RE-TEST Load Management Summary events
 - Same as today, different Event Type name, new way to update status
- On Event tab, click New Test Event



Actions	Event ID	Notify Time	Start Time	End time	Event Type	Status	Reg ID	Registration Name	Dispatch Group	CSP	EDC	LSE	Z
	991568		6/5/2019 14:00	6/5/2019 15:30	TEST Load Management Summary	Scheduled				ENOC			BGE

- Select Event Type, Event Date, Product, Start Time, Product and Zone



The screenshot shows a web interface for scheduling events. At the top, there are navigation tabs: Tasks, Locations, Registrations, Events (selected), Meter Data, Energy Settlements, Compliance, Dispatch Groups, and Ad. Below the tabs are 'Cancel' and 'Save' buttons. The form contains the following fields:

Event ID	<input type="text"/>	Current Status	Scheduled
Event Type	TEST Load Management Summary	Update Status	Select One
Event Date	01/13/2019	Product	Select One
Start Time	<input type="text"/> : 00	Duration (min)	90
CSP	ENOC	Zone	Select One

- Note: “Current Status” is always grayed out. “Update Status” will have a dropdown when a status change can be done

- **“Scheduled”** – TEST or RE-TEST event has been created and start time is in the future. Date and Time may be changed up to 48 hours before event start time.
- **“Canceled”** – TEST or RE-TEST event can be canceled by CSP any time before event date, or status is Completed (not when status is Settled or Confirmed)
- **“Active”** – TEST or RE-TEST has reached it’s notification time but not the end time
- **“Completed”** – TEST or RE-TEST has ended
- **“Confirmed”** – CSP has confirmed the TEST or RE-TEST during the confirmation period
- **“Settled”** – compliance records have been created

TEST Load Management Summary event scheduled to start on 6/5/2019 at 14:00

Time on 6/5/2019	Action Taken
12:00	<ul style="list-style-type: none"> • TEST Load Management events are created for Long_120 Lead Time registrations • Start Time = 14:00 • Status = Active • CSP acknowledges TEST Load Management events • TEST Load Management Summary Status = Active
13:00	<ul style="list-style-type: none"> • TEST Load Management events are created for Short_60 Lead Time registrations • Start Time = 14:00 • Status = Active • CSP acknowledges TEST Load Management events
13:30	<ul style="list-style-type: none"> • TEST Load Management events are created for Quick_30 Lead Time registrations • Start Time = 14:00 • Status = Active • CSP acknowledges TEST Load Management events
15:00	<ul style="list-style-type: none"> • All registrations are released • End Time = 15:00 • CSP acknowledges all TEST Load Management events • All TEST Load Management events Status = Completed • TEST Load Management Summary Status = Completed

- Registration-level TEST Load Management event in progress

The screenshot shows the PJM system interface with the 'Events' tab selected. The event details are as follows:

- Event ID: 991717
- Event Type: TEST Load Management Event
- Event Date: 01/11/2019
- Notify Time: 1/11/2019 12:00
- Start Time: 1/11/2019 14:00
- End time: (empty)
- Status: Active
- Lead Time: Long_120
- Product: Capacity Performance
- Zone: PPL

Registration details:

- Reg ID: 1528796
- Registration Name: Lancair Shark IV
- CSP: ENOC
- EDC: PPL
- LSE: N/A

A table at the bottom right shows the event record:

Notify Time	Start Time	End time	Target kW	Acknowledged Date
1/11/2019 12:00	1/11/2019 14:00		551.6	

Records Per Page: 5 (1 of 1)

Annotations:

- 'Status is active' points to the 'Active' status field.
- 'Registration has Long Lead: Notify time is 2 hours before Start Time' points to the 2-hour gap between the Notify Time and Start Time.

- Registration-level TEST Load Management event ended

Tasks
Locations
Registrations
Events
Meter Data
Energy Settlements
Compliance
Dispatch Groups
Account and Users
Reports
RERRA

Cancel
Related Events

Event ID: 991717

Event Type: TEST Load Management Event

Event Date: 01/11/2019

Notify Time: 1/11/2019 12:00

Start Time: 1/11/2019 14:00

End time: 1/11/2019 15:00

Status: **Completed**

Lead Time: Long_120

Product: Capacity Performance

Zone: PPL

Reg ID: 1528796

Registration Name: Lancair Shark IV

CSP: ENOC

EDC: PPL

LSE: N/A

Notify Time	Start Time	End time	Target kW	Acknowledged Date
1/11/2019 12:00	1/11/2019 14:00	1/11/2019 15:00	0	
1/11/2019 12:00	1/11/2019 14:00		551.6	

Records Per Page: 5 (1 of 1)

Status is Completed

End Time is 1 hour after Start Time

No change in how/when Test and Re-Test events are confirmed and compliance records created

- Current Process *during Confirmation Period*:
 - CSP confirms 1 TEST Load Management Summary event per Zone/Product and optionally confirms 1 RE-TEST Load Management Summary event per Zone/Product
 - Compliance records are created overnight for eligible registrations
 - TEST Load Management Summary events - all registrations with Zone/Product with “Test Required” flag checked
 - RE-TEST Load Management Summary events - only registrations selected for the RE-TEST with “Test Required” flag checked
 - CSP uploads meter data

- The unsupported Web Services polling client will be updated to include the new endpoints for TEST and RE-TEST Load Management events

Purpose	New Endpoints
Download TEST and RE-TEST Load Management events that are acknowledgeable	/rest/secure/download/event/testloadmanagementevent/acknowledgeable
Acknowledge both TEST and RE-TEST Load Management events . Will accept the same downloaded acknowledgeable event file to acknowledge or a list of event IDs	/rest/secure/upload/event/testloadmanagementevent/acknowledge/ -file .\upload\testLoadManagementEvent-acknowledgeable_2019-01-04-184559.xml
Download TEST and RE-TEST Load Management events by event ID = 12345.	/rest/secure/download/event/download/event/testloadmanagementevent/12345
Download TEST and RE-TEST Load Management events within specified date range.	/rest/secure/download/event/testloadmanagementevent -q startDate=01-01-2019 -q stopDate=01-04-2019

Purpose	Renamed Endpoint	Former Endpoint
Creates a new TEST and RE-TEST Load Management Summary event	/rest/secure/upload/event/testloadmanagementsummary/ create -file filename	/rest/secure/upload/event/loadmanagementtestsummary/ -file filename
Updates an existing TEST and RE-TEST Load Management Summary event	/rest/secure/upload/event/testloadmanagementsummary/12345 - file filename	/rest/secure/upload/event/loadmanagementtestsummary/12345 - file filename
Downloads TEST and RE-TEST Load Management Summary events by ID	/rest/secure/download/event/testloadmanagementsummary/1102076	/rest/secure/download/event/loadmanagementtestsummary/1102076
Downloads TEST and RE-TEST Load Management Summary events by Date Range	/rest/secure/download/event/testloadmanagementsummary -q startDate=08-25-2015 -q stopDate=08-27-2015	/rest/secure/download/event/loadmanagementtestsummary -q startDate=08-25-2015 -q stopDate=08-27-2015

```
<!-- Existing format for Test LM Event Creation or Update -->
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loadManagementTestSummary xmlns:ns2="http://drhub.pjm.com/">
  <loadManagementTestEventInfo>
    <!-- Add Event Id to Update and Existing Test Event -->
    <eventId>12345</eventId>
    <eventDate>2019-02-05T05:00:00</eventDate>
    <eventType>LOAD_MANAGEMENT_TEST_EVENT</eventType>
    <startTime>16:00:00</startTime>
    <regProduct>CAPACITY_PERFORMANCE_DR</regProduct>
    <zone>AEP</zone>
  </loadManagementTestEventInfo>
</ns2:loadManagementTestSummary>
```

```
<!-- Revised format for Test LM Event Creation or Update -->
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:testLoadManagementSummary xmlns:ns2="http://drhub.pjm.com/">
  <testLoadManagementEventInfo>
    <!-- Add Event Id to Update and Existing Test Event -->
    <eventId>12345</eventId>
    <eventDate>2019-01-18T05:00:00</eventDate>
    <eventType>TEST_LOAD_MANAGEMENT_EVENT</eventType>
    <startTime>10:15:00</startTime>
    <regProduct>CAPACITY_PERFORMANCE_DR</regProduct>
    <zone>PSEG</zone>
    <!-- Status is Optional for Creation. Scheduled is Default -->
    <status>SCHEDULED</status>
  </testLoadManagementEventInfo>
</ns2:testLoadManagementSummary>
```

<!-- Existing format for Re-Test LM Event Creation or Update -->

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loadManagementTestSummary xmlns:ns2="http://drhub.pjm.com/">
  <loadManagementTestEventInfo>
    <!-- Add Event Id to Update and Existing Test Event -->
    <eventId>12345</eventId>
    <eventDate>2019-02-05T05:00:00</eventDate>
    <eventType>LOAD_MANAGEMENT_RETEST_EVENT</eventType>
    <startTime>16:00:00</startTime>
    <regProduct>CAPACITY_PERFORMANCE_DR</regProduct>
    <zone>AEP</zone>
    <reTestRegistrations>
      <reTestRegistration>123456</reTestRegistration>
    </reTestRegistrations>
  </loadManagementTestEventInfo>
</ns2:loadManagementTestSummary>
```

<!-- Revised format for Re-Test LM Event Creation or Update -->

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:testLoadManagementSummary xmlns:ns2="http://drhub.pjm.com/">
  <testLoadManagementEventInfo>
    <!-- Add Event Id to Update and Existing Test Event -->
    <eventId>12345</eventId>
    <eventDate>2019-01-18T05:00:00</eventDate>
    <eventType>RETEST_LOAD_MANAGEMENT_EVENT</eventType>
    <startTime>10:15:00</startTime>
    <regProduct>CAPACITY_PERFORMANCE_DR</regProduct>
    <zone>PSEG</zone>
    <!-- Status is Optional for Creation. Scheduled is Default -->
    <status>SCHEDULED</status>
    <reTestRegistrations>
      <reTestRegistration>123456</reTestRegistration>
    </reTestRegistrations>
  </testLoadManagementEventInfo>
</ns2:testLoadManagementSummary>
```



```
<eventSummary>
  <id>1568759</id>
  <eventSummaryInfo>
    <eventDate>2019-02-19T00:00:00.000-05:00</eventDate>
    <eventType>(TEST) Load Management Summary</eventType>
    <!-- notifyTime Not Included in a TEST / RE-TEST Response -->
    <notifyTime>2019-02-19T15:45:00.000-05:00</notifyTime>
    <startTime>2019-02-19T16:15:00.000-05:00</startTime>
    <endTime>2019-02-19T17:00:00.000-05:00</endTime>
    <status>Completed</status>
    <regProduct>Capacity Performance DR</regProduct>
    <!-- regResource Not Included in a TEST / RE-TEST Response -->
    <regResource>Pre-Emergency</regResource>
    <!-- regLeadTime Not Included in a TEST / RE-TEST Response -->
    <regLeadTime>Quick_30</regLeadTime>
    <zone>AECO</zone>
  </eventSummaryInfo>
  <eventDetail>
    <event>
      <id>1568809</id>
      <eventRegistration>
        <registrationId>3272709</registrationId>
        <CSP>
          <name>BC</name>
        </CSP>
      </eventRegistration>
      <eventType>(TEST) Load Management</eventType>
      <target>200</target>
    </event>
  </eventDetail>
</eventSummary>
```