



DR Hub Web Services

Enabling the Rest Environment

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- Ready for REST? Things you'll need to get started
 - An internet connection – Rest works over HTTP
 - A secure connection using token authentication.
 - URLs to connect and access Web Service Endpoints.
 - Access to support documentation.
 - Developers will need a restful design approach.
 - Members without a development shop will need...
 - The PJM CLI utility
 - The PJM Polling Client

- Access and Support
 - Getting Connected
 - Web Services Training “root” URL : <http://drhubtrain.pjm.com/drhub>
 - Authentication : DIY API vs. PJM CLI and the Polling Client
 - API Documentation and client Downloads -
<http://www.pjm.com/markets-and-operations/etools/dr-hub.aspx>
 - The DR Hub Support Page provides a wealth of information on retrieving and acknowledging events.

- OK, I've got the tools. Where do we go from here?
- What should I do? Play and Experiment. This is your chance to get acquainted with DR Hub and the REST approach.
- PJM will be providing simulated DR Event testing in the Training environment.
- What's the testing schedule? The next two slides outline the initial schedule.
- Notes on testing : Load Management tests are initiated manually as done during real events. Times may vary slightly.
- CSPs must have confirmed registrations in the Training environment to test. Please review and notify us at if you have questions. drhubsupport@pjm.com
- Economic Events – inclusion in economic testing will be done upon request and require a list of the applicable registrations to be tested.

- Testing Schedule

SIMULATED EMERGENCY DR EVENTS IN SANDBOX -- INSTRUCTIONS SCHEDULE

Daily (workdays) Simulated Emergency DR Events in Sandbox			
Dispatch Instruction	Notification Time	Start Time	End Time
Long Lead Event	11:00am	1:00 pm	3:00pm
Short Lead Event	1:00 pm	2:00 pm	4:00pm
Quick Lead Event	2:00 pm	2:30 pm	5:00pm

SIMULATED RT DISPATCH EVENTS IN SANDBOX -- INSTRUCTIONS SCHEDULE

Daily (workdays) Simulated Dispatch in Sandbox				
Dispatch Instruction	Notification Time	Start Time	End Time	Target MW
Initial Dispatch	9:15am	9:30am		0.5
Re-dispatch	9:30am	9:45am		0.75
Release	11:00am		11:15 am	0

- Testing Schedule Continued...

SIMULATED SR DISPATCH EVENTS IN SANDBOX -- INSTRUCTIONS SCHEDULE

Daily (workdays) Simulated Dispatch in Sandbox				
Dispatch Instruction	Notification Time	Start Time	End Time	Target MW
Initial Dispatch	10:00am	10:00am		0.5
Release	10:15am		10:15	0

SIMULATED DA DISPATCH EVENTS IN SANDBOX -- INSTRUCTIONS SCHEDULE

Daily (workdays) Simulated Dispatch in Sandbox				
Dispatch Instruction	Notification Time	Start Time	End Time	Target MW
Initial Dispatch	11:15am		N/A	0.5



Questions?