Markets Gateway Roadmap

As of December 19, 2018
<table>
<thead>
<tr>
<th>Product - Action Required</th>
<th>Deadline</th>
<th>Who May Be Affected</th>
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<td>Markets Gateway – SpinMax Validation – If you find yourself unable to update your energy parameters for the current hour because of this validation, contact PJM’s Customer Service</td>
<td>12/20/2018</td>
<td>Markets Gateway Users</td>
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<tr>
<td>Markets Gateway – Gas Contingency Automation – XML changes will be required for the new information fields</td>
<td>1/24/2019</td>
<td>Markets Gateway Users</td>
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## 2018/2019 Markets Gateway Roadmap

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<tr>
<th></th>
<th>2018</th>
<th>2019</th>
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<td>Oct</td>
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<td>Dispatch Lambda</td>
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<td>Prod: 12/17</td>
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<td>Hourly fuel/configuration</td>
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<td>Prod: 12/17</td>
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<tr>
<td>SpinMax validation</td>
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<td>Gas Contingency</td>
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**Legend**
- Green circle: Start Date
- Yellow diamond: End Date
Dispatch Lambda enhancements

- Complete – currently installed in both TRN and PRD – External Interface Guide and XSD information updated on Markets Gateway tools page
  - To reduce confusion for users, the following enhancements will be made to the Dispatch Lambda screen in Markets Gateway
    - This page will be updated as soon as a unit is logged by PJM. Currently it’s only displayed on this page once the unit is online
    - Two new columns will be added: Call On Time and Called Off Time
    - If the unit is called on for a constraint, the Status column will now include the name of the constraint the unit was called for
  - The Dispatch Lambda query will return the additional information above
  - Target timeframe – December 3 for Train, December 17 for Production
• **Complete** – currently installed in both TRN and PRD - External Interface Guide and XSD information updated on Markets Gateway tools page

• Dual fuel FAQ will be updated with instructions on using this new functionality
  – Dual fuel units and combined cycle units have limitations that necessitate the ability to change fuels or configurations on an hourly basis throughout the day
  – Currently, dual fuel units can change availability hourly in Real time but not for the hours where a unit is committed
  – Dual fuel units are advised to make their cheapest fuel schedule unavailable for the day, and populate their more expensive fuel schedule with hourly offers reflecting both fuels (i.e. use oil schedule with oil offer for hrs. 1-7 and gas offer for hrs. 8-24)
  – To facilitate clearer communication of fuel and configuration, PJM will implement a new field on the Detail Update screen that will allow the user to designate a “reference schedule” (oil, 2x1, etc) for each hour.
  – Users will still follow the recommendation of bullet 3 above, but will now be able to communicate the appropriate fuel type or configuration for the off schedule hours
  – Both UI and XML changes will be required, however, use of this feature is optional
  – Target timeframe – December 3 for Train, December 17 for Production
Markets Gateway validation is preventing some resources from updating their energy parameters (economic min/max, emergency min/max) in real time because of the spin max value, which is an hourly value locked 65 min before the operating hour.

Resolution: We are working with our vendor for a fix but will not have a formal resolution until early next year.

In the meantime: If you find yourself unable to update your energy parameters for the current hour because of this validation, reach out to customer service (custsvc@pjm.com) or (866) 400-8980) and let them know. An on-call person will follow-up with you to allow the update.
This change is to enable PJM Operations to gather Gas Contingency analysis information from members prior to Winter 2019.

- The Schedules > Restriction Information tab in Markets Gateway will include a new section: Natural Gas Supply Information.
- The Natural Gas Supply Information section will include: Pipeline Selection fields, Pipeline Switching fields, and Gas Day Nomination fields.
  - Pipeline Selection Field allows users to communicate their primary pipeline for their current schedule, as well as others they have access to (and may switch to).
  - Pipeline Switching includes information pertaining to Time to Transition and MW to Transition.
  - Gas Day Nomination Field allows users to communicate firm nomination and total nomination per pipeline (Dths).

- This information is intended to be voluntarily populated by members, however PJM will request updates to this information in advance of PJM Conservative Operations.
- XML changes will be required for the new information fields.
- Target timeline - January 10 for Train, January 24 for Production.
Updates

• Offer Verification
  – Automated validation of Price offers > $1000 is now in Train and Production
  – The Offer Verification Instructions and Guidelines have been updated with this new functionality

• Day Ahead Market timing
  – The Day Ahead Market close time has been changed from 10:30 to 11:00 in both Train and Production, as of today, December 19
Product Details
Markets Gateway allows users to submit information and obtain data needed to conduct business in the Day-Ahead, Regulation and Synchronized Reserve Markets.

Key Product Features

- View Market Results
- Manage Generation and Load Response Portfolios
- Manage Ancillary Service Data
- Manage Market Offers and Transactions