eDART Roadmap

As of October 23, 2018
<table>
<thead>
<tr>
<th>Action Required</th>
<th>Deadline</th>
<th>Who May Be Affected</th>
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<tbody>
<tr>
<td>Changes to eDART XML Downloads &amp; Uploads communicated at the eDART XML Users Group</td>
<td>11/1/2018</td>
<td>eDART XML Browserless Users</td>
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<tr>
<td>Contact <a href="mailto:Vy.Le@pjm.com">Vy.Le@pjm.com</a> for eDART Web UI Refresh user experience analysis and design components</td>
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<td>Provide feedback regarding refreshed eDART browserless interface by contacting <a href="mailto:Vy.Le@pjm.com">Vy.Le@pjm.com</a></td>
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<td>eDART Browserless Users</td>
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<td>Jan</td>
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<tr>
<td><strong>eDART Refresh</strong></td>
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<td><strong>Voltage Schedule</strong></td>
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<td><strong>Addition of Voltage Limits</strong></td>
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<td><strong>Transformer Tap Changer Tool</strong></td>
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<td><strong>Transmission Ticket Enhancements</strong></td>
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<td><strong>Network Model Enhancements</strong></td>
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**Legend**
- Green dot: Start Date
- Yellow diamond: End Date
- Tentative Release Date: Thursday, Nov 1st, 2018

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<tr>
<th>Area</th>
<th>Impact</th>
<th>Action Required</th>
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<tr>
<td>eDART XML</td>
<td>eDART (internal &amp; external) will experience an 8 hour outage</td>
<td>Changes to eDART XML Downloads &amp; Uploads communicated at the eDART XML Users Group Meeting &amp; Documentation updated: <a href="http://pjm.com/pub/etools/edart/xmldocs/xmldoc.html">http://pjm.com/pub/etools/edart/xmldocs/xmldoc.html</a></td>
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<tr>
<td>Browserless</td>
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<tr>
<td>eDART Web</td>
<td>eDART (internal &amp; external) will experience an 8 hour outage</td>
<td>Changes to eDART Web UI communicated at the eDART Users Group Meeting</td>
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</table>

www.pjm.com
– The RRC drill has been put into the Sunday Emergency Procedure drill schedule, about once a month.
– Users should review Self Check data daily and ahead of RRC issuance.
– Issues and requests for updates should be sent to RRCHelp@pjm.com.
• PJM will be releasing a new browserless .jar file for eDART in the near future
• File will be updated to enhance security
• Can be found at http://pjm.com/pub/etools/edart/xmldocs/xmldoc.html
• Further communication to follow
Currently there are 500 to 700 eDART user accounts that have not logged in at least since 2017.

Account Clean Up Timeline (Q4 2018):
- Accounts with last login more than 365 days in the past will be locked.
- Accounts locked for more than 365 days will be revoked.
- Emails with list of dormant users will be sent to Customer Account Managers (CAM).
• Current timeline for Web UI refresh
  – 2018
    • User Experience Analysis and Design
      – Interested eDART web UI users should contact Vy.Le@pjm.com.
      – WebEx sessions being held with Transmission Tickets users.
    • Requirements gathering
    • Work planning (overall project schedule & web UI page sequencing)
    • Web UI refresh
    • Progress review
# eDART Browserless Refresh Timeline

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<tbody>
<tr>
<td><strong>Design &amp; System Requirements</strong></td>
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<td><strong>Development &amp; Testing</strong></td>
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<td>Users Meeting</td>
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<td><strong>Member Training &amp; Rollout</strong></td>
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<td>Go Live / Parallel Production</td>
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**Legend**
- Start Date
- End Date

[www.pjm.com](http://www.pjm.com)
• User Experience Analysis for the eDART Refresh is ongoing.
  – Users of the eDART browserless interface interested in providing feedback should contact Vy.Le@pjm.com.

• Replacement service for browserless interface discussed on Tuesday, January 30th, 2018.
  http://www.pjm.com/-/media/committees-groups/user-groups/edartxmlug/20180130/20180130-edart-browserless-refresh.ashx
Product Details
eDART (electronic Dispatcher Application and Reporting Tool) is suite of electronic applications used to facilitate dispatcher-to-dispatcher communications, along with other engineering communication and coordination functions.

**eDART Product Page**
**eDART Training Presentations**
**eDART User Group**
**eDART XML User Group**
Background – eDART Applications

- Used to verify if enough reserve MW available.
- Used to verify generation will not over-exceed light load margins.
- Used to schedule the output of Susquehanna River Hydroelectric Assets.

Used to record and schedule:
- Generator MW Outages
- Voltage Regulator Outages
- Governor Outages
- D-Curve Adjustments
- Reactive Tests
  Reactive Test Results Tickets
  GO Survey

(IRC)
Used to verify if enough reserve MW available.

Used to capture unit data and determine critical load in system restoration plans.
Used to record and schedule non-generator transmission facility outages.

Used by companies to submit changes to the transmission grid.

Used to coordinate the update of system restoration plans.

Used to view updates made to Object IDs.

Used to record and schedule line, transformer, phase shifters, series and flow devices temperature apparent power ratings.

Used to practice and coordinate restoration of service in PJM area after a blackout.

Used to update facility clearing times data used in dynamic studies.
Background – eDART Applications

Current Status Report
15 minute snapshot of current status

Peak Status Report
Forecast of system condition for the peak of the day

Supplemental Status Report (SSR)
72 hour forecast of system condition; typically for extreme hot/cold weather conditions

Gen Checkout
Used to compare and highlight discrepancies between Market Gateway bids and Available Capacity. Brings Markets and Operations together in real-time

Used to record and coordinate
-Reactive Reserve Check (RRC)
-D-Curve Review (on Gen. Tickets menu for Gen users)

Used to manage PSSE mapping information for the purpose of sending and receiving info to/from NERC SDX