eDART Roadmap

As of July 24, 2018
2018 eDART Roadmap

<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>eDART Refresh</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Voltage Schedule</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Addition of Voltage Limits</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transformer Tap Changer Tool</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Deferred to 2019</td>
</tr>
<tr>
<td><strong>Transmission Ticket Enhancements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Network Model Enhancements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend

- Start Date
- End Date
• Release Date: Wednesday, June 27\textsuperscript{th}, 2018

<table>
<thead>
<tr>
<th>Area</th>
<th>Impact</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>eDART XML Browserless</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>
</tr>
<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>
</tr>
</tbody>
</table>

• Upcoming Release: Late September
• Recent User Group Meetings
  – May 30th at 11AM EST – eDART XML User Group Meeting
  – May 30th at 1PM EST – eDART User Group Meeting
    [http://pjm.com/committees-and-groups/user-groups/edart-ug.aspx](http://pjm.com/committees-and-groups/user-groups/edart-ug.aspx)

• Upcoming User Group Meetings: Mid August
PJM will continue the RRC drills weekly depending on System conditions until September 10th.

- After September 10th the RRC drill will then be 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.
• 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

**Legend**
- Start Date
- End Date

### Design & System Requirements
- Dec 2017
- Jan 2018
- Feb 2018
- Mar 2018
- Q2 2018
- Q3 2018
- Q4 2018
- Q1 2019
- Q2 2019

### Development & Testing
- Users Meeting
- Jan 2018
- Feb 2018
- Mar 2018
- Q2 2018
- Q3 2018
- Q4 2018
- Q1 2019
- Q2 2019

### Member Training & Rollout
- Feb 2018
- Mar 2018
- Q2 2018
- Q3 2018
- Q4 2018
- Q1 2019
- Q2 2019

### Go Live / Parallel Production
- Mar 2018
- Q2 2018
- Q3 2018
- Q4 2018
- Q1 2019
- Q2 2019

---

*PJM©2018 9*
• User Experience Analysis for the eDART Refresh is ongoing.
  – Users of the eDART browserless interface interested in providing feedback should contact Chidi.Ofoegbu@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 record and schedule:
  - Generator MW Outages
  - Voltage Regulator Outages
  - Governor Outages
  - D-Curve Adjustments
  - Reactive Tests
  - Reactive Test Results Tickets
  - GO Survey

Used to schedule the output of Susquehanna River Hydroelectric Assets

Used to capture unit data and determine critical load in system restoration plans.

Used to capture unit data and determine critical load in system restoration plans.

Used to verify generation will not over-exceed light load margins.

(IRC) Used to verify if enough reserve MW available.
Background – eDART Applications

- Used to view updates made to Object IDs.
- Used to record and schedule non-generator transmission facility outages.
- Used to coordinate the update of system restoration plans.
- Used to record and schedule line, transformer, phase shifters, series and flow devices temperature apparent power ratings.
- Used to update facility clearing times data used in dynamic studies.
- Used by companies to submit changes to the transmission grid.
- Used to practice and coordinate restoration of service in PJM area after a blackout.
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