

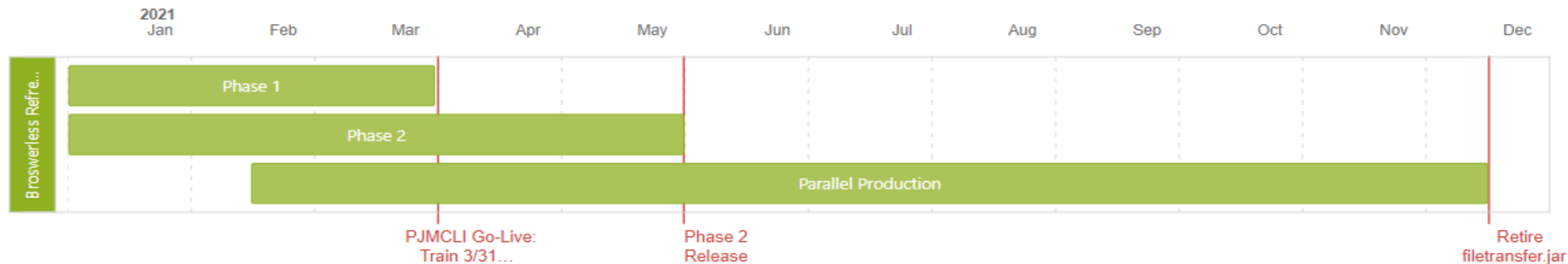


eDART XML Forum

May 11, 2021

- eDART Browserless Refresh Update
- Updates to External Files
- Dynamic Line Ratings (DLR)
- Question and Answer Resolution

eDART Browserless Refresh Update



Key Take-away:

- The Phase 1 transition to PJM CLI Integration releases:
 - Production: April 14 (**COMPLETE**)
- Phase 2 consists of minor enhancements and fixes
 - Train: May 26
 - Production: June 9
- An updated User Guide with information for Phase 1 is available at: <http://www.pjm.com/pub/etools/edart/xmldocs/dart-browserless-user-guide.pdf>
- The filetransfer.jar and legacy URLs will be retired in December



eDART Browserless Refresh – Phase 1

- Details discussed during [March 15 eDART XML Forum meeting](#).
- [PJM CLI](#) updated to include Dart information and sample files.
- Dart Browserless User Guide available at:
 - [eDART XML Documents page](#)
 - [eDART tool page](#)

- Any feedback on usage of the PJM CLI?
 - Via browserless interface?
 - Via UI download and upload screens?



eDART Browserless Refresh – Phase 2

Enhancement/Fix	Impact
Ensure XSD and download element availability, order, and data types are consistent	Potential impacts based on individual solutions. All changes will be documented and provided at the time of the release.
Ensure every download has and is validated against an XSD	
Remove all empty/null elements from XML responses	
Ensure all XML responses have consistent formatting	No Impact
Ensure all XML responses are valid	

- emsoutage
- genbynamecause
- gencheckoutareas (download = gencheckoutcontrolareas)
- generationcause
- nerctadsreportcodes
- termequipmentreport (download = terme)
- termreason (download = termr)
- termrxb
- tier
- zones

- genticcreate
 - <est_early_return_time> changed from datetime to string
- newtermrxb
 - “maxOccurs=unbounded” added to root tag since multiple tickets can be created
- termcreate
 - data types changed/added to match upload

- Downloads now conform to XSDs so the following general changes were made to some XSDs to make the downloads behave the same way as they do now.
 - Changed occurrences of some elements in the XSD to match how they were actually being returned in the download (minOccurs/maxOccurs)
 - All date/time data types were changed to strings in the XSD as that's how they are currently being returned
 - Any other data types that didn't match the download were changed in the XSD to match
 - Added missing elements to the XSD that occurs in the downloads

- Removed elements that were in the XSD but not actually in the downloads
- Changed the ordering of XSD elements to match current download ordering
- Updated Download XSDs:
 - gencheckout
 - genticnotifyreview
 - genticreview
 - genticrevise
 - group_conflict

- group_conflict
- primary_facility_conflict
- revisetermrx
- tariff
- termequipmentinformation
- termreview
- termrevise
- transmissioncauses
- transticrevise

- transticnotifyreview & transticreview have an impactful change to the ticket status section in order to conform to XSD rules. `<ticket_status>` is now the current status of the ticket and there is a new section called `<history_log>` which includes the status history.

```

<xsd:element name="ticket_status" type="xsd:string" minOccurs="0"/>
<xsd:element name="history_log" minOccurs="0">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ticketStatus" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="status" type="xsd:string"/>
            <xsd:element name="timestamp" type="xsd:string"/>
            <xsd:element name="user" type="xsd:string"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

Updates to External Files (to Zip format)

Current State Challenges	Implementation Details
Files were originally designed to be human readable, but have grown in size over the years	The eDART files (.txt and .csv) available on pjm.com will be converted to zip files in July
Automated scraping of large files has caused operational issues in the past	Clicking links will return zip files containing actual .txt and .csv files
Larger file sizes have led to slower and incomplete downloads	File sizes will shrink increasing chances of successful downloads
Download throttling prevents immediate retry on failure	

- Impacted files :
 - [Voltage Limits](#)
 - [Equipment List/Complete Descriptions](#)
 - [Lines Out](#)
 - [Lines Out New](#)
 - [Ratings](#)
 - [Temporary Ratings](#)
 - [NERC Alert Ratings Changes](#)
 - [TERM Reasons List](#)
 - [RTEP Tickets](#)
 - [NERC Alert Lines Out](#)
- Please note that these files are also available to all users in eDART via the Public Files report.

- Discussed during the [3/30/2021 OC Special Session](#)
- Enhancements to eDART to handle DLR:
 - Ability for Transmission Owners with DLRs to upload and download forecasted ratings (CSV format)
 - Files to be added to Ratings Information page on [OASIS](#)
 - Dynamic Ratings Forecast (zip file with latest uploaded forecasted ratings)
 - Historical Ratings (zip files with Ratings, Temporary Ratings and Dynamic Ratings Forecast per company)
- Implementation Timeline: May 27

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