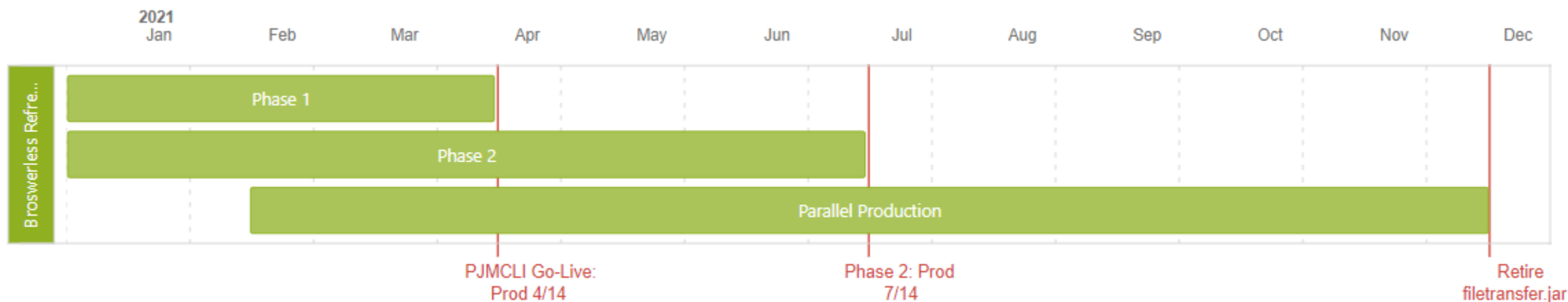


eDART XML Forum

September 13, 2021

- eDART Browserless Refresh Update
- Recent Updates
- Upcoming Enhancements
- Question and Answer Resolution

eDART Browserless Refresh Update



Key Take-aways:

- The Phase 1 (transition to PJM CLI) and Phase 2 (minor enhancements and fixes) are now complete.
- An updated User Guide with information for Phases 1 & 2 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 2021

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

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](#)

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

- Changes were made to XSDs to ensure that the XML structure that PJM accepts is the same as the XML structure that PJM is advertising it accepts.
 - 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
- revisetermrxb
- 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>

```

Recent Updates

DLRs (eff. 5/27/2021) - [Release 11](#)

- Added to TERM application in eDART
- Ability for Transmission Owners with DLRs to upload and download forecasted ratings (.csv format)
- Files 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)
- Companies adding DLRs should contact eDARThelp@pjm.com for set up and further instruction

External Files to .zip format (eff. 7/29/2021) – [Release 12](#)

- Eliminates download of partial files
- No changes to the current file links
- Files are available via the Public Files report (Transmission Menu) in eDART
 - Information in some of the files also available via XML downloads in eDART

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](#)

Upcoming Enhancements

December 2021

- Update to TERM Equipment Report to indicate if equipment is available for DLR or not.
 - Download type = terme
 - New true/false tag called <dynamic>

```
<?xml version="1.0" encoding="UTF-8"?>
<edart>
  <term_equipment_info>
    <equipment_info>
      <equipment_id>74222</equipment_id>
      <ta_id>19426</ta_id>
      <type>LINE</type>
      <impedance_r>0.002</impedance_r>
      <impedance_x>0.02265</impedance_x>
      <congestion_status>MONITORED</congestion_status>
      <charging_b>0.0467</charging_b>
      <dynamic>true</dynamic>
    </equipment_info>
    <equipment_info>
      <equipment_id>74220</equipment_id>
      <ta_id>19425</ta_id>
      <type>BRKR</type>
      <impedance_r>0</impedance_r>
      <impedance_x>0</impedance_x>
      <congestion_status>NOT MONITORED</congestion_status>
      <dynamic>false</dynamic>
    </equipment_info>
  </term_equipment_info>
</edart>
```

- New upload and download for dynamic line ratings.
 - Browserless equivalent of the CSV file used on the web UI.

	A	B	C	D	E	F	G	H	I	J
1	HourEndGMT	Station	Voltage	Equipment	End	Normal	LongTerm	ShortTerm	LoadDump	
2	04/21/2021 19	STATIONA	69 KV	EQUIPMENT X	END A	100	101	102	103	
3										
4										

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