



eDART Browserless Refresh

eDART XML Users Group
01/30/2018

- Reasons for Refresh:
 - Incorporate Single Sign On functionality
 - Follow PJM enhanced model for Tools
 - Improve PJM-Member communication
- In Scope:
 - Refresh of web pages (UI)
 - Migration of JAVA Browserless Interface to PJM Command Line Interface

- Out of Scope:
 - Changes to Business Rules
 - New Interfaces
 - Email Notifications
- Expectations:
 - Extended testing/training in Training environment
 - Multi-year project
 - Minimal changes to current system during refresh
 - Tool rename: eDART to Dart

- Technical refresh to increase supportability of existing system
 - Code refactor
 - Communication contracts updated
 - Schemas, Interfaces, CLI (Command Line Interface)
- No major functionality changes
 - Goal: Maintain existing functionality
 - Though how to use that functionality may change
 - Minor quality-of-life updates

- Current eDART Architecture
 - Two major endpoints
 - One upload:
 - `j2ee/servlet/com.pjm.xml.upload.edart.EDartXMLUpload`
 - One download:
 - `j2ee/servlet/com.pjm.xml.download.edart.EdartXMLDownload`
 - Determined by 'action' parameter
 - Use of 'type' parameter to determine download to perform
 - Use of root element of XML to determine upload

- New Dart Architecture
 - Multiple endpoints as needed
 - Review Transmission Ticket with Ticket ID 10*
 - <https://dart.pjm.com/dart/rest/secure/download/transmission/ticket/10>
 - Upload New Transmission Ticket with File Name ‘transtic11.xml’*
 - <https://dart.pjm.com/dart/rest/secure/upload/transmission/ticket/transtic11.xml>
 - Action is determined by endpoint, rather than parameters
 - Parameters will be used to alter the action being performed
 - Example: review transmission ticket vs. revise transmission ticket

* These endpoints should not be considered final

- PJM-CLI is the replacement for filetransfer.jar
 - Standardized for all PJM applications
- Same use cases as filetransfer.jar
 - From command line
 - Embedded in application
- Uses different parameter names
 - Any parameters used in filetransfer.jar will be migrated in some form to the PJM-CLI

Filetransfer.jar

```
java -jar $FILETRANSFER
    username=username
    password=*****
    type=companynames
    app=edart
    action=download
    debug=true
    output="company-names-result.xml"
```

PJM-CLI

```
java -jar pjm-cli.jar
    -u username
    -p *****
    -s http://dart.pjm.com/dart
    -a /rest/secure/companynames
    -sso false
    -d ./
    -o company-names-result.xml
```

A user guide for the PJM CLI can be found at <http://pjm.com/~media/etools/dr-hub/cli-user-guide.ashx>. Please note, while the guide has not been updated for Dart, it can still provide examples of various use cases including how to embed the CLI in an existing application. Notification will be sent out when the updated guide is available.

eDART Browserless Refresh Roadmap

2017		2018				2019
Q3	Q4	Q1	Q2	Q3	Q4	Q1
Design and System Requirements						
		Development and Testing				
		Member Training and Rollout				
						Go Live

Design and System Requirements

- System Requirements
- System Design and Architecture

Dev and Testing

- Phased Dev. of endpoints
- PJM Testing

Member Training and Rollout

- Phased Rollout of endpoints in Train
- Final Rollout of all endpoints

Go Live

- Production Rollout of eDART Browserless Refresh

- Phased rollout in Train Environment
 - Starting with Transmission Module in Q2 2018
 - Followed by Generation Module
- Rollout in Train environment will include
 - Release Notes
 - User Guide
 - PJM CLI Zip file
- Current browserless interface will still be available to communicate with eDART

- Discussion of Transmission-related endpoints
- Parallel Production
- Requesting multiple sets of data