



# eDART September 2017 Release Enhancements

eDART XML Users Group Meeting  
08/21/2017

- Production
  - Release of September enhancements scheduled for Wednesday, September 20<sup>th</sup>.
  - eDART will be unavailable from 19:00 to 02:00 on Thursday, September 21<sup>st</sup>.
- Sandbox release planned for August 23<sup>rd</sup>.
- Coordinated Testing in Sandbox on **Friday, September 8<sup>th</sup>**.
  - SMEs available to perform PJM functions e.g. update tickets (lock, approve, activate, recall, etc.) as needed.
  - Members confirm all functionalities frequently used.

- September 2017 Enhancements
  - Date filters
  - Enhancements to Transmission Tickets Upload
- Other Discussion Topics
  - Reactive Reserve Check (RRC) Refresh Updates
  - eDART Refresh Overview
  - Future Enhancements
- Question & Answer Resolution Session

- TERM Tickets by Date (type=TermByDate)
  - Fixed issue with filter attempting to download all TERM tickets in system.
  - Filter will now return tickets based on start and stop/end dates provided.
    - Note that ongoing tickets (tickets with no actual end dates e.g. permanent tickets will also be returned).

```
type=termbydate start=06/01/2017 stop=09/04/2017
```

- IRC by Date (type=IRCByDate)
  - New functionality to help request specific IRC reports.
  - Download result is a list of IDs for IRCs in the provided date range.
  - User can request IRC Full report by the ID.

```
type=ircByDate startDate=06/01/2017 endDate=08/16/2017
```

```
type=ircfull id=3696
```

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>  
- <ircv2:ircByDate  
  xsi:schemaLocation="http://www.pjm.com/external/schemas/irc/v2  
  irc.xsd"  
  xmlns:ircv2="http://www.pjm.com/external/schemas/irc/v2"  
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">  
- <ids endDate="2017-08-16-04:00" startDate="2017-06-01-04:00">  
  <id>3676</id>  
  <id>3656</id>  
  <id>3616</id>  
</ids>  
</ircv2:ircByDate>
```

- `<restplan>` section re-added to transticreview and transticrevise uploads.
  - Used to indicate if Restoration Plan Review is needed for a Transmission Outage Ticket.

```
- <xsd:element name="restplan" minOccurs="0">
- <xsd:complexType>
- <xsd:sequence>
- <xsd:element name="restplanreview">
- <xsd:simpleType>
- <xsd:restriction base="xsd:string">
  <xsd:enumeration value="yes" />
  <xsd:enumeration value="no" />
  <xsd:enumeration value="na" />
  <xsd:enumeration value="tbd" />
</xsd:restriction>
</xsd:simpleType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
```

- Issue with any edits to project\_ids tag removing ticket from projects has been fixed.
  - Excluding a Project ID will remove the ticket from that project.
  - Adding a Project ID will add the ticket to that project.
- Issue with NERC Load Forecast returning ‘unsupported download’ error has been fixed.
  - type=nerclf and type=nerclfbydate
- Shared Common Structure tag removed from transmission tickets uploads and downloads.
  - No longer required for NERC TADS reports.

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- Phase 1a (9/28 release):
  - Availability of RRC Self-Check download.
- Phase 1b (Q4 2016):
  - Availability of RRC Self-Check data; updated every 5 minutes.
- Phase 2 – 2017 (7/26 release):
  - Ability for PJM to issue new RRC.
  - Functionality to retrieve/submit real time reserve values.
  - Parallel Operations\* with current RRC; issued concurrently.

\* Anticipated to remain in Parallel Ops until ICCP implementation, ~ Q4 2017.

- New functionalities available for Phase 2:
  - RRC Equipment List download: report of all the equipment that are included in the RRC. It has the TA\_ID which is needed for the revision upload.
  - RRC Full is a download of the most recent RRC.
  - RRC Revise upload used to respond to the open RRC by either acknowledging the PJM EMS (Energy Management System) values or submitting changes to the reactive values.
  - RRC Revise Response is the response received after the RRC Revise upload is done. It returns error messages if any.

```
<?xml version="1.0" encoding="UTF-8" ?>
<!-- Sample XML file generated by XMLSpy v2016 rel. 2 sp1 (x64)
(http://www.altova.com) -->
- <rrc:rrcEquipmentList xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rrc="http://www.pjm.com/external/schemas/rrc/v2"
  xsi:schemaLocation="http://www.pjm.com/external/schemas/rrc/v2 rrc.xsd">
- <rrcEquipment type="String">
  <ta_id>0</ta_id>
  <equipmentType>GEN</equipmentType>
  <station>String</station>
  <voltage>String</voltage>
  <short_name>String</short_name>
  <long_name>String</long_name>
</rrcEquipment>
- <rrcEquipment type="String">
  <ta_id>0</ta_id>
  <equipmentType>GEN</equipmentType>
  <station>String</station>
  <voltage>String</voltage>
  <short_name>String</short_name>
  <long_name>String</long_name>
</rrcEquipment>
- <rrcEquipment type="String">
  <ta_id>0</ta_id>
  <equipmentType>GEN</equipmentType>
  <station>String</station>
  <voltage>String</voltage>
  <short_name>String</short_name>
  <long_name>String</long_name>
</rrcEquipment>
</rrc:rrcEquipmentList>
```

- Capacitor
- Reactor
- SVC
- Unit

- I → ICCP: reserve values from ICCP data.
- X → XML: RCR revise upload.
- U → UI: web UI.

```

<?xml version="1.0" encoding="UTF-8" ?>
<!-- Sample XML file generated by XMLSpy v2016 rel. 2 sp1 (x64)
(http://www.altova.com) -->
- <rrc:rrcFull xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rrc="http://www.pjm.com/external/schemas/rrc/v2"
  xsi:schemaLocation="http://www.pjm.com/external/schemas/rrc/v2 rrc.xsd">
  <reportRequestId>0</reportRequestId>
  <rrcType>String</rrcType>
  <requestTimeStamp>1957-08-13</requestTimeStamp>
  <currentTimeStamp>1957-08-13</currentTimeStamp>
  <reportPostedTimestamp>1957-08-13</reportPostedTimestamp>
  <toGenericComments>String</toGenericComments>
  <toComments>String</toComments>
  <notesPJM>String</notesPJM>
- <equipment>
  - <Capacitor ta_id="0">
    <eDART_availability>true</eDART_availability>
    <se_Status>String</se_Status>
    <se_Kv>0</se_Kv>
    <se_Mvar>0</se_Mvar>
    <rated_Mvar>0</rated_Mvar>
    <rated_Mvar_PJM>0</rated_Mvar_PJM>
    <mVar_Reserve>0</mVar_Reserve>
    <acknowledge_type />
  </Capacitor>
  - <Reactor ta_id="0">
    <eDART_availability>true</eDART_availability>
    <se_Status>String</se_Status>
    <se_Kv>0</se_Kv>
    <se_Mvar>0</se_Mvar>
    <rated_Mvar>0</rated_Mvar>
    <rated_Mvar_PJM>0</rated_Mvar_PJM>
    <mVar_Reserve>0</mVar_Reserve>
    <acknowledge_type>U</acknowledge_type>
  </Reactor>
  
```

- PJM can include notes to all and/or specific TOs.
- User can add note to PJM.

- Submit changes to PJM EMS reserve values per equipment.
- PJM EMS values will be acknowledged for any equipment not included.

```

<?xml version="1.0" encoding="UTF-8" ?>
<!-- Sample XML file generated by XMLSpy v2016 rel. 2 sp1 (x64)
(http://www.altova.com) -->
- <rrc:rrcRevise xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rrc="http://www.pjm.com/external/schemas/rrc/v2"
  xsi:schemaLocation="http://www.pjm.com/external/schemas/rrc/v2 rrc.xsd">
  <reportRequestId>0</reportRequestId>
  <!-- Note: An empty string will be stored if you send
  <notesToPJM></notesToPJM> or <notesToPJM/> -->
  <notesToPJM>String</notesToPJM>
  <acknowledgeAllCapacitors>true</acknowledgeAllCapacitors>
  <acknowledgeAllReactors>true</acknowledgeAllReactors>
  <acknowledgeAllSVC>true</acknowledgeAllSVC>
- <Capacitor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Capacitor>
- <Capacitor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Capacitor>
- <Capacitor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Capacitor>
- <Reactor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Reactor>
- <Reactor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Reactor>
- <Reactor ta_id="0">
  <ratedMVAR>0</ratedMVAR>
</Reactor>
  
```

Options to acknowledge all PJM EMS reserve values per equipment type.

```
<?xml version="1.0" encoding="UTF-8" ?>
<!-- Sample XML file generated by XMLSpy v2016 rel. 2 sp1 (x64)
(http://www.altova.com) -->
- <rrc:rrcReviseResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rrc="http://www.pjm.com/external/schemas/rrc/v2"
  xsi:schemaLocation="http://www.pjm.com/external/schemas/rrc/v2 rrc.xsd">
- <status ta_id="0">
  <message>String</message>
</status>
- <error ta_id="0">
  <message>String</message>
</error>
- <status ta_id="0">
  <message>String</message>
</status>
- <error ta_id="0">
  <message>String</message>
</error>
- <status ta_id="0">
  <message>String</message>
</status>
- <error ta_id="0">
  <message>String</message>
</error>
</rrc:rrcReviseResponse>
```



- TOs can submit New RRC data via ICCP for the following measurements:

Measurement
Capacitor Rated MVAR
Reactor Rated MVAR
SVC/STATCOM High MVAR Limit
SVC/STATCOM Low MVAR Limit

- If you are interested in submitting the data via ICCP, please ask your telemetry group to reach out to [PJMTelemetrySupport@pjm.com](mailto:PJMTelemetrySupport@pjm.com)

- TOs should provide the following to PJM Telemetry Support Group if they want to send RRC data via ICCP:
  - ICCP Object ID
  - Equipment Name
  - Measurement Description
- PJM can also provide the TO with a list of all Capacitors/Reactors, SVCs and STATCOMs modeled in PJM's EMS.

Questions? Contact [RRCHelp@pjm.com](mailto:RRCHelp@pjm.com)



- Current timeline for JAVA Browserless Interface Migration
  - 2017
    - Command Line Interface (CLI) design.
    - Stakeholders presentations and feedback.
  - 2018
    - Available in Sandbox for testing, training and feedback.
    - Parallel Production.
    - Shutdown of JAVA browserless interface; CLI is official browserless interface.

- MVAR Test Tickets:
  - New field for telemetry verification dates per M14D, E.4.1.
  - Will be used to auto-populate Telemetry Verified Date section on Reactive Capability Testing Form.
- Global Include Historical flag:
  - By default, downloads will return current information; user can use flag to specifically request historical information.
  - Will help reduce size of files transferred and improve performance.

- eDART Team planning to combine the eDART User Guide (<http://www.pjm.com/-/media/etools/edart/edart-user-guide.ashx?la=en>) and eDART Quick Reference Guide (<http://www.pjm.com/-/media/etools/edart/edart-quick-reference-guide.ashx?la=en>).
  - Improved maintenance of one document versus two.
  - To be decommissioned after eDART refresh.

- The 2017 PJM Member Satisfaction Survey will be open on Monday, September 11<sup>th</sup> and close on Friday, September 22<sup>nd</sup>.
- PJM values stakeholder feedback and makes changes and improvements as a result of the survey findings.
- Number of questions in the survey reduced to 25.
- Members of the eDART XML User Group email distribution list already included in survey.
  - Other interested participants should contact Chidi Ike-Egbuonu.

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