



eDART XML April 2019 Release Enhancements

eDART XML Users Group Meeting
3/4/2019

Production release of April enhancements tentatively scheduled for Wednesday, April 10th.

- eDART will be unavailable from 19:00 to 02:00 on Thursday, April 11th.

Sandbox release scheduled for Monday, March 25th.

- **General Discussion Topics**
- Generation Related Enhancements
- Transmission Related Enhancements
- Question and Answer Resolution Session

Voltage Schedules

- Current voltage schedules loaded into eDART.
- Augustine Caven working with TOs to review voltage schedules.
- GOs required to acknowledge voltage schedules by March 8th (target date).
 - Email notifications of required actions will be sent out daily until completed.

Hardware upgrades planned for March.

Outage notifications will be sent to eDART User Group distribution lists.

Q3 2018: Development and Testing of Transmission Tickets and Reports

Q4 2018: Development and Testing of:

- Hydro Schedule
- Generation Reports
- Instantaneous Reserve Check (IRC) Forms and Reports

Q1 2019: Development and Testing of:

- Generation Tickets
- Reactive Reserve Check (RRC) Forms and Reports

Q2 2019: Development and Testing of:

- TERM Tickets

Q3 2019: Development and Testing of:

- Tariff Reports

With the eDART refresh, management of eDART accounts will be migrated to Account Manager. In preparation for that:

- Use Account Manager username for new eDART account requests.
- Update email addresses for existing accounts.
- Clean Up Dormant Accounts:
 - Lock accounts with last login more than 365 days in the past.
 - Revoke accounts locked for more than 365 days.
 - Customer Account Managers (CAM) will be notified.

On Cost Max Emergency upload to submit On Cost Generation / Max Emerg. Today data for the SSR.

- Pending decision on the retirement of the SSR application in eDART.

Generation Ticket Notify Review

- Added `est_early_return_time`, `early_recall_time`, `forced_date` and `related_ticket`.

TOIMWG Download

- XSD updated to make `dateLogs` and `statusLogs` optional.

Voltage Schedule

- Example file updated to include `status` and `busName`.

eDART REST API Guide

- General review and update.

Retired facilities still in the PJM model are currently excluded from Current Facility Outages section of linesout.txt.

- Results in missing lines in linesout file.
- Included in eDART EMS Outage List.

Enhancement is to include the retired facilities in linesout.txt and append 'RETIRED' to Facility Name.

- Currently implemented in [linesout_new.txt](#).

Before

```

CURRENT FACILITY OUTAGES
-----
ITEM TICKET FACILITY NAME |
-----
1      0 BRKR AMOS      765 KV  AMOS      T57      DIS |
-----
3 782865 BRKR DUMONT2  765 KV  DUMONT2  A1      CB |
-----
4      0 BRKR DUMONT2  765 KV  DUMONT2  RSFG     DIS |
-----
5      0 CAP  DUMONT2  765 KV  DUMONT2  RXFG     REACTOR |
-----
6      0 BRKR DUMONT2  765 KV  DUMONT2  T27     DIS |
-----
7 752085 XFMR DUMONT2  765 KV  DUMONT2  T2 XFORMER |
-----
8      0 BRKR GAVINAEP 765 KV  GAVINAEP  RSCA     DIS |
-----
9      0 CAP  GAVINAEP 765 KV  GAVINAEP  RXCA     REACTOR |
-----
10 730707 BRKR JACKSONS 765 KV  JACKSONS  B2      CB |
-----
11 780053 BRKR KAMMER2  765 KV  KAMMER2  QQ1     CB |
-----
12 787503 CAP  KAMMER2  765 KV  KAMMER2  RXCA     REACTOR |
-----
    
```

After

```

CURRENT FACILITY OUTAGES
-----
ITEM TICKET FACILITY NAME |
-----
1      0 BRKR AMOS      765 KV  AMOS      T57      DIS |
-----
2      0 XFMR DUMONT2  765 KV  DUMONT2  1-P  XFMR - RETIRED |
-----
3 782865 BRKR DUMONT2  765 KV  DUMONT2  A1      CB |
-----
4      0 BRKR DUMONT2  765 KV  DUMONT2  RSFG     DIS |
-----
5      0 CAP  DUMONT2  765 KV  DUMONT2  RXFG     REACTOR |
-----
6      0 BRKR DUMONT2  765 KV  DUMONT2  T27     DIS |
-----
7 752085 XFMR DUMONT2  765 KV  DUMONT2  T2 XFORMER |
-----
8      0 BRKR GAVINAEP 765 KV  GAVINAEP  RSCA     DIS |
-----
9      0 CAP  GAVINAEP 765 KV  GAVINAEP  RXCA     REACTOR |
-----
10 730707 BRKR JACKSONS 765 KV  JACKSONS  B2      CB |
-----
11 780053 BRKR KAMMER2  765 KV  KAMMER2  QQ1     CB |
-----
12 787503 CAP  KAMMER2  765 KV  KAMMER2  RXCA     REACTOR |
-----
    
```

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When modifying IRC values, a note/comment is required for the PJM Operator.

- Error message returned if note/comment is not included updated for clarity since the tag is <comments>.
- Previous error message: “A Note for the PJM Operator is required when modifying IRC values.”
- New error message: “A Note/Comment for the PJM Operator is required when modifying IRC values.”

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <ircv2:ircReviseDownload 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">
3   <reportRequestId>3744</reportRequestId>
4   <reportPostedTimestamp xsi:nil="true"/>
5   <requestTimestamp>2019-02-12T10:30:31.000-05:00</requestTimestamp>
6   <currentTimestamp>2019-02-15T11:38:29.778-05:00</currentTimestamp>
7   <comments></comments>
8   <acknowledgeAll>false</acknowledgeAll>
9   <Generator id="1343">
10    <acknowledged>true</acknowledged>
11    <beyondSecondary>0</beyondSecondary>
12    <quickStart>13</quickStart>
13    <secondary>0</secondary>
14    <synchronizedReserves>0</synchronizedReserves>
15  </Generator>
16  <Generator id="1345">
17    <acknowledged>false</acknowledged>
18    <beyondSecondary>0</beyondSecondary>
19    <quickStart>11</quickStart>
20    <secondary>0</secondary>
21    <synchronizedReserves>0</synchronizedReserves>
22  </Generator>
```

Add Notes/Comments for PJM Operator here.

Update to GO acknowledgement of Voltage Schedule to make Unit ID (<unitNumber>) an optional field.

The only required fields are:

- Ticket ID
- GO Comment
- Status (GO Acknowledged)

```
<voltageSchedule>
  <ticketId>0000</ticketId>
  <goCompany> Test Company</goCompany>
  <unitNumber>1234</unitNumber>
  <scheduleType>Reactive</scheduleType>
  <effectiveDate>2020-20-02T00:00:00.000-04:00</effectiveDate>
  <toAcknowledgeDate>2018-12-04T00:00:00.000-05:00</toAcknowledgeDate>
  <goAcknowledgeDate>2018-11-15T00:00:00.000-05:00</goAcknowledgeDate>
  <status>GO Acknowledged</status>
  <busName>bus x</busName>
  <pjmComments>Verify PJM comments for ticket </pjmComments>
  <toComments>Verify TO comments.</toComments>
  <goComments>New Test</goComments>
  <normalValues>
    <target>300</target>
    <lowerBound>100</lowerBound>
    <lowerValue>200</lowerValue>
    <upperBound>200</upperBound>
    <upperValue>500</upperValue>
  </normalValues>
  <lightValues>
    <target>250</target>
    <lowerBound>100</lowerBound>
    <lowerValue>150</lowerValue>
    <upperBound>200</upperBound>
    <upperValue>450</upperValue>
  </lightValues>
  <heavyValues>
    <target>250</target>
  </heavyValues>
</voltageSchedule>
```

The IRC Self Check should not be available during an Open IRC.

- When a user tries to perform an IRC Self Check during an open IRC, they will receive the error message, “ IRC Self check is not available when there is an open IRC.”

Download of generation tickets by date updated to return ticket with Unknown End = true.

- General Discussion Topics
- Generation Related Enhancements
- **Transmission Related Enhancements**
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New Reactive Reserve Check (RRC) download that returns a list of RRC Request IDs for a provided date range.

- type=rrcbydate
- Required parameters: 'start' and 'stop' (*mm/dd/yyyy*)

The RRC request IDs can then be used to download the RRC Report.

```

<?xml version="1.0" encoding="UTF-8" standalone="true"?>
- <rrcv2:rrcByDate xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rrcv2="http://www.pjm.com/external/schemas/rrc/v2"
  xsi:schemaLocation="http://www.pjm.com/external/schemas/rrc/v2 rrc.xsd">
  - <rrcIds endDate="2018-11-01T00:00:00.000-04:00" startDate="2018-10-01T00:00:00.000-04:00">
    - <rrcId>
      <id>788</id>
      <requestTimestamp>2018-10-31T11:09:03.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>787</id>
      <requestTimestamp>2018-10-31T11:06:41.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>771</id>
      <requestTimestamp>2018-10-12T12:42:24.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>770</id>
      <requestTimestamp>2018-10-12T12:12:15.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>769</id>
      <requestTimestamp>2018-10-12T11:41:34.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>768</id>
      <requestTimestamp>2018-10-12T11:39:45.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>767</id>
      <requestTimestamp>2018-10-12T11:24:51.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>748</id>
      <requestTimestamp>2018-10-02T10:48:50.000-04:00</requestTimestamp>
    </rrcId>
    - <rrcId>
      <id>747</id>
      <requestTimestamp>2018-10-02T10:08:54.000-04:00</requestTimestamp>
    </rrcId>
  </rrcIds>
</rrcv2:rrcByDate>

```

Mismatched equipment included but not easy to identify in RRC Self Check download.

- Equipment in eDART but not mapped to EMS
- Equipment in EMS but not mapped to eDART
- Mismatched equipment are read only for the RRC; their MVAR values cannot be updated and they cannot be acknowledged.

<mismatch_type> added to identify such equipment in the report.

- <mismatch_type> not displayed for non-mismatches.
- Mismatches are at the bottom of the report.

```
<capacitor>
  <mismatch_type>In EMS, not mapped to eDART</mismatch_type>
  <edart_availability>>false</edart_availability>
  <se_status>Offline</se_status>
  <se_kv>69.19</se_kv>
  <se_mvar>0</se_mvar>
  <rated_mvar>0.1</rated_mvar>
</capacitor>
<capacitor>
  <mismatch_type>In EMS, not mapped to eDART</mismatch_type>
  <edart_availability>>false</edart_availability>
  <se_status>Offline</se_status>
  <se_kv>69.43</se_kv>
  <se_mvar>0</se_mvar>
  <rated_mvar>12</rated_mvar>
</capacitor>
<unit ta_id="32398" unit_id="0">
  <mismatch_type>In eDART, not mapped to EMS</mismatch_type>
  <edart_availability>>false</edart_availability>
  <avr_auto>Y</avr_auto>
</unit>
<capacitor ta_id="99743">
  <mismatch_type>In eDART, not mapped to EMS</mismatch_type>
  <edart_availability>>false</edart_availability>
</capacitor>
```

Notify RRCHelp@pjm.com of mismatches.

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