



# DR Hub API

## Sample webservice request via SOAP UI, with response message:



The screenshot displays two panels in a SOAP UI interface. The left panel shows the raw XML of a SOAP request, and the right panel shows the raw XML of the corresponding SOAP response.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:mes="http://www.pjm.com/schema/dr/biznet/2009/message">
  <soapenv:Header/>
  <soapenv:Body>
    <mes:InformationRequest>
      <mes:Header>
        <mes:Verb>get</mes:Verb>
        <mes:Noun>registration</mes:Noun>
        <mes:Revision>001</mes:Revision>
        <mes:Source>123</mes:Source>
        <mes:UserID>yeatoa</mes:UserID>
      </mes:Header>
      <mes:Request>
        <mes:ID>1618474</mes:ID>
      </mes:Request>
    </mes:InformationRequest>
  </soapenv:Body>
</soapenv:Envelope>
  
```

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ResponseMessage xmlns="http://www.pjm.com/schema/dr/biznet/2009/message" xmlns:ns2="http://www.pjm.com/schema/dr/biznet/2009/message">
      <Header>
        <Verb>reply</Verb>
        <Noun>registration</Noun>
        <Revision>1.0</Revision>
        <Source>PJM</Source>
        <UserID>yeatoa</UserID>
        <MessageID>1474489537267</MessageID>
      </Header>
      <Reply>
        <ReplyCode>ok</ReplyCode>
      </Reply>
      <Payload>
        <ns2:Registrations xmlns:ns3="http://www.pjm.com/schema/dr/biznet/2009/message">
          <ns2:Registration>
            <ns2:id>1618474</ns2:id>
            <ns2:summaryInfo>
              <ns2:reference>R1618474</ns2:reference>
              <ns2:name>JimTstJul26</ns2:name>
              <ns2:type>Economic</ns2:type>
              <ns2:program>Economic</ns2:program>
              <ns2:startDate>2015-03-27-04:00</ns2:startDate>
              <ns2:endDate>2017-09-01-04:00</ns2:endDate>
              <ns2:CSP>
                <ns2:name>PE</ns2:name>
              </ns2:CSP>
              <ns2:EDC>
                <ns2:name>PE</ns2:name>
              </ns2:EDC>
              <ns2:LSE>
                <ns2:name>PE</ns2:name>
              </ns2:LSE>
              <ns2:zone>PECO</ns2:zone>
              <ns2:status>Confirmed</ns2:status>
            </ns2:summaryInfo>
            <ns2:locationInfo>
              <ns2:locationID>65270</ns2:locationID>
            </ns2:locationInfo>
          </ns2:Registration>
        </ns2:Registrations>
      </Payload>
    </ResponseMessage>
  </soap:Body>
</soap:Envelope>
  
```

- Utilize CLI for browserless transactions (upload/download)
- Sample Registration download below with successful response message:

```
REM Download Registration by ID
%CLIENT% -s %APP_URL% -a /rest/secure/download/registration/1526927

REM Download Registration with Parameters
REM %CLIENT% -s %APP_URL% -a /rest/secure/download/registration -q status=DUPLICATE

REM Download Registration with Parameters
REM %CLIENT% -s %APP_URL% -a /rest/secure/download/registration -q startDate=01-01-2016 stopDate=12-31-2016 -q status=NEW,CONFIRMED -q name=State University
```

```
Authenticating with PJM: X/
Download executing...
GET URL: https://drhub.test.pjm.com/drhub/rest/secure/download/registration/1526927
HTTP Status = 200 OK

Output File: C:\Personal\tools\pjm-cli-1.2.5-SNAPSHOT\.\download\registrations_2016-09-21-202743.xml
Output Size: 3 KB

Logging out...
SUCCESS (00:00:01.483)
```

- DR Hub page on Pjm.com:
  - <http://www.pjm.com/markets-and-operations/etools/dr-hub.aspx>
- DR Hub Web Services:
  - CLI User Guide - <http://www.pjm.com/~media/etools/dr-hub/cli-user-guide.ashx>
  - DR Hub XSD - <http://www.pjm.com/~media/etools/dr-hub/dr-hub-xsd.ashx>
- REST examples included on the DR Hub page on [www.pjm.com](http://www.pjm.com) and categorized by functions (Events, Settlements, Meter Data, Locations, Registrations)
- Questions and Comments – Please email [DRHubSupport@pjm.com](mailto:DRHubSupport@pjm.com)

# Demonstration

By Demand Response Operations