

# PJM Command Line Interface

PJM Interconnection LLC

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## Purpose

The purpose of this document is to give an overview of the command line interface (CLI), a Java based interface for transferring formatted files to and from PJM participant facing applications. Because the interface is “browser-less”, it can be used by an end user or a custom automation program written by the participant.

PJM provides this specification to aid PJM customers in building an external interface to PJM applications. PJM will provide assistance to customers seeking to understand or clarify details in this specification. However, due to the customizable nature of this external interface and the varied environments in which PJM customers will implement it, PJM is unable to provide application support for these customer-built external interfaces.

## System Requirements

All required software will either be provided by PJM or available for download from <http://www.oracle.com> or a vendor of your choice.

- A reliable internet connection
- Java Runtime Environment (JRE): Version 8 Patch 165 or higher is required. Java is available for Solaris, Linux, Mac OSX, AIX, and Windows. Java downloads are available at: <http://www.oracle.com>
- PJM provided Java CLI program: client side class to authenticate with PJM and transfer files. The current version is provided as a Java Archive (JAR) file.

## Release History

Release	Date	Description
1.0.0	July 3, 2012	Initial Release including Gas Pipeline and InSchedule.
1.0.8	Sep 05, 2012	Allowed for digital signature handling of SAML and minor bug fixes and optimizations.
1.0.9	Oct 05, 2012	Write jsession temp file to java.io.tmpdir where the application will always have write permissions.
1.1.2	Oct 25, 2012	Added CSV to XML -c switch for backward compatibility. Fixed bug with XML parsing.
1.1.3	Dec 03, 2012	Fixed for use with SSL proxy server params https.proxyHost etc reported by Ventyx/JP Morgan.
1.1.4	Apr 01 2013	Fixed potential issue with more than one HTML form on the login page.
1.1.5	Jul 09 2013	Added mime-type for application/xml if uploading XML file for ExSchedules

1.1.6	Feb 09 2014	Added instructions to ExSchedule action for withdrawing Day Ahead Bids.
1.1.7	March 31 2014	Added instructions for Power Meter
1.1.9	August 06, 2014	Updated ExSchedule and added Customer Outages
1.1.11	September 17, 2014	Updated for JCM Ramp Viewer, and added .NET example.
1.1.12	September 30, 2014	Updated to include Emergency Procedures.
1.1.13	January 18, 2015	Updated ExSchedule to add Interchange Available.
1.2.5	September 01, 2016	Added instructions for DR Hub
1.2.8	May 09, 2017	Updates for Power Meter 5 minute intervals
1.3.0	December 13, 2017	Single User Multiple Account (SUMA) Updates
1.3.3	December 12, 2018	Added OASIS information
1.3.4	January 4, 2019	Added Account Manager API information
1.3.9	November 1, 2019	Updated API example for Arrays.asList().
1.4.2	April 3, 2020	Added MSRS API information
1.5.0	Jun 23, 2020	CLI completely rewritten updated for JDK8 and PKI Certificates.
1.5.1	March 11, 2021	Updated MSRS and DR Hub APIs
1.5.2	January 10, 2022	CLI updated to include SHA3 hash for identity and integrity checks
1.5.4	February 18, 2022	Update to the way cookies are stored.
1.5.5	July 17, 2023	Updated Account Manager APIs
1.5.6	Aug 23, 2023	Updated DART URL

## Usage

The Command Line Interface can be used in one of two ways: either as a standalone program or through the API. The following section describes the two different usage options.

### *Standalone Application*

The CLI can be run as a standalone application from the command line by passing arguments to the application.

## Example Standalone Execution

```
C:\Personal>java -jar pjmccli.jar
```

PJM Command Line Interface 1.5.2

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Java: Java(TM) SE Runtime Environment 1.8.0\_281-b25 Oracle Corporation

OS: Windows 10 10.0 x86

ERROR: MissingOptionException: Missing required options: s, a, d

usage: pjmccli

-a,--action <String>	Action to execute (required)
-c,--csvToXml	Convert CSV download to XML format (optional)
-d,--directory <Directory>	Directory location of destination output (required)
-f,--file <File>	File location of upload file (required if this is an upload operation)
-h,--header <param=value>	Header parameters to attach (optional)
-k,--cookies	Disables cookie storage reducing performance and requiring SSO login on every call.
-l,--logging <String>	Log level of output TRACE, DEBUG, INFO, WARN, ERROR (default INFO)
-m,--mimeType <String>	Specify mimeType, defaults to text/plain
-o,--output <File>	Output result file or downloaded file (optional - will use name sent from application)
-p,--password <String>	Password (either encrypted or clear text)
-q,--query <param=value>	Query parameters to append to URL (optional)
-r,--certificate <certificate password>	PKI certificate location   PKI certificate password (either encrypted or clear text)
-s,--serviceUrl <URL>	PJM Application URL (required)
-t,--httpType <String>	Specify HTTP Type, options are GET, PUT, POST and DELETE. Defaults to GET or PUT based on action
-u,--username <String>	Username
-x,--proxy <param=value>	Proxy parameters for internet proxy in form of proxyPort=8000 for proxyHost, proxyPort, proxyPortSsl, proxyUser, proxyPassword, proxySSL (optional)
-z,--timeout <milliseconds>	Socket and connect timeout in

```
milliseconds, defaults to 60000
(optional)
```

As you can see the CLI is self-documenting and will alert you if you are missing any required parameters.

## Parameter Details

The table below describes the parameters in detail.

Argument	Description	Required/Optional
-a,--action	The action to execute which will be a partial URL appended onto the service URL. This will be either an upload or download action. Example: /rest/public/download/csv/notifications	Required
-c, --csvtoxml	If downloading a CSV file and you would like it converted to an xml format for easier parsing.	Optional
-d,--directory	Directory location of destination output files. These may be results from an upload or the contents of a download operation.	Optional
-f,--file	File location of upload file	Optional (required if performing an upload operation)
-h, --header	Header parameters to attach	Optional
-k --cookies	Disables cookie storage reducing performance and requiring SSO login on every call. (not recommended for most users)	Optional (defaults to false)
-l,--logging	Log level of output TRACE, DEBUG, INFO,WARN, ERROR (default INFO)	Optional (defaults to INFO)
-m, --mimetype	Specify mimeType	Optional (defaults to text/plain)
-o,--output	Output result file or downloaded file. The default will be the file name sent from the application such as "companies_2012-06-29-152315.csv". This parameter overrides that name with whatever you pass in like "companies.txt" would always force the name to companies.txt.	Optional
-p,--password	PJM account password from Account Manager. Password may be encrypted to prevent having clear text in any files. If encrypted must be surrounded by ENC(..). See section "Password Encryption".	Optional (If your app is not public then it is required)

-q,--query	Query parameters to append to the URL. These are documented later and are specific for each application. They are in the form of <param=value>	Optional (depends on the application and which query params it may accept)
-r,--certificate	PKI certificate location   PKI certificate password (either encrypted or clear text)	Optional (only if your application requires PKI)
-s,--serviceUrl	Service URL is the application URL you want to upload or download from. Example: https://gaspipe.pjm.com/gaspipe/	Required
-t, --httpType	Specify HTTP Type, options are GET, PUT, POST and DELETE.	Optional (Defaults to GET or PUT based on action)
-u,--username	PJM account username from Account Manager.	Optional (If your app is not public then it is required)
-x,--proxy	Proxy parameters for internet proxy. If your company internet access requires a proxy enter it here. Some proxies only require a URL and port number while some are secured as well and require a username and password. Example: -x proxyHost=myHost -x proxyPort=80 -x proxyPortSsl=443 -x proxyUser=myProxyUser -x proxyPassword=myProxyPass	Optional (use only if your company uses a proxy)
-z,--timeout	Sets the socket and connection timeouts. Defaults to 60 seconds however for some large files you may need to increase this timeout.	Optional (defaults to 60000 milliseconds)

## Password Encryption

Many participants choose to store their credentials in a file when calling the CLI. PJM provides example setEnv.cmd file for storing all of the common parameters of the CLI so a participant can then create custom CMD files that extend it. However, as a good security practice it is never recommended to store a password in plain text in a file. The CLI comes with a password encryption tool and associated CMD file for encrypting your password. You may then use this encrypted password in the password parameter of the CLI.

### Example Password Encryption

Using the password.cmd command file included with the CLI distribution.

```
C:\Personal\tools\web-cli>password "pjm123"
```

PJM CLI Password Encryptor 1.0



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Java: Java(TM) SE Runtime Environment 1.8.0\_181-b13 Sun Microsystems Inc.  
OS: Windows 10.0

Encrypting password 'pjm123'...  
Encrypted password: ENC(zoCSGqDTGqueZjXlI3a4Rg==)

In this example the password “pjm123” was encrypted to “ENC(zoCSGqDTGqueZjXlI3a4Rg==)”. The entire string including the ENC() must be passed to the password parameter for the CLI to realize the string is encrypted and needs to be decrypted.

## PKI Certificate Authentication

Public Key Infrastructure (PKI) is a technology for authenticating users and devices in the digital world. The basic idea is to have one or more trusted parties digitally sign documents certifying that a particular cryptographic key belongs to a particular user or device. PKI is the framework of encryption and cybersecurity that protects communications between the server (your website) and the client (the users). It works by using two different cryptographic keys: a public key and a private key. The public key is available to any user that connects with the website. The private key is a unique key generated when a connection is made, and it is kept secret. When communicating, the client uses the public key to encrypt and decrypt, and the server uses the private key. This protects the user’s information from theft or tampering.

PJM starting in 2021 will require some or all CLI services to be protected by PKI. More information will be available at <https://www.pjm.com> when the time comes. To use your certificate and password with the CLI you can use the new ‘-r’ option like:

```
-r ./cert/mycert.pfx|MyPassword12345
```

Or encrypt your certificate password:

```
-r ./cert/mycert.pfx|ENC(9ASkZOjxCw4MKxM+rtpL/7p4bLT7kPHy)
```

## Command Files (.cmd)

PJM includes DOS command files with the CLI release. These CMD files are executable in a Windows Command Prompt and allow for easier configuration of the file operations. All re-usable parameters are stored in setEnv.cmd and then that CMD file is reference in all of the custom CMD files per application. The command files are documented in the text of each file and all of the possible application calls will be included as examples.

## API – Application Programming Interface

An application programming interface (API) is a specification intended to be used as an interface by software components to communicate with each other. If a participant would like to embed code directly in their Java application rather than calling the external CLI program, they can use the API in their application. This requires the developer to implement their own Java

program and use the provided behaviors. The API is designed to use Streams for input and output. Downloads come in the form of a `java.io.OutputStream` allowing you to control the stream yourself using a `FileOutputStream`, `ByteArrayOutputStream`, or any `OutputStream` implementation. Uploads are sent in the form of `java.io.InputStream` so you can use any stream you want and not be constrained to using a file on disk if you already have the data in memory.

The example can be found in the CLI distribution in the location `/docs/api/ExampleApi.java`.

The API parameters mirror the CLI parameters listed in the section "Parameter Details".

## Java Download Example API Usage

```
/**
 * Example call to download a file from PJM into a ByteArrayOutputStream in
 * memory if you did not want to write the results to disk.
 */
public static void downloadToMemory() {
    try {
        final PjmRemoteCommand command = new PjmRemoteCommand();

        // first set up URL and credentials
        command.setServiceUrl("https://insched.pjm.com/inschedule/");
        command.setUsername("pjmuser");
        command.setPassword("Pjm4567!");

        // the URL action you want to execute
        command.setAction("/rest/secure/download/csv/contracts");

        // any query parameters required by the download
        command.getQueryParams().put("start", Arrays.asList("01-01-2012"));
        command.getQueryParams().put("stop", Arrays.asList("01-31-2012"));

        // create an output stream to capture the output result
        final ByteArrayOutputStream baos = new ByteArrayOutputStream();
        command.setOutputStream(baos);

        // execute the command and inspect the results
        final PjmResult result = PjmClient.execute(command);

        if (result.getResultCode() == PjmResult.CLI_SUCCESS) {
            System.out.println("Download succeeded for file: " + result.getFileName());
        } else {
            System.out.println("Download failed for file: " + result.getFileName());
        }

        // now you can inspect or manipulate the OutputStream results
        final String output = new String(baos.toByteArray());
        System.out.println(output);
    } catch (PjmClientException ex) {
        ex.printStackTrace();
    }
}
```

## Java Upload Example API Usage

```
/**
 * Uploads a file from disk to the PJM Servers.
 */
public static void upload() {
    try {
        final PjmRemoteCommand command = new PjmRemoteCommand();
        command.setServiceUrl("https://insched.pjm.com/inschedule/");
        command.setUsername("pjmuser");
        command.setPassword("Pjm4567!");

        // the URL action you want to execute
        command.setAction("/rest/secure/upload/file/");

        // a file upload requires an InputStream. It can be from a File like
        // this example, an in memory stream, or any other way of producing an
        // InputStream. The UploadFileName is purely a name for the server to
        // receive for logging purposes
        final File file = new File("my-upload.txt");
        command.setUploadFileName(file.getName());
        command.setInputStream(new FileInputStream(file));

        // create an output stream to capture the output result
        final ByteArrayOutputStream baos = new ByteArrayOutputStream();
        command.setOutputStream(baos);

        // execute the command and inspect the results
        final PjmResult result = PjmClient.execute(command);

        if (result.getResultCode() == PjmResult.CLI_SUCCESS) {
            System.out.println("Download succeeded for file: " + result.getFileName());
        } else {
            System.out.println("Download failed for file: " + result.getFileName());
        }

        // now you can inspect or manipulate the Outputstream results
        final String output = new String(baos.toByteArray());
        System.out.println(output);

    } catch (PjmClientException ex) {
        ex.printStackTrace();
    }
}
```

## .NET Example

PJM does not provide a native .NET example however we can call our Java CLI from .NET very easily. Attached in the ZIP in /docs/.net you will find some sample source code for calling the CLI using .NET. A brief example is below:

```
//Create process
System.Diagnostics.Process pProcess = new System.Diagnostics.Process();

//strCommand is path and file name of command to run
```

```
pProcess.StartInfo.FileName = "java";

//Optional
pProcess.StartInfo.WorkingDirectory = "C:/Personal/tools/pjm-cli/";

//strCommandParameters are parameters to pass to program
pProcess.StartInfo.Arguments = "-Xms64m -Xmx256m -jar pjm-cli.jar -u "+txtUsername.Text+"
-p "+txtPassword.Text+" -d ./download/ -z 180000 -s
https://exschedule.pjm.com/exschedule/ -a /rest/secure/download/xml/schedules -q start=09-
18-2014 -q stop=09-19-2014";

// hide window
pProcess.StartInfo.CreateNoWindow = true;
pProcess.StartInfo.UseShellExecute = false;

//Set output of program to be written to process output stream
pProcess.StartInfo.RedirectStandardOutput = true;

//Start the process
pProcess.Start();

//Get program output
string strOutput = pProcess.StandardOutput.ReadToEnd();

//Wait for process to finish
pProcess.WaitForExit();
Once the process finishes you can parse the output for "SUCCESS" or "FAILURE" reported from the CLI and anything else
printed out by the CLI.
```

## Single User Multiple Account (SUMA)

A certain set of applications will be enabled with the ability to use the Single User Multiple Account functionality. This functionality allows users to use one username and password across multiple accounts in applications. By default when connecting to an application the user's primary account will be used to retrieve or submit data. The default behavior can be overridden by providing an additional header in the request to set the account to be used. The user must have access to this account as well as the appropriate application access to use this functionality. The header which is used to override this behavior is "Suma-Account" and the value is the account's short name. Below are examples of overriding the default behavior to query data for account short name ABCD.

## Command File Example (.cmd)

The setenv.cmd file has been updated to include this header in the file. If you wish to override the account set the header to the accounts short name. For example:

```
set ACCOUNT=-h Suma-Account=ABCD
```

## Java API Example

When using the API provided by the CLI you can add the Suma-Account header to the command. For example:

```
command.getHeaderParams().put("Suma-Account", "ABCD");
```

## .NET Example

As mentioned above PJM does not provide a native .NET example, however, the header can be added to the example shown above. For example:

```
pProcess.StartInfo.Arguments = "-Xms64m -Xmx256m -jar pjm-cli.jar -u "+txtUsername.Text+"  
-p "+txtPassword.Text+" -d ./download/ -z 180000 -s  
https://exschedule.pjm.com/exschedule/ -a /rest/secure/download/xml/schedules -q start=09-  
18-2014 -q stop=09-19-2014" -h Suma-Account=ABCD;
```

## Supported Applications

As PJM refreshes each application in its portfolio they will be designed to use this Command Line Interface. The goal of this CLI is to have “convention over configuration”. This means that each application will handle file uploads and downloads using the same convention allowing this CLI to support current and future applications without needing to be released every time a new application is released.

Each application will be listed below as well as what Actions that application exposes to the CLI.

### Gas Pipeline

Type	Action	Parameters
Download	/rest/public/download/csv/notifications  Downloads a CSV file of all current critical notifications.	None

### JCM Ramp Viewer

Type	Action	Parameters
Download	/rest/public/download/xml/jcmramp/  Downloads an XML file of available ramp as either composite view, PJM only view, or MISO only view.	view=COMPOSITE,MISO,PJM  location=PJM,MISO  timezone=UTC, EST5EPT

### InSchedule

Type	Action	Parameters
Upload	/rest/secure/upload/file/	File to upload

	Uploads a flat file type of either internal schedules or reconciliations.	
Download	/rest/secure/download/csv/contracts  Downloads a CSV file of contracts. Can choose a date range or pending only if you only want pending contracts	pending=true/false  start=01-01-2012  stop=01-31-2012
Download	/rest/secure/download/csv/schedules  Downloads a CSV file of internal schedules. Can choose a date range or pending only if you only want pending schedules	pending=true/false  start=01-01-2012  stop=01-31-2012
Download	/rest/secure/download/csv/companies  Downloads a CSV file of Company static data. This is a complete list of active companies in the system. (includeHeader will put the header at top of file making it invalid CSV)	includeHeader=true/false
Download	/rest/secure/download/csv/reconciliations  Downloads a CSV file of Reconciliation data for a date range. (includeHeader will put the header at top of file making it invalid CSV)	includeHeader=true/false  start=01-01-2012  stop=01-31-2012
Download	/rest/public/download/csv/edclossfactor  Downloads a CSV file of EDC Loss Factor data for a date range. (includeHeader will put the header at top of file making it invalid CSV)	includeHeader=true/false  start=01-01-2012  stop=01-31-2012

### Power Contract Bulletin Board

Type	Action	Parameters
Download	/rest/public/download/csv/postings  Downloads a CSV file of all current bulletin board postings.	None

### ExSchedule

Type	Action	Parameters
------	--------	------------

Download	<pre>/rest/secure/download/xml/ramp/</pre> <p>Downloads an XML file of the current ramp availability for now plus the next 72 hours.</p>	None
Download	<pre>/rest/secure/download/xml/interchange/</pre> <p>Downloads an XML file of the current interchange availability for now plus the next 72 hours.</p>	None
Download	<pre>/rest/secure/download/xml/schedules</pre> <p>Downloads a XML file of all current schedules including Tags, Ramp Reservations and Day Ahead Bids for a given date range. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.</p> <p><b>stop (optional)</b> = the Stop date of the date range you are specifying.</p> <p><b>status (optional)</b> = Status is a comma separated list of only the ramp reservation statuses to return such as "Withdrawn,Expired".</p>	start=01-01-2012 stop=01-31-2012 status=Approved
Download	<pre>/rest/secure/download/xml/tagreservations</pre> <p>Downloads an XML file of the Tag Reservations for the date range. This report only contains implemented tags / approved ramp reservations.</p> <p><b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.</p> <p><b>stop (optional)</b> = the Stop date of the date range you are specifying.</p>	start=01-01-2012 stop=01-31-2012
Download	<pre>/rest/secure/download/xml/bids</pre> <p>Downloads an XML file of the Day Ahead Bids for the date range.</p> <p><b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.</p> <p><b>stop (optional)</b> = the Stop date of the date range you are specifying.</p>	start=01-01-2012 stop=01-31-2012
Download	<pre>/rest/secure/download/xml/bid</pre>	bid=T2000220

	Downloads an XML file of the Day Ahead Bid by name.  <b>bid (required)</b> = the name of the bid.	
Upload	/rest/secure/upload/xml/bid/  Uploads an XML file for a Day Ahead Bid.	File to upload
Upload	/rest/secure/withdraw/bid/  Withdraw profiles from a Day Ahead Bid by Bid Name  <b>-q</b> = Indicates query mode and to use the bid parameter to locate the bid for update.  <b>bid</b> = the name of the bid to withdraw.  <b>profile</b> = (optional) the status of the particular profile to withdraw from the bid. If no profile specified the entire bid is withdrawn.	-q  bid=T2000220  -q  profile=PENDING_OASIS
Upload	/rest/secure/upload/xml/reservation/  Uploads an XML file for a Ramp Reservation.	File to upload
Upload	/rest/secure/upload/xml/reservationbatch/  Uploads an XML file for uploading a batch of reservations to be evaluated together.	File to upload
Download	/rest/secure/download/xml/reservations  Downloads an XML file of the Ramp Reservations for the date range.  <b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.  <b>stop (optional)</b> = the Stop date of the date range you are specifying.	start=01-01-2012  stop=01-31-2012
Download	/rest/secure/download/xml/reservation  Downloads an XML file of the Ramp Reservation by name.  <b>reservation (required)</b> = the name of the reservation.	reservation=XYZ2000124
Download	/rest/secure/download/xml/creditusage	start=01-01-2012



	<p>Downloads an XML file of the Credit Usage on all tags for the date range.</p> <p><b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.</p> <p><b>stop (optional)</b> = the Stop date of the date range you are specifying.</p>	stop=01-31-2012
Download	<p>/rest/secure/download/xml/ctsbids</p> <p>Downloads an XML file of the CTS Bids for the date range.</p> <p><b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date.</p> <p><b>stop (optional)</b> = the Stop date of the date range you are specifying.</p>	start=01-01-2012 stop=01-31-2012
Download	<p>/rest/secure/download/xml/ctsbid</p> <p>Downloads an XML file of the CTS Bid by name.</p> <p><b>bid (required)</b> = the name of the bid.</p>	bid=CTS2000220
Upload	<p>/rest/secure/upload/xml/ctsbid/</p> <p>Uploads an XML file for a CTS Bid.</p>	File to upload
Upload	<p>/rest/secure/withdraw/ctsbid/</p> <p>Withdraw profiles from a CTS Bid by Bid Name</p> <p><b>-q</b> = Indicates query mode and to use the bid parameter to locate the bid for update.</p> <p><b>bid</b> = the name of the bid to withdraw.</p> <p><b>profile</b> = (optional) the status of the particular profile to withdraw from the bid. If no profile specified the entire bid is withdrawn.</p>	-q bid=CTS2000220 -q profile=REQUESTED

## OASIS

Type	Action	Parameters
Download/Upload	/rest/secure/ <i>templatename</i>	Refer to NAESB WEQ Business Practice Standards and PJM

	Replace <b>templatename</b> with valid NAESB or PJM offered template name.	OASIS API User Guide for more information about the accepted template requests.
--	--	---

## Power Meter

Type	Action	Parameters
Download	<pre>/rest/public/download/csv/edclossfactor</pre> <p>Downloads a CSV file of EDC Loss Factor data for a date range.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>includeHeader (optional)</b> = whether to put the header at the top of the file. This will make the file an invalid CSV</p>	<pre>start=01-01-2012</pre> <pre>stop=01-31-2012</pre> <pre>includeHeader=true/false</pre>
Download	<pre>/rest/secure/download/xml/dailysubmission</pre> <p>Downloads a XML file of daily meter submissions for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	<pre>start=01-01-2012</pre> <pre>stop=01-31-2012</pre> <pre>type=tie</pre>
Download	<pre>/rest/secure/download/csv/dailysubmission</pre> <p>Downloads a CSV file of daily meter submissions for a given date range and meter account type. All parameters are optional and will be given defaults.</p>	<pre>start=01-01-2012</pre> <pre>stop=01-31-2012</pre> <pre>type=tie</pre>

	<p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	
Download	<p><code>/rest/secure/download/xml/fiveminutesubmission</code></p> <p>Downloads a XML file of five minute meter submissions for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	<p>start=01-01-2012</p> <p>stop=01-31-2012</p> <p>type=tie</p>
Download	<p><code>/rest/secure/download/csv/fiveminutesubmission</code></p> <p>Downloads a CSV file of five minute meter submissions for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	<p>start=01-01-2012</p> <p>stop=01-31-2012</p> <p>type=tie</p>
Download	<p><code>/rest/secure/download/xml/dailyallocation</code></p>	<p>start=01-01-2012</p> <p>stop=01-31-2012</p>

	<p>Downloads a XML file of Daily Meter Allocations for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	type=tie
Download	<p><code>/rest/secure/download/csv/dailyallocation</code></p> <p>Downloads a CSV file of Daily Meter Allocations for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	start=01-01-2012 stop=01-31-2012 type=tie
Download	<p><code>/rest/secure/download/xml/monthlycorrection</code></p> <p>Downloads a XML file of Monthly Corrections for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	start=01-01-2012 stop=01-31-2012 type=tie
Download	<p><code>/rest/secure/download/csv/monthlycorrection</code></p>	start=01-01-2012

	<p>Downloads a CSV file of Monthly Corrections for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p> <p><b>id (optional)</b> = comma separated list of meter account ids.</p>	<p>stop=01-31-2012</p> <p>type=tie</p>
Download	<p>/rest/secure/download/xml/meteraccount</p> <p>Downloads a XML file of individual meter account for a given date and meter account id. Meter account Id is required.</p> <p><b>date (optional)</b> = the date of the meter account. If no start date is defined it will default to the last business day.</p> <p><b>id (required)</b> = the id of the meter account.</p>	<p>Date=01-01-2012</p> <p>id=12345</p>
Download	<p>/rest/secure/download/csv/meteraccount</p> <p>Downloads a CSV file of individual meter account for a given date and meter account id. Meter account Id is required.</p> <p><b>date (optional)</b> = the date of the meter account. If no start date is defined it will default to the last business day.</p> <p><b>id (required)</b> = the id of the meter account.</p>	<p>Date=01-01-2012</p> <p>id=12345</p>
Download	<p>/rest/secure/download/xml/meteraccounts</p> <p>Downloads a XML file of Monthly Corrections for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>date (optional)</b> = the date of the meter account. If no start date is defined it will default to the last business day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p>	<p>date=01-01-2012</p> <p>type=tie</p>
Download	<p>/rest/secure/download/csv/meteraccounts</p>	<p>date=01-01-2012</p>

	<p>Downloads a CSV file of Monthly Corrections for a given date range and meter account type. All parameters are optional and will be given defaults.</p> <p><b>date (optional)</b> = the date of the meter account. If no start date is defined it will default to the last business day.</p> <p><b>type (optional)</b> = the type of meter account which can be all, gen, or tie.</p>	type=tie
Download	<p><code>/rest/secure/download/xml/loadsubmission</code></p> <p>Downloads a XML file of Load Submissions for a given date range. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p>	
Download	<p><code>/rest/secure/download/csv/loadsubmission</code></p> <p>Downloads a CSV file of Load Submissions for a given date range. All parameters are optional and will be given defaults.</p> <p><b>start (optional)</b> = the start date of the date range you are specifying. If no start date is defined it will default to the last business day.</p> <p><b>stop (optional)</b> = the stop date of the date range you are specifying. If no stop date is defined it will default to start date + one day.</p>	
Upload	<p><code>/rest/secure/upload/xml/dailysubmission/</code></p> <p>Uploads an XML file for Daily/Five Minute Meter Submission.</p>	File to upload
Upload	<p><code>/rest/secure/upload/csv/fiveminutesubmission/</code></p> <p>Uploads a CSV file for Five Minute Meter Submission.</p>	File to upload
Upload	<p><code>/rest/secure/upload/xml/loadsubmission/</code></p> <p>Uploads an XML file for Load Submission.</p>	File to upload
Upload	<p><code>/rest/secure/upload/xml/monthlycorrection/</code></p> <p>Uploads an XML file for Monthly Correction.</p>	File to upload

## Emergency Procedures

Type	Action	Parameters
Download	/rest/public/posting  Downloads postings active in the current and previous 2 days.	none
Download	/rest/public/posting  Downloads postings active for a given date range. All parameters are optional and will be given defaults.  <b>start (optional)</b> = the Start date of the date range you are specifying. If no start date is defined it will default to Today's date minus 2 days.  <b>stop (optional)</b> = the Stop date of the date range you are specifying. If no stop date is defined it will default to Tomorrow at midnight.  <b>priority (optional)</b> =If specified, will only retrieve postings matching the specified priority type. See the Message Definitions page for a list of available priorities.  <b>drill (optional)</b> =If specified, will apply the appropriate filter for PJM drills. Options include:  INCLUDE – include PJM drills in download (default) EXCLUDE – exclude PJM drills in download. ONLY – only include PJM drills in download.  <b>activeOnly (optional)</b> = true or false indicating whether or not the download should only include currently active postings. Defaults to false.  <b>paiOnly(optional)</b> =true or false indicating whether or not the download should only include PAI postings. Defaults to false.	start=01-01-2012  stop=01-31-2012  priority=Informational  drill=exclude  activeOnly=true  paiOnly=true

## DR Hub

### DR Hub Events

Type	Action	Parameters
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Download	/rest/secure/download/event/loadmanagement/acknowledgeable  Downloads unacknowledged events for Load Management Events.  Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	none
Download	/rest/secure/download/event/realtimedispatch/acknowledgeable  Downloads unacknowledged events for Real Time Events  Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	none
Download	/rest/secure/download/event/synchronizedreserve/acknowledgeable  Downloads unacknowledged events for Synchronized Reserve Events  Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	none
Download	/rest/secure/download/event/testloadmanagementevent/acknowledgeable  Downloads unacknowledged events for Test Load Management Events  Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	none
Download	/rest/secure/download/event/testpriceresponsivedemandevent/acknowledgeable  Downloads unacknowledged events for Test Price Responsive Demand Events  Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	
Download	/rest/secure/download/event/zonalemergencyenergy/acknowledgeable  Downloads unacknowledged events for Zonal Emergency Energy Events	none



	Note: The Request will download Unacknowledged Events with an End Date equal to null or less than one hour in the past.	
Download	/rest/secure/download/event/loadmanagement/123  Downloads Load Management Event by ID.  To download other event types replace loadmanagement with one of the following:  dayaheadenergy, loadmanagementsummary, pricerresponsivedemand, pricerresponsivedemandsummary, realtimedispatch, realtimedispatchsummary, resourceoutage, synchronizedreserve, synchronizedreservesummary, testloadmanagementevent, testloadmanagementsummary, testpricerresponsivedemandevent, testpricerresponsivedemandsummary, zonalemergencyenergy, or zonalemergencyenergysummary	none
Download	/rest/secure/download/event/loadmanagement  Downloads Load Management Event by date range.  To download other event types replace loadmanagement with one of the following:  dayaheadenergy, loadmanagementsummary, pricerresponsivedemand, pricerresponsivedemandsummary, realtimedispatch, realtimedispatchsummary, resourceoutage, synchronizedreserve, synchronizedreservesummary, testloadmanagementevent, testloadmanagementsummary, testpricerresponsivedemandevent, testpricerresponsivedemandsummary, zonalemergencyenergy, or zonalemergencyenergysummary  <b>startDate (optional)</b> = the Start date of the date range you are specifying. <b>stopDate (optional)</b> = the Stop date of the date range you are specifying.	startDate=01-01-2016  stopDate=01-31-2016
Download	/rest/secure/download/event/testloadmanagementsummary/123  Downloads Test Load Management Summary by ID.	none
Download	/rest/secure/download/event/testloadmanagementsummary/  Downloads Test Load Management Summary by date parameters.	startDate=MM-DD-YYYY stopDate=MM-DD-YYYY
Download	/rest/secure/download/event/pricerresponsivedemand/123  Downloads Price Responsive Demand detail by ID.	none

Download	/rest/secure/download/event/priceresponsivedemand/  Downloads Price Responsive Demand detail by date parameters.	startDate=MM-DD-YYYY stopDate=MM-DD-YYYY
Download	/rest/secure/download/event/priceresponsivedemandsummary/123  Downloads Price Responsive Demand Summary by ID.	none
Download	/rest/secure/download/event/priceresponsivedemandsummary/  Downloads Price Responsive Demand Summary by date parameters.	startDate=MM-DD-YYYY stopDate=MM-DD-YYYY
Download	/rest/secure/download/event/testpriceresponsivedemandsummary/123  Downloads Test Price Responsive Demand Summary by ID.	None
Download	/rest/secure/download/event/testpriceresponsivedemandsummary  Downloads Test Price Responsive Demand by date parameters.	startDate=MM-DD-YYYY stopDate=MM-DD-YYYY
Upload	/rest/secure/upload/event/testloadmanagementsummary/create/  Upload and create a Test Load Management Summary.	File to upload
Upload	/rest/secure/upload/event/testloadmanagementsummary/12345  Upload and update a Test Load Management Summary.	File to upload
Upload	/rest/secure/upload/event/testpriceresponsivedemandsummary/create/  Upload and create a Test Price Responsive Demand Summary.	File to upload
Upload	/rest/secure/upload/event/testpriceresponsivedemandsummary/12345  Upload and update a Test Price Responsive Demand Summary.	File to upload
Upload	/rest/secure/upload/event/loadmanagement/acknowledge  Upload and acknowledge a list of Load Management Events.	File to upload
Upload	/rest/secure/upload/event/realtimedispatch/acknowledge  Upload and acknowledge a list of Real Time Dispatch Events.	File to upload

Upload	/rest/secure/upload/event/synchronizedreserve/acknowledge  Upload and acknowledge a list of Synchronized Reserve Events.	File to upload
Upload	/rest/secure/upload/event/testloadmanagementevent/acknowledge  Upload and acknowledge a list of Test Load Management Events.	File to upload
Upload	/rest/secure/upload/event/testpriceresponsivedemandevent/acknowledge  Upload and acknowledge a list of Test Price Responsive Demand Events.	File to upload
Upload	/rest/secure/upload/event/zonalemergencyenergy/acknowledge  Upload and acknowledge a list of Zonal Emergency Energy Events.	File to upload

## DR Hub Settlements

Type	Action	Parameters
Download	/rest/secure/download/settlement/123  Downloads the Settlement by ID.	none
Download	/rest/secure/download/settlement/  Downloads the Settlement by date range.  <b>start (optional)</b> = the Start date of the date range you are specifying.  <b>stop (optional)</b> = the Stop date of the date range you are specifying.	start=01-01-2016  stop=01-31-2016
Upload	/rest/secure/settlement/123/deny  Deny the Settlement by ID.  <b>comment (optional)</b> = A comment for denying a Settlement.	comment=reason for denying a settlement.
Upload	/rest/secure/settlement/123/confirm  Confirm the Settlement by ID.  <b>comment (optional)</b> = A comment for confirming a Settlement.	comment=reason for confirming a settlement.

Upload	/rest/secure/settlement/123/dispute  Dispute the Settlement by ID.  <b>comment (required)</b> = A comment for disputing a Settlement.	comment=reason for disputing a settlement.
Upload	/rest/secure/settlement/123/submit  Submit the Settlement by ID.	none
Upload	/rest/secure/upload/settlement/modify  Modify the settlement by uploading an XML file.	File to upload

## DR Hub Meter Data

Type	Action	Parameters
Download	/rest/secure/download/meterdata/daily  /rest/secure/download/meterdata/interval  Downloads the Daily or Interval Meter Data based on the parameters.  Note: either of locationId or registrationId is required; optionally both may be provided	registrationId=ID of the Registration for which to download Meter Data (required if locationId is not provided)  locationId=ID of the Location for which to download Meter Data (required if registrationId is not provided)  startDate=01-01-2016  stopDate=01-31-2016
Download	/rest/secure/download/meterdata/expected-reduction	zones=A comma-separated list of

	Downloads the Expected Reduction Data based on the parameters.	zone names for which to download Expected Reduction data  startDate=01-01-2016  stopDate=01-31-2016
Upload	/rest/secure/upload/meterdata/daily  /rest/secure/upload/meterdata/interval  Upload the given Meter Data XML file.	File to upload
Upload	/rest/secure/upload/meterdata/expected-reduction  Upload the given Expected Reduction XML file.	File to upload

## DR Hub CBL

Type	Action	Parameters
Download	/rest/secure/download/cblcalculation/cbltest/1234  Downloads the CBL Test for the Registration ID provided in the request.  Note: This download returns a zip file with all the CBL test results	Registration ID
Download	/rest/secure/download/cblcalculation/settlement/1234  Downloads the CBL Calculation for the Settlement ID provided in the request.	Settlement ID
Upload	/rest/secure/upload/cblcalculation/cbltest/execute  Upload the given CBL Test parameters in the XML file and executes the CBL test.	File to upload
Upload	/rest/secure/upload/cblcalculation/settlement/execute  Upload the given CBL Calculation parameters in the XML file and executes the CBL Calculation.	File to upload

## DR Hub Locations

Type	Action	Parameters
Download	/rest/secure/download/location/1234  Downloads the Location for the Location ID provided in the request.	Location ID
Download	/rest/secure/download/location  Downloads the Locations for the IDs or name provided in the request.	ids=A comma-separated list of Location IDs  name=A string representing part, or all, of a Location's name. If multiple Locations match the name value, they will all be returned  zones=A comma-separated list of Zone names  edcAccountNumber=A string representing part, or all, of an EDC Account Number. If multiple Locations match the EDC Account Number, they will all be returned  lastModifiedDate=Returns Locations modified after the given date
Download	/rest/secure/download/location/1234/document  Downloads a ZIP archive that includes all the documents associated with the given Location.	Location ID
Upload	/rest/secure/upload/location/create  Validates and creates the given Location in the XML file.	File to upload

Upload	/rest/secure/upload/location/1234  Validates and updates the given Location in the XML file.	File to upload
Upload	/rest/secure/upload/location/1234/document  Validates and uploads the given document associated with the Location.  Note: Description is required. A file cannot be larger than 10 MB. Supported file types include CSV, XLS, XLSX, PPT, DOC, DOCX, PDF, and ZIP.	Location ID  Description – string description of the file  File to upload

## DR Hub Registrations

Type	Action	Parameters
Download	/rest/secure/download/registration/1234  Downloads the Registration for the Registration ID provided in the request.	Registration ID
Download	/rest/secure/download/registration  Downloads the Registrations for the parameters provided in the request.	status=A comma-separated list of Registration Statuses  startDate=Start Date to query against the Registration Effective Date  stopDate=Stop Date to query against the Registration Effective Date  name=A string representing part, or all, of a Registration's name. If multiple Registrations match the name value, they will all be returned  lastModifiedDate=Returns Registrations modified after the given date
Download	/rest/secure/download/registration/1234/document	Registration ID  registrationDocumentType – section of the registration

	Downloads a ZIP archive that includes all the documents associated with the given Registration.	document belongs to; valid values are SYNCH_RESERVE, REGULATION_PLAN, ONE_LINE_DIAGRAM, DA_SCHEDULING_RESERVE, or INCREMENTAL_COST.  Description – string description of the file
Upload	/rest/secure/upload/registration/create  Validates and creates the given Registration in the XML file.	File to upload
Upload	/rest/secure/registration/123/submit  Submit the Registration by ID.	override=Override duplicate registration warning
Upload	/rest/secure/registration/123/withdraw  Withdraw the Registration by ID.	none
Upload	/rest/secure/registration/123/dispute  Dispute the Registration by ID.	comment=required
Upload	/rest/secure/upload/registration/calculatewpl  Calculate winter peak load for the Registration IDs in the XML file	File to upload
Upload	/rest/secure/upload/registration/complete  Marks the given Registration IDs as complete in the XML file.	File to upload
Upload	/rest/secure/upload/registration/1234/terminate  Terminates the Registration by ID.	terminateDate=required for registrations that allow for it
Upload	/rest/secure/upload/registration/1234/extend  Extends the Registration by ID.	terminateDate=required
Upload	/rest/secure/upload/registration/1234/document  Validates and uploads the given document associated with the Registration in the specified section.	Registration ID  registrationDocumentType – section of the registration document belongs to; valid values are SYNCH_RESERVE, REGULATION_PLAN, ONE_LINE_DIAGRAM,



	Note: RegistrationDocumentType and Description are required. A file cannot be larger than 10 MB. Supported file types include CSV, XLS, XLSX, PPT, DOC, DOCX, PDF, and ZIP.	DA_SCHEDULING_RESERVE, or INCREMENTAL_COST.  Description – string description of the file  File to upload
Upload	/rest/secure/upload/registration/1234 -file  Modifies an existing registration by ID.	Registration ID  File to upload

## DR Hub Task

Type	Action	Parameters
Download	/rest/secure/download/task/  Downloads all task for user.	none
Download	/rest/secure/download/task/registration/edc/  Downloads all EDC Registration tasks for user.	none
Download	/rest/secure/download/task/registration/lse/  Downloads all LSE Registration tasks for user.	none
Upload	/rest/secure/upload/task/registration/edc/  Acts on the EDC Registration tasks in the upload file.	File to upload
Upload	/rest/secure/upload/task/registration/lse/  Acts on the LSE Registration tasks in the upload file.	File to upload

## DR Hub Compliance

Type	Action	Parameters
Download	/rest/secure/download/compliance/  Downloads Compliance records based on the supplied parameters.	registrationId=The ID of the Registration on the Compliance records

		<p>startDate=The start of the range to select (based on Event Date)</p> <p>stopDate=The end of the range to select (based on Event Date)</p> <p>status=The status to select</p>
Download	<p>/rest/secure/download/compliance/validate/</p> <p>Validates and returns the Compliance records for the supplied IDs.</p>	<p>Ids=A comma-separated list of Compliance IDs to validate</p>

## DR Hub Dispatch Group

Type	Action	Parameters
Download	<p>/rest/secure/download/dispatchgroup/1234</p> <p>Downloads the Dispatch Group for the ID provided in the request.</p>	<p>The ID of the dispatch group.</p>
Download	<p>/rest/secure/download/dispatchgroup</p>	<p>name=A string representing part, or all, of a Dispatch Group's name. If multiple Dispatch Group match the name value, they will all be returned</p> <p>effectiveDate =The specific day to search</p>

## DR Hub MOPR Detail

Type	Action	Parameters
Download	/rest/secure/download/moprdetail/all	

## Account Manager

Type	Action	Parameters
Download	<p>/rest/secure/download/csv/userSearch</p> <p>Downloads a CSV file of user information based on the supplied search criteria.</p> <p>Requires Account Manager API access.</p>	<p>username=The username to search (* wildcard available)</p> <p>activeOnly=T/F flag indicating whether to search active or terminated users - defaults to T</p> <p>accountId=The ID of the user's employer</p> <p>accountName=The Name of the user's employer (* wildcard available)</p> <p>accountShortName=The Short Name of the user's employer (* wildcard available)</p> <p>firstName=The first name of the user (* wildcard available)</p> <p>lastName=The last name of the user (* wildcard available)</p> <p>systemId=T/F flag indicating whether to</p>

		<p>search systems IDs or not - defaults to show all</p> <p>emailAddress=The email address of the user (* wildcard available)</p> <p>phone=The phone number of the user (* wildcard available)</p>
Upload	<p>/rest/secure/registrations</p> <p>Sends a User Registration request to Account Manager.</p>	

## MSRS

Type	Action	Parameters
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Download	<p>/rest/secure/download/reports</p> <p>Downloads a CSV, XML, or PDF report based on the search criteria provided</p>	<p><b>shortName</b>=The short name of the report in compact form (all lowercase and without spaces)</p> <p>shortName=monthlybillingstatement-csvandxml</p> <p><b>start</b>=The start date of the selection date range (MM-dd-yyyy)</p> <p>start=04-03-2020</p> <p><b>stop</b>=The stop date of the selection date range (MM-dd-yyyy)</p> <p>stop=04-03-2020</p> <p><b>version</b>=The version of the report; valid values=L (Latest), A (All Billed), B (Latest Billed), or O (Original Billed)</p> <p>version=L</p> <p><b>format</b>=The format of the report; valid values=C (CSV), X (XML), or P (PDF)</p> <p>format=X</p> <p><b>requestAll</b>=Optional flag to allow SUMA users to request a report containing information from all of their available accounts; defaults to false; valid values=true/false</p> <p>requestAll=true</p>
Download	<p>/rest/secure/download/reportNames</p> <p>Downloads a list of report names that are available for downloading in MSRS. These names can be used as the value for</p>	

	the shortName parameter in the webservice call /rest/secure/download/reports	
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## ***Dart***

Due to the size and scope of the Dart browserless endpoints, additional documentation has been created specifically for this tool.

Please review the Dart User Guide on PJM.com, here: <https://www.pjm.com/-/media/etools/edart/dart-browserless-user-guide.ashx>