

Outpost Central REST API



Version: 2.230317

Table of Content

API Overview	2
API Reference	3
Get /API/2.0/dataservice	3
Request	3
Example	4
Get /API/2.0/meterservice	9
Request	9
Example	10
Get /API/2.0/settingservice	14
Request	14
Example	14
Get /API/2.0/loginservice	15
Request	15
Example	15

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

Change Control:

Version	Detail
2.230317	Added more detail on where to find the input Id
2.200521	Added next telemetry in dataservice.
2.190618	Fixed example query for dataservice.
2.180503	Updated LoginService description.
2.180302	Added TimezoneId in DataService and MeterService
2.160111	Updated the definition of the disableAccount querystring in SettingService
2.151117	Fixed incorrect xsd name in MeterService sample XML
2.150507	Excluded all Internal inputs from the DataService
2.150506	Added new querystring includeParentInputName and hideSysInput in DataService (CSV only)
2.140618	Added new querystring manualReading in Dataservice
2.140530	dateFrom in DataService is made optional
2.130909	Added custom datetime format; Added group user support to Loginservice
2.130829	Fixed error in doc
2.130724	Added Meterservice
1.130505	Added Loginservice
1.121018	Added Settingservice
1.110108	1st cut

API Overview

The OutpostCentral API allows our customers to fetch and change information in the Outpost Central.com solution such as your logged data and the configuration of your loggers and sites.

The OutpostCentral API uses RESTful principles where each resource has a unique URI and HTTP verbs are used to specify the action to perform on that resource.

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

API Reference

Get /API/2.0/dataservice

Gets all data associated with the User Name that you provide as a parameter. A User Name can be one of 3 levels.

1. Client - Access to all Sites and loggers belonging to a client
2. Group - Access to all Sites belonging to a group. Groups of sites are maintained in outpostcentral.com
3. Site - Access to only one site

Users must have administrative privileges to call the data API Request

This request will return all data that the user has access to between the dateFrom and dateTo dates specified as parameters.

Data records are associated with an Input within a Site. The physical logger that is installed at a site can change after installation without interrupting the continuity of data in each site input. The data method will also return information on the logger that is currently installed at each site (if a logger is installed)

Request

Parameter	Description
userName (Required)	Your User Name.
password (Required)	Your Password.
dateFrom (Optional)	The beginning date to retrieve data from. No data point will be retrieved if not specified. (Format: dd/MMM/yyyy HH:mm:ss)
dateTo (Optional)	The end date to retrieve data to. Retrieves one month of data since dateFrom if not specified. (Format: dd/MMM/yyyy HH:mm:ss)
outpostID (Optional)	Only retrieve data from a single Outpost when specified. i.e. OP1234
inputID (Optional)	Only retrieve data from a single Input when specified. The input id is an integer value that appears in the URL of the page where an input is configured.

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

inputName (Optional)	Only retrieve data from Inputs with the specified name.
format (Optional)	The format of the output. Available options: xml, csv Default value: xml <i>(The order of the columns in csv format may change when input is added or deleted.)</i>
status (Optional)	The status of the Outpost. Available options: installed, notinstalled, expired Default: installed
datetimeFormat (Optional)	Datetime format. Default: yyyy-MM-ddTHH:mm:ss Recommended: yyyy-MM-ddTHH:mm:sszzz
manualReading (Optional)	Retrieve inputs' manual readings instead of sensor readings. Available options: true, false Default: false
includeParentInputName (Optional)	Include the parent input name as part of the column headers. Available options: true, false Default: false <i>(currently only available for csv format)</i>
hideSysInput (Optional)	Hide all system inputs which do not support data readings. Available options: true, false Default: false <i>(currently only available for csv format)</i>
timezoneId (Optional)	TZ Database (IANA) Timezone Id. Specify the timezone that the user viewing the data wants. If dateFrom, dateTo are specified, these dates will also be based on the timezoneId. For a full list of available timezoneIds see: https://en.wikipedia.org/wiki/List_of_tz_database_time_zones

Example

To get data from the OutpostCentral.com database that your client user name has access to since midnight on the 1st of September 2009 perform the following HTTP request:

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

GET [https://www.outpostcentral.com/api/2.0/dataservice/mydata.aspx?userName=\[Your_username\]&password=\[Your_Password\]&dateFrom=1/Sep/2009&dateTo=1/Sep/2010&dateformat=yyyy-MM-ddTHH:mm:sszzz&timezoneId=Pacific/Auckland](https://www.outpostcentral.com/api/2.0/dataservice/mydata.aspx?userName=[Your_username]&password=[Your_Password]&dateFrom=1/Sep/2009&dateTo=1/Sep/2010&dateformat=yyyy-MM-ddTHH:mm:sszzz&timezoneId=Pacific/Auckland)

This will respond with the following XML document describing the data

```
<?xml version="1.0" encoding="utf-8"?>
<opdata:data xsi:schemaLocation="http://www.outpostcentral.com/api data.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:opdata="http://www.outpostcentral.com/api">
  <opdata:sites>
    <opdata:site>
      <name>Outpost Central Office</name>
      <id>1</id>
      <projectReference></projectReference>
      <latitude>-36.3461381</latitude>
      <longitude>174.7771415</longitude>
      <firmware>63.2</firmware>
      <account_active>true</account_active>
      <opdata:loggers>
        <opdata:logger>
          <last_telemetry>2009-09-02T09:30:32+12:00</last_telemetry>
          <next_telemetry>2009-09-02T09:30:32+12:00</next_telemetry>
          <id>op0001</id>
          <make>Outpost</make>
          <model>OP5-LP-WS</model>
          <imsi>95840431032156</imsi>
          <sim>22394102530109</sim>
        </opdata:logger>
      </opdata:loggers>
      <opdata:inputs>
        <opdata:input>
          <name>Temperature</name>
          <id>1</id>
          <scadaTagID></scadaTagID>
          <logInterval>300</logInterval>
          <unit>°C</unit>
          <opdata:records>
            <opdata:record>
              <value>20</value>
              <date>2009-09-02T00:00:24+12:00</date>
            </opdata:record>
            <opdata:record>
              <value>21</value>
              <date>2009-09-02T00:05:09+12:00</date>
            </opdata:record>
          </opdata:records>
        </opdata:input>
      </opdata:inputs>
    </opdata:site>
  </opdata:sites>
</opdata:data>
```

Outpost Central REST API



www.outpostcentral.com

Version: 2.230317

```
    </opdata:record>
  </opdata:records>
</opdata:input>
<opdata:input>
  <name>Soil Moisture</name>
  <id>2</id>
  <scadaTagID></scadaTagID>
  <logInterval>300</logInterval>
  <unit>%</unit>
  <opdata:records>
    <opdata:record>
      <value>41.6906</value>
      <date>2009-09-02T00:00:10+12:00</date>
    </opdata:record>
    <opdata:record>
      <value>41.693</value>
      <date>2009-09-02T00:05:05+12:00</date>
    </opdata:record>
  </opdata:records>
</opdata:input>
</opdata:inputs>
</opdata:site>
</opdata:sites>
</opdata:data>
```

Response XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:opdata="http://www.outpostcentral.com/api"
  targetNamespace="http://www.outpostcentral.com/api">
  <xs:element name="data">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="opdata:sites"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="sites">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="opdata:site" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Outpost Central REST API



www.outpostcentral.com

Version: 2.230317

```
</xs:element>
<xs:element name="site">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name" type="xs:string" />
      <xs:element name="id" type="xs:integer" />
      <xs:element name="projectReference" type="xs:string" nillable="true" />
      <xs:element name="latitude" type="xs:decimal" nillable="true" />
      <xs:element name="longitude" type="xs:decimal" nillable="true" />
      <xs:element name="firmware" type="xs:string" />
      <xs:element ref="opdata:loggers" />
      <xs:element ref="opdata:inputs" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="loggers">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="opdata:logger" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="logger">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="last_telemetry" type="xs:dateTime" nillable="true" />
      <xs:element name="next_telemetry" type="xs:dateTime" nillable="true" />
      <xs:element name="id" type="xs:string" />
      <xs:element name="make" type="xs:string" />
      <xs:element name="model" type="xs:string" nillable="true" />
      <xs:element name="imsi" type="xs:string" />
      <xs:element name="sim" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="inputs">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="opdata:input" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="input">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name" type="xs:string" nillable="true" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

```
<xs:element name="id" type="xs:integer" />
<xs:element name="scadaTagID" type="xs:string" nillable="true" />
<xs:element name="logInterval" type="xs:integer" nillable="true" />
<xs:element name="unit" type="xs:string" />
<xs:element ref="opdata:records" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="record">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="value" type="xs:decimal" />
      <xs:element name="date" type="xs:dateTime" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="records">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="opdata:record" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```


Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

Get /API/2.0/meterservice

Gets all meter data associated with the User Name that you provide as a parameter. A User Name can be one of 3 levels.

1. Client - Access to all Sites and loggers belonging to a client
2. Group - Access to all Sites belonging to a group. Groups of sites are maintained in outpostcentral.com
3. Site - Access to only one site

Users must have administrative privileges to call the data API Request

This request will return all meter data that the user has access to on dateRead specified as parameters.

Data records are associated with an Input within a Site. The physical logger that is installed at a site can change after installation without interrupting the continuity of data in each site input. The data method will also return information on the logger that is currently installed at each site (if a logger is installed)

Request

Parameter	Description
userName (Required)	Your User Name.
password (Required)	Your Password.
dateRead (Required)	The date of the meter reading user want to retrieve. (Format: dd/MMM/yyyy HH:mm:ss)
outpostID (Optional)	Only retrieve data from a single Outpost when specified. i.e. OP1234
inputID (Optional)	Only retrieve data from a single Input when specified. The input id is an integer value that appears in the URL of the page where an input is configured.
inputName (Optional)	Only retrieve data from Inputs with the specified name.
status (Optional)	The status of the Outpost. Available options: installed, notinstalled, expired Default: installed

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

datetimeFormat (Optional)	Datetime format. Default: yyyy-MM-ddTHH:mm:ss Recommended: yyyy-MM-ddTHH:mm:sszzz
timezoneId (Optional)	TZ Database (IANA) Timezone Id. Specify the timezone that the user viewing the data wants. If dateRead is specified, this date will also be based on the timezoneId. For a full list of available timezoneIds see: https://en.wikipedia.org/wiki/List_of_tz_database_time_zones

Example

To get all data from the OutpostCentral.com database that your client user name has access to since midnight on the 1st of September 2009 perform the following HTTP request:

GET [https://www.outpostcentral.com/api/2.0/meterservice/mydata.aspx?userName=\[Your_Username\]&password=\[Your_Password\]&dateRead=1/Sep/2009%2000:00:00&datetimeFormat=yyyy-MM-ddTHH:mm:sszzz&timezoneId=Pacific/Auckland](https://www.outpostcentral.com/api/2.0/meterservice/mydata.aspx?userName=[Your_Username]&password=[Your_Password]&dateRead=1/Sep/2009%2000:00:00&datetimeFormat=yyyy-MM-ddTHH:mm:sszzz&timezoneId=Pacific/Auckland)

This will respond with the following XML document describing the data

```
<?xml version="1.0" encoding="utf-8"?>
<opdata:data xsi:schemaLocation="http://www.outpostcentral.com/api meter.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:opdata="http://www.outpostcentral.com/api">
  <opdata:sites>
    <opdata:site>
      <name>Outpost Central Office</name>
      <id>1</id>
      <projectReference></projectReference>
      <latitude>-36.3461381</latitude>
      <longitude>174.7771415</longitude>
      <firmware>63.2</firmware>
      <account_active>true</account_active>
      <opdata:loggers>
        <opdata:logger>
          <last_telemetry>2009-09-02T09:30:32+12:00</last_telemetry>
          <id>op0001</id>
          <make>Outpost</make>
          <model>OP5-LP-WS</model>
          <imsi>95840431032156</imsi>
```

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

```
<sim>22394102530109</sim>
</opdata:logger>
</opdata:loggers>
<opdata:inputs>
  <opdata:input>
    <name>Water Meter #1</name>
    <id>1</id>
    <scadaTagID></scadaTagID>
    <logInterval>300</logInterval>
    <unit>litre</unit>
    <opdata:meterreading>
      <opdata:record>
        <value>12031421</value>
        <date>2009-09-02T00:05:09+12:00</date>
      </opdata:record>
    </opdata:meterreading>
  </opdata:input>
</opdata:inputs>
</opdata:site>
</opdata:sites>
</opdata:data>
```

Response XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:opdata="http://www.outpostcentral.com/api"
  targetNamespace="http://www.outpostcentral.com/api">
  <xs:element name="data">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="opdata:sites"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="sites">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="opdata:site" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="site">
    <xs:complexType>
```

Outpost Central REST API



www.outpostcentral.com

Version: 2.230317

```
<xs:sequence>
  <xs:element name="name" type="xs:string" />
  <xs:element name="id" type="xs:integer" />
  <xs:element name="projectReference" type="xs:string" nillable="true" />
  <xs:element name="latitude" type="xs:decimal" nillable="true" />
  <xs:element name="longitude" type="xs:decimal" nillable="true" />
  <xs:element name="firmware" type="xs:string" />
  <xs:element ref="opdata:loggers" />
  <xs:element ref="opdata:inputs" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="loggers">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="opdata:logger" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="logger">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="last_telemetry" type="xs:dateTime" nillable="true" />
      <xs:element name="id" type="xs:string" />
      <xs:element name="make" type="xs:string" />
      <xs:element name="model" type="xs:string" nillable="true" />
      <xs:element name="imsi" type="xs:string" />
      <xs:element name="sim" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="inputs">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="opdata:input" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="input">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name" type="xs:string" nillable="true" />
      <xs:element name="id" type="xs:integer" />
      <xs:element name="scadaTagID" type="xs:string" nillable="true" />
      <xs:element name="logInterval" type="xs:integer" nillable="true" />
      <xs:element name="unit" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Outpost Central REST API



www.outpostcentral.com

Version: 2.230317

```
        <xs:element ref="opdata:meterreading" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="record">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="value" type="xs:decimal" />
            <xs:element name="date" type="xs:dateTime" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="meterreading">
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="opdata:record" minOccurs="0" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>
```

Outpost Central REST API



Version: 2.230317

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Get /API/2.0/settingservice

Use settingservice module to change the settings of an Outpost associated with the User Name that you provide as a parameter. A User Name can be one of 3 levels.

1. Client - Access to all Sites and loggers belonging to a client
2. Group - Access to all Sites belonging to a group. Groups of sites are maintained in outpostcentral.com
3. Site - Access to only one site

Users must have administrative privileges to call the data API Request

This request will update a specific setting on a Outpost.

Request

Parameter	Description
userName (Required)	Your User Name.
password (Required)	Your Password.
outpostID (Required)	The ID of the Outpost of which the settings will be changed
accountActive	Open or close the valve. Value: true or false

Example

To disable the account for Outpost ID OP1234:

GET [https://www.outpostcentral.com/api/2.0/settingservice/mysettings.aspx?userName=\[Your_Username\]&password=\[Your_Password\]&outpostID=OP1234&accountActive=false](https://www.outpostcentral.com/api/2.0/settingservice/mysettings.aspx?userName=[Your_Username]&password=[Your_Password]&outpostID=OP1234&accountActive=false)

Outpost Central REST API



Version: 2.230317

www.outpostcentral.com

Get /API/2.0/loginservice

Create a temporary Outpost login URL from a Site or Group username.

Users must have administrative privileges to call the data API Request

Request

Parameter	Description
userName (Required)	Your Client User Name.
password (Required)	Your Client Password.
loginUsername (Required)	The username which you want to create the temporary login URL from. This must be a site or Group user.
expiryMinutes	The number of minutes after which the temporary URL will expire. Default value is 60. Maximum value is 1440.
loginLimit	The number of times the url can be used to login. Unlimited by default.

Example

Create a one time login link for user robert123:

GET [https://www.outpostcentral.com/api/2.0/loginservice/mysettings.aspx?userName=\[Your Client User Name\]&password=\[Your Client Password\]&loginUsername=robert123](https://www.outpostcentral.com/api/2.0/loginservice/mysettings.aspx?userName=[Your Client User Name]&password=[Your Client Password]&loginUsername=robert123)

This will respond with the an url which gives a one time login to user robert123's account e.g.

www.outpostcentral.com/remote/loginsession.aspx?uid=1234&tc=qweasdzxc

User can redirect to a specific page without the main page frame by appending the query string "redir=PageName.aspx" to the URL returned by the API e.g.

www.outpostcentral.com/remote/loginsession.aspx?uid=1234&tc=qweasdzxc&redir=mypage.aspx