[DelREMO] – Webservices Specifications

V 1.6

This document provides specifications for the webservices used in fitterclient iOS app. All the webservices accepts input as the Form URL-Encoded and provides response in JSON format.

The basic format of JSON response as follows:

p

1. Login

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Login

= Method : login

= Method Type : POST

= Description :

This webservice, will accept username/email and password. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| LoginID | String | This is the registered email address with DelREMO. |
| Password | string | This is the password associated with the account of the user. |
| MAC | string | This is the device mac address to identify the customers it can be null |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | String | This token will be generated by the server after successfully authenticating the credentials in the DB. This will work as the session key for all the further webservice calls and will authenticate the validity of the user. |
| User | Dictionary | After successfully logging in, server provides the user details.  "ActiveToken": [  {  "TokenID": "63682720233211023972",  "ExpDate": "2019-01-24T12:27:49.9617859+05:30",  "LoginID": "admin"  }  ] |

1. Power and Irradiation Values to Draw a Chart

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/PwrNdIrr

= Method Type : POST

= Description :

This webservice, will accept the tokenID , Site ID and Date and it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| EvTime | Date | **Ex:12-JAN-2019** |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| PowerAndIrr | Array | The array of the power and irradiance values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"dateTime":"12-Jun-2016 05:00:00","Irradiance":"38.00","Power":"0.00"}] |

1. Energy Values of daily/monthly/yearly to Plot Chart and show the values

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/SiteKWh

= Method Type : POST

= Description :

This webservice, will accept the tokenID , Site ID , Date and Energy search period and it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| EvTime | Date | **Ex:12-JAN-2019** |
| EnergySearchPeriod | string | **Ex: month/daily/year** |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteEnergy | Array | The array of the energy values will be generated by the server after successfully authenticating the credentials in the DB.  Ex Daily: [{"DateTime":"12-Jun-2016 05:00:00","KWH":"0.00"}].  Ex Month: [{"DateTime":"01-Jun-2016","KWH":"6583.445"}].  Ex Year: [{"DateTime":"Jan-2016","KWH":"151651.00"}] |

1. Site Details with full Information

= Link : [[URL]](https://www.fitterclients.com/v1s/login): <https://delremo.emonitoring.co.in/dlrapiV2/api/UserSiteList> or

<http://web103.64.202.new.ocpwebserver.com//dlrapiV1/api/UserSiteList> ( for testing purpose it will fetch all site details for supportuser loginID)

= Method Type : POST

= Description :

This webservice, will accept the token ID after login will provide the site information such as latitude and longitude. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | String | This is the registered email address with fitterclients.com. |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteList | Array | The array of the site details will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"SiteId":3564,"SiteName":"23rd & 25th Battalion Bhopal","Critical":0,"Minor":0,"Major":0,"ComStatus":"synced","AlarmCatgory":"ok","powerCapacity":"11","Latitude":"23.223653","Longitude":"77.380683"}] |

1. Other Parameters of Site Detials

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Homeinfo

= Method Type : POST

= Description :

This webservice, will accept the tokenID , Site ID and Date and it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | String | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| EvTime | Date | **Ex:12-jun-2018** |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| siteHomeInfo | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex:[{"TotalKWH":"2173989.80","TodayKWH":"4643.71","Alarms":"0","Power":"231.87"}] |

1. Site Attached Inverter Details

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Analytics/siteatchdinvdetails

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteInvDetails | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"SiteID":"3163","GatewayID":"D8:80:39:84:D7:FD","InvID":"1","Phase":"3","InvStatus":"1"}] |

1. Other Parameters of Site Detials

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/SiteInfo/Basic

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| siteInfo | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"SiteID":"3163","SiteName":"AAI-NSCBI Airport","NoOfInv":"34","InstalledPowerDC":"2000","InstalledPowerAC":"1680","DateOfCommissioning":"05-10-2015 00:00:00","DateOfIntegration":"13-10-2015 00:00:00","PlantDescription":"2000 kWp Solar PV Power Plant","PanelType":"MultiCrystalline","PanelWattage":"260","NoOfPvPanel":"7695","PanelTilt":"20","ModuleEffi":"15.53","KWhRates":"7.8","PacketDuration":"7","Longitude":"88.44","Latitude":"22.65","PlantArea":"12312","Address":"AAI NSCBI Airport Kolkata ","Country":"India","IsPCurveSelect":false,"PCurveValue":"0","IsUPSAvail":false,"IsFollowIEC61724Std":true,"IsEnergyMeterAvil":false,"IsMultiGwAtchd":true,"CommunicationVia":"GSM","SiteStatus":"Ready"}],"siteImages":[{"Image1Url":"delremo.emonitoring.co.in/DLRAPI/api/SiteINfo/GetImage?SiteID=3163&PlntImg=PImg1","Image2Url":"delremo.emonitoring.co.in/DLRAPI/api/SiteINfo/GetImage?SiteID=3163&PlntImg=PImg2","Image3Url":"delremo.emonitoring.co.in/DLRAPI/api/SiteINfo/GetImage?SiteID=3163&PlntImg=PImg3"}]} |

1. Site Inverter AC and DC , Voltage and Current Details

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Analytics/InvVCInfo

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| InvID | Integer | Ex : 1 |
| EvTime | Date | Ex : 13-Jun-2018 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteInvACVC | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB and this will be a 5 minutes’ interval data will be used for to plot the chart.  Ex: [{"DateTime":"13-Jun-2016 05:01:14","VoltagePhase1":"0","VoltagePhase2":"0","VoltagePhase3":"0","CurrentPhase1":"0","CurrentPhase2":"0","CurrentPhase3":"0"} ] |

1. Site Inverter Alarm Details for History

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/sitealarms

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| InvID (Optional) | Integer | Ex : 1 |
| AlarmSelectionCategory | String | Ex: history |
| To | Date | Ex : 13-Jun-2018 |
| From | Date | Ex : 14-May-2018 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteAlarmsList | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"SiteID":"3311","ActiveTime":"20-May-2016 07:24:42","AlarmDesc":"No Grid","AlarmOn":"Inverter 1","AlarmCategory":"Error","DeactiveTime":"21-May-2016 07:06:30","Status":"Deactive"}] |

1. Site Inverter Alarm Details for Current Alarms

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/sitealarms

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| Site ID | Integer | Ex:3163 |
| InvID (optional) | Integer | Ex : 1 |
| AlarmSelectionCategory | String | Ex: current |
| To (Optional) | Date | Ex : 13/Jun/2018 |
| From (Optional) | Date | Ex : 14/May/2018 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SiteAlarmsList | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: [{"SiteID":"3311","ActiveTime":"20-May-2016 07:24:42","AlarmDesc":"No Grid","AlarmOn":"Inverter 1","AlarmCategory":"Error","DeactiveTime":"21-May-2016 07:06:30","Status":"Active"}] |

1. Site Performance Ratio(PR)

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Analytics/PR

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| SiteID | Integer | Ex : 1 |
| EvTime | String | Ex: 25-JAN-2019 |
| PRSearchType | String | Ex : day/month |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| SitePRCalculated | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: {  "SitePRCalculated": [  {  "SiteID": "6940",  "Date": "01-Jan-2019",  "PR": "0.00"  },  {  "SiteID": "6940",  "Date": "02-Jan-2019",  "PR": "0.00"  }, |

1. Site Inverter Communication Trend(PR)

= Link : [[URL]](https://www.fitterclients.com/v1s/login): https://delremo.emonitoring.co.in/dlrapiV2/api/Analytics/CommunicationTrend

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| SiteID | Integer | Ex : 1 |
| From | String | Ex: 25-JAN-2019 |
| To | String | Ex : 25-JAN-2019 |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| CommunicationTrend | Array | The array of the site values will be generated by the server after successfully authenticating the credentials in the DB.  Ex: {  "CommunicationTrend": [  {  "DelRemoTime": "28-Jan-2019 04:05:18",  "PortalTime": "28-Jan-2019 03:42:43",  "InvComStatus": "0",  "GatewayId": "54:10:EC:17:9B:84"  },  {  "DelRemoTime": "28-Jan-2019 04:05:41",  "PortalTime": "28-Jan-2019 04:04:06",  "InvComStatus": "0",  "GatewayId": "D8:80:39:BA:BB:AC"  }]} |

1. DelREMO contact Info

= Link : [[URL]](https://www.fitterclients.com/v1s/login): http://web103.64.202.new.ocpwebserver.com/dlrapiV1/api/Contact

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token\_DELTA | string | Pass parameter ‘123’. |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| ContactArray | Array | Ex: {  "ContactArray": [  {  "name": "Delta Power Solutions (India) Private Limited",  "address": "Plot No. 43, Sector 35, HSIIDC, Gurgaon – 122001, Haryana, India",  "city": "Gurugram",  "country": "India",  "email": "info@delremo.emonitoring.co.in",  "phone": "+91 (124) 4874900",  "mobile": "+91 7676254716"  }] |

1. DelREMO Home page Info

= Link : [[URL]](https://www.fitterclients.com/v1s/login): http://web103.64.202.new.ocpwebserver.com/dlrapiV1/api/GetDRData

= Method Type : POST

= Description :

This webservice, will accept the **Token\_DELTA**. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token\_DELTA | string | Pass parameter ‘123’. |

= Output

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| DRDatainfo | Array | Ex: {  "DRDatainfo": [  {  "energy": 1210098560,  "capacity": 334569.344,  "plantnumber": "2853"  }  ]  } |

1. DelREMO Forgot Password

= Link : [[URL]](https://www.fitterclients.com/v1s/login): http://web103.64.202.new.ocpwebserver.com/dlrapiV1/api/forgotpassword

= Method Type : POST

= Description :

This webservice, will accept the **Token\_DELTA**. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| LoginID | String | This is the registered email address with DelREMO. |
| Token\_DELTA | string | Pass parameter ‘123’. |

= Output

|  |
| --- |
| Description |
| Ex: Here success failure messages depends on httpstatus code  If HttpStatus.OK = 200 mail sent to user mail ID  Other than this status mail did not sent to the mail ID. |

1. Export Excel API(MAIL)

= Link : [[URL]](https://www.fitterclients.com/v1s/login): http://web103.64.202.new.ocpwebserver.com/dlrapiV1/api/sendreportmail

= Method Type : POST

= Description :

This webservice, will accept the tokenID and Site ID it will provide response according to the date. It will authenticate the credentials with the server.

= Input:

|  |  |  |
| --- | --- | --- |
| Key/Entry | Type | Description |
| Token ID | string | Token ID will got once we login to application |
| SiteID | Integer | Ex : 1 |
| EvTime | String | Ex: 25-JAN-2019 |
| PRSearchType | String | Ex : day/month |
| EmailID | String | “mail ID which should be validate before send to API like normal mail ID format is correct or not” |

= Output

|  |
| --- |
| Description |
| Ex: Here success failure messages depends on httpstatus code  If HttpStatus.OK = 200 mail sent to user mail ID  Other than this status mail did not sent to the mail ID. |