

REST API

Introduction

The AVE system provides programmatic access to a project using a simple and powerful application programming interface of type REST. To use this document, you should have a basic familiarity with software development, the HTTP protocol, the REST interface, and the AVE system. Some parts of the documentation are generated dynamically and available only in English. Therefore, a good knowledge of this language is also required.

Basic principles

Data exchange is based on the REST (Representational State Transfer) principle, i.e., on easy-to-use communication via the HTTP protocol and the JSON data format. As per the REST architecture, the server does not store any information on the client session at the server side.

Each object in AVE (e.g., a device) has a name and ID. In this API, objects are referenced by ID (a unique numeric identifier within an object type). Additionally, most objects also have an alias – a user-defined, language-dependent (localized) substitute object name designed to be displayed in the user interface. All time stamps in both requests and responses are in UTC.

Request

All requests have one endpoint in common and request arguments are passed as parameters in the URL. Currently, only the GET HTTP command (verb) is supported.

GetPlaces

Returns information about consumption places.

Request example:

```
GET https://www.ave-system.com/website/api/GetPlaces.rails?_dc=1549359115474&sessionId=6262cc292fb3777575a0572cf4fc3f01&filter=&page=1&start=0&limit=50
```

Required parameters:

- **sessionId**

Note: It is a session ID generated when logging on to the system; it is used for authorization in multiple requests.

Other parameters:

- dc
- page (represents AVE Web Client's page number)
- start
- limit

Response example:

```
{ "PageItems": [ { "Id": 22887, "Eic": "", "CustomerName": "", "PlaceName": "", "PayerName": "", "PayerId": "", "CustomerId": "", "PlaceId": "FATURA_MODULU_ARSIV", "DeviceLocation": "", "Terminated": false, "Region": "Test", "RegionId": 9, "ConnectionMethod": "none", "PurchaseCategory": "none", "ConvertCoefficient": 1.0, "DeviceType": "Other", "IdentificationNumber": "", "LastData": "2018-10-04T22:32:47.103", "DeviceSerialNumber": "", "PlaceStreet": "", "PayerStreet": "", "PlaceCity": "", "PayerCity": "", "PlaceZipCode": "", "PayerZipCode": "", "Dealer": "", "ReadingCategory": "none", "ValidatedBy": "", "ValidatedTill": "", "IsDataValidated": false, "ValidationNote": "", "Gps": "", "Device": 0, "ReadRequestStatus": 6, "ReadDescription": "Dnes ještě nevyčteno", "Note": "", "Group": "", "Workplace": "", "HasTimeWindows": false, "HasBattery": false, "HasGasComposition": false, "BatteryCapacity": 0.0, "BatteryVoltage": 0.0, "DailyData": false, "Scadald": "" }, and 49 consumption places more...
```

GetDeviceTags

Returns a device's tags.

Request example:

```
GET https://www.ave-system.com/website/api/GetDeviceTags.rails?_dc=1549362337399&placeId=22862&sessionId=6262c292fb3777575a0572cf4fc3f01&page=1&start=0&limit=25&sort=%5B%7B%22property%22%3A%22VisualPosition%22%2C%22direct
```

Required parameters:

- sessionId

Other parameters:

- dc
- placeId (represents a consumption place's ID)

Response example:

```
[{"Id":13, "DataType":"Float", "DataCharacter":"Counter", "DataCharacterDescription":"Counter", "AggregationType":"Average", "AggregationTypeDescription":"Average", "Period":"Hour", "PeriodDescription":"Hour", "Address":3, "DecimalPlaceCount":3, "ConvertCoefficient":1.0, "Name":"Primary volume", "Description":"","Units":"m3", "Group":"","NameWithUnits":"Primary volume (m3)", "FieldName":"Vm", "DiffTagFieldName":"","VisualPosition":1, "LowCriticalLimit":0.0, "HighCriticalLimit":0.0, "LowWarningLimit":0.0, "HighWarningLimit":0.0, "IsLowCriticalLimitEnabled":false, "IsHighCriticalLimitEnabled":false, "IsLowWarningLimitEnabled":false, "IsHighWarningLimitEnabled":false, "Enabled":true, "Visible":true, "IsComputed":false, "IsReadOnly":false, and many tags more...
```

GetDeviceData

Returns a device's data.

Request example:

```
GET https://www.ave-system.com/website/api/GetDeviceData.rails?_dc=1549362337497&placeId=22862&dateFrom=2019-02-01&dateTo=2019-02-06&dataType=1&truncateData=0&withDaylightSavingTime=0&isoDate=1&sessionId=6262cc292fb3777575a0572cf4fc3f01&page=1&start=0&limit=25
```

Required parameters:

- placeId
- sessionId

Other parameters:

- dc
- dateFrom
- dateTo

Response example:

```
[{"StandardTime":"2019-02-01T06:00:00", "Timestamp":"2019-02-01T06:00:00", "OperatingAmount":0.0, "ConvertAmount":0.0, "OperatingDifference":0.0, "ConvertDifference":0.0, "ConvertCoefficient":1.0, "Correction":0.0, "Temperature":null, "Pressure":1.1, "SampleState":0, "Consumption":0.0, "Energy":null, "EnergyConsumption":null, "DeviceSerialNumber":"1808000396", "StateOfArchiveValues":null, "DealerLicenceNumberHash":null, "ManuallyInserted":null, "Edited":false, "Imported":null, "UserId":0, "LastChangeDate":null, "IsChangedRow":null, "Battery_EVC":87.84, "Battery":94.5, "BatteryVoltage_EVC":3.43, "BatteryVoltage":3.62, "Temperture":0.63, "Tint":1.13, "Vm":65216.1, "Vs":0.0, "Vb":72549.566, "Vbs":0.0, "Qb":0.36, "C":1.14, "K":1.0, "Flow":0.32, "Pressure_2":1.0, "Temperture_2":-0.04, "Vm_2":6.2, "Flow_2":0.0, "C_2":1.04, "K_2":1.0, "Vb_2":5.94, "Vbs_2":0.0, "Vs_2":0.0, "Qb_2":0.0, "SampleStateDescription":"Ok"}, and more data...
```

GetActualValues

Returns current values.

Request example:

```
GET https://www.ave-system.com/website/api/GetActualValues.rails?_dc=1549366423199&sessionId=6262cc292fb3777575a0572cf4fc3f01&placesIds=22862&page=1&start=0&limit=25&sort=%5B%7B%22property%22%3A%22Name%22%2C%22direction%22%3A%22ASC%22%7D%5D
```

Required parameters:

- sessionId

Response example:

```
{"Items":[{"PlaceId":22862, "Mark":"Timestamp", "Name":"Timestamp", "Value":"2019-02-05T06:11:07.000", "ValueType":"System.DateTime", "Units":"","State":"","Status":"","Address":0, "TagName":"","TagFieldName":"","TagDescription":"","AddressEx":"","TagGroupName":"","TagHasBindingToAlarm":false, "AlarmEntry":null, "ValueAsObject":"\Date(1549343467000+0100)\\"}]}
```

GetExportTypes

Returns information about export types.

Request example:

```
GET https://www.ave-system.com/website/api/GetExportTypes.rails?_dc=1549367536597&sessionId=6262cc292fb3777575a0572cf4fc3f01&page=1&start=0&limit=25
```

Required parameters:

- sessionId

Response example:

```
[{"id":89, "type":"RawData", "description":"Raw data", "fileExtension":"xls"}, {"id":90, "type":"RawDataOneSheet", "description":"Raw data (one sheet XLS)", "fileExtension":"xls"}, {"id":91, "type":"RawDataPlainCsv", "description":"Raw data (plain CSV)", "fileExtension":"csv"}, {"id":0, "type":"HourlyData", "description":"Hourly data", "fileExtension":"xls"}, {"id":1, "type":"HourlyDataOneSheet", "description":"Hourly data (one sheet XLS)", "fileExtension":"xls"}, {"id":2, "type":"HourlyDataPlainCsv", "description":"Hourly data (plain CSV)", "fileExtension":"csv"}, {"id":3, "type":"HourlyDataVerbose", "description":"Hourly data (detailed XLSX)", "fileExtension":"xlsx"}, {"id":4, "type":"DailyData", "description":"Daily data", "fileExtension":"xls"}, {"id":5, "type":"DailyDataOneSheet", "description":"Daily data (one sheet XLS)", "fileExtension":"xls"}, {"id":6, "type":"DailyDataPlainCsv", "description":"Daily data (plain CSV)", "fileExtension":"csv"}, {"id":7, "type":"MonthlyData", "description":"Monthly data", "fileExtension":"xls"}, {"id":8, "type":"MonthlyDataOneSheet", "description":"Monthly data (one sheet XLS)", "fileExtension":"xls"}, {"id":9, "type":"MonthlyDataPlainCsv", "description":"Monthly data (plain CSV)", "fileExtension":"csv"}, {"id":83, "type":"ExportFromTemplateRawData", "description":"Template export (raw data)", "fileExtension":"xlsx"}, {"id":84, "type":"ExportFromTemplateHourlyData", "description":"Template export (hourly data)", "fileExtension":"xlsx"}, {"id":85, "type":"ExportFromTemplateDailyData", "description":"Template export (daily data)", "fileExtension":"xlsx"}, {"id":86, "type":"ExportFromTemplateMonthlyData", "description":"Template export (monthly data)", "fileExtension":"xlsx"}, {"id":10, "type":"SimplifiedOutput", "description":"Simplified output", "fileExtension":"xls"}, {"id":11, "type":"DetailedDataInGroup", "description":"Detailed data in group", "fileExtension":"xls"}, {"id":12, "type":"ConsumptionForTimeSpan", "description":"Consumption (period)", "fileExtension":"xls"}, {"id":13, "type":"ConsumptionForTimeSpanByMonths", "description":"Consumption (monthly - period)", "fileExtension":"xls"}, {"id":14, "type":"ExtremeValues", "description":"Extreme values (hourly and daily min / max)", "fileExtension":"xls"}, {"id":16, "type":"DailyConsumption", "description":"Customers daily consumption", "fileExtension":"xls"}, {"id":33, "type":"SourceDataUni", "description":"Source data UNI (raw data from device)", "fileExtension":"csv"}, {"id":15, "type":"SourceDataCsv", "description":"Source data CSV (raw data from device)", "fileExtension":"csv"}, {"id":81, "type":"BaskentgazHourlyData", "description":"Hourly consumption report", "fileExtension":"xlsx"}, {"id":82, "type":"BaskentgazDailyData", "description":"Daily consumption report", "fileExtension":"xlsx"}, {"id":109, "type":"LatviaXmlExport", "description":"Latvia XML", "fileExtension":"xml"}, {"id":113, "type":"CsvZipExport", "description":"Zip file with CSV", "fileExtension":"zip"}]
```

```
"fileExtension": "zip"}, {"id": 120, "type": "MonthlyMinMaxEnergyExport", "description": "Monthly Report with max values (EDATHESS)", "fileExtension": "xlsx"}]
```

GetDeviceRuntimeParameters

Request example:

```
GET https://www.ave-system.com/website/api/GetDeviceRuntimeParameters.rails?_dc=1549439422737&sessionId=8b0b6f4d4c38d85ce427fa9a4df9cafb&placeId=22898&page=1&start=0&limit=25&sort=%5B%7B%22property%22%3A%22Category%22%2C%22direction%22%3A%22ASC%22%7D%2C%7B%22property%22%3A%22SubCategory%22%2C%22direction%22%3A%22ASC%22%7D%2C%7B%22property%22%3A%22Description%22%2C%22direction%22%3A%22ASC%22%7D%5D
```

Required parameters:

- sessionId

Response example:

```
{"Items": [],  
"Count": 0}
```

GetDeviceAlarms

Returns a device's alarms.

Request example:

```
POST https://www.ave-system.com/website/api/GetDeviceAlarms.rails
```

Required parameters:

- sessionId

Response example:

```
[]
```


GetProfiles

Returns information contained in the Profiles tab.

Request example:

```
GET https://www.ave-system.com/website/api/GetProfiles.rails?_dc=1549440707432&sessionId=8b0b6f4d4c38d85ce427fa9a4df9cafb&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
{PageItems: [...], Count: 40, TotalCount: 40} Count: 40 PageItems: [...] 0: {id: 13531, name: "Automatic report", description: "", regionId: 6, created: "2018-04-11T09:16:13.483",...} 1: {id: 13481, name: "Category A profile", description: "", regionId: 6,...} 2: {id: 13482, name: "Category B profile", description: "", regionId: 6,...} 3: {id: 13538, name: "cdd", description: "", regionId: 9, created: "2018-10-23T13:39:17.600",...} 4: {id: 13518, name: "chodov data checks", description: "", regionId: 9,...} 5: {id: 13520, name: "Communication Bridge",...} 6: {id: 13508, name: "data check test profile", description: "", regionId: 9,...} 7: {id: 13537, name: "Datawerhaus Web Service", description: "", regionId: 6,...} 8: {id: 13502, name: "demo", description: "for web service client windows app", regionId: 6,...} 9: {id: 13517, name: "enemeter_profile", description: "aa", regionId: 14,...} 10: {id: 13528, name: "ESCOM_TEST_01", description: "ESCOM_TEST_01", regionId: 6,...} 11: {id: 13510, name: "Export do ELGASU", description: "nemazat", regionId: 9,...} 12: {id: 13539, name: "HR - Scada to AVE", description: "profil pro DP Scada to AVE", regionId: 9,...} 13: {id: 13540, name: "HR - Scada to AVE 30s", description: "profil pro DP Scada to AVE 30s", regionId: 9,...} 14: {id: 13497, name: "IGDAS data pump", description: "", regionId: 9, created: "2015-07-28T13:08:09.803",...} 15: {id: 13535, name: "IoT", description: "", regionId: 6, created: "2018-07-02T09:55:36.873",...} 16: {id: 13519, name: "Johnson Control", description: "Profil pro DP Johnson controls", regionId: 9,...} 17: {id: 13500, name: "Latvia XML", description: "", regionId: 9, created: "2016-07-13T13:31:32.640",...} 18: {id: 13511, name: "paul 1", description: "test", regionId: 6, created: "2017-03-14T15:28:03.457",...} 19: {id: 13498, name: "PGAS Data pump", description: "", regionId: 9, created: "2015-08-05T12:58:17.930",...} 20: {id: 13495, name: "PLUM Pressure monitoring", description: "", regionId: 9,...} 21: {id: 13516, name: "Portugal", description: "aa", regionId: 6, created: "2017-07-13T17:42:11.117",...} 22: {id: 13513, name: "Readout A", description: "", regionId: 6, created: "2017-05-15T13:19:32.813",...} 23: {id: 13501, name: "RelianceToAve", description: "Profile for RelianceToAve (Actual values) data pump",...} 24: {id: 13526, name: "RFlo Daily", description: "Profil pro datovou pumpu RFlo Daily", regionId: 9,...} 25: {id: 13525, name: "RFlo Hourly", description: "Profil pro datovou pumpu RFlo Hourly", regionId: 9,...} 26: {id: 13489, name: "SQL Export", description: "", regionId: 6, created: "2015-02-25T12:44:45.707",...} 27: {id: 13522, name: "super region", description: "", regionId: -2, created: "2017-11-20T10:34:19.997",...} 28: {id: 13536, name: "syria", description: "profil pro automatické exporty", regionId: 9,...} 29: {id: 13507, name: "Telemetry Services", description: "", regionId: 9,...} 30: {id: 13514, name: "Test", description: "", regionId: 6, created: "2017-05-15T13:26:51.810",...} 31: {id: 13542, name: "TEST", description: ""},
```

```
regionId: 9, created: "2018-12-17T12:52:26.117",...} 32: {id: 13524, name: "TEST - uživatelsky
definovaný", description: "", regionId: 9,...} 33: {id: 13541, name: "test_changeRegion", description:
"", regionId: 9,...} 34: {id: 13509, name: "test_property", description: "", regionId: 9, created: "2017-
01-30T09:55:14.933",...} 35: {id: 13532, name: "test2", description: "", regionId: 6, created: "2018-
05-03T13:05:41.917",...} 36: {id: 13530, name: "testing devices", description: "", regionId: 6, created:
"2018-04-10T14:25:14.057",...} 37: {id: 13506, name: "Valid timestamps", description: "", regionId: 9,
created: "2016-11-11T12:28:27.300",...} 38: {id: 13487, name: "velveta", description: "", regionId: 7,
created: "2015-01-14T13:04:01.083",...} 39: {id: 13512, name: "Vemex", description: "", regionId: 6,
created: "2017-05-11T14:38:16.797",...} TotalCount: 40
```

GetProfilePlaces

Returns information about each profile's consumption places.

Request example:

```
GET https://www.ave-
system.com/website/api/GetProfilePlaces.rails?_dc=1549440708069&sessionId=8b0b6f4d4c38d85ce
427fa9a4df9cafb&profileIds=13531&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
{PageItems: [...], Count: 7, TotalCount: 7} Count: 7 PageItems: [...] 0: {Id: 8305, Eic:
"27ZG400Z0318053F", CustomerName: "Customer 02", PlaceName: "Consumption place 02",...} 1:
{Id: 5727, Eic: "27ZG200Z0236612F", CustomerName: "Customer 03", PlaceName: "Consumption
place 03",...} 2: {Id: 8587, Eic: "27ZG400Z0318583F", CustomerName: "Customer 04", PlaceName:
"Consumption place 04",...} 3: {Id: 8244, Eic: "27ZG400Z0317901F", CustomerName: "Customer 05",
PlaceName: "Consumption place 05",...} 4: {Id: 7238, Eic: "27ZG300Z0249776F", CustomerName:
"Customer 06", PlaceName: "Consumption place 06",...} 5: {Id: 8213, Eic: "27ZG400Z0317833F",
CustomerName: "Customer 07", PlaceName: "Consumption place 07",...} 6: {Id: 6395, Eic:
"27ZG300Z0249800F", CustomerName: "Customer 09", PlaceName: "Consumption place 09",...}
TotalCount: 7
```

GetConnectedUsers

Returns information about users currently logged on to the AVE system.

Request example:

```
GET https://www.ave-system.com/website/api/GetConnectedUsers.rails?_dc=1549441976143&sessionId=8b0b6f4d4c38d85ce427fa9a4df9cafb&page=1&start=0&limit=25
```

Required parameters:

- sessionId

Response example:

```
[{"fullName":"Levínský Jakub", "logOnName":"levinsky", "email":"jakub.levinsky@geovap.cz", "phone":"","comment":"","lastAccessTimestamp":"2019-02-06T09:32:56.112", "lastAccessRelative":"0s", "logOnTimestamp":"2019-02-06T08:29:35.891", "lastClientVersion":"2.1.111.36635", "systemRole":"System Administrator", "internetRole":"Distributor", "clientType":"WebClient", "clientTypeDescription":"Web Client", "isItMe":true, "encodedSessionId":"hikqaCI80OkKMx2yPBClucRFCfG218JeKWDRME6vA4y6thP/LrqueQz8TTJIWWUN"}]
```

GetDriverCommunicationChannels

Returns information about communication channels.

Request example:

```
GET https://www.ave-system.com/website/api/GetDriverCommunicationChannels.rails?_dc=1549963268763&sessionId=3ce4be45e97002865d66c4d13fd7bffe&serverId=11&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
[{"id":60572985,"guid":"GSM01","name":"GSM1","type":"Modem","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":72,"total":354,"ok":258,"errors":96},{id:-1901276784,"guid":"gprs1","name":"gprs1","type":"TCP","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id:-1783526838,"guid":"tcp master","name":"tcp master","type":"Multi TCP listening - master","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id":2072350410,"guid":"tcp slave 01","name":"tcp slave 01","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id:-648638774,"guid":"tcp slave 02","name":"tcp slave 02","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id":1690013386,"guid":"tcp slave 03","name":"tcp slave 03","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id:-1030975798,"guid":"tcp slave 04","name":"tcp slave 04","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id":1307676362,"guid":"tcp slave 05","name":"tcp slave 05","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id:-743040567,"guid":"gprs","name":"gprs2","type":"TCP","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0},{id:-1413312822,"guid":"tcp slave 06","name":"tcp slave 06","type":"Multi TCP listening - slave","state":"Communication stopped","isBlocked":false,"isInError":false,"productivityPercentage":100,"total":0,"ok":0,"errors":0}]
```

GetServers

Returns information about servers.

Request example:

```
GET https://www.ave-system.com/website/api/GetServers.rails?_dc=1549963637453&filter=&page=1&start=0&limit=25
```

Required parameters:

There are no required parameters.

Response example:

```
[{"id": "-1", "ip": "", "lastRegistered": "-", "name": "Unassigned", "online": false, "port": 0, "regionId": -1, "type": "DeviceDriver", "version": "", "memoryUsage": 0, "diskUsage": 0, "cpuUsage": 0, "usageAge": ""}, {"id": 1, "ip": "10.101.1.50", "lastRegistered": "10:12", "name": "Storage server - Demo", "online": true, "port": 3324, "regionId": -1, "type": "DataStorage", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}, {"id": 11, "ip": "10.101.0.154", "lastRegistered": "10:17", "name": "Reading server GSM - Demo", "online": true, "port": 3327, "regionId": 6, "type": "DeviceDriver", "version": "2.1.111.36635", "memoryUsage": 68, "diskUsage": 98, "cpuUsage": 1, "usageAge": "4s"}, {"id": 23, "ip": "10.101.1.50", "lastRegistered": "10:12", "name": "Reading server GPRS - Demo", "online": true, "port": 3327, "regionId": 6, "type": "DeviceDriver", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}, {"id": 81, "ip": "10.101.1.50", "lastRegistered": "10:14", "name": "Reading server SICK - Demo", "online": true, "port": 3331, "regionId": 8, "type": "DeviceDriver", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}, {"id": 100, "ip": "10.101.1.50", "lastRegistered": "10:12", "name": "OPC UA Server", "online": true, "port": 3322, "regionId": -1, "type": "OpcServer", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}, {"id": 334, "ip": "10.101.1.50", "lastRegistered": "10:12", "name": "AVE Data Mining Local SQL", "online": true, "port": 3320, "regionId": -1, "type": "DataMining", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}, {"id": 666, "ip": "10.101.1.50", "lastRegistered": "10:12", "name": "Central Server - Demo", "online": true, "port": 3323, "regionId": -1, "type": "CentralServer", "version": "2.1.111.36635", "memoryUsage": 44, "diskUsage": 66, "cpuUsage": 1, "usageAge": "4s"}]
```

GetSystemEvents

Returns information about system events.

Request example:

```
GET https://www.ave-system.com/website/api/GetSystemEvents.rails?_dc=1549963685395&type=1&dateFrom=2019-02-12T00%3A00%3A00&dateTo=2019-02-12T23%3A59%3A00&eventId=&sessionId=3ce4be45e97002865d66c4d13fd7bffe&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
{"PageItems":[{"timeGenerated":"2019-02-12T09:28:53.607", "timeGeneratedRelative":"09:28", "type":"Success Audit", "entryType":3, "eventId":101, "source":"Web Client", "category":"Logon/Logoff", "message":"Levínský Jakub (levinsky) logged on.", "data":"Client: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36\r\nType: Web Client\r\nVersion: 2.1.111.36635\r\nDescription: \r\nConnection: Internet\r\nDestination: C:\\Windows\\Microsoft.NET\\Framework64\\v2.0.50727\\Temporary ASP.NET Files\\website\\04a734bb\\9167b5cf\\assembly\\d13\\c704859d\\108a0b86_91bcd401\\Geovap.Ave.BusinessObjects.DLL\r\n\r\nMachine: 10.101.0.3\r\nIP address: 10.101.0.3\r\nUser: levinsky\r\nDomain: \r\nOS: Windows 10\r\n", "user":"Levínský Jakub (levinsky)", "machine":"10.101.0.3"}], "Count":1, "TotalCount":1}
```

GetDataPumps

Returns information about data pumps.

Request example:

```
GET https://www.ave-system.com/website/api/GetDataPumps.rails?_dc=1549964127026&sessionId=3ce4be45e97002865d66c4d13fd7bffe&filter=&page=1&start=0&limit=25
```

Required parameters:

- sessionId

Response example:

```
[{id: 26, eventLogSource: "DP#26", guid: "7fe8f278-7c63-49d8-af88-02983e18a36f", name: "abc",...},...] 0: {id: 26, eventLogSource: "DP#26", guid: "7fe8f278-7c63-49d8-af88-02983e18a36f", name: "abc",...} 1: {id: 34, eventLogSource: "DP#34", guid: "ea355548-be72-46f0-a528-a395c70d63c2", name: "JC",...} 2: {id: 8, eventLogSource: "DP#8", guid: "6dc42619-9dec-43ec-b5ba-dbb561ee2c8f", name: "name",...} 3: {id: 30, eventLogSource: "DP#30", guid: "18d93b03-063a-4029-a72a-b621030d9134", name: "RDK",...} 4: {id: 31, eventLogSource: "DP#31", guid: "ef8e82c8-2297-4a9b-9083-ef3ba8210ca6", name: "Scada to AVE",...} 5: {id: 32, eventLogSource: "DP#32", guid: "f4b34623-fa11-44ab-bd3d-5cd6f3a27535",...} 6: {id: 20, eventLogSource: "DP#20", guid: "83f97ee0-9ce7-46fe-97fc-9e5030a7924f",...} 7: {id: 33, eventLogSource: "DP#33", guid: "ca84040b-7955-4af9-9f99-56559d436b36", name: "test",...} 8: {id: 25, eventLogSource: "DP#25", guid: "db78bc55-1e7f-4413-b4eb-dad9dacd753c", name: "test0208",...}
```

GetDataPumpProfiles

Returns information about data pump profiles.

Request example:

```
GET https://www.ave-system.com/website/api/GetDataPumpProfiles.rails?_dc=1549964127302&sessionId=3ce4be45e97002865d66c4d13fd7bffe&dataPumpIds=26&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId
- dataPumpIds

Response example:

```
{"PageItems":[{"id":13481, "name":"Category A profile", "description":"","regionId":6, "created":"2014-01-14T14:24:33.617", "modified":"2018-10-12T06:50:48.947", "connectionType":"Default", "connectionTypeDescription":"Default", "createdBy":"","modifiedBy":"Macháček Martin (machacek)"}, {"Count":1, "TotalCount":1}
```


GetSchedulers

Returns information about schedulers.

Request example:

```
GET https://www.ave-system.com/website/api/GetSchedulers.rails?_dc=1549964309707&sessionId=3ce4be45e97002865d66c4d13fd7bffe&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
{
  "PageItems": [
    {
      "id": 573,
      "guid": "4ba6a74c-1d61-49d2-996a-e52a77ea37c9",
      "enabled": true,
      "regionId": 6,
      "name": "Daily reading",
      "description": "Category A",
      "firstReadingTime": "2014-01-15T03:00:03.277",
      "lastReadingTime": "2019-02-12T02:00:00.393",
      "lastReadingRelativeTime": "02:00",
      "lastReadingTimeDescription": "Today",
      "nextReadingTime": "2019-02-13T02:00:00.000",
      "readStateOption": "All",
      "useDeviceDriver": false,
      "connectionOption": "Default",
      "deviceId": -1,
      "created": "0001-01-01T00:00:00.000",
      "createdBy": "",
      "modified": "2018-10-12T06:53:00.740",
      "modifiedBy": "Macháček Martin (machacek)",
      "isLimitedReadWriteOperation": false,
      "readWriteOperationType": 0,
      "readDevicesInTimeWindows": false,
      "id": 575,
      "guid": "0ff3ed82-026e-4a9a-9346-df0654fefae5",
      "enabled": true,
      "regionId": 6,
      "name": "Daily reading - unread stations",
      "description": "Category A + B",
      "firstReadingTime": "2014-01-15T13:15:42.253",
      "lastReadingTime": "2019-02-12T04:00:00.417",
      "lastReadingRelativeTime": "04:00",
      "lastReadingTimeDescription": "Today",
      "nextReadingTime": "2019-02-13T04:00:00.000",
      "readStateOption": "FailuresOnly",
      "useDeviceDriver": false,
      "connectionOption": "Default",
      "deviceId": -1,
      "created": "0001-01-01T00:00:00.000",
      "createdBy": "",
      "modified": "2018-10-12T06:53:11.800",
      "modifiedBy": "Macháček Martin (machacek)",
      "isLimitedReadWriteOperation": false,
      "readWriteOperationType": 0,
      "readDevicesInTimeWindows": false,
      "id": 574,
      "guid": "9c799cd4-42ad-4c71-b3bb-faf568be4ff6",
      "enabled": true,
      "regionId": 6,
      "name": "One times in two days",
      "description": "Category B",
      "firstReadingTime": "2014-01-15T04:00:04.890",
      "lastReadingTime": "2019-02-12T03:30:00.093",
      "lastReadingRelativeTime": "03:30",
      "lastReadingTimeDescription": "Today",
      "nextReadingTime": "2019-02-14T03:30:00.000",
      "readStateOption": "All",
      "useDeviceDriver": false,
      "connectionOption": "Default",
      "deviceId": -1,
      "created": "0001-01-01T00:00:00.000",
      "createdBy": "",
      "modified": "2018-10-12T06:53:21.457",
      "modifiedBy": "Macháček Martin (machacek)",
      "isLimitedReadWriteOperation": false,
      "readWriteOperationType": 0,
      "readDevicesInTimeWindows": false,
      "id": 586,
      "guid": "3a4f4c31-5af5-41b5-b8a3-fa8d7de4d230",
      "enabled": true,
      "regionId": 9,
      "name": "PLUM Pressure monitoring 9:03",
      "description": "",
      "firstReadingTime": "2015-05-25T09:03:05.667",
      "lastReadingTime": "2019-02-12T09:00:00.457",
      "lastReadingRelativeTime": "09:00",
      "lastReadingTimeDescription": "Today",
      "nextReadingTime": "2019-02-13T09:00:00.000",
      "readStateOption": "All",
      "useDeviceDriver": false,
      "connectionOption": "Default",
      "deviceId": -1,
      "created": "2015-05-25T07:48:27.553",
      "createdBy": "Macháček Martin (machacek)",
      "modified": "2017-02-07T13:03:06.200",
      "modifiedBy": "Klečka Jakub (klecka)",
      "isLimitedReadWriteOperation": false,
      "readWriteOperationType": 0,
      "readDevicesInTimeWindows": false,
      "id": 592,
      "guid": "a7d89b31-"
    }
  ]
}
```

```
2ddf-40b3-ba2f-7834b4fb747b", "enabled":false, "regionId":-2, "name":"super scheduler",
"description":"", "firstReadingTime":"2017-11-20T10:56:50.023", "lastReadingTime":"2017-11-
20T12:50:54.057", "lastReadingRelativeTime":"20.11.2017", "lastReadingTimeDescription":"Earlier",
"nextReadingTime":"9999-12-31T23:59:59.999", "readStateOption":"All", "useDeviceDriver":false,
"connectionOption":"Default", "deviceDriverId":-1, "created":"2017-11-20T10:52:47.120",
"createdBy":"Klečka Jakub (klecka)", "modified":"2017-11-20T12:50:03.510", "modifiedBy":"Klečka
Jakub (klecka)", "isLimitedReadWriteOperation":false, "readWriteOperationType":0,
"readDevicesInTimeWindows":false}}, "Count":5, "TotalCount":5}
```

GetSchedulersProfiles

Returns information about schedulers' profiles.

Request example:

```
GET https://www.ave-
system.com/website/api/GetSchedulerProfiles.rails?_dc=1549964309972&sessionId=3ce4be45e9700
2865d66c4d13fd7bffe&schedulerIds=573&filter=&page=1&start=0&limit=50
```

Required parameters:

- sessionId

Response example:

```
{"PageItems":[{"id":13481, "name":"Category A profile", "description":"", "regionId":6,
"created":"2014-01-14T14:24:33.617", "modified":"2018-10-12T06:50:48.947",
"connectionType":"Default", "connectionTypeDescription":"Default", "createdBy":"",
"modifiedBy":"Macháček Martin (machacek)"}], "Count":1, "TotalCount":1}
```

GetMyDashboard

Returns information about the dashboard.

Request example:

```
GET https://www.ave-system.com/website/api/GetMyDashboard.rails?_dc=1549964974384&sessionId=3ce4be45e97002865d66c4d13fd7bffe®ionId=-1&dealerId=-1&dateFrom=2019-02-11%2008%3A00%3A00&dateTo=2019-02-12%2008%3A00%3A00&truncateData=1&withDaylightSavingTime=0&fieldName=Fark_Stdm3&dataType=2&page=1&start=0&limit=25
```

Required parameters:

- sessionId

Response example:

```
{DashboardAreas: [{...}, {...}], Count: 2, MainDeviceTotal: 0, BalanceTotal: 0,...} BalanceTotal: 0  
BalanceTotalPercentage: 0 Count: 2 DashboardAreas: [{...}, {...}] MainDeviceTotal: 0 SubAreaTotal:  
0 SubAreaTotalPercentage: 100 SubAreaTotalTitle: "TOTAL Urban network+Distribution point"
```