DSE Generation Schedule Manager and Production Schedule Manager RESTful API - Requests and Responses

POST authenticate user

Request:

> http://<BaseURL>/authentication?Authentication-ID=x&UserPassword=y

Response:

```
{
   "authorisation-id": "2597C4E2F6FE0092CD3F"
}
```

GET list of components for a user

Request:

> http:// <BaseURL>/UserComponentLists?authorisation-
> id=2597C4E2F6FE0092CD3F

Response:

```
{
   "consumption": [
     {
       "access": "rw",
       "component": "machine_1",
       "url": "http:// <BaseURL>/consumption/machine_1"
     }
   ],
   "generation": [
     {
       "access": "rw",
       "component": "biogas1",
       "url": "http://<BaseURL>/generation/biogas1"
     },
     {
       "access": "rw",
       "component": "biogas2",
       "url": "http://<BaseURL>/generation/biogas2"
     },
     {
       "access": "rw",
       "component": "solar1",
       "url": "http://<BaseURL>/generation/solar1"
     },
```

```
        {
          "access": "rw",
          "component": "wind1",
          "url": "http://<BaseURL>/generation/wind1"
        }
      ]
    }
```

GET the list of dates of available data for a component

Request:

http://<BaseURL>/generation/biogas1/DataLists?authorisation-id=2597C4E2F6FE0092CD3F

Response:
```
    {
      "calculation": [
        {
          "date": "20140803",
          "url": "http://<BaseURL>/generation/biogas1/calculation/20140803"
        },
        {
          "date": "20140804",
          "url": "http://<BaseURL>/generation/biogas1/calculation/20140804"
        }
      ],
      "measurement": [
        {
          "date": "20140803",
          "url": "http://<BaseURL>/generation/biogas1/measurement/20140803"
        },
        {
          "date": "20140804",
          "url": "http://<BaseURL>/generation/biogas1/measurement/20140804"
        }
      ]
    }
```

Request:

http://<BaseURL>/generation/solar1/DataLists?authorisation-id=2597C4E2F6FE0092CD3F

Response:
```
    {
      "calculation": [
        {
          "date": "20141028",
          "url":  "http://<BaseURL>/generation/solar1/calculation/20141028"
        },
```

```
      {
        "date": "20141029",
        "url":  "http://<BaseURL>/generation/solar1/calculation/20141029"
      }
    ],

    "measurement": [
      {
        "date": "20141028",
        "url":  "http://<BaseURL>/generation/solar1/measurement/20141028"
         },
      {
        "date": "20141029",
        "url":  "http://<BaseURL>/generation/solar1/measurement/20141029"
      }
    ]
  }
```

GET read data for component for a specified data and data type

Request:

http://<BaseURL>/generation/biogas1/measurement/20140804?authorisation-id=2597C4E2F6FE0092CD3F

Response:

{
"data":"ticker,value;0,1415.68;1,1415.68;2,1415.68;3,1415.68;4,1415.68;5,1415.68;6,1415.68;7,1415.68;8,1416.32;9,1415.68;10,1415.68;11,1415.68;12,1415.04;13,1416.96;14,1415.68;15,1415.68;16,1415.68;17,1415.68;18,1415.68;19,1415.68;20,1415.04;21,1415.68;22,1415.68;23,1415.68;24,1415.68;25,1415.68;26,1415.04;27,1415.68;28,1372.80;29,1336.32;30,1308.16;31,1292.80;32,1293.44;33,1294.08;34,1296.00;35,1294.08;36,1293.44;37,1319.68;38,1399.04;39,1415.04;40,1415.68;41,1415.04;42,1416.32;43,1415.04;44,1415.04;45,1416.96;46,1415.04;47,1415.04;48,1415.04;49,1415.04;50,1415.04;51,1415.68;52,1415.04;53,1414.40;54,1415.68;55,1415.04;56,1415.04;57,1415.68;58,1415.04;59,1415.68;60,1415.04;61,1415.04;62,1415.68;63,1415.68;64,1415.04;65,1415.04;66,1415.68;67,1413.76;68,1415.68;69,1415.68;70,1415.04;71,1415.04;72,1415.68;73,1415.04;74,1416.32;75,1415.68;76,1416.96;77,1415.04;78,1415.68;79,1415.68;80,1415.68;81,1415.68;82,1415.04;83,1415.68;84,1415.68;85,1415.68;86,1415.68;87,1415.68;88,1415.68;89,1415.68;90,1415.68;91,1415.68;92,1415.68;93,1415.68;94,1415.04;95,1415.68;"
}

Request:

http://<BaseURL>/generation/solar1/measurement/20141028? authorisation-id=2597C4E2F6FE0092CD3F

Response:

{
"data":"ticker,value;0,0.00;1,0.00;2,0.00;3,0.00;4,0.00;5,0.00;6,0.00;7,0.00;8,0.00;9,0.00;10,0.00;11,0.00;12,0.00;13,0.00;14,0.00;15,0.00;16,0.00;17,0.00;18,0.00;19,0.00;20,0.00;21,0.00;22,0.00;23,0.00;24,0.00;25,0.00;26,0.00;27,0.00;28,0.00;29,0.00;30,0.00;31,0.00;32,3.75;33,6.00;34,21.75;35,21.50;36,27.00;37,67.75;38,62.50;39,39.75;40,70.50;41,42.00;42,23.75;43,42.75;44,44.75;45,53.50;46,50.75;47,32.75;48,64.00;49,142.75;50,303.00;51,414.50;52,432.75;53,314.00;54,334.25;55,277.50;56,295.75;57,208.00;58,70.00;59,309.00;60,238.00;61,182.50;62,138.00;63,78.75;64,67.50;65,100.50;66,63.25;67,27.50;68,10.50;69,0.75;70,0.00;71,0.00;72,0.00;73,0.00;74,0.00;75,0.00;76,0.00;77,0.00;78,0.00;79,0.00;80,0.00;81,0.00;82,0.00;83,0.00;84,0.00;85,0.00;86,0.00;87,0.00;88,0.00;89,0.00;90,0.00;91,0.00;92,0.00;93,0.00;94,0.00;95,0.00;"
}