

EDS API v1

General Information

authorization

- authenticate
- login
- logout
- ping

points

- points/query
- points/export
- points/sources
- points/operate
- points/publish
- points/unpublish

objects

- objects/query
- objects
- objects/sources/query
- objects/sources

diagrams

- diagram/open

requests

- requests

trends

- trend
- trend/tabular
- trend/groups

events

- events/read
- events

reports

- report/configs/query
- report/configs
- report/custom
- report/global
- report/global/run

shades

- shades/points
- shades/read
- shades/write
- shades/clear
- shades/copy

users

- sg
- tg
- user/sg
- user/profile
- users/query

status

- status
- license

Errors

General Information

/login endpoint creates session and returns session id. Client should provide session token using Authorization header in the form of *Authorization: Bearer <token>*
See [errors](#) for error handling description.

/api/v1/authenticate

Checks user name and password. Does not create session.

POST

REQUEST

```
{
  "username": "myname",
  "password": "mypass"
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "username": {"type": "string"},
    "password": {"type": "string"}
  },
  "required": ["username", "password"]
}
```

RESPONSE

```
{
  "authenticated": true
}
```

/api/v1/login

Creates new session.

POST

REQUEST

```
{
  "username": "myname",
  "password": "mypass",
  "type": "myapp" // client type "portal", "mobile" or custom name
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "username": {"type": "string"},
    "password": {"type": "string"},
    "type": {"type": "string"}
  },
  "required": ["username", "password", "ty"]
}
```

RESPONSE

```
{
  "sessionId": 00000000-0000-0000-0000-000000000000
}
```

/api/v1/logout

Closes session.

POST

/api/v1/ping

EDS API v1

General Information

authorization

- authenticate
- login
- logout
- ping

points

- points/query
- points/export
- points/sources
- points/operate
- points/publish
- points/unpublish

objects

- objects/query
- objects
- objects/sources/query
- objects/sources

diagrams

- diagram/open

requests

- requests

trends

- trend
- trend/tabular
- trend/groups

events

- events/read
- events

reports

- report/configs/query
- report/configs
- report/custom
- report/global
- report/global/run

shades

- shades/points
- shades/read
- shades/write
- shades/clear
- shades/copy

users

- sg
- tg
- user/sg
- user/profile
- users/query

status

- status
- license

Errors

/api/v1/points/query

Query points matching selected criteria or a pre-defined filter.

GET - query points matching a pre-defined filter.

Parameters:

- "source" - source name
- "order" - semicolon-separated list of point field names e.g. "zd;iess:sid" or "aux;-sid". Adding "-" before a field name reverses the order. Full list of fields that may appear in the order parameter: sid, value, dts, tss, at, atss, quality, iess, desc, rt, zd, idcs, ar, ap, aux, un, dp, artd, ard, tb, bb, hl, ll, dun, ddp, dartd, dard, dtb, dbb, dhl, dll, sd, rd.
- "fields" - (optional) comma-separated list of fields returned in response
- "page" - (optional) page number
- "pagesize" - (optional) points per page (default: 50, max: 1000)

POST - query points matching the filters.

Point value for ANALOG and DOUBLE points can be a string with "Inf", "-Inf", "NaN" value. The "order" parameter should be a list of point field names e.g. ["zd", "iess", "sid"] or ["aux", "-sid"]. Adding "-" before a field name reverses the order. Full list of fields that may appear in the order parameter: sid, value, dts, tss, at, atss, quality, iess, desc, rt, zd, idcs, ar, ap, aux, un, dp, artd, ard, tb, bb, hl, ll sd, rd. }

GET

REQUEST

/api/v1/points/query?source=zd1&filter=myfitler1&order=iess

RESPONSE

see "points/query" ...

POST

REQUEST

```
{
  "filters": [
    {
      "sid": [1, 2], // (optional) filters array joined by OR
      "iess": ["iess1", "iess2"], // (optional) sid array
      "iessRe": "^abc", // (optional) iess array
      "idcs": ["idcs1", "idcs2"], // (optional) iess regular expression
      "idcsRe": "^abc", // (optional) idcs array
      "zd": ["zd1", "zd2"], // (optional) idcs regular expression
      "zdRe": "abc", // (optional) source array
      "descRe": "abc", // (optional) source regular expression
      "auxRe": "abc", // (optional) description regular expression
      "rt": ["ANALOG", "DOUBLE"], // (optional) aux regular expression
      "ts": { // (optional) record type array
        "from": 1603305950, // (optional) time modification range
        "till": 1603305959
      },
      "quality": ["GOOD", "FAIR"], // (optional) quality array
      "stSet": 0, // (optional) status bits set
      "stUnset": 0, // (optional) status bits unset
      "dfSet": 0, // (optional) definition flags set
      "dfUnset": 0, // (optional) definition flags unset
      "xst1Set": 0, // (optional) xst1 bits set
      "xst1Unset": 0, // (optional) xst1 bits unset
      "xst2Set": 0, // (optional) xst2 bits set
      "xst2Unset": 0, // (optional) xst2 bits unset
      "xst3Set": 0, // (optional) xst3 bits set
      "xst3Unset": 0, // (optional) xst3 bits unset
      "ar": ["LONG_TERM"], // (optional) archiving type array
      "artd": ["NONE", "PCT_RANGE"], // (optional) archiving deadband type array
      "sg": [0, 1], // (optional) security groups array
      "tg": [0, 1], // (optional) technological groups array
      "ap": [1, 2] // (optional) alarm priority array
    }
  ],
  "order": ["zd", "iess"], // (optional) order, see description for more details
  "fields": ["rt", "iess"], // (optional) list of fields returned in response
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "filters": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "sid": {
            "type": "array",
            "items": {
              "type": "integer"
            }
          },
          "iess": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "iessRe": {
            "type": "string"
          },
          "idcs": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "idcsRe": {
            "type": "string"
          },
          "zd": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "zdRe": {
            "type": "string"
          },
          "descRe": {
            "type": "string"
          },
          "auxRe": {
            "type": "string"
          },
          "rt": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "ts": {
            "type": "object",
            "properties": {
              "from": {
                "type": "integer"
              },
              "till": {
                "type": "integer"
              }
            },
            "required": ["from", "till"]
          },
          "quality": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "stSet": {
            "type": "integer"
          },
          "stUnset": {
            "type": "integer"
          },
          "dfSet": {
            "type": "integer"
          },
          "dfUnset": {
            "type": "integer"
          },
          "xst1Set": {
            "type": "integer"
          },
          "xst1Unset": {
            "type": "integer"
          },
          "xst2Set": {
            "type": "integer"
          },
          "xst2Unset": {
            "type": "integer"
          },
          "xst3Set": {
            "type": "integer"
          },
          "xst3Unset": {
            "type": "integer"
          },
          "ar": {
            "type": "array",
            "items": {
              "type": "string"
            }
          },
          "artd": {
            "type": "array",
            "items": {
              "type": "string"
            }
          }
        }
      }
    }
  }
}
```

EDS API v1		
General Information	authorization	enum : ["NON", "GEO"
points	points/query	points/export
objects	objects/query	objects
requests	requests	requests
trends	trend	trend/tabular
events	events/read	events
reports	report/configs/query	report/configs
shades	shades/points	shades/read
users	sg	tg
status	status	license
Errors		

RESPONSE

```
{  "points": [{    "sid": 1,                // (optional) sid    "iess": "iess1",        // (optional) iess    "idcs": "idcs1",        // (optional) idcs    "zd": "zd1",            // (optional) source    "rt": "ANALOG",         // (optional) record type    "value": 1.23,          // (optional) value    "quality": "GOOD",      // (optional) quality    "ts": 1603305959,       // (optional) last read timestamp    "lts": 1603305959,     // (optional) long term modification timestamp    "tss": 0,               // (optional) timestamp shift    "at": 0,                // (optional) alarm timestamp    "atss": 0,              // (optional) alarm timestamp shift    "desc": "desc1",        // (optional) description    "st": 0,                // (optional) status bits    "xst1": 0,              // (optional) external status 1 bits    "xst2": 0,              // (optional) external status 2 bits    "xst3": 0,              // (optional) external status 3 bits    "ar": "LONG_TERM",     // (optional) archiving type    "artd": "PCT_RANGE",   // (optional) archiving deadband type    "ard": 1.0,             // (optional) archiving deadband    "sg": [0, 1],           // (optional) security groups    "tg": [],               // (optional) technological groups    "df": 0,                // (optional) definition flags    "ap": 0,                // (optional) alarm priority    "aux": "",              // (optional) aux    "un": "m",              // (optional) unit    "dp": 2,                // (optional) display precision    "tb": 2,                // (optional) top bar    "bb": 0,                // (optional) bottom bar    "hl": 2,                // (optional) high limit    "ll": 0,                // (optional) low limit    "sd": "NORMAL",         // (optional) set description (BINARY)    "rd": "ALARM",          // (optional) reset description (BINARY)    "foreground": 123,      // (optional) foreground color    "background": 123      // (optional) background color  }],  "matchCount": 1,         // matched elements count  "totalCount": 100000,    // total point count}
```

/api/v1/points/export

Export points matching selected criteria or a pre-defined filter.

GET - export points matching a pre-defined filter.

Parameters:

- "zd" - zd name
- "iess" - iess simple regular expression
- "idcs" - idcs simple regular expression
- "desc" - desc simple regular expression
- "aux" - aux simple regular expression

EDS API v1	
General Information	name reverses the order. Full list of fields that may appear in the order parameter: sid, value, dts, tss, at, atss, quality, iess, desc, rt, zd, idcs, ar, ap, aux, un, dp, artd, ard, tb, bb, hl, ll, dun, ddp, dardt, dard, dtb, dbb, dhl, dll, sd, rd.
authorization	<ul style="list-style-type: none">• "separator" - space is the default separator• "encoding" - one of: iso-8859-1, iso8859-1, iso-latin-1, latin-1, latin1, iso-8859-2, iso8859-2, iso-latin-2, latin-2, latin2, windows-1250, windows1250, windows-1251, windows1251, windows-1252, windows1252, utf-8, utf8, utf-16be, utf16be, utf-16le, utf16le, unicode• "flags" - (optional) 0x0002 - export with SIDs• "page" - (optional) page number• "pagesize" - (optional) points per page (default: 1000000, max: 1000000)
points	
points/query	
points/export	
points/sources	
points/operate	
points/publish	
points/unpublish	
objects	
objects/query	
objects	
objects/sources/query	
objects/sources	
diagrams	
diagram/open	
requests	
requests	
trends	
trend	
trend/tabular	
trend/groups	
events	
events/read	
events	
reports	
report/configs/query	
report/configs	
report/custom	
report/global	
report/global/run	
shades	
shades/points	
shades/read	
shades/write	
shades/clear	
shades/copy	
users	
sg	
tg	
user/sg	
user/profile	
users/query	
status	
status	
license	
Errors	

POST - export points matching the filters.

Point value for ANALOG and DOUBLE points can be a string with "Inf", "-Inf", "NaN" value. The "order" parameter should be a list of point field names e.g. ["zd", "iess", "sid"] or ["aux", "-sid"]. Adding "-" before a field name reverses the order. Full list of fields that may appear in the order parameter: sid, value, dts, tss, at, atss, quality, iess, desc, rt, zd, idcs, ar, ap, aux, un, dp, artd, ard, tb, bb, hl, ll sd, rd. }

GET

REQUEST

/api/v1/points/export?zd=zd1&iess=^A&order=iess

RESPONSE

see "points/export" ...

POST

REQUEST

```
{
  "filters": [
    {
      "sid": [1, 2], // (optional) filters array joined by OR
      "iess": ["iess1", "iess2"], // (optional) sid array
      "iessRe": "^abc", // (optional) iess array
      "idcs": ["idcs1", "idcs2"], // (optional) iess regular expression
      "idcsRe": "^abc", // (optional) idcs array
      "zd": ["zd1", "zd2"], // (optional) idcs regular expression
      "zdRe": "^abc", // (optional) source array
      "descRe": "^abc", // (optional) source regular expression
      "auxRe": "^abc", // (optional) description regular expression
      "rt": ["ANALOG", "DOUBLE"], // (optional) aux regular expression
      "ts": { // (optional) record type array
        "from": 1603305950, // (optional) time modification range
        "till": 1603305959
      }
    },
    {
      "quality": ["GOOD", "FAIR"], // (optional) quality array
      "stSet": 0, // (optional) status bits set
      "stUnset": 0, // (optional) status bits unset
      "dfSet": 0, // (optional) definition flags set
      "dfUnset": 0, // (optional) definition flags unset
      "xst1Set": 0, // (optional) xst1 bits set
      "xst1Unset": 0, // (optional) xst1 bits unset
      "xst2Set": 0, // (optional) xst2 bits set
      "xst2Unset": 0, // (optional) xst2 bits unset
      "xst3Set": 0, // (optional) xst3 bits set
      "xst3Unset": 0, // (optional) xst3 bits unset
      "ac": "DEFAULT", // (optional) description regular expression
      "acRe": "^DEF", // (optional) description regular expression
      "ar": ["LONG_TERM"], // (optional) archiving type array
      "artd": ["NONE", "PCT_RANGE"] // (optional) archiving deadband type array
    },
    {
      "sg": [0, 1], // (optional) security groups array
      "tg": [0, 1], // (optional) technological groups array
      "ap": [1, 2] // (optional) alarm priority array
    }
  ],
  "separator": " ", // (optional) separator, see description for more details
  "encoding": "utf-8", // (optional) encoding, see description for more details
  "order": ["zd", "iess"], // (optional) order, see description for more details
  "fields": ["rt", "iess"], // (optional) list of fields returned in response
  "flags": 0x0002, // (optional) flags, default: 0x0002 - export with SIDs
  "page": 2, // (optional) page number, default: 1
  "pagesize": 50 // (optional) results per page, default: 1000000, max: 1000000
}
```


EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

Automatically refresh point values for 'duration' time after the call

POST

REQUEST

```
[{
  "sid": 1,           // (optional) sid
  "iess": "iess1",   // (optional) iess
  "idcs": "idcs1",   // (optional) idcs
  "zd": "zd1",       // (optional) source
  "value": 1.1,      // (optional) value
  "quality": "GOOD", // (optional) quality
  "duration": 60,    // (optional) duration
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "sid": {"type": "integer", "minimum": 0},
      "iess": {"type": "string"},
      "idcs": {"type": "string"},
      "zd": {"type": "string"},
      "value": {"type": ["number", "string", "boolean"]},
      "quality": {"type": "string", "enum": ["GOOD", "FAIR", "POOR"]},
      "duration": {"type": "integer", "minimum": 1}
    }
  }
}
```

/api/v1/points/unpublish

Turns off automatic refresh of points values.

POST

REQUEST

```
[{
  "sid": 1,           // (optional) sid
  "iess": "iess1",   // (optional) iess
  "idcs": "idcs1",   // (optional) idcs
  "zd": "zd1"        // (optional) source
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "sid": {"type": "integer", "minimum": 0},
      "iess": {"type": "string"},
      "idcs": {"type": "string"},
      "zd": {"type": "string"}
    }
  }
}
```

/api/v1/objects/query

Query objects metadata matching selected criteria.
The "order" parameter should be a list of fields names, for example: ["file", "-name"]. Adding "-" before a field name reverses the order.
Full list of fields that may appear in the order parameter: file, name, sourceName, sourceId, modified, sg, tg, md5.

POST

REQUEST

```
{
  "filters": [{
    "id": [1, 2],           // (optional) filters array joined by OR
    "fileRe": "^abc",      // (optional) id array
    "nameRe": "^abc",       // (optional) filename regular expression
    "sourceNameRe": "^abc", // (optional) name regular expression
    "sourceId": [1],       // (optional) source name regular expression
    "modified": {
      "from": 1603305950,   // (optional) source ids array
      "till": 1603305959    // (optional) time modification range
    }
  }],
  "sg": [0, 1],            // (optional) security groups array
  "tg": [0, 1],            // (optional) technological groups array
  "md5": "abcdefg",        // (optional) md5 hash
  "order": ["file"],        // (optional) order, see description for more details
  "fields": ["file", "name"], // (optional) list of fields returned in response
  "page": 2,               // (optional) page number, default: 1
  "pageSize": 50           // (optional) results per page, default: 100, max: 1000
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "filters": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "id": {"type": "array", "items": {"type": "integer", "minimum": 0}},
          "fileRe": {"type": "string"},
          "nameRe": {"type": "string"},
          "sourceNameRe": {"type": "string"},
          "sourceId": {"type": "array", "items": {"type": "integer", "minimum": 0}},
          "modified": {
            "type": "object",
            "properties": {
              "from": {"type": "integer", "minimum": 0},
              "till": {"type": "integer", "minimum": 0}
            }
          }
        }
      }
    },
    "sg": {"type": "array", "items": {"type": "integer", "minimum": 0}},
    "tg": {"type": "array", "items": {"type": "integer", "minimum": 0}},
    "md5": {"type": "string"},
    "order": {"type": "array", "items": {"type": "string"}},
    "fields": {"type": "array", "items": {"type": "string"}},
    "page": {"type": "integer", "minimum": 1},
    "pageSize": {"type": "integer", "minimum": 1, "maximum": 1000}
  }
}
```


EDS API v1		
General Information	REQUEST	SCHEMA
	<pre>[{ "id": 1 // id }]</pre>	<pre>{ "type": "array", "items": { "type": "object", "properties": { "id": {"type": "integer", "minimum": 0} }, "required": ["id"] } }</pre>
authorization		
authenticate		
login		
logout		
ping		
points		
points/query		
points/export		
points/sources		
points/operate		
points/publish		
points/unpublish		
objects		
objects/query		
objects		
objects/sources/query		
objects/sources		
diagrams		
diagram/open		
requests		
requests		
trends		
trend		
trend/tabular		
trend/groups		
events		
events/read		
events		
reports		
report/configs/query		
report/configs		
report/custom		
report/global		
report/global/run		
shades		
shades/points		
shades/read		
shades/write		
shades/clear		
shades/copy		
users		
sg		
tg		
user/sg		
user/profile		
users/query		
status		
status		
license		
Errors		

/api/v1/objects/sources/query

Returns a list of all object sources if filter is not set or all object sources matching filter. Note: point sources and object sources might be completely different, even though in many cases they have similar names.
The order parameter should be a list of field names, in example: ["id"] or ["location", "-name"]. Adding "-" before a field name reverses the order.
Full list of fields that may appear in the order parameter: id, name, desc, sg, tg, location, host, prefix, suffix, options.

POST

REQUEST	SCHEMA
<pre>{ "filters": [{ "id": [1, 2], // (optional) filters array joined by OR "nameRe": "^abc", // (optional) id array "descRe": "^abc", // (optional) name regular expression "modified": 1603305950, // (optional) description regular expression "sg": [0, 1], // (optional) minimum modification timestamp "tg": [0, 1], // (optional) security groups array "location": "DB", // (optional) technological groups array "hostRe": "^abc", // (optional) source location "prefixRe": "^abc", // (optional) host regular expression "suffixRe": "^abc", // (optional) prefix regular expression "optionsSet": 0, // (optional) suffix regular expression "optionsUnset": 0 // (optional) xst1 bits set }], // (optional) xst1 bits unset "order": ["id", "name"], // (optional) order, see description for more details "fields": ["name", "desc"], // (optional) list of fields returned in response "page": 2, // (optional) page number, default: 1 "pagesize": 50 // (optional) results per page, default: 100, max: 1000 }</pre>	<pre>{ "type": "object", "properties": { "filters": { "type": "array", "items": { "type": "object", "properties": { "id": {"type": "array", "items": {"type": "integer", "minimum": 0}}, "nameRe": {"type": "string", "format": "regex"}, "descRe": {"type": "string", "format": "regex"}, "modified": {"type": "integer", "minimum": 0}, "sg": {"type": "array", "items": {"type": "integer", "minimum": 0}}, "tg": {"type": "array", "items": {"type": "integer", "minimum": 0}}, "location": {"type": "string"}, "hostRe": {"type": "string", "format": "regex"}, "prefixRe": {"type": "string", "format": "regex"}, "suffixRe": {"type": "string", "format": "regex"}, "optionsSet": {"type": "integer", "minimum": 0}, "optionsUnset": {"type": "integer", "minimum": 0} } } }, "order": {"type": "array", "items": {"type": "string", "format": "regex"}}, "page": {"type": "integer", "minimum": 1}, "pagesize": {"type": "integer", "minimum": 1, "maximum": 1000}, "fields": { "type": "array", "items": { "type": "string", "enum": ["id", "name", "desc", "sg", "tg", "location", "host", "prefix", "suffix", "optionsSet", "optionsUnset"] } } } }</pre>

EDS API v1

General Information

- authorization
 - authenticate
 - login
 - logout
 - ping
- points
 - points/query
 - points/export
 - points/sources
 - points/operate
 - points/publish
 - points/unpublish
- objects
 - objects/query
 - objects
 - objects/sources/query
 - objects/sources
- diagrams
 - diagram/open
- requests
 - requests
- trends
 - trend
 - trend/tabular
 - trend/groups
- events
 - events/read
 - events
- reports
 - report/configs/query
 - report/configs
 - report/custom
 - report/global
 - report/global/run
- shades
 - shades/points
 - shades/read
 - shades/write
 - shades/clear
 - shades/copy
- users
 - sg
 - tg
 - user/sg
 - user/profile
 - users/query
- status
 - status
 - license
- Errors

```
{
  "sources": [
    {
      "id": 1, // (optional) id
      "name": "iess1", // (optional) name
      "desc": "desc1", // (optional) description
      "sg": [0, 1], // (optional) security groups
      "tg": [], // (optional) technological groups
      "location": "DB", // (optional) location "DISK", "FTP" or "DB"
      "host": "", // (optional) host
      "prefix": "", // (optional) prefix
      "suffix": "", // (optional) suffix
      "options": 0 // (optional) options bits
    }
  ],
  "matchCount": 1, // matched count
  "totalCount": 100000, // total count
}
```

/api/v1/objects/sources

POST - create object sources

PUT - update object sources

DELETE - delete object sources

POST

REQUEST

```
[{
  "name": "mysource", // name
  "desc": "", // (optional) description
  "sg": [0, 1], // (optional) security groups array
  "tg": [], // (optional) technological groups array
  "location": "DISK", // (optional) source location "DISK", "FTP" or "DB"
  "host": "", // (optional) host
  "prefix": "", // (optional) IESS prefix
  "suffix": ".a@NET1" // (optional) IESS suffix
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "name": {"type": "string"},
      "desc": {"type": "string"},
      "sg": {"type": "array", "items": {}},
      "tg": {"type": "array", "items": {}},
      "location": {"type": "string", "enum": ["DISK", "FTP", "DB"]},
      "host": {"type": "string"},
      "prefix": {"type": "string"},
      "suffix": {"type": "string"}
    },
    "required": ["name"]
  }
}
```

PUT

REQUEST

```
[{
  "id": 123, // id
  "name": "myobject", // (optional) name
  "desc": "", // (optional) description
  "sg": [0, 1], // (optional) security groups array
  "tg": [], // (optional) technological groups array
  "location": "DISK", // (optional) source location "DISK", "FTP" or "DB"
  "host": "", // (optional) host
  "prefix": "", // (optional) IESS prefix
  "suffix": ".a@NET1", // (optional) IESS suffix
  "force": false // (optional) force when removing own permission, default: false
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": {"type": "int"},
      "name": {"type": "string"},
      "desc": {"type": "string"},
      "sg": {"type": "array", "items": {}},
      "tg": {"type": "array", "items": {}},
      "location": {"type": "string", "enum": ["DISK", "FTP", "DB"]},
      "host": {"type": "string"},
      "prefix": {"type": "string"},
      "suffix": {"type": "string"},
      "force": {"type": "boolean"}
    },
    "required": ["id"]
  }
}
```

DELETE

REQUEST

```
[{
  "id": 1 // id
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": {"type": "int"}
    },
    "required": ["id"]
  }
}
```

EDS API v1

- General Information
- authorization
 - authenticate
 - login
 - logout
 - ping
- points
 - points/query
 - points/export
 - points/sources
 - points/operate
 - points/publish
 - points/unpublish
- objects
 - objects/query
 - objects
 - objects/sources/query
 - objects/sources
- diagrams
 - diagram/open
- requests
 - requests
- trends
 - trend
 - trend/tabular
 - trend/groups
- events
 - events/read
 - events
- reports
 - report/configs/query
 - report/configs
 - report/custom
 - report/global
 - report/global/run
- shades
 - shades/points
 - shades/read
 - shades/write
 - shades/clear
 - shades/copy
- users
 - sg
 - tg
 - user/sg
 - user/profile
 - users/query
- status
 - status
 - license
- Errors

```
id : { type : Integer, minimum : 0 }
},
"required": ["id"]
}
```

/api/v1/diagram/open

Starts diagram rendering session on Graphics Server (GfxSrv). Returns root URL in form http://GFX-HOST:GFX-PORT/UUID/. This URL is also an identifier of renderer session (URI) and should be used as a base url for communication with GfxSrv. For more details please refer to GfxSrv API documentation.

POST

REQUEST

```
{
  "source": "src1",                // diagram source
  "file": "diag1.edf",             // diagram file
  "redrawInterval": 3,             // (optional) redraw interval, default: 3
  "httpUrl": "http://mydomain.com:43090/", // (optional) GfxSrv address
  "previousUrl": "http://mydomain.com:43090/", // (optional) re-use previous url
  "pointGroup": "pts1"            // (optional) point group
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "source": {"type": "stri
    "file": {"type": "string
    "redrawInterval": {"type
    "httpUrl": {"type": "str
    "previousUrl": {"type":
    "pointGroup": {"type": "
  },
  "required": ["source", "fi
}
```

RESPONSE

```
{
  "url": "http://mydomain.com:43090/"
}
```

/api/v1/requests

Long running requests status.

GET - get requests status

DELETE - drop requests

GET

REQUEST

/api/v1/requests?ids=3214,2415,7896

RESPONSE

```
{
  "3214": {
    "status": "EXECUTING", // status: "QUEUED", "EXECUTING", "SUCCESS" or "FAILURE"
    "progress": 78.12,     // (optional) progress 0 - 100
    "message": ""          // (optional) error message
  },
  "2415": null
}
```

DELETE

REQUEST

```
[{
  "id": 1 // request id
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",

```

EDS API v1

General Information

authorization

- authenticate
- login
- logout
- ping

points

- points/query
- points/export
- points/sources
- points/operate
- points/publish
- points/unpublish

objects

- objects/query
- objects
- objects/sources/query
- objects/sources

diagrams

- diagram/open

requests

- requests

trends

- trend
- trend/tabular
- trend/groups

events

- events/read
- events

reports

- report/configs/query
- report/configs
- report/custom
- report/global
- report/global/run

shades

- shades/points
- shades/read
- shades/write
- shades/clear
- shades/copy

users

- sg
- tg
- user/sg
- user/profile
- users/query

status

- status
- license

Errors

```
required : [ 10 ]
}
```

/api/v1/trend

GET - Retrieves trend result

POST - Requests trend

Executes graphical trend. "pixelCount" is a trend width resolution. When requesting trend for long time range 1 pixel can correspond to e.g. 1 day, that's why trend request may return up to 5 samples per pixel (value at the start of the range, maximum, minimum, value at the end, hole marker). See also [/api/v1/requests](#).

GET

REQUEST

```
/api/v1/trend?id=1234
```

RESPONSE

```
[{
  "items": [ // list of items results
    [ // list of samples
      [
        1603305950, // timestamp
        2.1, // value
        "G", // quality
        0, // (optional) timestamp shift
        0, // (optional) sample origin (default: DataSource):
          // 0 - DataSource
          // 1 - Filter
          // 2 - Function
          // 3 - Processor
          // 4 - Test
          // 5 - Other
        1, // (optional) sample type (default: Regular):
          // 0 - Regular
          // 1 - RegularZeroOrder
          // 2 - ShadeBegin
          // 3 - ShadeEnd
      ],
      [1603305951, 2.2, "G"],
      [1603305952, 2.3, "G"]
    ],
    [1603305950, 0.5, "G"]
  ],
  "averages": [2.15, 0.5], // (optional) averages available with "LAST" chunk
  "status": "LAST"
}]
```

POST

REQUEST

```
[{
  "pointId": {
    "sid": 1, // point id
    "iess": "iess1" // (optional) point sid
  },
  "period": {
    "from": 1603305950, // time range
    "till": 1603305959
  },
  "pixelCount": 1024, // pixel count
  "shadePriority": "DEFAULT" // (optional) shade priority
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "pointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "period": {
        "type": "object",
        "properties": {
          "from": {"type": "integer"},
          "till": {"type": "integer"}
        },
        "required": ["from", "till"]
      },
      "pixelCount": {"type": "integer", "minimum": 1},
      "shadePriority": {"type": "string", "enum": ["DEF", "H", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z"]}
    },
    "required": ["pointId", "period", "pixelCount"]
  }
}
```

EDS API v1

General Information	RESPONSE	
authorization		
authenticate		
login		
logout		
ping		
points		
points/query		
points/export		
points/sources		
points/operate		
points/publish		
points/unpublish		
objects		
objects/query		
objects		
objects/sources/query		
objects/sources		
diagrams		
diagram/open		
requests		
requests		
trends		
trend		
trend/tabular		
trend/groups		
events		
events/read		
events		
reports		
report/configs/query		
report/configs		
report/custom		
report/global		
report/global/run		
shades		
shades/points		
shades/read		
shades/write		
shades/clear		
shades/copy		
users		
sg		
tg		
user/sg		
user/profile		
users/query		
status		
status		
license		
Errors		

EDS API v1

General Information

authorization

- authenticate
- login
- logout
- ping

points

- points/query
- points/export
- points/sources
- points/operate
- points/publish
- points/unpublish

objects

- objects/query
- objects
- objects/sources/query
- objects/sources

diagrams

- diagram/open

requests

- requests

trends

- trend
- trend/tabular
- trend/groups

events

- events/read
- events

reports

- report/configs/query
- report/configs
- report/custom
- report/global
- report/global/run

shades

- shades/points
- shades/read
- shades/write
- shades/clear
- shades/copy

users

- sg
- tg
- user/sg
- user/profile
- users/query

status

- status
- license

Errors

RESPONSE

```
{
  "id": 1234 // request id
}
```

/api/v1/trend/groups

Retrieves a list of trend groups migrated to the specified configuration version. If configuration version is unspecified, it defaults to the current version.
Parameters:

- "ver" - configuration version

GET

REQUEST

/api/v1/trend/groups?ver=9.2.0.26

RESPONSE

```
{
  "Unit1": {
    "ovation_trends": {
      "": {
        "test-123456": {
          "": {
            "[@config_block@]": {
              "": {
                "id": "2",
                "version": "9.2.0.36"
              }
            }
          },
          "chart": {
            "": {
              "0": {
                "S25B-U1-L.PCC@SFWM": {
                  "bit": "0",
                  "colors": "FF0000 FFFF0000 FFFF0000 FFFF00",
                  "id": "1",
                  "regular_to_shade": "default",
                  "yrang": "auto"
                }
              }
            }
          },
          "Configurations": {
            "": {
              "default": {
                "default": {
                  "archive": "0",
                  "autoScaleMarginPercentage": "0",
                  "backgroundColor": "0",
                  "description": "",
                  "futureColor": "FFFFFF00",
                  "minimumVerticalGridLines": "4",
                  "numberOfGridLines": "7",
                  "numberOfSubGridLines": "1",
                  "pointXItemId": "-1",
                  "subwindows": {
                    "": {
                      "count": "0",
                      "layout": "quadrant",
                      "titles": {"": {"A": "", "B": "", "C": "", "D": ""}}
                    }
                  },
                  "thickLines": "0",
                  "timeRange": {
                    "": {
                      "endTime": "1637268223",
                      "startTime": "1637181823",
                      "range": "86400"
                    }
                  }
                }
              },
              "type": "norm",
              "verticalGridType": "1",
              "verticalGridUnit": "10",
              "viewerConfig": "1 0 0 0 1 1 0 0 0 0 0",
              "viewerEventsConfig": "FF FFFF",
              "viewerHaxisConfig": {"": {"0": "0 1 0", "1": "", "2": ""}}
            }
          }
        }
      }
    }
  }
}
```

EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

```
futureColor": "FFFFFF00",
"thickLines": "0",
"timeRange": {
  "": {
    "endTime": "1637268223",
    "startTime": "1637181823",
    "range": "86400"
  }
},
"type": "norm"
}
}
}
}
}
}
}
```

/api/v1/events/read

GET - Retrieves events read results.

Parameters:

- "id" - request id
- "fields" - (optional) comma-separated list of fields returned in response. Full list of fields: "category", "type", "priority", "message", "sid", "iess", "floatValue", "intValue", "st", "ts", "tss", "aux", "foreground", "background"

POST - Requests event read.

All returned Events will be ordered in reverse chronological order. See also [/api/v1/requests](#).

GET

REQUEST

/api/v1/events/read?id=1234

RESPONSE

```
{
  "events": [{
    "category": "ALARM", // (optional) category: "SYSTEM", "ALARM", "EXTERNAL", "CUSTOM", "SET_POINT"
    "type": "ALARM_ANALOG", // (optional) type:
    // "SYSTEM_STARTUP", "SYSTEM_SHUTDOWN", "GRANT_LOGIN", "DENY_LOGIN", "LOGOUT", "TIMEOUT", "DIAGRAM_CHANGE",
    // "SCANNER", "ZD_SHUTDOWN", "REPORT_EXEC_SUCC", "REPORT_EXEC_RETR", "REPORT_EXEC_FAIL", "FORCE_FILLIN",
    // "ALARM_ANALOG", "ALARM_BINARY", "ALARM_PACKED", "ALARM_DOUBLE", "ALARM_INT64",
    // "SET_ANALOG", "SET_BINARY", "SET_PACKED", "SET_DOUBLE", "SET_INT64",
    // "EXTERNAL_ALARM_ANALOG", "EXTERNAL_ALARM_BINARY", "EXTERNAL_ALARM_PACKED", "EXTERNAL_ALARM_DROP",
    // "EXTERNAL_ALARM_HARDWARE", "EXTERNAL_ALARM_MODULE", "EXTERNAL_ALARM_NODE", "EXTERNAL_ALARM_DEVICE",
    // "EXTERNAL_ALARM_COS", "EXTERNAL_ALARM_SOE", "EXTERNAL_ALARM_SYSTEM", "EXTERNAL_ALARM_OEL",
    // "EXTERNAL_ALARM_TEXT", "CUSTOM_MESSAGE",
    "priority": 5, // (optional) priority
    "message": "abcd", // (optional) message
    "sid": 1234, // (optional) point sid
    "iess": "iess1", // (optional) point iess
    "floatValue": 5.23, // (optional) float value
    "intValue": 32, // (optional) int value
    "st": 1, // (optional) status bits
    "ts": 1603305950, // (optional) timestamp
    "tss": 0, // (optional) timestamp shift
    "aux": 0, // (optional) aux
    "foreground": 123, // (optional) foreground color ARGB bytes
    "background": 123 // (optional) background color ARGB bytes
  }]
}
```

POST

REQUEST

```
{
  "filter": { // (optional) filter
    "period": { // (optional) time range
      "from": 1603305950,
      "till": 1603305959
    },
  },
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "filter": {
      "type": "object",
      "properties": {

```

EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

```
sg : [5, 4], // (optional) technological groups array
"tg": [5, 6], // (optional) technological groups array
"zd": ["source1"], // (optional) source array
"iessRe": "^abc", // (optional) iess regular expression
"messageRe": "^abc", // (optional) message regular expression
"pointId": [{ // (optional) point id array
  "sid": 1, // (optional) point sid
  "iess": "iess1" // (optional) point iess
}],
"maxCount": 50 // (optional) maximum number of results, default: 100
}
```

```
required: {
  "category": {"type": "array"},
  "rt": {"type": "array"},
  "priority": {"type": "array"},
  "sg": {"type": "array"},
  "tg": {"type": "array"},
  "zd": {"type": "array"},
  "iessRe": {"type": "string"},
  "messageRe": {"type": "string"},
  "pointId": {
    "type": "array",
    "items": {
      "type": "object",
      "properties": {
        "sid": {"type": "integer"},
        "iess": {"type": "string"}
      }
    }
  },
  "maxCount": {"type": "integer"},
},
"required": ["filter"]
}
```

RESPONSE

```
{
  "requestId": 1234 // request id
}
```

/api/v1/events

Creates events of type CUSTOM_MESSAGE.

POST

REQUEST

```
[{
  "priority": 1, // alarm priority
  "message": "msg1", // (optional) message
  "pointId": {
    "sid": 2, // (optional) point sid
    "iess": "iess1" // (optional) point iess
  },
  "floatValue": 2.5, // (optional) float value
  "intValue": 3, // (optional) integer value
  "st": 4, // (optional) status
  "ts": 1603305950, // timestamp
  "tss": 0, // (optional) timestamp shift
  "aux": 6 // (optional) aux
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "priority": {"type": "integer", "minimum": 1, "maximum": 1},
      "message": {"type": "string"},
      "pointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "floatValue": {"type": "number"},
      "intValue": {"type": "integer"},
      "st": {"type": "integer", "minimum": 0},
      "ts": {"type": "integer", "minimum": 0},
      "tss": {"type": "integer", "minimum": 0},
      "aux": {"type": "integer", "minimum": 0}
    }
  },
  "required": ["priority", "ts"]
},
"maxItems": 128
}
```

/api/v1/report/configs/query

Query report configurations.

POST

REQUEST

```
{
  "filters": [{ // (optional) filters array joined by OR
    "category": "category",
    "rt": "rt",
    "priority": "priority",
    "sg": "sg",
    "tg": "tg",
    "zd": "zd",
    "iessRe": "iessRe",
    "messageRe": "messageRe",
    "pointId": {
      "sid": "sid",
      "iess": "iess"
    }
  }]
}
```

SCHEMA

```
{
  "type": "object",
  "properties": {
    "filters": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "category": {"type": "string"},
          "rt": {"type": "string"},
          "priority": {"type": "string"},
          "sg": {"type": "string"},
          "tg": {"type": "string"},
          "zd": {"type": "string"},
          "iessRe": {"type": "string"},
          "messageRe": {"type": "string"},
          "pointId": {
            "type": "object",
            "properties": {
              "sid": {"type": "integer"},
              "iess": {"type": "string"}
            }
          }
        }
      }
    }
  }
}
```

EDS API v1		
General Information authorization authenticate login logout ping points points/query points/export points/sources points/operate points/publish points/unpublish objects objects/query objects objects/sources/query objects/sources diagrams diagram/open requests requests trends trend trend/tabular trend/groups events events/read events reports report/configs/query report/configs report/custom report/global report/global/run shades shades/points shades/read shades/write shades/clear shades/copy users sg tg user/sg user/profile users/query status status license Errors	<pre>nameRe : "abc", // (optional) name regular expression "sourceNameRe": "^abc", // (optional) source name regular expression "sourceId": [1], // (optional) source ids array "modified": { // (optional) time modification range "from": 1603305950, "till": 1603305959 }, "sg": [0, 1], // (optional) security groups array "tg": [0, 1], // (optional) technological groups array "md5": "abcdefg" // (optional) md5 hash }, "outputType": "FILE_RDF", // (optional) output type "executionCondition": "CYCLIC" // (optional) execution condition }}, "page": 2, // (optional) page number, default: 1 "pagesize": 50 // (optional) results per page, default: 100, max: 1000 }</pre>	<pre>items : { "type": "object", "properties": { "objectFilter": { "id": {"type": " "fileRe": {"type "nameRe": {"type "sourceNameRe": "sourceId": {"ty "modified": { "type": "objec "properties": "required": [" }, "sg": {"type": " "tg": {"type": " "md5": {"type": }, "outputType": { "type": "string" "enum": ["FILE_T "DATABA }, "executionConditio } }, "page": {"type": "intege "pagesize": {"type": "in }</pre>
	<div>RESPONSE</div> <pre>{ "results": [{ "id": 1, // id "reportDefinitionSource": "src1", // source "reportDefinitionFile": "r1.edf", // file "referenceTimeShift": "", // reference time shift "runDelay": 60, // run delay [s] "timeMaskExpression": "0 * * * *", // cron mask "eventsExpression": "", // events expression "inputValues": "", // input values "outputMaskFileTxt": "", // (optional) output mast file txt "outputMaskFileRdf": "", // (optional) output mast file rdf "outputMaskFileEdf": "", // (optional) output mast file edf "outputMaskFileHtml": "", // (optional) output mast file html "outputMaskFilePdf": "", // (optional) output mast file pdf "outputMaskFileCsv": "", // (optional) output mast file csv "outputMaskDatabaseRdf": "", // (optional) output mast database rdf "outputMaskDatabaseEdf": "", // (optional) output mast database edf "outputMaskDatabaseHtml": "" // (optional) output mast database html }], "matchCount": 1, // matched count "totalCount": 100000, // total count }</pre>	
	<div>/api/v1/report/configs</div> <div>POST - create report configs</div> <div>PUT - update report configs</div> <div>DELETE - delete report configs</div> <div>POST</div> <div>REQUEST</div> <pre>[{ "sourceId": 123, // source id "rdfFileName": "myfile.rdf", // filename "config": { "referenceTimeShift": "", "runDelay": 60, "timeMaskExpression": "0 * * * *", "eventsExpression": "", "inputValues": "", "outputMaskFileTxt": "", "outputMaskFileRdf": "", "outputMaskFileEdf": "", "outputMaskFileHtml": "",</pre>	
	<div>SCHEMA</div> <pre>{ "type": "array", "items": { "type": "object", "properties": { "sourceId": {"type": "integer", "minimum": 0}, "rdfFileName": {"type": "string"}, "config": { "type": "object", "properties": { "referenceTimeShift": {"type": "string"}, "runDelay": {"type": "integer", "minimum": 0}, "timeMaskExpression": {"type": "string"},</pre>	

EDS API v1

General Information

authorization

 authenticate

 login

 logout

 ping

points

 points/query

 points/export

 points/sources

 points/operate

 points/publish

 points/unpublish

objects

 objects/query

 objects

 objects/sources/query

 objects/sources

diagrams

 diagram/open

requests

 requests

trends

 trend

 trend/tabular

 trend/groups

events

 events/read

 events

reports

 report/configs/query

 report/configs

 report/custom

 report/global

 report/global/run

shades

 shades/points

 shades/read

 shades/write

 shades/clear

 shades/copy

users

 sg

 tg

 user/sg

 user/profile

 users/query

status

 status

 license

Errors

```
    "outputMaskDatabaseEdf": "",
    "outputMaskDatabaseHtml": ""
  }
}
```

```
    "outputMaskFileEdf": { "type": "string" },
    "outputMaskFileEdf": { "type": "string" },
    "outputMaskFileHtml": { "type": "string" },
    "outputMaskFilePdf": { "type": "string" },
    "outputMaskFileCsv": { "type": "string" },
    "outputMaskDatabaseRdf": { "type": "string" },
    "outputMaskDatabaseEdf": { "type": "string" },
    "outputMaskDatabaseHtml": { "type": "string" }
  }
},
"required": [ "sourceId", "rdfFileName", "config" ]
}
```

PUT

REQUEST

```
[{
  "id": 123, // config id
  "config": {
    "referenceTimeShift": "",
    "runDelay": 60,
    "timeMaskExpression": "0 * * * *",
    "eventsExpression": "",
    "inputValues": "",
    "outputMaskFileTxt": "",
    "outputMaskFileRdf": "",
    "outputMaskFileEdf": "",
    "outputMaskFileHtml": "",
    "outputMaskFilePdf": "",
    "outputMaskFileCsv": "",
    "outputMaskDatabaseRdf": "",
    "outputMaskDatabaseEdf": "",
    "outputMaskDatabaseHtml": ""
  }
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": { "type": "integer", "minimum": 0 },
      "config": {
        "type": "object",
        "properties": {
          "referenceTimeShift": { "type": "string" },
          "runDelay": { "type": "integer", "minimum": 0 },
          "timeMaskExpression": { "type": "string" },
          "eventsExpression": { "type": "string" },
          "inputValues": { "type": "string" },
          "outputMaskFileTxt": { "type": "string" },
          "outputMaskFileRdf": { "type": "string" },
          "outputMaskFileEdf": { "type": "string" },
          "outputMaskFileHtml": { "type": "string" },
          "outputMaskFilePdf": { "type": "string" },
          "outputMaskFileCsv": { "type": "string" },
          "outputMaskDatabaseRdf": { "type": "string" },
          "outputMaskDatabaseEdf": { "type": "string" },
          "outputMaskDatabaseHtml": { "type": "string" }
        }
      }
    },
    "required": [ "id", "config" ]
  }
}
```

DELETE

REQUEST

```
[{
  "id": 1 // config id
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "id": { "type": "integer", "minimum": 0 }
    },
    "required": [ "id" ]
  }
}
```

/api/v1/report/custom

GET - Retrieves custom report result

POST - Requests custom report

See also </api/v1/requests>.

GET

REQUEST

EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

[
 ["abc", "aaa"],
 ["1.123", "2.3"]
]

POST

REQUEST

```
{  
  "rdf": {  
    "localTime": true,           // report definition  
                                // (optional) local or UTC time, default: false  
    "showDstTransition": true,  // (optional) show DST transition, default: false  
    "showQuality": true,       // (optional) show value qualities, default: true  
    "precision": 2,            // (optional) default precision, default: 6  
    "timeMode": "RELATIVE",    // (optional) time mode, default: "RELATIVE"  
    "addressingType": "A1",    // (optional) addressing type, default: "A1"  
    "shadePriority": "DEFAULT", // (optional) shade priority, default: "DEFAULT"  
    "rows": [  
      [ "abc" // cells as text  
      ],  
      [{  
        "content": "aaa" // cells as objects  
        "showQuality": true, // content  
                           // (optional) show quality  
        "precision": 3 // (optional) precision  
      }]  
    ],  
    "dtRef": 1603305950, // DT_REF reference time  
    "args": {  
      "myarg": {  
        "boolean": true, // (optional) boolean value  
        "number": 5,    // (optional) number value  
        "packed": 1,    // (optional) packed value  
        "string": "x",  // (optional) boolean value  
        "timestamp": 1603305950, // (optional) timestamp value  
        "point": "pt1", // (optional) point name value  
        "quality": "GOOD" // (optional) value quality, default: GOOD  
      }  
    }  
  }  
}
```

RESPONSE

```
{  
  "id": 1234 // request id  
}
```

SCHEMA

```
{  
  "type": "object",  
  "properties": {  
    "rdf": {  
      "type": "object",  
      "properties": {  
        "localTime": {"type": "  
        "showDstTransition": {  
        "showQuality": {"type": "  
        "precision": {"type": "  
        "timeMode": {"type": "s  
        "addressingType": {"typ  
        "shadePriority": {"type  
        "rows": {  
          "type": "array",  
          "items": {  
            "type": "array",  
            "items": {  
              "anyOf": [  
                {  
                  "type": "stri  
                },  
                {  
                  "type": "obje  
                  "properties":  
                    "content":  
                    "showQualit  
                    "precision"  
                },  
                "required": [  
              }  
            }  
          }  
        },  
        "required": ["rows"]  
      },  
      "dtRef": {"type": "integer"  
      "args": {  
        "type": "object",  
        "additionalProperties": {  
          "type": "object",  
          "properties": {  
            "boolean": {"type": "  
            "number": {"type": "n  
            "packed": {"type": "i  
            "string": {"type": "s  
            "timestamp": {"type": "  
            "point": {"type": "st  
            "quality": {"type": "  
          }  
        }  
      },  
      "required": ["rdf", "dtRef"]  
    }  
  }  
}
```

/api/v1/report/global

Creates global report.

See also [/api/v1/requests](#).

POST

/api/v1/report/global

Creates global report.
See also [/api/v1/requests](#).

POST

EDS API v1

General Information	<pre>status : LAST }]</pre>
authorization	
authenticate	
login	
logout	
ping	
points	
points/query	
points/export	
points/sources	
points/operate	
points/publish	
points/unpublish	
objects	
objects/query	
objects	
objects/sources/query	
objects/sources	
diagrams	
diagram/open	
requests	
requests	
trends	
trend	
trend/tabular	
trend/groups	
events	
events/read	
events	
reports	
report/configs/query	
report/configs	
report/custom	
report/global	
report/global/run	
shades	
shades/points	
shades/read	
shades/write	
shades/clear	
shades/copy	
users	
sg	
tg	
user/sg	
user/profile	
users/query	
status	
status	
license	
Errors	

POST

REQUEST

```
[{
  "pointId": {
    "sid": 1, // point id
              // (optional) point sid
    "iess": "iess1" // (optional) point iess
  },
  "period": {
    "from": 1603305950, // time range
    "till": 1603305959
  }
}]
```

RESPONSE

```
{
  "id": 1234 // request id
}
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "pointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "period": {
        "type": "object",
        "properties": {"from": {"type": "integer"}, "till": {"type": "integer"}},
        "required": ["from", "till"]
      }
    },
    "required": ["pointId", "period"]
  }
}
```

/api/v1/shades/write

Overwrite points shades for a specific time periods. See also [/api/v1/requests](#).

POST

REQUEST

```
[{
  "pointId": {
    "sid": 1, // point id
              // (optional) point sid
    "iess": "iess1" // (optional) point iess
  },
  "period": {
    "from": 1603305950, // time range
    "till": 1603305959
  },
  "value": 1.1 // (optional) value
  "quality": "GOOD", // (optional) quality
}]
```

RESPONSE

```
{
  "id": 1234 // request id
}
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "pointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "period": {
        "type": "object",
        "properties": {"from": {"type": "integer"}, "till": {"type": "integer"}},
        "required": ["from", "till"]
      },
      "value": {"type": ["number", "string", "boolean"]},
      "quality": {"type": "string", "enum": ["GOOD", "FAIR", "POOR"]}
    },
    "required": ["pointId", "period", "value", "quality"]
  }
}
```

EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

Clear points shades for a specific time periods. See also </api/v1/requests>.

POST

REQUEST

```
[{
  "pointId": {
    "sid": 1,           // point id
    "iess": "iess1"    // (optional) point sid
                    // (optional) point iess
  },
  "period": {
    "from": 1603305950, // time range
    "till": 1603305959
  }
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "pointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "period": {
        "type": "object",
        "properties": {"from": {"type": "integer"}, "till": {"ty
          "required": ["from", "till"]
        }
      },
      "required": ["pointId", "period"]
    }
  }
}
```

RESPONSE

```
{
  "id": 1234 // request id
}
```

/api/v1/shades/copy

Copy shades between points for a specific time periods. The points must be of the same type. See also </api/v1/requests>.

POST

REQUEST

```
[{
  "srcPointId": {
    "sid": 1,           // source point id
    "iess": "iess1"    // (optional) point sid
                    // (optional) point iess
  },
  "dstPointId": {
    "sid": 2,           // destination point id
    "iess": "iess2"    // (optional) point sid
                    // (optional) point iess
  },
  "period": {
    "from": 1603305950, // time range
    "till": 1603305959
  }
}]
```

SCHEMA

```
{
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "srcPointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "dstPointId": {
        "type": "object",
        "properties": {
          "sid": {"type": "integer", "minimum": 0},
          "iess": {"type": "string"}
        }
      },
      "period": {
        "type": "object",
        "properties": {"from": {"type": "integer"}, "till": {"ty
          "required": ["from", "till"]
        }
      },
      "required": ["srcPointId", "dstPointId", "period"]
    }
  }
}
```

RESPONSE

EDS API v1	
General Information	
authorization	
authenticate	
login	
logout	
ping	
points	
points/query	
points/export	
points/sources	
points/operate	
points/publish	
points/unpublish	
objects	
objects/query	
objects	
objects/sources/query	
objects/sources	
diagrams	
diagram/open	
requests	
requests	
trends	
trend	
trend/tabular	
trend/groups	
events	
events/read	
events	
reports	
report/configs/query	
report/configs	
report/custom	
report/global	
report/global/run	
shades	
shades/points	
shades/read	
shades/write	
shades/clear	
shades/copy	
users	
sg	
tg	
user/sg	
user/profile	
users/query	
status	
status	
license	
Errors	
	<div><div>/api/v1/sg</div><div>Returns a list of all technological groups (tg).</div><div>GET</div><div>REQUEST</div><div>/api/v1/sg</div><div>RESPONSE</div><div>[{"id": 0, "name": "admin", "desc": ""}]</div></div>
	<div><div>/api/v1/tg</div><div>Returns a list of all technological groups (tg).</div><div>GET</div><div>REQUEST</div><div>/api/v1/tg</div><div>RESPONSE</div><div>[{"id": 0, "name": "admin", "desc": ""}]</div></div>
	<div><div>/api/v1/user/sg</div><div>Returns a list of all technological groups (tg).</div><div>GET</div><div>REQUEST</div><div>/api/v1/user/sg</div><div>RESPONSE</div><div>[{"id": 0, "name": "admin", "desc": ""}]</div></div>
	<div><div>/api/v1/user/profile</div><div>Returns user effective profile. Effective profile is composition of all profiles with user security groups access.</div><div>GET</div></div>

EDS API v1

General Information

authorization

authenticate

login

logout

ping

points

points/query

points/export

points/sources

points/operate

points/publish

points/unpublish

objects

objects/query

objects

objects/sources/query

objects/sources

diagrams

diagram/open

requests

requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/configs

report/custom

report/global

report/global/run

shades

shades/points

shades/read

shades/write

shades/clear

shades/copy

users

sg

tg

user/sg

user/profile

users/query

status

status

license

Errors

/api/v1/user/profile

RESPONSE

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<!DOCTYPE boost_serialization>
<boost_serialization signature="serialization::archive" version="19">
<Root class_id="0" tracking_level="1" version="0" object_id="_0">
 <mValue></mValue>
 <mEditable>1</mEditable>
 <mCanHaveExtraSubNodes>1</mCanHaveExtraSubNodes>
 <mSubNodes class_id="1" tracking_level="0" version="0">
 <count>0</count>
 <item_version>0</item_version>
 </mSubNodes>
</Root>
</boost_serialization>

/api/v1/users/query

Query users matching selected criteria. Requires admin SG.
The "order" parameter should be a list of fields names, for example: ["created", "-id"]. Adding "-" before a field name reverses the order.

POST

REQUEST

{
 "filters": [{
 "id": [1, 2],
 "nameRe": "^abc"
 }],
 "order": ["name"],
 "fields": ["id", "name"],
 "page": 2,
 "pagesize": 50
}

SCHEMA

{
 "type": "object",
 "properties": {
 "filters": {
 "type": "array",
 "items": {
 "type": "object",
 "properties": {
 "id": {"type": "ar"},
 "nameRe": {"type": "string"}
 }
 },
 "order": {"type": "array"},
 "page": {"type": "integer"},
 "pagesize": {"type": "integer"},
 "fields": {
 "type": "array",
 "items": {
 "type": "string",
 "enum": ["id", "name"]
 }
 }
 }
 }
}

RESPONSE

{
 "results": [{
 "id": 1,
 "name": "user1",
 "description": "abc",
 "locked ": false,
 "created": 1603305950,
 "modified": 1603305959,
 "sg": [0, 1]
 }],
 "matchCount": 1,
 "totalCount": 100,
}

/api/v1/status

Returns information about current server status

https://eds-demo.tt.com.pl/webapi/doc/api/v1

24/26

EDS API v1	
<div>General Information</div> <div>authorization</div> <div>authenticate</div> <div>login</div> <div>logout</div> <div>ping</div> <div>points</div> <div>points/query</div> <div>points/export</div> <div>points/sources</div> <div>points/operate</div> <div>points/publish</div> <div>points/unpublish</div> <div>objects</div> <div>objects/query</div> <div>objects</div> <div>objects/sources/query</div> <div>objects/sources</div> <div>diagrams</div> <div>diagram/open</div> <div>requests</div> <div>requests</div> <div>trends</div> <div>trend</div> <div>trend/tabular</div> <div>trend/groups</div> <div>events</div> <div>events/read</div> <div>events</div> <div>reports</div> <div>report/configs/query</div> <div>report/configs</div> <div>report/custom</div> <div>report/global</div> <div>report/global/run</div> <div>shades</div> <div>shades/points</div> <div>shades/read</div> <div>shades/write</div> <div>shades/clear</div> <div>shades/copy</div> <div>users</div> <div>sg</div> <div>tg</div> <div>user/sg</div> <div>user/profile</div> <div>users/query</div> <div>status</div> <div>status</div> <div>license</div> <div>Errors</div>	<div>REQUEST</div> <div>/api/v1/status</div> <div>RESPONSE</div> <div><pre>{ "time": 1641550268, "timezone_offset": 3600, "srv_connection": "LOGGED_IN SYNCHRONIZED STATIC_CHANGED DYNAMIC_CHANGED UPDATE_CYCLE", "object_srv_connection": "CONNECTED", "archive_srv_connection": "CONNECTED", "report_srv_connection": "CONNECTED", "objects_count": 4, "objects_pending_count": 0, "http_connections": 1, "https_connections": 0, "soap_http_connections": 0, "soap_https_connections": 0, "live_data_connections": 0, "session_count": 1, "request_count": 0, "request_running_count": 0 }</pre></div>
	<div>/api/v1/license</div> <div>Returns EDS server license information</div> <div>GET</div> <div>REQUEST</div> <div>/api/v1/license</div> <div>RESPONSE</div> <div><pre>{ "AllowedNetworkAddresses": "0.0.0.0/0", "ClientType:DBA": "0.0.0.0/0", "ClientType:TERM": "0.0.0.0/0", "Clustering": "Yes", "DatabaseName": "eds", "ExpiryDate": "unlimited", "ImportAlarms": "Yes", "LicenseType": "Commercial", "LocalAlarms": "Yes", "MSExcelPluginEnabled": "Yes", "MaxArchivedPoints": "200000", "MaxClients": "128", "MaxControlDiagrams": "50000", "MaxDiagramSources": "10", "MaxPoints": "200000", "MaxProcessDiagrams": "50000", "MaxReports": "5000", "MaxWEBApiSessions": "unlimited", "MaxZDs": "20", "MaxZIPs": "50000", "MobileLicenseExpiryDate": "19/07/2022", "MobileLicenseMultiServer": "No", "MultiServerConnectivity": "Yes", "NotificationServiceEnabled": "No", "OneWayScanners": "Yes", "OnlineCalculationsEnabled": "Yes", "Product": "EnterpriseServer", "ReportsEnabled": "Yes", "TabularTrendsEnabled": "Yes", "Vendor": "Transition Technologies S.A.", "WEBApiSupportsGraphics": "Yes", "WinNTOwner": "xxx", "WinNTSerialNbr": "xxxxx-xxxxx-xxxxx-xxxxx" }</pre></div>
	<div>Errors</div>

EDS API v1

General Information	Response body will contain JSON with following structure:
authorization	
authenticate	
login	
logout	
ping	
points	
points/query	
points/export	
points/sources	
points/operate	
points/publish	
points/unpublish	
objects	
objects/query	
objects	
objects/sources/query	
objects/sources	
diagrams	
diagram/open	
requests	
requests	
trends	
trend	
trend/tabular	
trend/groups	
events	
events/read	
events	
reports	
report/configs/query	
report/configs	
report/custom	
report/global	
report/global/run	
shades	
shades/points	
shades/read	
shades/write	
shades/clear	
shades/copy	
users	
sg	
tg	
user/sg	
user/profile	
users/query	
status	
status	
license	
Errors	

Error body

```
{
  "error": 1,           // error code
  "message": "License invalid" // error message
}
```

- 0 -
- 1 - License invalid
- 2 - License expired
- 3 - Mobile license invalid
- 4 - Mobile license expired
- 5 - License max session reached
- 6 - Object server not connected
- 7 - Authentication error
- 8 - Authentication timeout
- 9 - User not in 'webapi' nor 'admin' group
- 10 - Cannot remove own permission
- 11 - Invalid request ID
- 30 - Points' data not synchronized yet.
- 31 - Point not found
- 32 - Invalid point type
- 33 - Invalid point value
- 34 - No point alter permission
- 35 - Cannot operate point
- 36 - No operate permission
- 37 - Operate point error
- 400 - Bad request
- 401 - Unauthorized
- 403 - Access denied
- 404 - Not found
- 500 - Internal server error