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

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
                                 SCHEMA
  "username": "myname",
                                   "type": "object"
  "password": "mypass'
                                   "properties": {
    "username": {"type": "string"},
                                      "password": {"type": "string"}
                                   },
"required": ["username", "password"]
RESPONSE
```

/api/v1/login

Creates new session.

"authenticated": true

POST

```
REQUEST
   "username": "myname";
"password": "mypass";
                                  ^{\prime}/^{\prime} client type "portal", "mobile" or custom name
    'type": "myapp<sup>'</sup>
```

```
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

license Errors

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/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" ...
```

```
REQUEST
  "filters": [{
                                          // (optional) filters array joined by OR
    rifers": [{
    "sid": [1, 2],
    "iess": ["iess1", "iess2"],
    "iessRe": "^abc",
    "idcs": ["idcs1", "idcs2"],
    "idcsRe": "^abc",
    "zd": ["zd1", "zd2"],
    "zdRe": "^abc",

                                              (optional) sid array
                                              (optional) iess array
                                              (optional) iess regular expression
                                              (optional) idcs array
                                          // (optional) idcs regular expression
                                              (optional) source array
                                              (optional) source regular expression
     "descRe": "^abc",
"auxRe": "^abc",
                                              (optional) description regular expression
                                              (optional) aux regular expression
     "rt": ["ANALOG", "DOUBLE"],
                                              (optional) record type array
                                           // (optional) time modification range
       "from": 1603305950,
"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,
"xst1Set": 0,
                                              (optional) definition flags unset
                                              (optional) xst1 bits set
     "xst1Unset": 0,
                                              (optional) xst1 bits unset
     "xst2Set": 0,
                                              (optional) xst2 bits set
                                              (optional) xst2 bits unset
     "xst2Unset": 0,
     "xst3Set": 0,
                                              (optional) xst3 bits set
     "xst3Unset": 0
                                              (optional) xst3 bits unset
     "artd": ["NONE", "PCT_RANGE"] //
                                              (optional) archiving type array
                                              (optional) archiving deadband type array
     "sg": [0, 1],
"tg": [0, 1],
                                              (optional) security groups array
                                              (optional) technological groups array
     "ap": [1, 2]
                                          // (optional) alarm priority array
  "order": ["zd", "iess"], // (optional) order, see description for mor
"fields": ["rt" ,"iess"], // (optional) list of fields returned in response
                                         // (optional) order, see description for more details
```

```
SCHEMA
              "type": "object",
                   "properties": {
                               "filters": {
    "type": "array",
                                           "items": {
   "type": "object",
                                                          "properties": {
   "sid": {"type": '
   "iess": {"type":
   "iessRe": {"type"
                                                                    "idcs": { "type" : "idcsRe": { "type" : "type" : "ad": { "type" : "ad": { "type" : "
                                                                         "descRe": {"type'
                                                                       "auxRe": {"type"
                                                                         "rt": {"type":
                                                                                        "type": "object
                                                                                        "properties": {
"required": ["f
                                                                    },
"quality": {"type
    "' '"+vpe":
                                                                       "stSet": {"type":
                                                                         "stUnset": {"type
                                                                         "dfSet": {"type":
                                                                       "dfUnset": {"type
"xst1Set": {"type
                                                                         "xst1Unset":
                                                                                                                                                                  {"ty
                                                                       "xst2Set": {"
                                                                                                                                                                    type
                                                                       "xst2Unset"
                                                                      "xst3Set": {"type
"xst3Unset": {"ty
                                                                         "ar": {"type":
                                                                         "artd": {
```

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```
enum : L NON
General Information
authorization
                                                                                                                                                               "sg": {"type": "a
 authenticate
                                                                                                                                                                     {"type": "a
                                                                                                                                                              "tg":
                                                                                                                                                              "ap": {"type": "a
 login
 logout
                                                                                                                                                         }
 ping
                                                                                                                                                        "order": {"type": "arra
"page": {"type": "integ
points
                                                                                                                                                        "pagesize": {"type": "i
                                                                                                                                                        "fields": {
    "type": "array",
                                                                                                                                                        points/query
 points/export
 points/sources
 points/operate
 points/publish
                                                                                                                                                       }
 points/unpublish
objects
 objects/query
                                        RESPONSE
 objects
 objects/sources/query
                                          "points": [{
 objects/sources
                                            "sid": 1,
"iess": "iess1",
"idcs": "idcs1",
"zd": "zd1",
                                                                      // (optional) sid
                                                                      // (optional) iess
diagrams
                                                                      // (optional) idcs
                                                                      // (optional) source
 diagram/open
                                             "rt": "ANALOG",
                                                                      // (optional) record type
                                             "value": 1.23,
                                                                      // (optional) value
requests
                                             "quality": "GOOD",
                                                                      // (optional) quality
                                             "ts": 1603305959,
"lts": 1603305959,
                                                                      // (optional) last read timestamp
 requests
                                                                      // (optional) long term modification timestamp
                                             "tss": 0,
"at": 0,
                                                                      // (optional) timestamp shift
trends
                                                                      // (optional) alarm timestamp
                                             "atss": 0,
"desc": "desc1",
"st": 0,
                                                                         (optional) alarm timestamp shift
 trend
                                                                      // (optional) description
 trend/tabular
                                                                      // (optional) status bits
                                             "xst1": 0,
"xst2": 0,
                                                                      // (optional) external status 1 bits
 trend/groups
                                                                      // (optional) external status 2 bits
                                             "xst3": 0,
"ar": "LONG_TERM",
                                                                         (optional) external status 3 bits
events
                                                                      // (optional) archiving type
                                             "artd": "PCT_RANGÉ",
                                                                         (optional) archiving deadband type
 events/read
                                            "ard": 1.0,
"sg": [0, 1],
"tg": [],
"df": 0,
                                                                      // (optional) archiving deadband
                                                                      // (optional) security groups
 events
                                                                      // (optional) technological groups
                                                                      // (optional) definition flags
reports
                                            "ap": 0,
"aux": "",
"un": "m",
"dp": 2,
"tb": 2,
                                                                         (optional) alarm priority
                                                                      // (optional) aux
 report/configs/query
                                                                      // (optional) unit
 report/configs
                                                                      // (optional) display precision
                                                                      // (optional) top bar
 report/custom
                                             "bb": 0,
                                                                      // (optional) bottom bar
                                             "h1": 2,
                                                                      // (optional) high limit
 report/global
                                             "11": 0,
                                                                         (optional) low limit
 report/global/run
                                            "sd": "NORMAL",
"rd": "ALARM",
"foreground": 123,
"background": 123
                                                                      // (optional) set description (BINARY)
                                                                      // (optional) reset description (BINARY)
shades
                                                                      // (optional) foreground color
                                                                      // (optional) background color
 shades/points
                                          }],
"matchCount": 1,
                                                                      // matched elements count
 shades/read
                                           "totalCount": 100000,
                                                                      // total point count
 shades/write
 shades/clear
 shades/copy
users
 sg
                                   /api/v1/points/export
 tg
                                   Export points matching selected criteria or a pre-defined filter.
 user/sg
 user/profile
                                   GET - export points matching a pre-defined filter.
 users/query
status
                                   Parameters:
 status

    "zd" - zd name

 license
```

Errors

• "iess" - iess simple regular expression

"idcs" - idcs simple regular expression
"desc" - desc simple regular expression
"aux" - aux simple regular expression

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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.

- "separator" space is the default separator
- "encoding" one of: iso-8859-1, iso8859-1, iso-latin-1, latin-1, latin-1, iso-8859-2, iso8859-2, iso-latin-2, latin-2, latin2, windows-1250, windows-1250, windows-1251, windows-1251, windows-1252, windows-1252, utf-8, utf-16be, utf-16be, utf-16le, utf-16le, unicode
- "flags" (optional) 0x0002 export with SIDs
- "page" (optional) page number
- "pagesize" (optional) points per page (default: 1000000, max: 1000000)

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" ...
```

```
REQUEST
    "filters": [{
                                                                                 // (optional) filters array joined by OR
        rifers": [{
    "sid": [1, 2],
    "iess": ["iess1", "iess2"],
    "iessRe": "^abc",
    "idcs": ["idcs1", "idcs2"],
    "idcsRe": "^abc",
    "zd": ["zd1", "zd2"],
    "zdRe": "^abc",

                                                                                        (optional) sid array
                                                                                        (optional) iess array
                                                                                  // (optional) iess regular expression
                                                                                       (optional) idcs array
                                                                                        (optional) idcs regular expression
                                                                                 //
                                                                                        (optional) source array
                                                                                        (optional) source regular expression
         "descRe": "^abc",
"auxRe": "^abc",
                                                                                        (optional) description regular expression
                                                                                        (optional) aux regular expression
          "rt": ["ANALOG", "DOUBLE"],
"ts": {
    "from": 1603305950,
                                                                                        (optional) record type array
                                                                                 // (optional) time modification range
              "till": 1603305959
          "quality": ["GOOD", "FAIR"],
                                                                                // (optional) quality array
         "stSet": 0,
"stUnset": 0,
                                                                                // (optional) status bits set
// (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
                                                                                        (optional) xst2 bits unset
          "xst2Unset": 0.
                                                                                 11
          "xst3Set": 0,
                                                                                        (optional) xst3 bits set
                                                                                 //
          "xst3Unset": 0,
                                                                                 //
                                                                                        (optional) xst3 bits unset
         "ac": "DEFAULT", //
"acRe": "DEFT, //
"ar": ["LONG_TERM"], //
"artd": ["MONE", "PCT_RANGE"] //
                                                                                        (optional) description regular expression
                                                                                        (optional) description regular expression
                                                                                        (optional) archiving type array
                                                                                        (optional) archiving deadband type array
         "sg": [0, 1],
"tg": [0, 1],
                                                                                        (optional) security groups array
                                                                                 // (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 relative to the description of the descript
                                                                               // (optional) encoding, see description for more details
                                                                               // (optional) order, see description for more details
     "flags": 0x0002,
"page": 2,
"pagesize": 50
                                                                     // (optional) flags, default: 0x0002 - export with SIDs
                                                                   // (optional) page number, default: 1
                                                                  // (optional) results per page, default: 1000000, max: 1000000
```

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```
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 points/unpublish
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 objects/sources/query
 objects/sources
diagrams
 diagram/open
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 requests
trends
 trend
 trend/tabular
```

trend/groups

events/read

report/configs/query report/configs

report/custom report/global report/global/run

shades/points shades/read

shades/write

shades/clear shades/copy

events

events reports

shades

users

sg

tg

user/sg

user/profile

users/query

```
# ENCODING='utf-8'
# SAVE_TIMESTAMP=1680275316.0 SAVE_TIMESTAMP_LOCAL=2023-03-31_17:08:36
# POINTS_AND_CONFIGS_MD5=1f410743b28acf59bf94a3b6f10a3d06
# POINTS_TIMESTAMP=1677784798.4 POINTS_TIMESTAMP_LOCAL=2023-03-02_20:19:58
# CONFIGS_TIMESTAMP=1647328961.7 CONFIGS_TIMESTAMP_LOCAL=2022-03-15_08:22:42
CONFIG NAME='DEFAULT' AR='F' ARTD='V' ARD=0 ARP=' SELECTIVE_SOURCE_MERGE=\'0\' TREND_FORCEABLE=\'0\' USE_IDCS=\'1\'' SO
POINT RT=ANALOG SID=45631 DF=0x0124 IESS='UHN17CF201_M' ZD='Ovation' IDCS='UHN17CF201_M' DESC='F.spalin w kominie D_MOD
POINT RT=ANALOG SID=45633 DF=0x0124 IESS='UHN18CQ203' ZD='Ovation' IDCS='UHN18CQ203' DESC='NOX (6%) w spalinach - kom.C
POINT RT=ANALOG SID=45633 DF=0x0124 IESS='UHN18CT201' ZD='Ovation' IDCS='UHN18CT201' DESC='TEMPERATURA SPALIN KOMIN C'
POINT RT=ANALOG SID=45634 DF=0x0124 IESS='UHN19CQ203' ZD='Ovation' IDCS='UHN19CQ203' DESC='NOX (6%) w spalinach - kom.D
POINT RT=ANALOG SID=45635 DF=0x0124 IESS='UHN19CT201' ZD='Ovation' IDCS='UHN19CT201' DESC='TEMPERATURA SPALIN KOMIN D'
# END
```

/api/v1/points/sources

Returns a list of all point sources.

Note: point sources and object sources might be completely different, even though in many cases they have similar names.

GET

```
REQUEST
/api/v1/points/sources

RESPONSE
["zd1", "zd2"]
```

/api/v1/points/operate

Changes current points values.

POST

```
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",
        }
    }
}
```

license Errors

status status

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

POST

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

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

/api/v1/points/unpublish

Turns off automatic refresh of points values.

POST

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

```
SCHEMA
    "type": "array",
    "items": {
  "type": "object",
         "properties": {
            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, sourceld, modified, sg, tg, md5.

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

```
SCHEMA
   "type": "object",
   "properties": {
    "filters": {
        "type": "ar
                     "array",
         "items": {
  "type": "object",
            "properties":
               "id": {"type": "ar
"fileRe": {"type":
"nameRe": {"type":
                "sourceNameRe": {
                "sourceId": {"type
                "modified":
                   "type": "object'
                  "properties": {"
"required": ["fr
               },
"sg": {"type": "ar
               "tg": {"type": "ar
                                    6/26
```

```
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                                                                                                                                                            "order": {"type": "array
"page": {"type": "intege
"pagesize": {"type": "in
General Information
authorization
                                                                                                                                                            "fields": {
    "type": "array",
  authenticate
                                                                                                                                                             login
  logout
  ping
points
  points/query
  points/export
                                         RESPONSE
  points/sources
  points/operate
                                           "objects": [{
    "id": 1,
    "file": "file1.edf",
    "name1",
    "name1",
    """, "ses1"
  points/publish
                                                                            // (optional) id
                                                                            // (optional) file
  points/unpublish
                                                                                (optional) name
                                              "sourceName": "src1",
                                                                            // (optional) source name
objects
                                               "sourceId": 3,
                                                                            // (optional) source id
                                               "modified": 1603305959,
                                                                            // (optional) modification timestamp
  objects/query
                                              "sg": [0, 1],
"tg": [],
"md5": "abcd"
                                                                            // (optional) security groups
                                                                            // (optional) technological groups
  objects
                                                                            // (optional) md5 sum
  objects/sources/query
                                            "matchCount": 1,
"totalCount": 100000,
                                                                            // matched count
  objects/sources
                                                                            // total count
diagrams
  diagram/open
requests
  requests
                                     /api/v1/objects
trends
  trend
                                     POST - create object
  trend/tabular
                                     PUT - update object
  trend/groups
events
                                     DELETE - delete object
  events/read
                                       POST
  events
reports
                                         REQUEST
                                                                                                                               SCHEMA
  report/configs/query
  report/configs
```

PUT

```
SCHEMA

{
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "id": {"type": "inte
            "name": {"type": "st
            "sg": {"type": "arra
            "tg": {"type": "arra
            "tg": {"type": "b
        },
        "required": ["id"]
    }
}
```

report/custom

report/global

shades/points

shades/read shades/write shades/clear shades/copy

shades

users sg

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points
 points/auery
 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
```

```
REQUEST

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

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

/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
  "filters": [{
                                        // (optional) filters array joined by OR
    "id": [1, 2],
"nameRe": "^abc",
"descRe": "^abc",
                                        // (optional) id array
                                           (optional) name regular expression
                                        11
                                           (optional) description regular expression
                                        //
     "modified": 1603305950,
                                        // (optional) minimum modification timestamp
    "sg": [0, 1],
"tg": [0, 1],
"location": "DB",
"hostRe": "^abc",
                                        // (optional) security groups array
                                        // (optional) technological groups array
                                     // (optional) source location
                                       // (optional) host regular expression
    "prefixRe": "^abc",
"suffixRe": "^abc",
                                        // (optional) prefix regular expression
                                        // (optional) suffix regular expression
     "optionsSet": 0,
                                           (optional) xst1 bits set
     "optionsUnset": 0
                                        // (optional) xst1 bits unset
  "order": ["id", "name"],
"fields": ["name" ,"desc"],
                                      // (optional) order, see description for more details
                                      // (optional) list of fields returned in response
  "page": 2,
"pagesize": 50
                                          (optional) page number, default: 1
                                       // (optional) results per page, default: 100, max: 1000
```

```
SCHEMA
    "type": "object",
     "properties": {
        "filters": {
    "type": "array",
            "items": {
   "type": "object",
                "properties": {
  "id": {"type":
  "nameRe": {"typ
  "descRe": {"typ
                    "modified": {"
                    "sg": {"type": "tg": {"type":
                     "location": {"t
                    "hostRe": {"typ
"prefixRe": {"t
                     "suffixRe":
                     "optionsSet": {
                     "optionsUnset":
           }
       },
"order": {"type": "ar
"page": {"type": "int
"pagesize": {"type":
        "fields": {
    "type": "array",
    "items": {
        "type": "string",
        "enum": ["id", "n
       }
```

Errors

```
EDS API v1
General Information
                                                      "sources": [{
                                                         "id": 1,
"name": "iess1",
"desc": "desc1",
                                                                                         // (optional) id
authorization
                                                                                         // (optional) name
                                                                                         // (optional) description
  authenticate
                                                         "sg": [0, 1],
"tg": [],
"location": "DB",
"host": "",
"prefix": "",
                                                                                             (optional) security groups
                                                                                         // (optional) technological groups
// (optional) location "DISK", "FTP" or "DB"
  login
  logout
                                                                                         // (optional) host
                                                                                         // (optional) prefix
  ping
                                                          'suffix": ""
                                                                                             (optional) suffix
                                                         "options": 0
                                                                                         // (optional) options bits
points
                                                      "matchCount": 1,
                                                                                         // matched count
  points/query
                                                       "totalCount": 100000,
                                                                                         // total count
  points/export
  points/sources
  points/operate
  points/publish
  points/unpublish
                                             /api/v1/objects/sources
objects
  objects/query
                                             POST - create object sources
  objects
                                             PUT - update object sources
  objects/sources/query
  objects/sources
                                             DELETE - delete object sources
diagrams
                                                POST
  diagram/open
requests
                                                   REQUEST
                                                                                                                                                                         SCHEMA
  requests
                                                      "name": "mysource",
"desc": "",
                                                                                                                                                                            "type": "array",
trends
                                                                                    // name
                                                                                                                                                                           "items": {
  "type": "object",
                                                                                         (optional) description
  trend
                                                      "sg": [0, 1],
                                                                                    //
                                                                                         (optional) security groups array
                                                                                                                                                                               "type": "object",
"properties": {
    "name": {"type": "string"},
    "desc": {"type": "string"},
    "sg": {"type": "array", "items":
    "tg": {"type": "array", "items":
    "location": {"type": "string", "e
    "host": {"type": "string"},
    "prefix": {"type": "string"},
    "suffix": {"type": "string"}
}.
                                                      "tḡ": [̈],
                                                                                         (optional) technological groups array
  trend/tabular
                                                      "location": "DISK",
"host": "",
"prefix": "",
                                                                                         (optional) source location "DISK", "FTP" or "DB"
                                                                                     //
                                                                                         (optional) host
  trend/groups
                                                                                         (optional) IESS prefix
                                                       'suffix": ".a@NET1"
                                                                                    // (optional) IESS suffix
events
  events/read
  events
reports
                                                                                                                                                                                required": ["name"]
  report/configs/query
  report/configs
  report/custom
                                                PUT
  report/global
  report/global/run
                                                   REQUEST
                                                                                                                                                                                             SCHEMA
shades
                                                  [{
  "id": 123,
  ". "m
  shades/points
                                                                                                                                                                                                "type": "array",
"items": {
    "type": "object",
                                                                                      // id
                                                     "name": "myobject",
"desc": "",
                                                                                      // (optional) name
  shades/read
                                                                                           (optional) description
                                                                                                                                                                                                   "type": "object",
"properties": {
    "id": {"type": "int
    "name": {"type": "s
    "desc": {"type": "s
    "sg": {"type": "arr
    "tg": {"type": "arr
    "location": {"type"
                                                      "sg": [0, 1],
"tg": [],
  shades/write
                                                                                          (optional) security groups array
                                                                                          (optional) technological groups array (optional) source location "DISK", "FTP" or "DB" (optional) host
  shades/clear
                                                      "location": "DISK",
                                                      "host": ""
                                                                                      11
                                                       "prefix": ""
  shades/copy
                                                                                          (optional) IESS prefix
                                                       'suffix": ".a@NET1",
                                                                                           (optional) IESS suffix
users
                                                                                                                                                                                                      "location": {"type": "s
"host": {"type": "s
"prefix": {"type": "suffix": {"type": "force": {"type": "
                                                       "force": false
                                                                                      // (optional) force when removing own permission, default: false
                                                   }]
  sg
```

DELETE

```
REQUEST
                      SCHEMA
[{
"id": 1 // id
                        "type": "array",
```

tg user/sg user/profile

status status

Errors

license

users/query

"required": ["id"]

EDS API v1

```
ra : { cype : ɪnceger , mɪnɪmum : υ}
General Information
                                                                           },
"required": ["id"]
authorization
  authenticate
  login
  logout
  ping
                                      /api/v1/diagram/open
points
  points/query
                                      Starts diagram rendering session on Graphics Server (GfxSrv). Returns root URL in form http://GFX-HOST:GFX-
  points/export
                                      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.
  points/sources
                                        POST
  points/operate
  points/publish
  points/unpublish
                                           REQUEST
                                                                                                                                                            SCHEMA
objects
                                             "source": "src1",
"file": "diag1.edf"
                                                                                                                                                               "type": "object",
                                                                                                  // diagram source
  objects/query
                                                                                                                                                               "ryper.ics": {
  "source": {"type": "stri
  "file": {"type": "string
  "redrawInterval": {"type
                                                                                                  // diagram file
                                             "redrawInterval": 3, // (optional) redraw interval, default: 3
"http!rl": "http://mydomain.com:43090/", // (optional) GfxSrv address
"previousUrl": "http://mydomain.com:43090/", // (optional) re-use previous url
"pointGroup": "pts1" // (optional) point group
  objects
  objects/sources/query
                                                                                                                                                                  "httpUrl": {"type": "str
"previousUrl": {"type":
"pointGroup": {"type": "
  objects/sources
diagrams
                                                                                                                                                                "required": ["source", "fi
  diagram/open
requests
  requests
                                           RESPONSE
trends
  trend
                                              "url": "http://mydomain.com:43090//"
  trend/tabular
  trend/groups
events
  events/read
  events
                                      /api/v1/requests
reports
                                      Long running requests status.
  report/configs/query
                                      GET - get requests status
  report/configs
  report/custom
                                      DELETE - drop requests
  report/global
  report/global/run
                                        GET
shades
                                           REQUEST
  shades/points
  shades/read
                                           /api/v1/requests?ids=3214,2415,7896
  shades/write
  shades/clear
                                           RESPONSE
 shades/copy
users
                                             "3214": {
                                                "status": "EXECUTING", // status: "QUEUED", "EXECUTING", "SUCCESS" or "FAILURE"
                                                "progress": 78.12,
"message": ""
  sg
                                                                             // (optional) progress 0 - 100
// (optional) error message
  tg
  user/sg
                                              user/profile
  users/query
                                        DELETE
status
  status
                                           REQUEST
                                                                                SCHEMA
```

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

// request id

license Errors

```
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                                                                                      EDS API v1
      EDS API v1
                                                                          requirea : [ ia ]
  General Information
  authorization
    authenticate
    login
    logout
                                  /api/v1/trend
    ping
  points
                                  GET - Retrieves trend result
    points/query
                                  POST - Requests trend
    points/export
    points/sources
                                  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
    points/operate
                                  range, maximum, minimum, value at the end, hole marker). See also /api/v1/requests
    points/publish
                                   GET
    points/unpublish
  objects
                                      REQUEST
    objects/query
                                      /api/v1/trend?id=1234
    objects
    objects/sources/query
    objects/sources
                                      RESPONSE
  diagrams
                                      diagram/open
                                                    // list of samples
  requests
                                              1603305950,
                                                           // timestamp
   requests
                                              2.1,
"G",
                                                           // value
                                                           // quality
  trends
                                              0,
                                                              (optional) timestamp shift
                                              0,
                                                              (optional) sample origin (default: DataSource):
    trend
                                                                0 - DataSource
                                                                1 - Filter
    trend/tabular
                                                                2 - Function
                                                                3 - Processor
    trend/groups
                                                                4 - Test
  events
                                                                5 - Other
                                              1,
                                                              (optional) sample type (default: Regular):
    events/read
                                                                0 - Regular
                                                                1 - RegularZeroOrder
    events
                                                                2 - ShadeBegin
                                                                   - ShadeEnd
  reports
                                             [1603305951, 2.2, "G"],
    report/configs/query
                                            [1603305952, 2.3, "G"]
    report/configs
    report/custom
                                            [1603305950, 0.5, "G"]
    report/global
                                        ], "averages": [2.15, 0.5], // (optional) averages available with "LAST" chunk "status": "LAST" \,
    report/global/run
                                      }]
  shades
    shades/points
```

POST

SCHEMA

shades/read

shades/write shades/clear

shades/copy

users

sg

tg

status

Errors

status license

user/sg user/profile

users/query

```
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                                                                                         EDS API v1
      EDS API v1
                                       RESPONSE
  General Information
  authorization
                                         "id": 1234 // request id
    authenticate
    login
    logout
    ping
  points
                                   /api/v1/trend/tabular
    points/query
    points/export
                                   GET - Retrieves tabular trend result
    points/sources
    points/operate
                                   POST - Requests tabular trend
    points/publish
                                   See also /api/v1/requests.
    points/unpublish
                                     GET
  objects
    objects/query
                                       REQUEST
    objects
    objects/sources/query
                                       /api/v1/trend/tabular?id=1234
    objects/sources
  diagrams
                                       RESPONSE
    diagram/open
                                       requests
                                                      // list of samples
    requests
                                               1603305950, // timestamp
                                               2.1,
                                                             // value
  trends
                                               "G",
                                                             // quality
    trend
                                               0,
                                                             // (optional) timestamp shift
    trend/tabular
                                             [1603305951, 2.3, "G"],
[1603305952, 2.4, "G"]
    trend/groups
  events
                                             [1603305950, 0.5, "G"]
    events/read
                                          status": "LAST"
    events
                                       }]
  reports
    report/configs/query
                                     POST
    report/configs
    report/custom
                                       REQUEST
                                                                                                                         SCHEMA
    report/global
    report/global/run
                                         "period": {
    "from": 1603305950,
    "till": 1603305959
                                                                          // time range
  shades
    shades/points
    shades/read
```

```
},
"step": 60,
                                   // step [s]
"items": [{
   "pointId": {
                                   // point id
    "sid": 1,
"iess": "iess1"
                                   // (optional) point sid
                                   // (optional) point iess
   "shadePriority": "DEFAULT",
                                   // (optional) shade priority
  "function": "VALUE",
"params": [2.1]
                                   // (optional) function (default: VALUE)
                                   // (optional) function parameters
}]
```

```
"type": "object",
 "properties":
       "period":
            "type": "object",
"properties": {"from": {"type": "in
"required": ["from", "till"]
     },
"step": {"type": "integer", "minimum"
"items": {
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
                  "properties": {
    "pointId": {
        "type": "object",
        "properties": {
                                   "sid": {"type": "integer",
"iess": {"type": "string"}
                       },
"shadePriority": {"type": "stri
"function": {"type": "string",
    "AVG", "AVG_QUAL", "BETWEEN_T
"F_OVER_TIME", "F_UNDER_TIME"
"L_MAX_DT", "L_MIN_DT", "L_OV
"TOGGLE", "TOGGLE_OVER", "TOG
"params": {"type": "array", "it
                 },
"required": ["pointId"]
},
                                                                                                   12/26
```

shades/write

shades/clear

shades/copy

users

sg tg

status status license

Errors

user/sg user/profile

users/query

```
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                                                                                                EDS API v1
      EDS API v1
  General Information
                                          RESPONSE
  authorization
    authenticate
                                            "id": 1234 // request id
    login
    logout
    ping
  points
    points/query
                                     /api/v1/trend/groups
    points/export
                                     Retrieves a list of trend groups migrated to the specified configuration version. If configuration version is unspecified, it
    points/sources
                                     defaults to the current version.
    points/operate
                                     Parameters:
    points/publish
                                         • "ver" - configuration version
    points/unpublish
                                       GET
  objects
    objects/query
                                          REQUEST
    objects
    objects/sources/query
                                          /api/v1/trend/groups?ver=9.2.0.26
    objects/sources
  diagrams
                                          RESPONSE
    diagram/open
                                            "Unit1": {
  requests
                                               "ovation_trends": {
    requests
                                                   "test-123456": {
  trends
                                                        "[@config_block@]": {
    trend
                                                            "id": "2",
"version": "9.2.0.36"
    trend/tabular
    trend/groups
                                                        "chart": {
  events
                                                           ": {
"0": {
    events/read
                                                               "S25B-U1-L.PCC@SFWMD": {
                                                                 "bit": "0",
"colors": "FF0000 FFFF0000 FFFF00",
"id": "1",
    events
  reports
                                                                 "regular_to_shade": "default",
"yrang": "auto"
    report/configs/query
    report/configs
                                                            \}, "Configurations": {
    report/custom
    report/global
                                                                 "default": {
                                                                   "default":
                                                                     default": {
    "archive": "0",
    report/global/run
                                                                      "autoScaleMarginPercentage": "0",
"backgroundColor": "0",
  shades
                                                                     "description": "",
"futureColor": "FFFFFF00"
    shades/points
                                                                     "minimumVerticalGridLines": "4",
    shades/read
                                                                      "numberOfGridLines": "7
    shades/write
                                                                      "numberOfSubGridLines": "1"
                                                                      "nointXItemId":
    shades/clear
```

"subwindows": {

},
"thickLines": "0",

": {
 "endTime": "1637268223",
 "startTime": "1637181823",
 "range": "86400"

"timeRange": {

},
"type": "norm",
"icalGridTy

}

. \
"count": "0",
"layout": "quadrant",
"titles": {"": {"A": "", "B": "", "C": "", "D": ""}}

rype: norm;
"verticalGridType": "1",
"verticalGridUnit": "10",
"viewerConfig": "1 0 0 0 1 1 0 0 0 0 0 0",
"viewerEventsConfig": "FF FFFFF",
"viewerHaxisConfig": {"": {"0": "0 1 0", "1": "", "2": ""}}

shades/copy

users sg

tg

status

status

license Errors

user/sg

user/profile users/query 8/7/23, 7:36 AM

```
EDS API v1
    EDS API v1
                                                       TUCURECOIOR: FF
"thickLines": "0",
General Information
                                                       "timeRange": {
authorization
                                                            "endTime": "1637268223",
"startTime": "1637181823",
 authenticate
                                                            "range": "86400"
 login
 logout
                                                       },
"type": "norm"
                                        } } }
 ping
points
 points/auery
 points/export
 points/sources
 points/operate
 points/publish
 points/unpublish
objects
                                 /api/v1/events/read
 objects/query
                                 GET - Retrieves events read results.
 objects
 objects/sources/query
                                 Parameters:
 objects/sources
                                     • "id" - request id
diagrams
                                     • "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"
 diagram/open
requests
                                 POST - Requests event read.
 requests
                                 All returned Events will be ordered in reverse chronological order. See also /api/v1/requests.
trends
                                   GET
 trend
 trend/tabular
```

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

```
RESPONSE
  "events": [{
   // "EXTERNAL_ALARM_COS", "EXTERNAL_ALARM_SOS", "EXTERNAL_ALARM_SYSTEM", "EXTERNAL_ALARM_OEL", "EXTERNAL_ALARM_TEXT", "CUSTOM_MESSAGE",
    "priority": 5,
"message": "abcd",
                           // (optional) priority
                           // (optional) message
   "sid": 1234,
"iess": "iess1"
                              (optional) point sid
                           11
                              (optional) point iess
                           //
    "floatValue": 5.23,
                              (optional) float value
    "intValue": 32,
                              (optional) int value
   "st": 1,
"ts": 1603305950,
"tss": 0,
                              (optional) status bits
                              (optional) timestamp
                              (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": {
    "from": 1603305950,
    "till": 1603305959
                                               // (optional) time range
```

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

trend/groups

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

events events/read

events reports

shades

users

sq

tg user/sg user/profile

status

Errors

status license

shades/points

shades/read

shades/write

shades/clear

shades/copy

users/query

EDS API v1

requests requests

trends trend

events

reports

shades

sg tg user/sg user/profile

status

Errors

status

license

trend/tabular

trend/groups

events/read events

report/configs/query

report/configs

report/custom

report/global

shades/points shades/read shades/write shades/clear

shades/copy

users/query

report/global/run

```
(optional) technological groups array
                                                                                                                                                                           requirea : [ Trom
                                                "tg": [5, 6],
"zd": ["source1"],
"iessRe": "^abc",
General Information
                                                                                       (optional) technological groups array
                                                                                       (optional) source array
                                                                                                                                                                        "category": {"type":
authorization
                                                                                       (optional) iess regular expression
                                                                                                                                                                        "rt": {"type":
                                                                                                                                                                        "priority": {"type": "arra "sg": {"type": "arra
                                                                "^abc",
                                                 "messageRe":
                                                                                       (optional) message regular expression
  authenticate
                                                 "pointId": [{
                                                                                       (optional) point id array
                                                                                                                                                                       "tg": { "type": "arra
"zd": { "type": "arra
"iessRe": { "type": "
"messageRe": { "type"
                                                   "sid": 1,
"iess": "iess1"
                                                                                       (optional) point sid
  login
                                                                                       (optional) point iess
  logout
                                                }]
                                                                                                                                                                        "message...
"pointId": {
    "tvpe": "array",
  ping
                                              "maxCount": 50
                                                                                   // (optional) maximum number of results, default: 100
                                                                                                                                                                          "type": "
points
                                                                                                                                                                             "type": "object"
  points/query
                                                                                                                                                                             "properties": {
                                                                                                                                                                               "sid": {"type"
"iess": {"type
  points/export
  points/sources
  points/operate
  points/publish
  points/unpublish
                                                                                                                                                                   "maxCount": {"type": "in
objects
                                                                                                                                                                 required": ["filter"]
  objects/query
  objects
                                           RESPONSE
  objects/sources/query
  objects/sources
                                              "requestId": 1234 // request id
diagrams
  diagram/open
```

/api/v1/events

Creates events of type CUSTOM MESSAGE.

POST

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

/api/v1/report/configs/query

Query report configurations.

```
SCHEMA
{
    "type": "object",
```

```
EDS API v1
                                                                                         (obciousi) usme Leanis. exblession
                                                                                                                                                                  rtems : {
  "type": "object",
                                                  'sourceNameRe": "^abc",
General Information
                                                                                         (optional) source name regular expression
                                                  "sourceId": [1],
"modified": {
                                                                                         (optional) source ids array
                                                                                                                                                                   "properties":
authorization
                                                                                                                                                                      "objectFilter":
                                                                                      // (optional) time modification range
                                                   "from": 1603305950,
"till": 1603305959
                                                                                                                                                                       "id": {"type": "
"fileRe": {"type
"nameRe": {"type
  authenticate
                                                 },
"sg": [0, 1],
"tg": [0, 1],
"md5": "abcdefg"
  login
                                                                                      // (optional) security groups array
                                                                                                                                                                       "sourceNameRe":
  logout
                                                                                         (optional) technological groups array
                                                                                                                                                                        "sourceId": {"ty
                                                                                                                                                                        "modified":
                                                                                      // (optional) md5 hash
                                                                                                                                                                           "type": "objec
  ping
                                                'outputType": "FILE_RDF"
                                                                                      // (optional) output type
                                                                                                                                                                          "properties":
points
                                               "executionCondition": "CYCLIC" // (optional) execution condition
                                                                                                                                                                          "required": [
  points/query
                                                                                                                                                                       "sg": {"type": '
"tg": {"type": '
"md5": {"type":
                                             "page": 2,
"pagesize": 50
                                                                              // (optional) page number, default: 1
  points/export
                                                                              // (optional) results per page, default: 100, max: 1000
  points/sources
                                                                                                                                                                      "outputType":
  points/operate
                                                                                                                                                                       "type": "string"
  points/publish
                                                                                                                                                                       "enum": ["FILE_T.
"DATABA
  points/unpublish
                                                                                                                                                                      "executionConditio
objects
  objects/query
                                                                                                                                                              "page": {"type": "intege
"pagesize": {"type": "in
  objects
  objects/sources/query
  objects/sources
diagrams
                                          RESPONSE
  diagram/open
requests
                                            "results": [{
                                                                                           // id
                                               "id": 1,
  requests
                                               "reportDefinitionSource": "src1",
                                                                                           // source
                                               "reportDefinitionFile": "r1.edf",
"referenceTimeShift": "",
                                                                                           // file
trends
                                                                                           // reference time shift
                                               "runDelay": 60,
                                                                                           // run delay [s]
  trend
                                                                                          // cron mask
```

```
requests

trends

trend

trend/tabular

trend/groups

events

events/read

events

reports

report/configs/query

report/custom

report/global

report/global/run
```

```
"timeMaskExpression": "0 * * * *",
"eventsExpression": "",
                                                   // events expression
   "inputValues": "'
                                                   // input values
   "outputMaskFileTxt":
                                                   // (optional) output mast file txt
  "outputMaskFileEdf": "",
"outputMaskFileEdf": "",
"outputMaskFileEdf": "",
                                                   // (optional) output mast file rdf
                                                   // (optional) output mast file edf
  "outputMaskFileEdf": "",
"outputMaskFileHtml": "",
                                                   // (optional) output mast file html
  "outputMaskFilePdf": "",
"outputMaskFileCsv": "",
                                                   // (optional) output mast file pdf
                                                   // (optional) output mast file csv
   "outputMaskDatabaseRdf": ""
"outputMaskDatabaseEdf": ""
                                                   // (optional) output mast database rdf
// (optional) output mast database edf
   'outputMaskDatabaseHtml": ""
                                                   // (optional) output mast database html
}],
"matchCount": 1,
                                // matched count
"totalCount": 100000,
                                // total count
```

shades

sg

tg user/sg

status

Errors

status

license

user/profile

users/query

shades/points /api/v1/report/configs
shades/read
shades/write POST - create report configs
shades/clear PUT - update report configs
shades/copy
users DELETE - delete report configs

```
SCHEMA

{
   "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"},
}
```

EDS API v1

```
outputMaskFileRuT : { type : String },
"outputMaskFileEdf": {"type": "string"},
"outputMaskFileHtml": {"type": "string"},
"outputMaskFilePdf": {"type": "string"},
"outputMaskFileCsv": {"type": "string"},
"outputMaskFileCsv": {"type": "string"},
                                                               ои сристаѕкра сараѕесит
                                                              "outputMaskDatabaseHtml": ""
General Information
authorization
                                                       }]
  authenticate
                                                                                                                                                       "OutputMaskDatabaseRdf": {"type": "string"},
"outputMaskDatabaseEdf": {"type": "string"},
"outputMaskDatabaseHtml": {"type": "string"}
  login
  logout
  ping
                                                                                                                                               'required": ["sourceId", "rdfFileName", "config"]
points
  points/query
  points/export
  points/sources
                                                    PUT
  points/operate
  points/publish
                                                       REQUEST
                                                                                                                              SCHEMA
  points/unpublish
                                                       [{
"id": 123, // config id
                                                                                                                                 "type": "array",
"items": {
    "type": "object",
objects
                                                           "config": {
  objects/query
                                                              "referenceTimeShift": "",
                                                              "runDelay": 60,
                                                                                                                                     "properties":
  objects
                                                                                                                                        "id": {"type": "integer", "minimum": 0},
"config": {
    "type": "object",
                                                                                                 "0 * * * * ",
                                                              "timeMaskExpression":
                                                              "eventsExpression":
"inputValues": "",
  objects/sources/query
  objects/sources
                                                              "outputMaskFileTxt":
                                                                                                                                           "properties":
                                                                                                                                             properties": {
"referenceTimeShift": {"type": "string"},
"runDelay": {"type": "integer", "minimum": 0},
"timeMaskExpression": {"type": "string"},
"eventsExpression": {"type": "string"},
"inputValues": {"type": "string"},
"outputMaskFileTxt": {"type": "string"},
"outputMaskFileTxt": {"type": "string"},
"outputMaskFileTxt": {"type": "string"},
                                                              "outputMaskFileRdf": ""
                                                              "outputMaskFileEdf": ""
diagrams
                                                              "outputMaskFileHtml": ""
  diagram/open
                                                              "outputMaskFilePdf":
"outputMaskFileCsv":
requests
                                                              "outputMaskDatabaseRdf": ""
                                                              "outputMaskDatabaseEdf": ""
                                                                                                                                              "outputMaskFileRdf": {"type": "string"},
  requests
                                                              "outputMaskDatabaseHtml": ""
                                                                                                                                              "outputMaskFileEdf": {"type": "string"},
                                                                                                                                             "outputMaskFileHtml": {"type": "string"},
"outputMaskFileHtml": {"type": "string"},
"outputMaskFileCsv": {"type": "string"},
"outputMaskDatabaseRdf": {"type": "string"},
"outputMaskDatabaseEdff": {"type": "string"},
"outputMaskDatabaseEdff": {"type": "string"},
trends
                                                       }]
  trend
  trend/tabular
                                                                                                                                              "outputMaskDatabaseHtml": {"type": "string"}
  trend/groups
events
                                                                                                                                     'required": ["id", "config"]
  events/read
  events
reports
                                                    DELETE
  report/configs/query
  report/configs
                                                       REQUEST
                                                                                                     SCHEMA
  report/custom
  report/global
                                                       [{
  "id": 1 // config id
                                                                                                         "type": "array",
  report/global/run
                                                                                                         "items": {
  "type": "object",
shades
                                                                                                             "properties": {
                                                                                                                "id": {"type": "integer", "minimum": 0}
  shades/points
  shades/read
                                                                                                             required": ["id"]
  shades/write
  shades/clear
  shades/copy
users
  sg
                                                 /api/v1/report/custom
  tg
  user/sg
                                                 GET - Retrieves custom report result
  user/profile
                                                 POST - Requests custom report
  users/query
status
                                                 See also /api/v1/requests.
  status
                                                    GET
  license
Errors
                                                       REQUEST
```

EDS API v1

```
General Information
                                          ["abc", "aaa"],
["1.123", "2.3"]
authorization
 authenticate
 login
 logout
                                     POST
 ping
                                        REQUEST
points
 points/query
                                          "rdf": {
                                                                              // report definition
 points/export
                                             "localTime": true,
                                                                                  (optional) local or UTC time, default: false
                                             "showDstTransition": true,
 points/sources
                                                                                  (optional) show DST transition, default: false
                                             "showQuality": true,
                                                                                  (optional) show value qualities, default: true
                                                                                 (optional) default precision, default: 6 (optional) time mode, default: "RELATIVE"
 points/operate
                                             "precision": 2,
"timeMode": "RELATIVE",
 points/publish
                                             "addressingType": "A1",
"shadePriority": "DEFAULT",
                                                                                  (optional) addressing type, default: "A1"
                                                                              // (optional) shade priority, default: "DEFAULT"
 points/unpublish
                                             "rows": [
objects
                                                 "abc"
                                                                              // cells as text
 objects/query
                                                                              // cells as objects
 objects
                                                 "content": "aaa"
                                                                              // content
                                                 "showQuality": true,
                                                                              // (optional) show quality
 objects/sources/query
                                                 "precision": 3
                                                                              // (optional) precision
 objects/sources
diagrams
                                           "dtRef": 1603305950,
                                                                              // DT_REF reference time
 diagram/open
                                           "args": {
                                                                              // additional arguments
                                             "myarg":
                                                                              // name
requests
                                               "boolean": true,
"number": 5,
                                                                                 (optional) boolean value
(optional) number value
 requests
                                               "packed": 1,
                                                                                  (optional) packed value
                                                'string": "x<sup>'</sup>"
                                                                                  (optional) boolean value
trends
                                               "timestamp": 1603305950,
                                                                                  (optional) timestamp value
                                               "point": "pt1",
"quality": "GOOD"
                                                                                  (optional) point name value
 trend
                                                                              // (optional) value quality, default: GOOD
 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
                                        RESPONSE
users
 sg
                                          "id": 1234 // request id
 tg
 user/sg
 user/profile
 users/query
status
                                   /api/v1/report/global
 status
```

```
SCHEMA
  "type": "object",
  "properties": {
     "rdf": {
    "type": "object",
        "properties": {
   "localTime": {"type": "
           "showDstTransition":
           "showQuality": {"type":
"precision": {"type": "
"timeMode": {"type": "s
           "addressingType": {"typ
           "shadePriority": {"type
           "rows":
             "type : ...
"items": {
    "array",
              "type"
                 "type":
"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":
                           {"type": "n
{"type": "i
              "number":
              "packed":
             "string": {"type": "s
"timestamp": {"type": "s
"point": {"type": "st
"quality": {"type": "st
     }
  },
"required": ["rdf", "dtRef"]
```

Creates global report.
See also /api/v1/requests.

POST

license

Errors

```
EDS API v1
General Information
                                                "sourceId": 123,
                                                                                         // source id
                                                                                                                                                                   "type": "object",
                                                "file": "myfile.edf",
"name": "myobject",
"rdf": {
                                                                                         // filename
                                                                                                                                                                    "properties"
authorization
                                                                                                                                                                      "sourceId": {"type": "integ
"file": {"type": "string"},
"name": {"type": "string"},
                                                                                         // (optional) name
                                                                                         // report definition
  authenticate
                                                   "localTime": true,
                                                                                         // (optional) local or UTC time, default: false
                                                   "showDstTransition": true,
                                                                                            (optional) show DST transition, default: false
  login
                                                                                                                                                                         "type": "object",
                                                   "showQuality": true,
                                                                                            (optional) show value qualities, default: true
  logout
                                                  "precision": 2,
"timeMode": "RELATIVE",
"addressingType": "A1",
"shadePriority": "DEFAULT",
                                                                                            (optional) default precision, default: 6 (optional) time mode, default: "RELATIVE"
                                                                                                                                                                        "properties": {
    "localTime": {"type":
  ping
                                                                                        // (optional) addressing type, default: "A1" // (optional) shade priority, default: "DEFAULT"
                                                                                                                                                                            "showDstTransition": {"
                                                                                                                                                                           "showQuality": {"type":
"precision": {"type":
"timeMode": {"type": "s
points
                                                   "rows": [
  points/auery
                                                       "abc"
                                                                                                                                                                           "addressingType": {"typ
"shadePriority": {"type
                                                                                         // cells as text
  points/export
                                                    content": "aaa"
                                                                                         // cells as objects
                                                                                                                                                                            "rows":
  points/sources
                                                                                                                                                                               'type":
                                                                                                                                                                                        "array",
                                                                                         // content
                                                                                                                                                                              "items": {
                                                                                            (optional) show quality
                                                        "showQuality": true,
  points/operate
                                                                                                                                                                                "type": "
                                                        "precision": 3
                                                                                         // (optional) precision
  points/publish
                                                                                                                                                                                   "anyOf": [
  points/unpublish
                                                "sg": [0, 1],
"tg": []
                                                                                                                                                                                        "type": "stri
                                                                                          // (optional) security groups array
objects
                                                                                          // (optional) technological groups array
  objects/query
                                                                                                                                                                                         "type": "obje
  objects
                                                                                                                                                                                        "properties":
                                                                                                                                                                                           "content"
  objects/sources/query
                                                                                                                                                                                           "showQualit
                                                                                                                                                                                           "precision"
  objects/sources
                                                                                                                                                                                         "required": [
diagrams
                                                                                                                                                                                  ]
  diagram/open
                                                                                                                                                                             }
requests
  requests
                                                                                                                                                                         required": ["rows"]
trends
                                                                                                                                                                       'sg": {"type": "array",
  trend
                                                                                                                                                                       "tg": {"type": "array",
                                                                                                                                                                                                     "it
  trend/tabular
                                                                                                                                                                    required": ["sourceId", "fil
  trend/groups
events
                                             RESPONSE
  events/read
  events
                                                "id": 1234 // request id
reports
  report/configs/query
  report/configs
  report/custom
  report/global
                                        /api/v1/report/global/run
  report/global/run
shades
                                        Executes global report.
                                        See also /api/v1/requests.
  shades/points
  shades/read
                                          POST
  shades/write
  shades/clear
                                             REQUEST
                                                                                                                                                      SCHEMA
  shades/copy
                                                "configId": 123,
"dtRef": 1603305950,
                                                                                       // report config id
                                                                                                                                                         "type": "object",
users
                                                                                                                                                         "type: object,

"properties": {
    "configId": {"type": "integer", "mi
    "dtRef": {"type": "integer"},
    "args": {
        "type": "object",
    ""-ddffices]Properties": {
                                                                                       // DT REF reference time
                                                "args": {
                                                                                       // additional arguments
  sg
                                                   'myarg":
                                                                                           name
  tg
```

```
"boolean": true,
"number": 5,
                                       (optional) boolean value
                                       (optional) number value
     "packed": 1,
"string": "x"
                                       (optional) packed value
                                       (optional) boolean value
     "timestamp": 1603305950,
                                       (optional) timestamp value
     "point": "pt1",
"quality": "GOOD"
                                       (optional) point name value
                                       (optional) value quality, default: GOOD
}
```

user/sg

status

status license Errors

user/profile

users/query

"additionalProperties": {
 "type": "object",

"boolean": {"type": "boolean"

"number": {"type": "number"},
"packed": {"type": "integer"}
"string": {"type": "string"},
"timestamp": {"type": "intege
"point": {"type": "string"},
"quality": {"type": "string",

"properties":

} },

```
8/7/23, 7:36 AM
                                                                                                 EDS API v1
       EDS API v1
                                          RESPONSE
  General Information
  authorization
                                             "id": 1234 // request id
    authenticate
    login
    logout
    ping
  points
                                      /api/v1/shades/points
    points/query
    points/export
                                      Query points with existing shade values.
    points/sources
                                      reverses the order.
    points/operate
    points/publish
                                        POST
    points/unpublish
                                          REQUEST
  objects
    objects/query
                                            "filters": [{
   "sid": [1, 2],
   "pointType": "ANALOG",
   "iessRe": "^abc"
                                                                           // (optional) filters array joined by OR
    objects
                                                                           // (optional) point sid array
// (optional) point type
    objects/sources/query
                                                                           // (optional) point name regular expression
    objects/sources
                                             "order": ["iess"],
                                                                              (optional) order, see description for more details
                                             "page": 2,
"pagesize": 50
  diagrams
                                                                          // (optional) page number, default: 1
// (optional) results per page, default: 100, max: 1000
    diagram/open
  requests
    requests
  trends
    trend
    trend/tabular
    trend/groups
  events
                                          RESPONSE
    events/read
                                            "results": [{
    events
                                               "sid": 1,
"iess": "iess1"
                                                                   // (optional) id
  reports
                                                                    // (optional) name
                                               "type": "ANALOG"
                                                                   // (optional) description
    report/configs/query
                                             "matchCount": 1
                                                                    // match count
    report/configs
    report/custom
    report/global
    report/global/run
  shades
                                      /api/v1/shades/read
    shades/points
    shades/read
                                      Read points shades for a specific time periods. See also /api/v1/requests.
    shades/write
                                        GET
    shades/clear
    shades/copy
```

```
/api/v1/shades/read?id=1234
RESPONSE
[{
    "items": [
              // list of items results
              // list of samples
        1603305950,
                      // start timestamn
                      // end timestamp
        1603305960,
        2.1,
                      // value
        "G",
                      // quality
       1603305971, 1603305972, 2.2, "G"],
      [1603305981, 1603305982, 2.3, "G"]
```

REQUEST

users

sg

tg

user/sg

user/profile

users/query

status

status license

```
Errors
```

The "order" parameter should be a list of fields names, for example: ["sid", "-iess"]. Adding "-" before a field name

```
SCHEMA
   "type": "object",
    "properties": {
        "filters": {
           "type": "array",
"items": {
    "type": "object",
                "properties": {
    "sid": {"type": "arr
                  "pointType": {"type"
"iessRe": {"type": "
           }
        "order": {"type": "array",
"page": {"type": "integer"
"pagesize": {"type": "inte
```

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

```
Status : LAST
}]
```

POST

```
SCHEMA

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

```
RESPONSE

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

/api/v1/shades/write

Overwrite points shades for a specific time periods. See also /api/v1/requests.

POST

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

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

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

POST

```
SCHEMA

{
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "sid": {"type": "integer", "minimum": 0},
            "iess": {"type": "string"}
        },
        "period": {
            "type": "object",
            "period": {"type": "integer"}, "till": {"type": "object",
            "properties": {"from": {"type": "integer"}, "till": {"type": "equired": ["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 lapi/v1/requests.

```
SCHEMA

{
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "sid": {"type": "integer", "minimum": 0},
            "iess": {"type": "string"}
        },
        "dstPointId": {
            "type": "object",
            "properties": {
                 "sid": {"type": "integer", "minimum": 0},
            "iess": {"type": "string"}
        },
        "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
                                   /api/v1/sg
authorization
  authenticate
                                   Returns a list of all technological groups (tg).
  login
                                    GET
  logout
  ping
                                       REQUEST
points
                                       /api/v1/sg
  points/query
  points/export
                                       RESPONSE
  points/sources
  points/operate
                                     [{
    "id": 0,
    "name": "admin",
    "desc": ""
  points/publish
  points/unpublish
objects
  objects/query
  objects
  objects/sources/query
  objects/sources
                                  /api/v1/tg
diagrams
                                   Returns a list of all technological groups (tg).
  diagram/open
                                    GET
requests
  requests
                                       REQUEST
trends
                                       /api/v1/tg
  trend
  trend/tabular
                                       RESPONSE
  trend/groups
events
                                      [{
"id": 0,
  events/read
                                         "name": "admin",
"desc": ""
  events
                                       }]
reports
  report/configs/query
  report/configs
  report/custom
                                   /api/v1/user/sg
  report/global
 report/global/run
                                   Returns a list of all technological groups (tg).
shades
                                    GET
  shades/points
  shades/read
                                       REQUEST
  shades/write
                                       /api/v1/user/sg
  shades/clear
  shades/copy
                                       RESPONSE
users
                                       [{
"id":_0,
  sg
  tg
                                         "name": "admin",
"desc": ""
  user/sg
                                       }]
  user/profile
  users/query
```

/api/v1/user/profile

Returns user effective profile. Effective profile is composition of all profiles with user security groups access.

GET

status status

license Errors

```
8/7/23, 7:36 AM
                                                                                           EDS API v1
      EDS API v1
                                        /api/v1/user/profile
  General Information
  authorization
                                        RESPONSE
    authenticate
    login
                                        <?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
                                        <!DOCTYPE boost_serialization>
    logout
                                        <boost_serialization signature="serialization::archive" version="19">
                                        ping
  points
                                                 <mEditable>1</mEditable>
                                                 <mCanHaveExtraSubNodes>1</mCanHaveExtraSubNodes>
<mSubNodes class_id="1" tracking_level="0" version="0">
    points/query
                                                          <count>0</count>
    points/export
                                                         <item_version>0</item_version>
                                                 </mSubNodes>
    points/sources
                                        </Root>
    points/operate
                                        </boost_serialization>
    points/publish
    points/unpublish
  objects
    objects/query
                                    /api/v1/users/query
    objects
    objects/sources/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
    objects/sources
                                    reverses the order.
  diagrams
                                      POST
    diagram/open
  requests
                                        REQUEST
    requests
                                          "filters": [{
                                                                        // (optional) filters array joined by OR
  trends
                                            "id": [1, 2],
"nameRe": "^abc"
                                                                         // (optional) id array
                                                                         // (optional) name regular expression
    trend
    trend/tabular
                                          "order": ["name"],
"fields": ["id", "name"],
"page": 2,
                                                                        // (optional) order, see description for more details // (optional) list of fields returned in response \,
    trend/groups
                                                                         // (optional) page number, default: 1
                                           "pagesize": 50
                                                                         // (optional) results per page, default: 100, max: 1000
  events
    events/read
    events
  reports
    report/configs/query
    report/configs
    report/custom
    report/global
    report/global/run
  shades
    shades/points
                                        RESPONSE
    shades/read
```

```
SCHEMA
    "type": "object",
     "properties": {
        "filters": {
            "type": "array",
"items": {
    "type": "object",
                "properties": {
    "id": {"type": "ar
    "nameRe": {"type":
           }
       },
"order": {"type": "array
"page": {"type": "intege
"" ("type": "in
         "pagesize": {"type": "in
        "fields":
           "type": "array",
"items": {
    "type": "string",
    "enum": ["id", "name
```

```
"results": [{
 // (optional) id
                             // (optional) name
                                (optional) description
                             // (optional) is locked
// (optional) creation timestamp
                             // (optional) modification timestamp
  "sg": [0, 1]
                             // (optional) security groups
"matchCount": 1,
"totalCount": 100,
                             // match count
                             // total count
```

/api/v1/status

Returns information about current server status

shades/write

shades/clear

shades/copy

users

sg

tg

status status license

Errors

user/sg

user/profile users/query

```
EDS API v1
                                                 REQUEST
General Information
authorization
                                                 /api/v1/status
  authenticate
                                                RESPONSE
  login
  logout
  ping
                                                   "time": 1641550268,
                                                                                                                             // server time
                                                  "time": 164156268,

"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",
                                                                                                                             // server timezone offset [s]
points
                                                                                                                             // online server connection
  points/query
                                                                                                                                object server connection
                                                                                                                             // archive server connection
  points/export
                                                                                                                                report server connection
  points/sources
                                                    "objects_count": 4,
                                                                                                                             // objects count
                                                    "objects_pending_count": 0,
                                                                                                                                pending objects count
  points/operate
                                                   "http_connections": 0,
"https_connections": 0,
"soap_http_connections": 0,
"soap_https_connections": 0,
                                                                                                                             // API HTTP connection count
// API HTTPS connection count
  points/publish
                                                                                                                             // SOAP HTTP connection count
  points/unpublish
                                                                                                                             // SOAP HTTPS connection count
                                                    "live_data_connections": 0,
                                                                                                                             // live data connection count
                                                    "session_count": 1,
"request_count": 0,
objects
                                                                                                                             // session count
                                                                                                                             // request count
  objects/query
                                                    "request_running_count": 0
                                                                                                                             // running request count
  objects
  objects/sources/query
  objects/sources
diagrams
  diagram/open
                                           /api/v1/license
requests
                                           Returns EDS server license information
  requests
                                             GET
trends
  trend
                                                REQUEST
  trend/tabular
                                                /api/v1/license
  trend/groups
events
                                                RESPONSE
  events/read
  events
                                                   "AllowedNetworkAddresses": "0.0.0.0/0",
"ClientType:DBA": "0.0.0.0/0",
"ClientType:TERM": "0.0.0.0/0",
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

Errors

"ClientType:TERM": "0.0.0.0/
"Clustering": "Yes",
"DatabaseName": "eds",
"ExpiryDate": "unlimited",
"ImportAlarms": "Yes",
"LicenseType": "Commercial",
"LocalAlarms": "Yes",

"MSExcelPluginEnabled": "Yes",

"MaxArchivedPoints": "200000"

"MaxZDs": "20", "MaxZIPs": "50000"

"OneWayScanners": "Yes'

"MaxArchivedPoints": "200000",
"MaxClients": "128",
"MaxControlDiagrams": "50000",
"MaxDiagramSources": "10",
"MaxPoints": "200000",
"MaxProcessDiagrams": "50000",
"MaxReports": "5000",
"MaxWEBApiSessions": "unlimited",

"MultiServerConnectivity": "Yes" "NotificationServiceEnabled": "No"

"OnlineCalculationsEnabled": "Yes",
"Product": "EnterpriseServer",
"ReportsEnabled": "Yes",
"TabularTrendsEnabled": "Yes",

"MobileLicenseExpiryDate": "19/07/2022", "MobileLicenseMultiServer": "No",

"Vendor": "Transition Technologies S.A.", "WEBApiSupportsGraphics": "Yes",

"WinNTOwner": "xxx",
"WinNTSerialNbr": "xxxx-xxxxx-xxxxx-xxxxx"

31 - Point not found

32 - Invalid point type33 - Invalid point value

34 - No point alter permission

35 - Cannot operate point36 - No operate permission

37 - Operate point error400 - Bad request

• 500 - Internal server error

• 401 - Unauthorized

403 - Access denied404 - Not found

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
```

```
Response body will contain JSON with following structure:
 Error body
                                  // error code
    "message":
               "License invalid"
                                  // error message
   • 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 timout
   • 9 - User not in 'webapi' nor 'admin' group
   • 10 - Cannot remove own permission
   • 11 - Invalid request ID
   • 30 - Points' data not synchronized yet.
```

Errors