Seluxit REST-ful open API for Lemonbeat devices

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How do **you** connect Things to the Internet?

seluxit

Methods

METHOD	OBJECT	LIST
GET	Retrieve the selected Object	List all Objects of one Type under a selected Object
POST	Not supported	Create / Add new Object
PUT	Modify the selected Object	Not supported
DELETE	Delete the selected Object	Delete all the element of the List
PATCH	Partially modify the selected Object	Not supported

Retrieve an Object

GET <server>:<port>/services/<service type>/<id type>

```json
{
  ":type": "urn:seluxit:xml:bastard:network-1.0",
  ":id": "a0568433-9e62-4fe7-b469-c3d376bbba06",
  "device": [
    {
      ":type": "urn:seluxit:xml:bastard:device-1.0",
      ":id": "dfd84188-7426-11e6-b527-001a65002cf0",
      "name": "Binary Actor",
      "manufacturer": "Seluxit",
      "product": "1-DEVICE",
      "version": "1-1.1.3-2996-MODIFIED-1.1.3-3076-1.0.0",
      "serial": "000000000000000000000000",
      "protocol": "Lemonbeat",
      "communication": "Always Online",
      "included": "1",
      "status": [],
      "service": [],
      "configuration": []
    }
  ]
}
```

Retrieve a List

GET <server>:<port>/services/<service type>/<id type>/<child type>

GET localhost:9292/services/network/a0568433-9e62-4fe7-b469-c3d376bbba06/device

```json
{
    ":type": "urn:seluxit:xml:bastard:idlist-1.0",
    ":id": "a0568433-9e62-4fe7-b469-c3d376bbba06",
    "id": [
        "dfd84188-7426-11e6-b527-001a65002cf0",
        "646fa2c9-e29e-46e6-a22d-fb4bb3f298e5",
        "0f780558-2436-4ef1-a0f7-3107b1d15143",
        "b27d4385-55a1-4e62-9f2f-0dc748721853"
    ],
    "@type": "urn:seluxit:xml:bastard:device-1.0"
}
```

Network

```
{
  ":type": "urn:seluxit:xml:bastard:network-1.0",
  ":id": "a0568433-9e62-4fe7-b469-c3d376bbba06",
  "device": [
    {
      ":type": "urn:seluxit:xml:bastard:device-1.0",
      ":id": "dfd84188-7426-11e6-b527-001a65002cf0",
      "name": "Binary Actor",
      "manufacturer": "Seluxit",
      "product": "1-DEVICE",
      "version": "1-1.1.3-2996-MODIFIED-1.1.3-3076-1.0.0",
      "serial": "000000000000000000000000",
      "protocol": "Lemonbeat",
      "communication": "Always Online",
      "included": "1",
      "status": [],
      "service": [],
      "configuration": []
    }
  ]
}
```

It manages the devices connected with a Gateway

If deleted, it resets the correlated Gateway

Device

```
{
  ":type": "urn:seluxit:xml:bastard:device-1.0",
  ":id": "dfd84188-7426-11e6-b527-001a65002cf0",
  "name": "Binary Actor",
  "manufacturer": "Seluxit",
  "product": "1-DEVICE",
  "version": "1-1.1.3-2996-MODIFIED-1.1.3-3076-1.0.0",
  "serial": "00000000000000000000000000",
  "protocol": "Lemonbeat",
  "communication": "Always Online",
  "included": "1",
  "status": [
    {
      ":type": "urn:seluxit:xml:bastard:status-1.0",
      ":id": "1343cdf8-7427-11e6-b527-001a65002cf0",
      "level": "info",
      "type": "gateway",
      "message": "STATUS_DEVICE_ALIVE",
      "timestamp": "2016-09-06T11:43:05.714223Z"
    },
    { },
    { },
  ],
  "service": [],
  "configuration": []
}
```

It is automatically detected by the Gateway

To add it to our Network, we need to use a PUT command with "included" equal to 1

The statuses show us the conditions of our Device

Service

```
{
  ":type": "urn:seluxit:xml:bastard:service-1.0",
  ":id": "9e6e67d2-523a-412e-b5c3-a666476153a6",
  "name": "RL 1",
  "permission": "rw",
  "type": "On/Off",
  "virtual": "false",
  "number": {
    "min": "0.000000",
    "max": "1.000000",
    "step": "1.000000",
    "unit": "no unit"
  },
  "status": "ok",
  "value": [
    {
      ":type": "urn:seluxit:xml:bastard:value-1.0",
      ":id": "091f9d23-ba71-4d6f-941b-0442a9c4f1d8",
      "type": "Control",
      "timestamp": "2016-09-06T11:43:00.0Z",
      "data": "0.000000"
    },
    {
      ":type": "urn:seluxit:xml:bastard:value-1.0",
      ":id": "7da74139-7b73-4b5a-9b1b-caaf58816c4a",
      "type": "Report",
      "timestamp": "2016-09-06T11:43:00.0Z",
      "data": "0.000000",
    }
  ]
}
```

Any device owns multiple services that manages Temperature, Humidity, Lights or other utility connected with the Device

Value

```
{
  ":type": "urn:seluxit:xml:bastard:value-1.0",
  ":id": "091f9d23-ba71-4d6f-941b-0442a9c4f1d8",
  "type": "Control",
  "timestamp": "2016-09-06T11:43:00.0Z",
  "data": "0.000000"
}

{
  ":type": "urn:seluxit:xml:bastard:value-1.0",
  ":id": "7da74139-7b73-4b5a-9b1b-caaf58816c4a",
  "type": "Report",
  "timestamp": "2016-09-06T11:43:00.0Z",
  "data": "0.000000",
  "log": {
    ":type": "urn:seluxit:xml:bastard:log-1.0",
    ":id": "ef4ace4c-14c6-46a1-82c8-07830576b9a9",
    "type": "Hour",
    "timestamp": "2016-02-25T15:04:26.295690Z"
  }
}
```

Any Service has two Values.

Control Value: manage the value of our Service

Report Value: show the actual condition of our Service

Report Value can own a Log to retrieve historical Values

Configuration

```json
{
  ":type": "urn:seluxit:xml:bastard:configuration-1.0",
  ":id": "1e249428-45ce-4f01-95eb-076b4c999935",
  "status": "idle",
  "limits": {
    "partner": "10",
    "action": "100",
    "calendar": "10",
    "calculation": "125",
    "timer": "10",
    "statemachine": "15",
    "transactions": "75"
  },
  "partner": [],
  "action": [
    { }
    {
      ":type": "urn:seluxit:xml:bastard:action-1.0",
      ":id": "d24585fc-1eac-44a2-baf3-d0dc64aa2e5f",
      "set": {
        "value_id": "091f9d23-ba71-4d6f-941b-0442a9c4f1d8",
        "number": "1",
        "transport_mode": "0"
      }
    }
  ],
  "calendar": [
    {
      ":type": "urn:seluxit:xml:bastard:calendar-1.0",
      ":id": "9d8aa107-2289-4e8e-b4f4-f73f4075f08a",
      "start": "2016-09-08T21:00:00.000Z",
      "end": "2016-09-30T08:00:00.000Z",
      "action_id": "d24585fc-1eac-44a2-baf3-d0dc64aa2e5f"
    }
  ],
  "calculation": [ ],
  "timer": [ ],
  "statemachine": [ ],
  "service": [ ]
}
```

Configuration manages the informations and actions that we want automatically from the Device

If we want to use an idle Configuration, we need to commit it. It will active after that the Gateway and the Device will accept it.

Documentation

- http://seluxit.com/open-api-documentation/