digitalSTROM on Smartphones
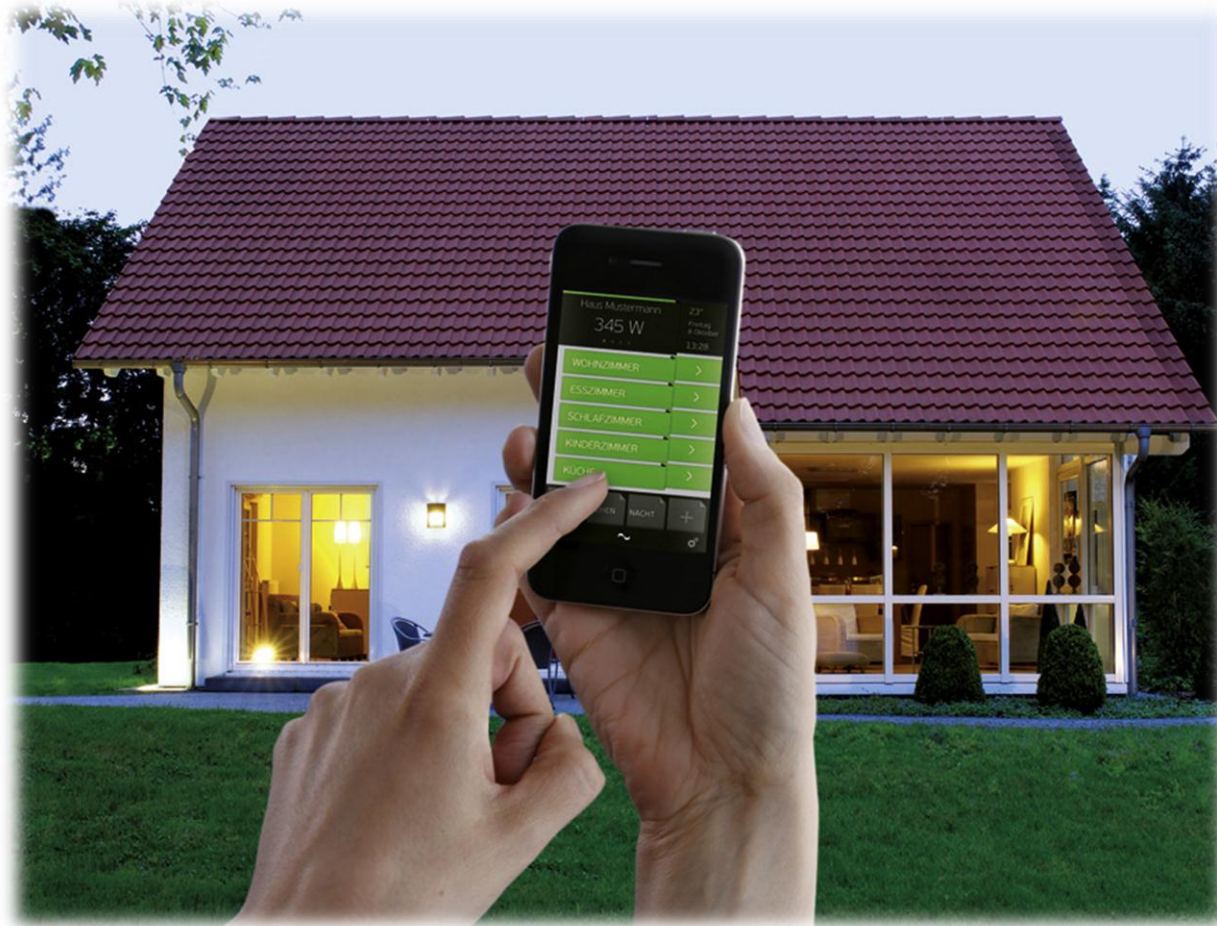
Introducing the JSON API

Link to documentation:

http://redmine.digitalstrom.org/projects/dss/wiki/Documentation

Example: https://10.0.0.2:8080/json/apartment/getConsumption

Returns:

```
▼ {
      "ok": true,
  ▼  "result": {
          "consumption": 0
      }
  }
```

How a JSON request is buildt up:

https://<server ip>:<port>/json/
<class>/<function>?<paramter>&<parameter> ....

Applications outside the dSS should access through port 8080, using the token login system.

digitalSTROM

Login Process

First time

Request application token

https://10.0.0.2:8080/json/system/requestApplicationToken?applicationName=testApp
Notice port 8080. You CANNOT request an application token from a logged in session. This returns an application token.

Login with user/pass

https://10.0.0.2:8080/json/system/login?user=dssadmin&password=dssadmin
This returns a temporary session token.

Enable application token

https://10.0.0.2:8080/json/system/enableToken?applicationToken=*<the_application_token>*&token=*<the_temporary_session_token>*
Use the temporary session token. The application token is now enabled.

digitalSTROM

Login Process

Subsequent times

Request Session token

https://10.0.0.2:8080/json/system/loginApplication?loginToken=*<the_application_token>*
This returns a session token.

A session token is valid for 60 seconds,
and gets renewed every time it is used.

Perform JSON request using session token

https://10.0.0.2:8080/json/apartment/getConsumption&token=*<the_session_token>*
If the session token is valid, the consumption is returned.

digitalSTROM

Notes:

- The dSS uses a self signed certificate, so in order to connect the user should accept that the certificate is not signed by a known authority. This can also be solved by simply accepting any certificate in your network client.

- Store the application token in your application.

- Install a JSON plugin for your browser, and try out your JSON commands there first.

- Scene overview:
  http://redmine.digitalstrom.org/projects/dss/wiki/Scene_table

- Explore the property tree

digitalSTROM

Walkthrough: "Hello digitalSTROM"