



Remote Netzwerk-Karte RMCARD400

REST-API-Handbuch

Die Remote Management Card ermöglicht die Verwaltung, Überwachung und Konfiguration eines USV-Systems und eines Umgebungssensors.

1. Anmeldung

```
curl -X POST http://<IP>/api/login/ -d '{"Benutzername":"<Konto>","Kennwort":"<Kennwort>"}
```

```
{  "loginresult": "success",  "token": "19130FA93D7637CB816A04C9EF4F223B40D99879E89FBC376D50B7F5520DB8CB"}
```

Beispiel für POSTMAN

The screenshot shows the Postman interface for a POST request. The URL is `http://<ip>/api/login/`. The request body is set to raw JSON: `{"username": "cyber", "passwd": "123"}`. The response is shown in the bottom panel, indicating a 200 OK status with a response time of 1084 ms and a body size of 303 B. The response body is:

```
1 {
2   "loginresult": "success",
3   "token": "2EB07713B68BD095D93CAD20460E320462AA786AEE015A8142827C0699DBB7D9"
4 }
5
6
```

2. Abmeldung

```
curl -X PUT http://<IP>/api/logout/ -d '{"logout": "true"}' -H "token:<Token>"
```

3. Allgemein

curl -v http://<IP>/api/general/ -H "token:<Token>"

```
cyber@ubuntu:~$ curl -v http://172.17.2.209/api/general/ -H "token:CE23DB717E25EFD646D9848FCC4BDDC5C073D0A844D55739E804B6A802B0168A"
```

```
{
  "datetime": {
    "date": "11/30/2023",
    "time": "10:57:47",
    "timezone": "London",
    "ntp_use": "false",
    "ntp_pri_server": "0.0.0.0",
    "ntp_sec_server": "0.0.0.0",
    "dst": "false",
    "date_format": "mm/dd/yyyy"
  },
  "ident": {
    "name": "RMCARD400",
    "location": "Server Room",
    "contact": "Administrator"
  }
}
```

-Ident anzeigen

curl -v http://<IP>/api/general/ident/ -H "token:<Token>"

```
{
  "name": "RMCARD400",
  "location": "Server Room",
  "contact": "Administrator"
}
```

-Identifikationsname einstellen

curl -X PUT http://<IP>/api/general/ident/name/ -d '{"name":"<NAME>"}' -H "token:<Token>"

Der Rest folgt dem gleichen Muster

curl -v http://<IP>/api/general/datetime/ -H "token:<Token>"

curl -v http://<IP>/api/general/datetime/ date/ -H "token:<Token>"

curl -X POST http://<IP>/api/general/datetime/ date/ -H "token:<Token>"
{"Datum": "mm/tt/jjjj"} → Ex : {"Datum": "30.11.2023"}

curl -v http://<IP>/api/general/datetime/ time/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/datetime/ time/ -H "token:<Token>"
{"time": "hh:mm:ss"} → Ex : {"time": "14:32:45"}

curl -v http://<IP>/api/general/datetime/ timezone/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/datetime/ timezone/ -H "token:<Token>"
{"timezone":"<City>"} → Ex : {"timezone": "London"}

curl -v http://<IP>/api/general/datetime/ ntp_use/ -H "token:<Token>"

```

curl -X PUT http://<IP>/api/general/datetime/ ntp_use/ -H "token:<Token>"
{"ntp_use":"<true/false>} → {"ntp_use": "true"}

curl -v http://<IP>/api/general/datetime/ ntp_pri_server/ -H "token:<Token
String>"

curl -X PUT http://<IP>/api/general/datetime/ ntp_pri_server/ -H
"token:<Token>"
{"ntp_pri_server":"<NTP Server>} → {"ntp_pri_server": "TIME1.google.com"}

curl -v http://<IP>/api/general/datetime/ ntp_sec_server/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/datetime/ ntp_sec_server/ -H
"token:<Token>"
{"ntp_sec_server":"<NTP Server>} → {"ntp_sec_server": "TIME1.google.com"}

curl -v http://<IP>/api/general/datetime/ dst/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/datetime/ dst/ -H "token:<Token>"
{"dst":"<true/false>} → {"dst": "true"}

curl -v http://<IP>/api/general/datetime/ date_format/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/datetime/ date_format/ -H "token:<Token>"
{"date_format":"<Date Format>} → {"date_format": "jjjj/mm/dd"}

curl -X PUT http://<IP>/api/general/datetime/ -H "token:<Token>"
Ex : {"date": "11/30/2023", "time": "15:56:21"}

curl -v http://<IP>/api/general/ident/ -H "token:<Token>"

curl -v http://<IP>/api/general/ident/ name/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/ident/ name/ -H "token:<Token>"
-d '{"Name":"<Name>}" → {"name": "test_name"}

curl -v http://<IP>/api/general/ident/ location/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/ident/ location/ -H "token:<Token>"
-d '{"Ort":"<Ort>}" → {"location": "test_location"}

curl -v http://<IP>/api/general/ident/ contact/ -H "token:<Token>"

curl -X PUT http://<IP>/api/general/ident/ contact/ -H "token:<Token>"
-d '{"Kontakt":"<Kontakt>}" → {"contact": "test_contact"}

curl -X PUT http://<IP>/api/general/ident/ -H "token:<Token>"
-d '{"Name": "test_name", "Ort": "test_ort", "Kontakt": "test"}

```

4. Sicherheit

```
curl -v http://<IP>/api/security/ -H "token:<Token>"
```

```
{
  "management": {
    "authtype": "localonly",
    "secret": "powerpanel.encryption.key",
    "mgrip": [
      {
        "ip": "0.0.0.0",
        "access": "true"
      }, {
        "ip": "0.0.0.0",
        "access": "false"
      }
    ]
  },
  "local": {
    "admin": {
      "num": 1,
      "user": [
        {
          "username": "cyber",
          "passwd": "*****",
          "access": "true"
        }
      ]
    },
    "radius": {
      "num": 0,
      "server": []
    },
    "ldap": {
      "num": 0,
      "server": []
    },
    "session": {
      "timeout": 3
    },
    "dot1x": {
      "access": "false",
      "ident": "",
      "keypasswd": "",
      "castatus": "none",
      "certstatus": "none",
      "keystatus": "none"
    }
  }
}
```

- Autotyp des Systems anzeigen

```
curl -v http://<IP>/api/security/management/authtype/ -H "token:<Token>"
```

- Autotyp des Systems festlegen

```
curl -X PUT http://<IP>/api/security/management/authtype/ -d '{"authtype": "localonly"}' -H "token:<Token>"
```

⇒ "authtype" → "localonly" 、 "radiusonly" 、 "radiuslocal" 、 "ldaponly" 、 "ldaplocal"

- Geheimnis der Software-Authentifizierung anzeigen
curl -v http://<IP>/api/security/management/secret/ -H "token:<Token>"

- Geheimnis der Software-Authentifizierung festlegen
curl -X PUT http://<IP>/api/security/management/secret/ -d '{"secret": "<PPB Secret Phase>"}' -H "token:<Token>"

- Manager-IP anzeigen
curl -v http://<IP>/api/security/management/mgrip/ -H "token:<Token>"

```
{
  "mgrip": [
    {
      "ip": "0.0.0.0",
      "access": "true"
    }, {
      "ip": "0.0.0.0",
      "access": "false"
    }
  ]
}
```

- Sekundäre Manager-IP anzeigen
curl -v http://<IP>/api/security/management/mgrip/2/ -H "token:<Token>"

```
{
  "ip": "0.0.0.0",
  "access": "false"
}
```

- IP des sekundären Managers einstellen
curl -X PUT http://<IP>/api/security/management/mgrip/2/ -d '{"ip": "192.168.202.44", "access": "true"}' -H "token:<Token>"

- Manager-IP durch Array festlegen
curl -X PUT http://<IP>/api/security/management/mgrip/ -d '{"mgrip":[{"ip": "192.168.202.11"}, {"ip": "192.168.202.44"}, {"access": "true"}]}' -H "token:<Token>"

(Primäre Manager-IP als **192.168.202.11** einstellen, sekundäre Manager-IP als **192.168.202.44** einstellen)

- Lokales Konto anzeigen

```
curl -v http://<IP>/api/security/local/ -H "token:<Token>"
```

```
{
  "admin": {
    "num": 1,
    "user": [
      {
        "username": "cyber",
        "passwd": "*****",
        "access": "true"
      }
    ]
  },
  "viewer": {
    "num": 1,
    "user": [
      {
        "username": "device",
        "passwd": "*****",
        "access": "true"
      }
    ]
  }
}
```

- Admin-Konto anzeigen

```
curl -v http://<IP>/api/security/local/admin/ -H "token:<Token>"
```

- Anzeigen der Anzahl von Administratorkonten

```
curl -v http://<IP>/api/security/local/admin/num/ -H "token:<Token>"
```

- Administratorkonto hinzufügen

```
curl -X POST http://<IP>/api/security/local/admin/user/ -d
'{"username": "aaa", "passwd": "aaa", "access": "true"}' -H
"token:<Token>"
```

- Zuschauerkonto anzeigen

```
curl -v http://<IP>/api/security/local/viewer/ -H "token:<Token>"
```

- Anzeigen der Anzahl der Zuschauerkonten

```
curl -v http://<IP>/api/security/local/viewer/num/ -H "token:<Token>"
```

- Zuschauerkonto hinzufügen

```
curl -X POST http://<IP>/api/security/local/viewer/user/ -d
'{"username": "bbb", "passwd": "aaa", "access": "true"}' -H
"token:<Token>"
```

- Den Zugriff des sekundären Betrachters auf false setzen

curl -X PUT http://<IP>/api/security/local/viewer/user/2/ -d '{"access": "false"}' -H "token:<Token>"

- Radius-Server anzeigen

curl -v http://<IP>/api/security/radius/ -H "token:<Token>"

```
{
  "num": 1,
  "server": [
    {
      "hostname": "192.168.0.23",
      "secret": "*****",
      "port": 333,
      "authtype": "pap"
    }
  ]
}
```

- Anzeigen der Nummer des Radius-Servers

curl -v http://<IP>/api/security/radius/num/ -H "token:<Token>"

- Radius-Server hinzufügen

curl -X POST http://<IP>/api/security/radius/server/ -d '{"hostname": "192.168.0.62", "port":1812, "secret": "test", "authtype": "pap"}' -H "token:<Token>"

⇒ "Hostname" → <STRING>

⇒ "Hafen" → <NUMMER>

⇒ "geheim" → <STRING>

⇒ "authtype" → "pap" 、 "chap"

- Ändern des Hostnamens des primären Radius-Servers

curl -X PUT http://<IP>/api/security/radius/server/1/ -d '{"hostname": "192.168.0.111"}' -H "token:<Token>"

- Primären Radius-Server löschen

curl -X DELETE http://<IP>/api/security/radius/server/ -d '{"index":1}' -H "token:<Token>"

- ldap-Server anzeigen

```
curl -v http://<IP>/api/security/ldap/ -H "token:<Token>"
```

```
{
  "num": 1,
  "server": [
    {
      "hostname": "192.168.202.33",
      "ssl": "false",
      "port": 389,
      "basedn": "dc=cyber,dc=com",
      "userattr": "cn",
      "auth_n_mode": "anonymous",
      "accrdn": "",
      "accrpw": "",
      "auth_z_mode": "byattr",
      "adminattr": "description",
      "adminvalue": "cyber_admin",
      "groupbase": "",
      "groupattr": "",
      "groupvalue": "",
      "type": "generic",
      "addomain": ""
    }
  ]
}
```

- ldap-Server hinzufügen

```
curl -X POST http://<IP>/api/security/ldap/server/ -d '{"type":
"generic", "hostname": "192.168.202.33", "basedn":
"dc=cyber,dc=com", "userattr": "cn", "port":389, "ssl": "false",
"auth_n_mode": "anonymous", "auth_z_mode": "byattr",
"adminattr": "description", "adminvalue": "cyber_admin"}' -H
"token:<Token>"
```

- ⇒ "Typ" → "generisch" 、 "Anzeige"
- ⇒ "Hostname" → <STRING>
- ⇒ "basedn" → <STRING>
- ⇒ "userattr" → <STRING>
- ⇒ "Hafen" → <NUMMER>
- ⇒ "ssl" → "true" 、 "false"
- ⇒ "auth_n_mode" → "anonymous" 、 "user" 、 "logon"
- ⇒ "addomain" → <STRING>
- ⇒ "accrdn" → <STRING>
- ⇒ "accrpw" → <STRING>
- ⇒ "auth_z_mode" → "byattr" 、 "bygroup"
- ⇒ "adminattr" → <STRING>

- ⇒ "adminvalue" → <STRING>
- ⇒ "groupbase" → <STRING>
- ⇒ "groupattr" → <STRING>
- ⇒ "Gruppenwert" → <STRING>

- Primärer ldap-Server SSL auf true setzen

```
curl -X POST http://<IP>/api/security/ldap/server/1/ -d '{"ssl": "true"}' -H "token:<Token>"
```

- Primärer ldap-Server userattr als uid festlegen

```
curl -X PUT http://<IP>/api/security/ldap/server/1/ -d '{"userattr": "uid"}' -H "token:<Token>"
```

- Primären ldap-Server anzeigen

```
curl -v http://<IP>/api/security/ldap/server/1/ -H "token:<Token>"
```

- Primären ldap-Server löschen

```
curl -X DELETE http://<IP>/api/security/ldap/server/ -d '{"index":1}' -H "token:<Token>"
```

- Informationen zur Sitzung anzeigen

```
curl -v http://<IP>/api/security/session/ -H "token:<Token>"
```

```
{
  "timeout": 3
}
```

- Sitzungs-Timeout einstellen

```
curl -X PUT http://<IP>/api/security/session/timeout/ -d '{"timeout":5}' -H "token:<Token>"
```

- Informationen zu 802.1x anzeigen

```
curl -v http://<IP>/api/security/dot1x/ -H "token:<Token>"
```

```
{
  "access": "false",
  "ident": "",
  "keypasswd": "",
  "castatus": "none",
  "certstatus": "none",
  "keystatus": "none"
}
```

- 802.1x aktivieren

```
curl -X PUT http://<IP>/api/security/dot1x/ -d '{"access": "true"}' -H "token:<Token>"
```

- CA-Zertifikat von 802.1x hochladen

```
curl -F upfile=@<CA-Datei> http://<IP>/api/security/dot1x/upload/ca/ -H "token:<Token>"
```

- Zertifikat von 802.1x hochladen

```
curl -F upfile=@<Zertifikatsdatei> http://<IP>/api/security/dot1x/upload/cert/ -H "token:<Token>"
```

⇒ "Typ" → "generisch" 、 "Anzeige"

- Privaten Schlüssel von 802.1x hochladen

```
curl -F upfile=@<Schlüsseldatei> http://<IP>/api/security/dot1x/upload/key/ -H "token:<Token>"
```

- CA-Zertifikat von 802.1x löschen

```
curl -X DELETE http://<IP>/api/security/dot1x/ -d '{"delca": "true"}' -H "token:<Token>"
```

- Zertifikat von 802.1x löschen

```
curl -X DELETE http://<IP>/api/security/dot1x/ -d '{"delcert": "true"}' -H "token:<Token>"
```

- Privaten Schlüssel von 802.1x löschen

```
curl -X DELETE http://<IP>/api/security/dot1x/ -d '{"delkey": "true"}' -H "token:<Token>"
```

5. Netzwerk

```
curl -v http://<IP>/api/network/ -H "token:<Token>"
```

```
{
  "ipv4": {
    "ip": "192.168.0.115",
    "subnetmask": "255.255.255.0",
    "gateway": "192.168.0.1",
    "dns": "192.168.0.1",
    "dhcp": "true",
    "dnsfromdhcp": "true",
    "hostname": "rmc00:00:00",
    "hostnamesync": "false"
  },
  "ipv6": {
    "access": "false",
    "routercontrol": "false",
    "manual": "false",
    "linklocal": "",
    "routercontrol": "",
    "manualaddr": ""
  },
  .
  .
  .
  .
  "console": {
    "telnetaccess": "true",
    "telnetport": 23,
    "sshaccess": "true",
    "sshport": 22
  },
  "ftp": {
    "ftpaccess": "true",
    "ftpport": 21
  }
}
```

- IPv4-IP-Adresse anzeigen

```
curl -v http://<IP>/api/network/ipv4/ip/ -H "token:<Token>"
```

- IPv4 DHCP anzeigen

```
curl -v http://<IP>/api/network/ipv4/dhcp/ -H "token:<Token>"
```

- IPv4 DHCP einstellen

```
curl -X PUT http://<IP>/api/network/ipv4/dhcp/ -d '{"dhcp": "false"}' -H "token:<Token>"
```

- IPv6-Zugang aktivieren

```
curl -X PUT http://<IP>/api/network/ipv6/ -d '{"access": "true"}' -H "token:<Token>"
```

- SNMPv1-Informationen anzeigen

```
curl -v http://<IP>/api/network/snmpv1/ -H "token:<Token>"
```

```
{
  "access":      "false",
  "user": [
    {
      "community": "public",
      "ip": "0.0.0.0",
      "accesstype": "read-only"
    }, {
      "community": "private",
      "ip": "0.0.0.0",
      "accesstype": "read-write"
    }, {
      "community": "public2",
      "ip": "0.0.0.0",
      "accesstype": "forbidden"
    }, {
      "community": "public3",
      "ip": "0.0.0.0",
      "accesstype": "forbidden"
    }
  ]
}
```

- Aktivieren Sie den SNMPv1-Zugang

```
curl -X PUT http://<IP>/api/network/snmpv1/ -d '{"access": "true"}' -H "token:<Token>"
```

- Setzen Sie die sekundäre SNMPv1-Benutzer-IP auf 192.168.0.201.

```
curl -X PUT http://<IP>/api/network/snmpv1/user/2/ -d '{"ip": "192.168.0.201"}' -H "token:<Token>"
```

⇒ "Community" → <String>

⇒ "ip" → <String>

⇒ "accesstype" → "read-only" 、 "read-write" 、 "forbidden"

- SNMPv3-Informationen anzeigen

```
curl -v http://<IP>/api/network/snmpv3/ -H "token:<Token>"
```

```

{
  "access": "false",
  "user": [{
    "name": "user1",
    "status": "disable",
    "authprotocol": "none",
    "authpasswd": "",
    "privprotocol": "none",
    "privpasswd": "",
    "ip": "0.0.0.0"
  }, {
    "name": "user2",
    "status": "disable",
    "authprotocol": "none",
    "authpasswd": "",
    "privprotocol": "none",
    "privpasswd": "",
    "ip": "0.0.0.0"
  }, {
    "name": "user3",
    "status": "disable",
    "authprotocol": "none",
    "authpasswd": "",
    "privprotocol": "none",
    "privpasswd": "",
    "ip": "0.0.0.0"
  }, {
    "name": "user4",
    "status": "disable",
    "authprotocol": "none",
    "authpasswd": "",
    "privprotocol": "none",
    "privpasswd": "",
    "ip": "0.0.0.0"
  }
]}

```

- Aktivieren Sie den SNMPv3-Zugang
curl -X PUT http://<IP>/api/network/snmpv3/ -d '{"access": "true"}' -H "token:<Token>"
- Vierte SNMPv3-Benutzerinformationen anzeigen
curl -v http://<IP>/api/network/snmpv3/user/4/ -H "token:<Token>"
- SNMPv3 vierte Benutzer-IP als 192.168.0.201 festlegen
curl -X PUT http://<IP>/api/network/snmpv3/user/4/ -d '{"ip": "192.168.0.201"}' -H "token:<Token>"
- Setzen Sie das sekundäre SNMPv3-Snmp-Benutzerauthentifizierungsprotokoll auf md5 und das Authentifizierungspasswort auf 1111111111111111.
curl -X PUT http://<IP>/api/network/snmpv3/user/2/ -d '{"authprotocol": "md5", "authpasswd": "1111111111111111"}' -H "token:<Token>"


```
curl -X PUT http://<IP>/api/network/web/httpport/ -d '{"httpport":5000}' -H "token:<Token>"
```

- Deaktivieren des TLS_DHE_DSS_WITH_AES_128_CBC_SHA-Algorithmus von HTTPS

```
curl -X PUT http://<IP>/api/network/web/alg/1/ -d '{"status": "false"}' -H "token:<Token>"
```

- HTTPS-Zertifizierung hochladen

```
curl -F upfile=@<Zertifikatsdatei> http://<IP>/api/network/web/https/upload/cert/ -H "token:<Token>"
```

- Informationen der Konsole anzeigen

```
curl -v http://<IP>/api/network/console/ -H "token:<Token>"
```

```
{
  "telnetaccess": "true",
  "telnetport": 23,
  "sshaccess": "true",
  "sshport": 22
}
```

- Telnet deaktivieren

```
curl -X PUT http://<IP>/api/network/console/ -d '{"telnetaccess": "false"}' -H "token:<Token>"
```

- SSH-Hostschlüssel hochladen

```
curl -F upfile=@<Hostkey-Datei> http://<IP>/api/network/console/upload/hostkey/ -H "token:<Token>"
```

- Informationen über FTP anzeigen

```
curl -v http://<IP>/api/network/ftp/ -H "token:<Token>"
```

```
{
  "ftpaccess": "true",
  "ftpport": 21
}
```

- FTP deaktivieren

```
curl -X PUT http://<IP>/api/network/ftp/ -d '{"ftpaccess": "false"}' -H "token:<Token>"
```

6. Benachrichtigung

`curl -v http://<IP>/api/notification/ -H "token:<Token>"`

```
{
  "event": {
    "security": [
      {
        "index": 61,
        "msg": "Login authorization failure via HTTP",
        "log": "true",
        "email": "false",
        "trap": "false",
        "syslog": "false",
        "sms": "false"
      }, {
        "index": 62,
        "msg": "Login authorization failure via Console",
        "log": "true",
        "email": "false",
        "trap": "false",
        "syslog": "false",
        "sms": "false"
      }
    ],
    "emailrcpt": {
      "num": 0,
      "rcptinfo": []
    },
    "traprcpt": {
      "num": 0,
      "rcptinfo": []
    },
    "sms": {
      "service": "clickatellold",
      "username": "Click_Name",
      "passwd": "Click_Pass",
      "apiid": "Click_api_ID",
      "apil": "Click_API",
      "geturl": "",
      "posturl": "",
      "postcontent": "",
      "emailaddr": "",
      "emailsubject": "",
      "emailcontent": ""
    },
    "smsrcpt": {
      "num": 0,
      "rcptinfo": []
    }
  }
}
```

- Sicherheitsereignis anzeigen

`curl -v http://<IP>/api/notification/event/security/ -H "token:<Token>"`

```
{
  "security": [
    {
      "index": 61,
      "msg": "Login authorization failure via HTTP",
      "log": "true",
      "email": "false",
      "trap": "false",
      "syslog": "false",
      "sms": "false"
    }, {
      "index": 62,
      "msg": "Login authorization failure via Console",
      "log": "true",
      "email": "false",
      "trap": "false",
      "syslog": "false",
      "sms": "false"
    }, {
      "index": 63,
      "msg": "The password has been changed",
      "log": "true",
      "email": "false",
      "trap": "false",
      "syslog": "false",
      "sms": "false"
    }, {
      "index": 64,
      "msg": "Configuration file uploaded",
      "log": "true",
      "email": "false",
      "trap": "false",
      "syslog": "false",
      "sms": "false"
    }
  ]
}
```

- Aktivieren Sie das Senden des Ereignisses "Login-Authentifizierungsfehler über HTTP" per Trap

```
curl -X PUT http://<IP>/api/notification/event/security/1/ -d '{"trap": "true"}' -H "token:<Token>"
```

- Aktivieren Sie das Senden des Ereignisses "Das Passwort wurde geändert" per E-Mail und Syslog

```
curl -X PUT http://<IP>/api/notification/event/security/ -d '{"security": [{}], {"email": "true"}, {"syslog": "true"}]' -H "token:<Token>"
```

- SMTP-Server anzeigen

```
curl -v http://<IP>/api/notification/smtp/ -H "token:<Token>"
```

```
{
  "server": "",
  "senderemail": "",
  "sendername": "",
  "auth": "false",
  "account": "",
  "passwd": "",
  "encrypt": "none"
}
```

- SMTP-Server einstellen

```
curl -X PUT http://<IP>/api/notification/smtp/ -d '{"server": "smtp-mail.outlook.com"}' -H "token:<Token>"
```

- ⇒ "Server" → <String>
- ⇒ "senderemail" → <String>
- ⇒ "Absendername" → <String>
- ⇒ "auth" → "true" 、 "false"
- ⇒ "Konto" → <String>
- ⇒ "passwd" → <String>
- ⇒ "verschlüsseln" → "keine" 、 "tls" 、 "ssl"

- E-Mail-Empfänger anzeigen

```
curl -v http://<IP>/api/notification/emailrcpt/ -H "token:<Token>"
```

```

{
  "num": 1,
  "rcptinfo": [
    {
      "email": "test@gmail.com",
      "status": "enable"
    }
  ]
}

```

- E-Mail-Empfänger hinzufügen

```
curl -X POST http://<IP>/api/notification/emailrcpt/rcptinfo/ -d '{"status": "enable", "email": "test@gmail.com"}' -H "token:<Token>"
```

- Ersten E-Mail-Empfänger löschen

```
curl -X DELETE http://<IP>/api/notification/emailrcpt/rcptinfo/ -d '{"index":1}' -H "token:<Token>"
```

- Ersten E-Mail-Empfänger deaktivieren

```
curl -X PUT http://<IP>/api/notification/emailrcpt/rcptinfo/1/ -d '{"status": "disable"}' -H "token:<Token>"
```

⇒ "Status" → "aktivieren" 、 "deaktivieren"

⇒ "E-Mail" → <String>

- Testnachricht an den ersten E-Mail-Empfänger senden

```
curl -X POST http://<IP>/api/notification/emailrcpt/sendtest/ -d '{"index":1}' -H "token:<Token>"
```

- Trap-Empfänger anzeigen

```
curl -v http://<IP>/api/notification/traprcpt/ -H "token:<Token>"
```

```

{
  "num": 1,
  "rcptinfo": [
    {
      "name": "Trap Name",
      "status": "true",
      "version": 1,
      "ip": "192.168.0.205",
      "community": "public"
    }
  ]
}

```

- SNMPv1-Trap-Empfänger hinzufügen

```
curl -X POST http://<IP>/api/notification/traprcpt/rcptinfo/ -d '{"name": "testname", "ip": "192.168.0.202", "status": "true", "version":1, "community": "testcomm"}' -H "token:<Token>"
```

- SNMPv3-Trap-Empfänger hinzufügen

```
curl -X POST http://<IP>/api/notification/traprcpt/rcptinfo/ -d '{"name":  
"testname", "ip": "192.168.0.202", "status": "true", "version":3, "user_idx":1}' -H  
"token:<Token>"
```

- Ersten Trap-Empfänger löschen

```
curl -X DELETE http://<IP>/api/notification/traprcpt/rcptinfo/ -d '{"index ":1}' -  
H "token:<Token>"
```

- Ersten Trap-Empfängernamen als "Testname" festlegen

```
curl -X PUT http://<IP>/api/notification/traprcpt/rcptinfo/1/ -d '{"name":  
"testname"}' -H "token:<Token>"
```

- ⇒ "Name" → <String>
- ⇒ "status" → "true" 、 "false"
- ⇒ "Version" → 1 、 3
- ⇒ "ip" → <String>
- ⇒ "Community " → <String>

- Testnachricht an den ersten Trap-Empfänger senden

```
curl -X POST http://<IP>/api/notification/traprcpt/sendtest/ -d  
'{"index":1}' -H "token:<Token>"
```

7. System

```
curl -v http://<IP>/api/system/ -H "token:<Token>"
```

```
{
  "sn": "NA",
  "modelname": "RMCARD400",
  "mac": "00-0C-15-05-7B-77",
  "hwversion": "1.0",
  "kernelversion": "1.0.1",
  "updatedate": "12/26/2023 16:52:20",
  "fwversion": "1.0.4 (Beta Version : 0.6) "
```

- Modellname anzeigen

```
curl -v http://<IP>/api/system/modelname/ -H "token:<Token>"
```

- System neu starten

```
curl -X POST http://<IP>/api/system/reboot/ -d '{"reboot": "true"}' -H "token:<Token>"
```

- System zurücksetzen

```
curl -X POST http://<IP>/api/system/reset/ -d '{"reset": "true"}' -H "token:<Token>"
```

- System zurücksetzen (TCP/IP-Einstellungen reserviert)

```
curl -X POST http://<IP>/api/system/resetnotcpip/ -d '{"resetnotcpip": "true"}' -H "token:<Token>"
```

- Konfigurationsdatei zur Wiederherstellung hochladen

```
curl -F upfile=@<Wiederherstellungsdatei> http://<IP>/api/system/restore/upload/ -H "token:<Token>"
```

- Speichern der Konfigurationsdatei herunterladen

```
curl http://<IP>/api/system/restore/download/ --output <Dateiname> -H "token:<Token>"
```

- Datei mit Diagnoseinformationen herunterladen

```
curl http://<IP>/api/system/diagnoinfo/download/ --output <Dateiname herunterladen> -H "token:<Token>"
```

- Aktualisierung der Firmware

```
curl -F upfile=@<FW-Datei> http://<IP>/api/system/firmware/upload/ -H "token:<Token>"
```

8. UPS Status

```
curl -v http://<IP>/api/upsstatus/ -H "token:<Token>"
```

```
{
  "input": {
    "status": "Normal",
    "voltage": 114.7,
    "frequency": 59.9
  },
  "output": {
    "status": "Normal",
    "voltage": 110.2,
    "frequency": 59.9,
    "load": 0,
    "current": 0.0,
    "ncl": On
  },
  "battery": {
    "status": "Fully Charged",
    "capacity": 100,
    "runtime": 6300,
    "voltage": 41.0
  },
  "system": {
    "status": "Normal",
    "statusidx": 0,
    "tempc": 25,
    "tempcf": 77
  }
}
```

(1) Eingabe

- ⇒ "status" → "Überspannung" 、 " Unterspannung" 、 " Frequenz-Ausfall" 、 " Stromausfall" 、 " Normal"
- ⇒ "voltage" → <Zahl> (V)
- ⇒ "frequenz" → <Zahl> (Hz)

(2) Ausgabe

- ⇒ "Status" → "Normal" 、 " Boost" 、 " Buck" 、 " Überlast" 、 " Bypass" 、 " Manuelle Umgehung" 、 " Bypass Überlast" 、 " ECO-Modus" 、 " Kein Ausgang"
- ⇒ " voltage " → <Zahl> (V)
- ⇒ " frequenz " → <Zahl> (Hz)
- ⇒ "Last" -> <Zahl> (%)
- ⇒ "aktuell" → <Zahl> (A)
- ⇒ "ncl" → "Ein" 、 "Aus" 、 "Keine"
- ⇒ "ncl2" → "Ein" 、 "Aus" 、 "Keine"

(3) Batterie

- ⇒ "Status" → "Normal" 、 " Entladend" 、 " Aufladen" 、 " Vollständig aufgeladen" 、 " Nicht vorhanden" 、 " Batterieprüfung" 、 " Batterie kritisch niedrig"
- ⇒ "Lademodus" → "sbm" 、 "normal"
- ⇒ "chargestate" → "discharge" 、 " charge" 、 " float" 、 " rest"
- ⇒ "Kapazität" → <Zahl> (%)
- ⇒ "Laufzeit" → <Zahl> (s)
- ⇒ "Spannung" → <Zahl> (V)
- ⇒ "Temperatur" → <Zahl> (C)

(4) System

- ⇒ "status" → "Normal" 、 " hwfailure" 、 " overheat"
- ⇒ "errcode" → <String> (HW-Fehler-Fehlercode)
- ⇒ "tempc" → <Zahl> (C)
- ⇒ "tmepf" → <Nummer> (F)

9. UPS Informationen

```
curl -v http://<IP>/api/upsinfo/ -H "token:<Token>"
```

```
{
  "model": "OL1500RT JP",
  "voltrating": "110",
  "workfreq": "40~70",
  "pwrrating": "1500",
  "currating": "13",
  "loadpwr": "1080",
  "voltrating": 36,
  "fwversion": "Sv3AI2",
  "usbversion": "0.1C",
  "lcdfwversion": "",
  "battrdate": "Feb-09-28 ",
  "nclbanknum": 1,
  "exbattpacknum": 0
}
```

- ⇒ "Modell" → <String>
- ⇒ "sn" → <String>
- ⇒ "voltrating" → <Zahl> (V)
- ⇒ "workfreq" → <Zahl> (Hz)
- ⇒ "pwrrating" → <Zahl> (V)
- ⇒ "currating" → <Zahl> (A)
- ⇒ "loadpwr" → <Zahl> (Watt)
- ⇒ "voltrating" → <Zahl> (V)
- ⇒ "fwversion" → <String>
- ⇒ "usbversion" → <String>
- ⇒ "lcdversion" → <String>
- ⇒ "battrdate" → <String>
- ⇒ "nclbanknum" → <Zahl>
- ⇒ "exbattpacknum" → <Nummer>

10. USV-Konfiguration

```
curl -v http://<IP>/api/upsconfig/ -H "token:<Token>"
```

```
{
  "suppliedpwr": {
    "suppliedvolt": 110,
    "voltlist": [100, 110, 115, 120, 125]
  },
  "pwrfailcondi": {
    "highinvthre": 150,
    "hvthrelist": [150],
    "lowinvthre": 80,
    "lvthrelist": [80],
    "fregtol": 7,
    "fregtollist": [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
  },
  :
  :
  :
  "battery": {
    "lbattthre": 20,
    "lbattthrelist": [10, 20, 30],
    "periodtest": 0
  },
  "system": {
    "coldstart": "true",
    "alarm": "false",
    "dryrelaycondi": "linefail",
    "screensaver": 0,
    "screensaverlist": [0, 60, 300],
    "wfaultdetect": "false",
    "overdischargep": 0,
    "overdischlist": [0, 20, 40, 60],
    "sleepclientsd": "false"
  }
}
```

- Anzeige der gelieferten Leistung der UPS-Konfiguration

```
curl -v http://<IP>/api/upsconfig/ suppliedpwr/ -H "token:<Token>"
```

```
{
  "suppliedvolt": 110,
  "voltlist": [100, 110, 115, 120, 125]
}
```

- Stellen Sie die Versorgungsspannung auf 120 V ein.

```
curl -X PUT http://<IP>/api/upsconfig/ suppliedpwr/ -d
'{"suppliedvolt":120}' -H "token:<Token>"
```

- Anzeige der Netzausfallbedingung der UPS-Konfiguration

```
curl -v http://<IP>/api/upsconfig/ suppliedpwr/pwrfailcondi/ -H
"token:<Token>"
```

```

{
  "highinvthre": 150,
  "hvthrelist": [150],
  "lowinvthre": 80,
  "lvthrelist": [80],
  "freqtol": 7,
  "freqtollist": [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
}

```

- Frequenztoleranz auf 3 Hz einstellen

```

curl -X PUT http://<IP>/api/upsconfig/pwrfailcondi/ -d '{"freqtol":3}' -
H "token:<Token>"

```

- ⇒ "Empfindlichkeit" → "niedrig" 、 "mittel" 、 "hoch"
- ⇒ "highinvthre" → <Zahl> (V)
- ⇒ "highoutvthre" → <Zahl> (V)
- ⇒ "lowinvthre" → <Zahl> (V)
- ⇒ "lowoutvthre" → <Zahl> (V)
- ⇒ "freqtol" → <Zahl> (Hz)

- Betrieb der USV-Konfiguration anzeigen

```

curl -v http://<IP>/api/upsconfig/suppliedpwr/operation/ -H
"token:<Token>"

```

```

{
  "mode": "normal",
  "exdays": [
    {
      "day": "sun",
      "status": "false"
    },
    {
      "day": "mon",
      "status": "false"
    },
    {
      "day": "tue",
      "status": "false"
    },
    {
      "day": "wen",
      "status": "false"
    },
    {
      "day": "thu",
      "status": "false"
    },
    {
      "day": "fri",
      "status": "false"
    },
    {
      "day": "sat",
      "status": "false"
    }
  ],
  "exhourh": 9,
  "exhourl": 18
}

```

- Legen Sie exklusiv fest, dass Sonntag und Montag aktiviert werden sollen.

curl -X PUT http://<IP>/api/upsconfig/operation/exdays/ -d '{"exdays":[{"status": "true"}, {"status": "true"}]}' -H "token:<Token>"

- ⇒ "modus" → "normal" 、 "ecov" 、 "eco15" 、 "eco10" 、 "generator" 、 "bypass"
- ⇒ "exhourh" → <Zahl> (0 ~ 23)
- ⇒ "exhourl" → <Zahl> (0 ~ 23)

- Bypass der USV-Konfiguration anzeigen

curl -v http://<IP>/api/upsconfig/bypass/ -H "token:<Token>"

```
{
  "bypasscondi": "chkfreqvolt",
  "vupbound": 10,
  "vupboundlist": [10, 15],
  "vlowbound": 10,
  "vlowboundlist": [10, 15, 20]
}
```

- Bypass-Bedingung als "Nur Prüfspannung" einstellen

curl -X PUT http://<IP>/api/upsconfig/bypass/ -d '{"bypasscondi": "chkvonly"}' -H "token:<Token>"

- ⇒ "bypasscondi" → "nobypass" 、 "chkfreqvolt" 、 "chkvonly"
- ⇒ "vupbound" → <Nummer>
- ⇒ "vlowbound" → <Nummer>

- Wiederherstellung der Stromversorgung der USV-Konfiguration anzeigen

curl -v http://<IP>/api/upsconfig/pwrrestore/ -H "token:<Token>"

```
{
  "autorestore": "true",
  "recharged": 0,
  "rechargedlist": [0, 1, 2, 3, 5, 10, 20, 30, 60],
  "rechargecap": 0,
  "rechargecaplist": [0, 15, 30, 45, 60, 75, 90],
  "returndelay": 0
}
```

- Automatische Wiederherstellung deaktivieren

```
curl -X PUT http://<IP>/api/upsconfig/pwrrestore/ -d '{"autorestore":  
"false"}' -H "token:<Token>"
```

- ⇒ "autorestore" → "true" 、 " false"
- ⇒ "wieder aufgeladen" → <Nummer>
- ⇒ "rechargecap" → <Nummer>
- ⇒ "returndelay" → <Zahl> (0 ~ 600)
- ⇒ "lsdelay" → <Zahl> (0 ~ 600)

- Batterie der USV-Konfiguration anzeigen

```
curl -v http://<IP>/api/upsconfig/battery/ -H "token:<Token>"
```

```
{  
  "lbattthre": 20,  
  "lbattthrelist": [10, 20, 30],  
  "periodtest": 0  
}
```

- Schwellenwert für niedrigen Batteriestand auf 30 % einstellen

```
curl -X PUT http://<IP>/api/upsconfig/batterie/ -d '{"lbattthre":30}' -H  
"token:<Token>"
```

- Regelmäßiger Batterietest auf 2 Wochen einstellen

```
curl -X PUT http://<IP>/api/upsconfig/battery/ -d  
'{"periodtest":20160}' -H "token:<Token>"
```

- ⇒ "lbattthre" → <Nummer>
- ⇒ "lbruntimethre" → <Nummer>
- ⇒ "exmod" → "auto" 、 " manuell"
- ⇒ "exbattnum" → <Nummer>
- ⇒ "packtype" → "standard" 、 " customized"
- ⇒ "startuptest" → "true" 、 "false"
- ⇒ "Zeitraumtest" → <Zahl> (min)
- ⇒ "chargemode" → "normal" 、 " sbm"
- ⇒ "chargecheck" → "true" 、 "false"

- System der USV-Konfiguration anzeigen

curl -v http://<IP>/api/upsconfig/battery/ -H "token:<Token>"

```
{
  "coldstart":      "true",
  "alarm":          "false",
  "dryrelaycondi": "linefail",
  "screensaver":    0,
  "screensaverlist": [0, 60, 300],
  "overdischargep": 0,
  "overdischlist":  [0, 20, 40, 60],
  "sleepclientsd": "false"
}
```

- Kaltstart deaktivieren

curl -X PUT http://<IP>/api/upsconfig/system/ -d '{"coldstart":
"false"}' -H "token:<Token>"

- ⇒ "coldstart" → "true" 、 "false"
- ⇒ "alarm" → "true" 、 "false"
- ⇒ "dryrelaycondi" → "linefail" 、 " battlow" 、 " alarm" 、 " bypass" 、 " upsfail"
- ⇒ "screensaver" → <Nummer>
- ⇒ "overdischargep" → "true" 、 "false"
- ⇒ "overdischlist" → <Nummer>
- ⇒ "sleepclientsd" → "true" 、 "false"

11. UPS Hauptschalter

```
curl -v http://<IP>/api/upsswitch/ -H "token:<Token>"
```

```
{  
  "sddelaylist": [0, 10, 20, 30, 60, 120, 180, 300, 600],  
  "rebootdlist": [10, 20, 30, 60, 120, 180, 300, 600],  
  "sleepdlist": [0, 10, 20, 30, 60, 120, 180, 300, 600]  
}
```

- UPS einschalten

```
curl -X POST http://<IP>/api/upsswitch/ -d '{"turnon": "true"}' -H "token:<Token>"
```

- USV ausschalten (Ausschaltverzögerung: 10s, Sync Remote: Ein)

```
curl -X POST http://<IP>/api/upsswitch/ -d '{"sddelay":10, "syncppb":  
"true", "turnoff": "true"}' -H "token:<Token>"
```

- Neustart der USV (Aus-Verzögerung: 10 Sekunden, Neustartdauer: 10 Sekunden)

```
curl -X POST http://<IP>/api/upsswitch/ -d '{"rebootd":10,  
"sddelay":10, "reboot": "true"}' -H "token:<Token>"
```

12. UPS Bank

```
curl -v http://<IP>/api/upsbank/ -H "token:<Token>"
```

```
{
  "banknum": 2,
  "bank": [{
    "type": "cl",
    "switchable": "false",
    "status": "on",
    "outletnum": 4,
    "outlet": [{
      "idx": 5,
      "name": "Outlet5"
    }, {
      "idx": 4,
      "name": "Outlet4"
    }, {
      "idx": 3,
      "name": "Outlet3"
    }, {
      "idx": 2,
      "name": "Outlet2"
    }, {
      "idx": 1,
      "name": "Outlet1"
    }
  ], {
    "status": "on",
    "outletnum": 4,
    "outlet": [{
      "idx": 1,
      "name": "Outlet1"
    }, {
      "idx": 2,
      "name": "Outlet2"
    }, {
      "idx": 3,
      "name": "Outlet3"
    }, {
      "idx": 4,
      "name": "Outlet4"
    }
  ]
}]
}
```

- NCL-Bank ausschalten (Bank 2)

```
curl -X PUT http://<IP>/api/upsbank/bank/2/ -d '{"status": "off"}' -H "token:<Token>"
```

- Ersten Ausgangsnamen von Bank 1 einstellen

```
curl -X PUT http://<IP>/api/upsbank/bank/1/outlet/1/ -d '{"name": "test_outlet_name"}' -H "token:<Token>"
```

13. UPS-Diagnose

```
curl -v http://<IP>/api/upsdiagno/ -H "token:<Token>"
```

```
{
  "ltresult":      "pass",
  "ltdate":       "Dec-26-23 ",
  "lesresult":    "",
  "lesdate":     ""
}
```

- Führen Sie den Batterietest durch

```
curl -X PUT http://<IP>/api/upsdiagno/ -d '{"selftest": "true"}' -H
"token:<Token>"
```

- Laufzeit-Schätzung durchführen

```
curl -X PUT http://<IP>/api/upsdiagno/ -d '{"esstart": "true"}' -H
"token:<Token>"
```

- Abbruch der Laufzeitabschätzung

```
curl -X PUT http://<IP>/api/upsdiagno/ -d '{"esabort": "true"}' -H
"token:<Token>"
```

14. UPS Zeitplan

```
curl -v http://<IP>/api/upssche/ -H "token:<Token>"
```

```
{
  "schemum": 1,
  "schedule": [
    {
      "name": "Schedule Name",
      "status": "enable",
      "freq": "once",
      "bank": 255
    }
  ]
}
```

- Ersten Zeitplan anzeigen

```
curl -v http://<IP>/api/upssche/schedule/1/ -H "token:<Token>"
```

15. UPS Wake on lan

```
curl -v http://<IP>/api/upswol/ -H "token:<Token>"
```

```
{
  "syncppb": "true",
  "upsturnon": "true",
  "pwrrestore": "true",
  "remotelist": [],
  "manuallist": []
}
```

16. UPS Ereignisprotokoll

```
curl -v http://<IP>/api/upsevent/ -H "token:<Token>"
```

```
{
  "total_num": 314,
  "start": 0,
  "event": [
    {
      "date": "2024/01/03",
      "time": "19:06:25",
      "msg": "Communication to the UPS has been established"
    }, {
      "date": "2024/01/03",
      "time": "19:06:15",
      "msg": "Admin user login from 172.17.2.110. (api user
\"cyber\") "
    }, {
      "date": "2024/01/03",
      "time": "18:05:44",
      "msg": "Configuration changed by 172.17.2.107."
    }, {
      "date": "2024/01/03",
      "time": "18:04:03",
      "msg": "Admin user login from 172.17.2.110. (api user
\"cyber\") "
    }
  ]
}
```

(Anzeige der 10 wichtigsten Ereignisse)

- Nächste 10 Ereignisse anzeigen

```
curl -X PUT http://<IP>/api/upsevent/event/ -d '{"nextpage": "true"}'
-H "token:<Token>"
```

- Rückblick auf Veranstaltungen

```
curl -X PUT http://<IP>/api/upsevent/event/ -d '{"review": "true"}' -H
"token:<Token>"
```

- Alle Ereignisse löschen

```
curl -X PUT http://<IP>/api/upsevent/event/ -d '{"reset": "true"}' -H
"token:<Token>"
```

- Ereignisprotokolldatei herunterladen

```
curl http://<IP>/api/upsevent/event/download/ --output <Download
Dateiname> -H "token:<Token>"
```

17. UPS Aufzeichnungsdaten

```
curl -v http://<IP>/api/upsrec/ -H "token:<Token>"
```

```
{
  "total_num": 1799,
  "start": 0,
  "interval": 2,
  "intervallist": [1, 2, 5, 10, 20, 30, 60, 120, 240, 480, 720, 1440],
  "rec": [{
    "date": "2024/01/03",
    "time": "19:22:30",
    "invmin": 117.6,
    "invmax": 118.2,
    "inf": 60.0,
    "infoutv": 118.1,
    "infoutvoutf": 60.0,
    "load": 0,
    "capacity": 100,
    "runtime": 288
  }, {
    "date": "2024/01/03",
    "time": "18:56:44",
    "invmin": 118.0,
    "invmax": 118.0,
    "inf": 60.0,
    "infoutv": 118.0,
    "infoutvoutf": 60.0,
    "load": 0,
    "capacity": 100,
    "runtime": 280
  }
  ]
}
```

(Anzeige der 10 besten Datensätze)

- Nächste 10 Datensätze anzeigen

```
curl -X PUT http://<IP>/api/upsrec/rec/ -d '{"nextpage": "true"}' -H "token:<Token>"
```

- Datensätze überprüfen

```
curl -X PUT http://<IP>/api/upsrec/rec/ -d '{"review": "true"}' -H "token:<Token>"
```

- Alle Datensätze löschen

```
curl -X PUT http://<IP>/api/upsrec/rec/ -d '{"reset": "true"}' -H "token:<Token>"
```

- Datensatzdatei herunterladen

```
curl http://<IP>/api/upsevent/event/download/ --output <Download Dateiname> -H "token:<Token>"
```

18. Zubehör

```
curl -v http://<IP>/api/accessory/ -H "token:<Token>"
```

```
{
  "env": {
    "unit": "celcius",
    "num": 4,
    "device": [
      {
        "status": {
          "name": "testname",
          "location": "Server Room",
          "temp": 22.65,
          "humid": 69.53
        },
        "config": {
          "name": "testname",
          "location": "Server Room",
          "temphthres": -17,
          "templthres": -17,
          "humhthres": 0,
          "humlthres": 0
        }
      },
      .
      .
      .
      .
      .
    ],
    {
      "status": {
        "name": "EnvSensor",
        "location": "Server Room",
        "temp": 22.42,
        "humid": 69.20
      },
      "config": {
        "name": "EnvSensor",
        "location": "Server Room",
        "temphthres": 32,
        "templthres": 15,
        "humhthres": 80,
        "humlthres": 20
      }
    }
  ]
}
```

- Informationen des ersten zusätzlichen Umgebungssensors anzeigen
`curl -v http://<IP>/api/accessory/env/device/1/ -H "token:<Token>"`

- Temperatureinheit anzeigen

```
curl -v http://<IP>/api/accessory/env/unit/ -H "token:<Token>"
```

- Legen Sie den Namen des ersten Umgebungssensors für Zubehör als "Testname" fest.

```
curl -X PUT http://<IP>/api/accessory/env/device/1/config/ -d '{"name": "testname"}' -H "token:<Token>"
```

- Obere Temperaturschwelle einstellen

```
curl -X PUT http://<IP>/api/accessory/env/device/1/config/ -d '{"temphthres":14}' -H "token:<Token>"
```

- Zubehör Basis einstellen

```
curl -X PUT http://<IP>/api/accessory/env/device/2/config/ -d  
'{"tempthres":31, "templthres":14, "tempyster":4,  
"tempchange":9, "humhthres":80, "humlthres":15, "humhyster":4,  
"humchange":10}' -H "token:<Token>"
```

- Zubehörkontakt einstellen

```
curl -X PUT http://<IP>/api/accessory/env/device/2/config/ -d  
'{"contact4name": "conname4", "contact4state": "close"}' -H  
"token:<Token>"
```

- ⇒ "Einheit" → "Celcius" 、 "Fahrenheit"
- ⇒ "Name" → <String>
- ⇒ "Standort" → <String>
- ⇒ "tempthres" → <Zahl>
- ⇒ "templthres" → <Zahl>
- ⇒ "tempyster" → <Nummer>
- ⇒ "tempchange" → <Nummer>
- ⇒ "humhthres" → <Nummer>
- ⇒ "humlthres" → <Nummer>
- ⇒ "humhyster" → <Nummer>
- ⇒ "humchange" → <Nummer>
- ⇒ "kontakt1name" → <String>
- ⇒ "contact1state" → "open" 、 "close"
- ⇒ "kontakt2name" → <String>
- ⇒ "contact2state" → "open" 、 "close"
- ⇒ "kontakt3name" → <String>
- ⇒ "contact3state" → "open" 、 "close"
- ⇒ "contact4name" → <String>
- ⇒ "contact4state" → "open" 、 "close"



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