

# Example for Variables Discovery

from the REST-API of a myGEKKO Controller with every system enabled by one element

*Please note*, that this document is purely meant for exemplary purposes and the data and structure on your own myGEKKO controller may look different, depending on your own settings and configurations. To access the discovery Input of your own controller please refer to the QueryAPI manual: <https://wiki.my-gekko.com/>

```
{
  "globals": {
    "network": {
      "gekkoname": {
        "description": "Hostname of myGEKKO device",
        "format": "string[name]()",
        "type": "STRING",
        "permission": "READ",
        "index": 1
      },
      "language": {
        "description": "Language of myGEKKO device.
DE=German, IT=Italian, EN=English, NL=Dutch, ES=Spanish, FR=French, CS=Czech
",
        "format": "enum[0=DE, 1=IT, 2=EN, 3=NL, 4=ES, 5=FR, 6=CS]()",
        "type": "AV",
        "permission": "READ",
        "index": 2
      },
      "version": {
        "description": "Software version of myGEKKO device",
        "format": "int[0,...](version)",
        "type": "AO",
        "permission": "READ",
        "index": 3
      },
      "hardware": {
        "description": "Hardware version of myGEKKO device",
        "format": "string[version]()",
        "type": "STRING",
        "permission": "READ",
        "index": 4
      }
    },
    "alarm": {
      "sumstate": {
        "description": "Global alarm state of myGEKKO device",
        "format": "enum[0=ok, 1=unacknowledged, 2=acknowledged, 3=alarm]()",
        "type": "AO",
        "permission": "READ",
        "index": 101
      }
    },
    "meteo": {
      "twilight": {
        "description": "Current twilight value in lux (lx)",
        "format": "float[0.00,100000.00](lx)",
        "type": "AI",
        "permission": "READ",
        "index": 201
      },
      "humidity": {
        "description": "Current relative humidity level",
        "format": "float[0.00,100.00](%)",
        "type": "AI",
        "permission": "READ",
        "index": 202
      },
      "wind": {
        "description": "Current value of the wind in meter/second (m/s)",
        "format": "float[0.00,100000.00](m/s)",
        "type": "AI",
```

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72         "permission": "READ",
73         "index": 206
74     },
75     "temperature": {
76         "description": "Current value of the temperature in degrees celsius
77         (°C)",
78         "format": "float[-100.00,100.00] (°C)",
79         "type": "AI",
80         "permission": "READ",
81         "index": 207
82     },
83     "rain": {
84         "description": "Current value of the accumulated rain in liter/hour
85         (l/h)",
86         "format": "float[0.00,100.00] (l/h)",
87         "type": "AI",
88         "permission": "READ",
89         "index": 208
90     }
91 },
92 "lights": {
93     "item0": {
94         "name": "light 1",
95         "page": "1",
96         "sumstate": {
97             "description": "Summary of the states and their formats",
98             "format": "currentState enum[0=off,1=on] (); dimLevel
99             float[0.00,100.0] (%); rgbColor int[24bit->R:23-16|G:15-8|B:7-0] ();
100             tunableWhiteLevel float[0.00,100.0] (%); elementInfo
101             enum[0=ok,1=manualOff,2=manualOn,3=locked,4=alarm] (); ",
102             "type": "STRING",
103             "permission": "READ"
104         },
105         "scmd": {
106             "description": "Summary of the commands and their formats",
107             "format": "1|0|D100|T|C44782|TW100
108             (On,Off|0-100[%]|1|24BitRGB|0-100[%])",
109             "type": "STRING",
110             "permission": "WRITE",
111             "index": 100070
112         }
113     },
114     "group0": {
115         "name": "all",
116         "sumstate": {
117             "description": "Summary of the group states and their formats",
118             "format": "State[0=Off|1=On]",
119             "type": "AO",
120             "permission": "READ",
121             "index": 1000000
122         },
123         "scmd": {
124             "description": "Summary of the group commands and their formats",
125             "format": "0|1 (Off|On)",
126             "type": "AV",
127             "permission": "WRITE",
128             "index": 1000001
129         }
130     }
131 },
132 "blinds": {
133     "item0": {
134         "name": "blinds 1",
135         "page": "living",
136         "sumstate": {
137             "description": "Summary of the states and their formats",
138             "format": "currentState
139             enum[-2=holdDown,-1=movingDown,0=stop,1=movingUp,2=holdUp] ();
140             positionLevel float[0.00,100.00] (%); rotationLevel
141             float[0.00,100.00] (%); elementInfo
142             enum[0=ok,1=manualOff,2=manualOn,3=locked,4=alarm] (); rotationRange
143             enum[90=ninety,180=hundredEighty] (°); ",

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134         "type": "STRING",
135         "permission": "READ"
136     },
137     "scmd": {
138         "description": "Summary of the commands and their formats",
139         "format": "-2|-1|0|1|2|T|P55.4|S32.4
140         (Hold_down|Down|Stop|Up|Hold_up|Toggle|Position|Angle)",
141         "type": "STRING",
142         "permission": "WRITE",
143         "index": 150070
144     }
145 },
146 "group0": {
147     "name": "blinds",
148     "sumstate": {
149         "description": "Summary of the group states and their formats",
150         "format": "State[1=Up|-1=Down]",
151         "type": "AO",
152         "permission": "READ",
153         "index": 1500000
154     },
155     "scmd": {
156         "description": "Summary of the group commands and their formats",
157         "format": "2|-2 (Up|Down)",
158         "type": "AV",
159         "permission": "WRITE",
160         "index": 1500001
161     }
162 },
163 "vents": {
164     "item0": {
165         "name": "ventilation",
166         "page": "ventilation devices",
167         "sumstate": {
168             "description": "Summary of the states and their formats",
169             "format": "workingLevel
170             enum[0=off,1=level1,2=level2,3=level3,4=level4] (); deviceModel
171             enum[0=standard,1=pluggit,2=zimmermannV1,3=westaflex,4=stiebelLWZ,5=zi
172             mmermannV2] (); workingMode
173             #zimmermann:enum[0=off,1=ecoSummer,2=ecoWinter,3=comfort,4=stove]#othe
174             rs:[0=auto,1>manual,2=pluggitAuto,3=pluggitWeek,4=] (); bypassState
175             enum[0=auto,1>manual,2=summer] (); maximumWorkingLevel
176             enum[0=off,1=level1,2=level2,3=level3,4=level4] ();
177             relativeHumidityLevel float[0.00,100.00] (%); airQualityLevel
178             float[0.00,100.00] (%); co2Value float[0.00,100000.00] (ppm);
179             supplyAirTemperatureValue float[-100.00,100.00] (°C);
180             exhaustAirTemperatureValue float[-100.00,100.00] (°C);
181             outsideAirTemperatureValue float[-100.00,100.00] (°C);
182             outgoingAirTemperatureValue float[-100.00,100.00] (°C);
183             supplyAirWorkingLevel float[0.00,100.00] (%); exhaustAirWorkingLevel
184             float[0.00,100.00] (%); elementInfo
185             enum[0=auto,1>manualOff,2>manualOn,3=locked,4=alarm] ();
186             subWorkingMode
187             #zimmermann:enum[0=middleTemp+offset,1=onlyOffset]#others:enum[0=exhau
188             st,1=exhaust/supply,2=exhaust/supply/heatRecovery] ();
189             coolingModeState enum[0=off,1=on] (); dehumidModeState
190             enum[0=off,1=on] (); bypassMode enum[0=auto,1>manual,2=summer] (); ",
191             "type": "STRING",
192             "permission": "READ"
193         },
194         "scmd": {
195             "description": "Summary of the commands and their formats",
196             "format": "-1|1|2|3|4|T|BY0|BY1|BY2|C0|C1|D0|D1|Mx
197             (Off|Level1|Level2|Level3|Level4|Toggle|BypassAuto|BypassManual|Bypass
198             Summer|Cool.Off|Cool.On|Dehumid.Off|Dehumid.On|OperatingMode[0..x])",
199             "type": "STRING",
200             "permission": "WRITE",
201             "index": 200070
202         }
203     },
204     "group0": {
205         "name": "Grp 1",

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183     "sumstate": {
184         "description": "Summary of the group states and their formats",
185         "format": "State[0=Off|1=On]",
186         "type": "AO",
187         "permission": "READ",
188         "index": 2000000
189     },
190     "scmd": {
191         "description": "Summary of the group commands and their formats",
192         "format": "-1|1|2|3|4 (Off|Level1|Level2|Level3|Level4)",
193         "type": "AV",
194         "permission": "WRITE",
195         "index": 2000001
196     }
197 },
198 },
199 "loads": {
200     "item0": {
201         "name": "Deep fryer",
202         "page": "kitchen",
203         "sumstate": {
204             "description": "Summary of the states and their formats",
205             "format": "currentState enum[0=off,1=onImpulse,2=onPermanent]();
206             elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm](); ",
207             "type": "STRING",
208             "permission": "READ"
209         },
210         "scmd": {
211             "description": "Summary of the commands and their formats",
212             "format": "0|1|2|T (Off|OnImpulse|OnPermanent|Toggle)",
213             "type": "STRING",
214             "permission": "WRITE",
215             "index": 250070
216         }
217     },
218     "group0": {
219         "name": "Grp 1",
220         "sumstate": {
221             "description": "Summary of the group states and their formats",
222             "format": "State[0=Off|1=On]",
223             "type": "AO",
224             "permission": "READ",
225             "index": 2500000
226         },
227         "scmd": {
228             "description": "Summary of the group commands and their formats",
229             "format": "0|2 (Off|On)",
230             "type": "AV",
231             "permission": "WRITE",
232             "index": 2500001
233         }
234     },
235     "roomtemps": {
236         "item0": {
237             "name": "Living room",
238             "page": "rooms",
239             "sumstate": {
240                 "description": "Summary of the states and their formats",
241                 "format": "temperatureValue float[-100.00,100.00] (°C);
242                 temperatureSetPointValue float[-100.00,100.00] (°C);
243                 valveOpeningLevel float[0.00,100.00] (%); workingMode
244                 #standard:enum[1=off,8=comfort,16=reduced,64>manual,256=standby]#knx:enum[0=auto,1=comfort,2=standby,3=economy,4=buildingProtection]();
245                 reserved null[reserved](); temperatureAdjustmentValue
246                 float[-100.00,100.00] (°C); coolingModeState enum[0=off,1=on]();
247                 elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm]();
248                 relativeHumidityLevel float[0.00,100.00] (%); airQualityLevel
249                 #co2:float[0.00,100.00] (%)#quality:float[0.00,100.00] (%)#voc:float[0,1
250                 00000.00] (ppm); floorTemperatureValue float[-100.00,100.00] (°C);
251                 deviceModel enum[0=standard,3=knxDevice](); ",
252                 "type": "STRING",
253                 "permission": "READ"

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244     },
245     "scmd": {
246         "description": "Summary of the commands and their formats",
247         "format": "M1|M2|M8|M16|M64|M256|K2.4|S22.5
                (ModeOff|ModeOn|ModeComfort|ModeReduced|ModeManual|ModeStandby|TempAdj
                ustment[°C]|Setpoint[°C])",
248         "type": "STRING",
249         "permission": "WRITE",
250         "index": 300070
251     }
252 },
253 "group0": {
254     "name": "Grp 1",
255     "sumstate": {
256         "description": "Summary of the group states and their formats",
257         "format": "State[0=Off|1=On|2=Comfort|3=Reduced]",
258         "type": "AO",
259         "permission": "READ",
260         "index": 3000000
261     },
262     "scmd": {
263         "description": "Summary of the group commands and their formats",
264         "format": "M1|M2|M8|M16
                (Mode_Off|Mode_On|Mode_Comfort|Mode_Reduced)",
265         "type": "AV",
266         "permission": "WRITE",
267         "index": 3000001
268     }
269 },
270 },
271 "heatingsystems": {
272     "item0": {
273         "name": "Heating",
274         "page": "Main heating",
275         "sumstate": {
276             "description": "Summary of the states and their formats",
277             "format": "deviceModel
                enum[0=individual,1=buderus,2=stiebel,3=tecalor,4=vallant]();
                coolingModeState [0=off,1=on](); flowTemperatureValue
                float[0.00,100.00](°C); flowTemperatureSetPointValue
                float[0.00,100.00](°C); currentState enum[0=off,1=on](); elementInfo
                enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm](); ",
278             "type": "STRING",
279             "permission": "READ"
280         }
281     },
282     "group0": {
283         "name": "Grp 1",
284         "sumstate": {
285             "description": "Summary of the group states and their formats",
286             "format": "State[0=Off|1=On]",
287             "type": "AO",
288             "permission": "READ",
289             "index": 3500000
290         }
291     }
292 },
293 "heatingcircuits": {
294     "item0": {
295         "name": "Heating circuit",
296         "page": "Main heating",
297         "sumstate": {
298             "description": "Summary of the states and their formats",
299             "format": "deviceModel
                enum[0=individual,1=buderus,2=stiebel,3=vallant]();
                flowTemperatureValue float[0.00,100.00](°C);
                returnFlowTemperatureValue float[0.00,100.00](°C); dewPointValue
                float[0.00,100.00](°C); pumpWorkingLevel float[0.00,100.00](%);
                coolingModeState enum[0=off,1=on](); flowTemperatureSetPointValue
                float[0.00,100.00](°C); valveOpeningLevel float[0.00,100.00](%);
                elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm]();
                currentState enum[0=off,1=on,2=auto](); ",
300             "type": "STRING",

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301         "permission": "READ"
302     }
303 },
304     "group0": {
305         "name": "Grp 1",
306         "sumstate": {
307             "description": "Summary of the group states and their formats",
308             "format": "State[0=Off|1=On]",
309             "type": "AO",
310             "permission": "READ",
311             "index": 4000000
312         }
313     },
314 },
315     "energycosts": {
316         "item0": {
317             "name": "PV production",
318             "page": "Energy",
319             "sumstate": {
320                 "description": "Summary of the states and their formats",
321                 "format": "currentPowerValue float[0.00,...] (powerUnit);
totalEnergyTodayValue float[0.00,...] (energyUnit);
totalEnergyMonthValue float[0.00,...] (energyUnit); totalEnergyValue
float[0.00,...] (energyUnit); nominalPowerValue
float[0.00,...] (powerUnit); energyUnit
string[xh:x=kW,ml,l3,...] (I.S.); powerUnit
string[x:x=kW,ml,l3,...] (I.S.); totalEnergyToday0h6hValue
float[0.00,...] (energyUnit); totalEnergyToday6h12hValue
float[0.00,...] (energyUnit); totalEnergyToday12h18hValue
float[0.00,...] (energyUnit); totalEnergyToday18h24hValue
float[0.00,...] (energyUnit); totalEnergyYesterday0h6hValue
float[0.00,...] (energyUnit); totalEnergyYesterday6h12hValue
float[0.00,...] (energyUnit); totalEnergyYesterday12h18hValue
float[0.00,...] (energyUnit); totalEnergyYesterday18h24hValue
float[0.00,...] (energyUnit); elementInfo
enum[0=ok,1=manualOff,2=manualOn,3=locked,4=alarm] ();
totalEnergyThisYearValue float[0.00,...] (energyUnit);
totalEnergyInPeriodValue float[0.00,...] (energyUnit);
startDateTotalEnergyInPeriod string[dd.mm.yyyy hh:mm:ss] ();
counterDirection enum[0=consumption,1=production] (); ",
322                 "type": "STRING",
323                 "permission": "READ"
324             },
325             "scmd": {
326                 "description": "Summary of the commands and their formats",
327                 "format": "RP (ResetPeriod)",
328                 "type": "STRING",
329                 "permission": "WRITE",
330                 "index": 450070
331             }
332         },
333     },
334     "group0": {
335         "name": "Grp 1",
336         "sumstate": {
337             "description": "Summary of the group states and their formats",
338             "format": "State[0=Off|1=On]",
339             "type": "AO",
340             "permission": "READ",
341             "index": 4500000
342         }
343     },
344 },
345     "alarms_logics": {
346         "item0": {
347             "name": "PV storage",
348             "page": "Energy",
349             "sumstate": {
350                 "description": "Summary of the states and their formats",
351                 "format": "currentValue float[...,...] (); ",
352                 "type": "STRING",
353                 "permission": "READ"
354             },
355             "scmd": {

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355         "description": "Summary of the commands and their formats",
356         "format": "S44.7 (SetpointValue)",
357         "type": "STRING",
358         "permission": "WRITE",
359         "index": 500070
360     }
361 },
362     "group0": {
363         "name": "Grp 1",
364         "sumstate": {
365             "description": "Summary of the group states and their formats",
366             "format": "State[0=Off|1=On]",
367             "type": "AO",
368             "permission": "READ",
369             "index": 5000000
370         }
371     }
372 },
373     "accessdoors": {
374         "item0": {
375             "name": "Office CEO",
376             "page": "Offices",
377             "sumstate": {
378                 "description": "Summary of the states and their formats",
379                 "format": "accessControllerActionState
enum[0=close,1=open,2=keepOpen] (); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); accessState
enum[0=closed,1=open] (); gateRuntimeLevel int[0,100] (%); accesType
enum[0=door,1=gate,2=barrier] (); ",
380                 "type": "STRING",
381                 "permission": "READ"
382             }
383         },
384         "group0": {
385             "name": "Grp 1",
386             "sumstate": {
387                 "description": "Summary of the group states and their formats",
388                 "format": "State[0=Closed|1=Open]",
389                 "type": "AO",
390                 "permission": "READ",
391                 "index": 5500000
392             }
393         }
394     },
395     "energymanager": {
396         "item0": {
397             "name": "Energy manager",
398             "page": "Manager",
399             "sumstate": {
400                 "description": "Summary of the states and their formats",
401                 "format": "elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); gridMeterState
enum[0=notActive,1=active] (); solarPanelState
enum[0=notActive,1=active] (); batteryState
enum[0=notActive,1=active] (); gridMeterCurrentPowerValue
float[0.00,...] (W); currentPowerExportedToGridValue
float[0.00,...] (W); currentPowerFromSolarPanelsValue
float[0.00,...] (W); currentPowerFromBatteryValue float[0.00,...] (W);
currentPowerChargingBatteryValue float[0.00,...] (W);
currentHomePowerConsumptionValue float[0.00,...] (W);
currentAlternativePowerConsumptionValue float[0.00,...] (W);
totalDailyImportedEnergyFromGridValue float[0.00,...] (Wh);
totalDailyExportedEnergyToGridValue float[0.00,...] (Wh);
totalDailyEnergyFromSolarPanelsValue float[0.00,...] (Wh);
totalDailyEnergyFromBatteryValue float[0.00,...] (Wh);
totalDailyEnergyChargingBatteryValue float[0.00,...] (Wh);
totalDailyHomeEnergyConsumptionValue float[0.00,...] (Wh);
loadSheddingState enum[0=off,1=on] (); EMSState enum[0=off,1=on] ();
batteryModel
enum[0=unavailable,1=e3dc-s10,2=byd,3=vartastorage,4=individual,5=bySu
nSpecInverters] (); batterySoCLevel int[0,100] (%); EMSEnabled
enum[0=disabled,1=enabled] (); maximumPowerConsumptionFromGridValue
float[0.00,...] (kW); maximumPowerExportToGridValue

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float[0.00,...] (kW); maximumPowerSolarPanelsValue
float[0.00,...] (kW); maximumPowerBatteryValue float[0.00,...] (kW); ",
402     "type": "STRING",
403     "permission": "READ"
404 }
405 }
406 },
407 "alarmsystem": {
408     "item0": {
409         "name": "Alarm system",
410         "page": "Alarm system",
411         "zone1": "Inside",
412         "zone2": "Outside",
413         "sumstate": {
414             "description": "Summary of the states and their formats",
415             "format": "alarmState enum[0=ok,1=alarm] (); zone1DeviceStatus
enum[0=off,1=on] (); zone1SharpState enum[0=unsharp,1=sharp] ();
zone1AlarmState enum[0=ok,2=alarmButUnsharp,3=alarm] ();
zone2DeviceStatus enum[0=off,1=on] (); zone2SharpState
enum[0=unsharp,1=sharp] (); zone2AlarmState
enum[0=ok,2=alarmButUnsharp,3=alarm] (); deviceModel
enum[1=standard,2=complex400_V1] (); ",
416             "type": "STRING",
417             "permission": "READ"
418         },
419         "scmd": {
420             "description": "Summary of the commands and their formats",
421             "format": "1|2 (Zone 1 Sharp|Zone 2 Sharp)",
422             "type": "STRING",
423             "permission": "WRITE",
424             "index": 650070
425         }
426     },
427     "group0": {
428         "name": "Grp 1",
429         "sumstate": {
430             "description": "Summary of the group states and their formats",
431             "format": "State[0=Off|1=Sharp]",
432             "type": "AO",
433             "permission": "READ",
434             "index": 6500000
435         },
436         "scmd": {
437             "description": "Summary of the group commands and their formats",
438             "format": "1 (Sharp)",
439             "type": "AV",
440             "permission": "WRITE",
441             "index": 6500001
442         }
443     }
444 },
445 "multirooms": {
446     "item0": {
447         "name": "Room 1",
448         "page": "Level 1",
449         "sumstate": {
450             "description": "Summary of the states and their formats",
451             "format": "playerCurrentState enum[0=off,1=on] ();
currentVolumeLevel int[0,100] (%); currentPlayingTime int[0,...] (s);
currentAudioTitle string[name] (); currentPlaylistIndex int[0,15] ();
playlist0Name string[name] (); playlist1Name string[name] ();
playlist2Name string[name] (); playlist3Name string[name] ();
playlist4Name string[name] (); playlist5Name string[name] ();
playlist6Name string[name] (); playlist7Name string[name] ();
playlist8Name string[name] (); playlist9Name string[name] ();
playlist10Name string[name] (); playlist11Name string[name] ();
playlist12Name string[name] (); playlist13Name string[name] ();
playlist14Name string[name] (); playlist15Name string[name] ();
currentSongIndex int[0,...] (); ",
452             "type": "STRING",
453             "permission": "READ"
454         },
455         "scmd": {

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456         "description": "Summary of the commands and their formats",
457         "format":      "PLAY|STOP|T|N+1|C1|V24.5
                        (Play|Stop|Toggle|ChangeSong|ChangePlaylist|ChangeVolume)",
458         "type": "STRING",
459         "permission":  "WRITE",
460         "index":      700070
461     }
462 },
463     "group0": {
464         "name": "Grp 1",
465         "sumstate": {
466             "description": "Summary of the group states and their formats",
467             "format":      "State[0=Off|1=On]",
468             "type": "AO",
469             "permission":  "READ",
470             "index":      7000000
471         }
472     }
473 },
474     "cams": {
475         "item0": {
476             "name": "Entrance",
477             "page": "Webcam",
478             "imagepath":      "
479             https://www.foto-webcam.eu/webcam/kronplatz/current/400.jpg",
480             "sumstate": {
481                 "description": "Summary of the states and their formats",
482                 "format":      "newRecordsAvailableState enum[0=no,1=yes]()",
483                 "type": "STRING",
484                 "permission":  "READ"
485             }
486         },
487         "group0": {
488             "name": "Grp 1",
489             "sumstate": {
490                 "description": "Summary of the group states and their formats",
491                 "format":      "State[0=Off|1=On]",
492                 "type": "AO",
493                 "permission":  "READ",
494                 "index":      7500000
495             }
496         },
497     },
498     "smsemail": {
499         "item0": {
500             "name": "SMS/EMAIL",
501             "page": "Mail",
502             "sumstate": {
503                 "description": "Summary of the states and their formats",
504                 "format":      "currentState enum[0=off,1=on]()",
505                 "type": "STRING",
506                 "permission":  "READ"
507             },
508             "scmd": {
509                 "description": "Summary of the commands and their formats",
510                 "format":      "-1|1 (Off|On)",
511                 "type": "STRING",
512                 "permission":  "WRITE",
513                 "index":      800070
514             }
515         },
516     },
517     "actions": {
518         "item0": {
519             "name": "Central",
520             "page": "Action",
521             "sumstate": {
522                 "description": "Summary of the states and their formats",
523                 "format":      "currentState enum[0=off,1=on](); startConditionState
524                 enum[0=ok,1=manualOff,2>manualOn,3=locked,4=alarm]()",
525                 "type": "STRING",
526                 "permission":  "READ"

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525     },
526     "scmd": {
527         "description": "Summary of the commands and their formats",
528         "format": "-1|1|T (Stop|Start|Toggle)",
529         "type": "STRING",
530         "permission": "WRITE",
531         "index": 850070
532     }
533 },
534 "group0": {
535     "name": "Grp 1",
536     "sumstate": {
537         "description": "Summary of the group states and their formats",
538         "format": "State[0=Off|1=On]",
539         "type": "AO",
540         "permission": "READ",
541         "index": 8500000
542     }
543 },
544 },
545 "clocks": {
546     "item0": {
547         "name": " Mittagessen",
548         "page": "Uhr",
549         "sumstate": {
550             "description": "Summary of the states and their formats",
551             "format": "currentState enum[0=off,1=on,2=onCoincidence] ();
startConditionState enum[0=off,1=on] (); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); ",
552             "type": "STRING",
553             "permission": "READ"
554         },
555         "scmd": {
556             "description": "Summary of the commands and their formats",
557             "format": "0|1|2 (Off|On|onCoincidence)",
558             "type": "STRING",
559             "permission": "WRITE",
560             "index": 900070
561         }
562     },
563     "group0": {
564         "name": "Grp 1",
565         "sumstate": {
566             "description": "Summary of the group states and their formats",
567             "format": "State[0=Off|1=On]",
568             "type": "AO",
569             "permission": "READ",
570             "index": 9000000
571         }
572     }
573 },
574 "controlcircuits": {
575     "item0": {
576         "name": "Heating rod control",
577         "page": "Control loops",
578         "sumstate": {
579             "description": "Summary of the states and their formats",
580             "format": "sensorValue float[-10000.00,10000.00] (); sensorType
enum[0=temperaturePT,1=temperatureAnalog,2=pressure,3=humidity,4=indiv
idual] (); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] ();
pump1WorkingPowerLevel float[0.00-100.00] (%); pump2WorkingPowerLevel
float[0.00-100.00] (%); pump3WorkingPowerLevel float[0.00-100.00] (%);
",
581             "type": "STRING",
582             "permission": "READ"
583         }
584     },
585     "group0": {
586         "name": "Grp 1",
587         "sumstate": {
588             "description": "Summary of the group states and their formats",
589             "format": "State[0=Off|1=On]",

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590         "type": "AO",
591         "permission": "READ",
592         "index": 9500000
593     }
594 }
595 },
596 "air_handling_unit": {
597     "item0": {
598         "name": "Air Conditioning",
599         "sumstate": {
600             "description": "Summary of the states and their formats",
601             "format": "supplyAirTemperatureValue float[-100.00,100.00] (°C);
supplyAirTemperatureSetPointValue float[-100.00,100.00] (°C);
exhaustAirTemperatureValue float[-100.00,100.00] (°C);
exhaustAirTemperatureSetPointValue float[-100.00,100.00] (°C);
outsideAirTemperatureValue float[-100.00,100.00] (°C);
outgoingAirTemperatureValue float[-100.00,100.00] (°C);
supplyRelativeHumidityLevel float[0.00,100.00] (%);
supplyRelativeHumiditySetPointLevel float[0.00,100.00] (%);
exhaustRelativeHumidityLevel float[0.00,100.00] (%);
exhaustRelativeHumiditySetPointLevel float[0.00,100.00] (%);
airQualityLevel float[0.00,100.00] (%); airQualitySetPointLevel
float[0.00,100.00] (%); supplyPressureValue float[0.00,...] (Pa);
supplyPressureSetPointValue float[0.00,...] (Pa);
exhaustPressureValue float[0.00,...] (Pa);
exhaustPressureSetPointValue float[0.00,...] (Pa);
workingLevelSetPointLevel float[0.00,100.00] (%); supplyState
enum[0=off,1=on] (); supplyWorkingLevel float[0.00,100.00] (%);
supplyFlapOpeningLevel float[0.00,100.00] (%); exhaustState
enum[0=off,1=on] (); exhaustWorkingLevel float[0.00,100.00] (%);
exhaustFlapOpeningLevel float[0.00,100.00] (%); currentState
enum[0=off,1=on] (); workingMode
enum[0=off,1=heating,2=cooling,3=auto] (); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); ",
602             "type": "STRING",
603             "permission": "READ"
604         },
605         "scmd": {
606             "description": "Summary of the commands and their formats",
607             "format": "0|1|T1.1|P2.2|F3.3|Q4.4|H5.5|M0|M1|M2|M3
(Off|On|Temperature|Power|MinFlap|Quality|Humidity|ModeOff|ModeHeating
|ModeCooling|ModeAuto)",
608             "type": "STRING",
609             "permission": "WRITE",
610             "index": 1000070
611         }
612     },
613     "group0": {
614         "name": "Grp 1",
615         "sumstate": {
616             "description": "Summary of the group states and their formats",
617             "format": "State[0=Off|1=On]",
618             "type": "AO",
619             "permission": "READ",
620             "index": 10000000
621         }
622     }
623 },
624 "saunas": {
625     "item0": {
626         "name": "Sauna 1",
627         "page": "Sauna",
628         "sumstate": {
629             "description": "Summary of the states and their formats",
630             "format": "workingMode enum[0=off,1=on/finnish,2=bio] ();
currentState enum[0=off,1=on] (); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); errorState
enum[0=noError,1=error] (); roomTemperatureValue
float[0.00,100.00] (°C); roomTemperatureSetPointValue
float[0.00,1000.00] (°C); burnerTemperatureValue
float[0.00,1000.00] (°C); roomRelativeHumidityLevel
float[0.00,100.00] (%); roomRelativeHumiditySetPointLevel
float[0.00,100.00] (%); elementInfo

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631         enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); ",
632         "type": "STRING",
633         "permission": "READ"
634     },
635     "scmd": {
636         "description": "Summary of the commands and their formats",
637         "format": "0|1|2 (Off|On/Finnish|Bio)",
638         "type": "STRING",
639         "permission": "WRITE",
640         "index": 1100070
641     }
642 },
643 "group0": {
644     "name": "Grp 1",
645     "sumstate": {
646         "description": "Summary of the group states and their formats",
647         "format": "State[0=Off|1=On]",
648         "type": "AO",
649         "permission": "READ",
650         "index": 11000000
651     }
652 },
653 "pools": {
654     "item0": {
655         "name": "Pool",
656         "page": "Pool",
657         "sumstate": {
658             "description": "Summary of the states and their formats",
659             "format": "workingMode enum[0=off,1=restMode,2=bathing] ();
660 filteringState enum[0=off,1=on] (); backwashState enum[0=off,1=on] ();
661 elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] ();
662 waterTemperatureValue float[0.00,100.00] (°C); ",
663             "type": "STRING",
664             "permission": "READ"
665         },
666         "scmd": {
667             "description": "Summary of the commands and their formats",
668             "format": "M0|M1|M2|C1|C2|C3|T100
669 (Off|Standby|Active|CleanFilter1|CleanFilter2|CleanFilter3|Temperature
670 )",
671             "type": "STRING",
672             "permission": "WRITE",
673             "index": 1150070
674         }
675     },
676     "group0": {
677         "name": "Grp 1",
678         "sumstate": {
679             "description": "Summary of the group states and their formats",
680             "format": "State[0=Off|1=On]",
681             "type": "AO",
682             "permission": "READ",
683             "index": 11500000
684         }
685     }
686 },
687 "trends": {
688     "item0": {
689         "name": "Temperatures",
690         "page": "Heating pump",
691         "sumstate": {
692             "description": "Summary of the states and their formats",
693             "format": "variable1State enum[0=off,1=on] (); variable1Type
694 enum[0=logic,1=dIn,2=dOut,3=aIn,4=aOut,5=aIn2_10,6=pt100,7=pt1000] ();
695 variable1Name string[name] (); variable1Value float[...,...] (unit1);
696 variable1Unit string[unitName] (I.S.); variable2State
697 enum[0=off,1=on] (); variable2Type
698 enum[0=logic,1=dIn,2=dOut,3=aIn,4=aOut,5=aIn2_10,6=pt100,7=pt1000] ();
699 variable2Name string[name] (); variable2Value float[...,...] (unit2);
700 variable2Unit string[unitName] (I.S.); variable3State
701 enum[0=off,1=on] (); variable3Type
702 enum[0=logic,1=dIn,2=dOut,3=aIn,4=aOut,5=aIn2_10,6=pt100,7=pt1000] ();

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        variable3Name string[name](); variable3Value float[...,...](unit3);
        variable3Unit string[unitName](I.S.); variable4State
        enum[0=off,1=on](); variable4Type
        enum[0=logic,1=dIn,2=dOut,3=aIn,4=aOut,5=aIn2_10,6=pt100,7=pt1000]();
        variable4Name string[name](); variable4Value float[...,...](unit4);
        variable4Unit string[unitName](I.S.); elementInfo
        enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm](); ",
689     "type": "STRING",
690     "permission": "READ"
691 },
692     "scmd": {
693         "description": "Summary of the commands and their formats",
694         "format": "S44.7 (SetpointValue)",
695         "type": "STRING",
696         "permission": "WRITE",
697         "index": 1350070
698     }
699 },
700     "group0": {
701         "name": "Grp 1",
702         "sumstate": {
703             "description": "Summary of the group states and their formats",
704             "format": "State[0=Off|1=On]",
705             "type": "AO",
706             "permission": "READ",
707             "index": 13500000
708         }
709     }
710 },
711     "emobils": {
712         "item0": {
713             "name": "Chragin station 1",
714             "page": "E-Mobility",
715             "sumstate": {
716                 "description": "Summary of the states and their formats",
717                 "format": "pluggedState enum[0=notPlugged,1=plugged]();
        chargeState enum[0=off,1=on,2=paused](); chargeRequestState
        enum[0=off,1=on](); currentChargingPowerValue
        float[1.00,100.00](kW); maximumChargingPowerValue
        float[1.00,100.00](kW); chargingPowerSetPointValue
        float[1.00,100.00](kW); electricCurrentSetPointValue int[0,...](A);
        chargeUserName string[name](); chargeDurationTime
        string[hh:mm:ss](); currentChargingEnergyValue float[0.00,...](kWh);
        elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm]();
        chargeStartTime string[hh:mm:ss](); chargeUserIndex
        int[1,20](userID); ",
718                 "type": "STRING",
719                 "permission": "READ"
720             },
721             "scmd": {
722                 "description": "Summary of the commands and their formats",
723                 "format": "1|-1|P10|R4|LO|LI4|CS4.6 (Start Charge|Stop
        Charge|Start Partial Energy Charge [kWh]|Reset User Charging
        History[1..20]|Logout User|Login User [1..20]|Charge Power Setpoint
        [kW])",
724                 "type": "STRING",
725                 "permission": "WRITE",
726                 "index": 1400070
727             }
728         },
729         "group0": {
730             "name": "Grp 1",
731             "sumstate": {
732                 "description": "Summary of the group states and their formats",
733                 "format": "State[0=Off|1=On]",
734                 "type": "AO",
735                 "permission": "READ",
736                 "index": 14000000
737             }
738         }
739     },
740     "hotwater_systems": {
741         "item0": {

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742     "name": "Warm water",
743     "page": "Storage",
744     "sumstate": {
745         "description": "Summary of the states and their formats",
746         "format": "deviceModel
enum[0=individual,1=buderus,2=stiebel,3=tecalor,4=vaillant]();
coolingModeState enum[0=off,1=on](); waterTemperatureSetPointValue
float[-100.00,100.00](°C); waterTemperatureTopValue
float[-100.00,100.00](°C); waterTemperatureBottomValue
float[-100.00,100.00](°C); collectorTemperatureValue
float[-100.00,100.00](°C); currentState enum[0=off,1=on]();
elementInfo enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm](); ",
747         "type": "STRING",
748         "permission": "READ"
749     },
750     "scmd": {
751         "description": "Summary of the commands and their formats",
752         "format": "0|1|T100 (Off|On|Temperature[°C])",
753         "type": "STRING",
754         "permission": "WRITE",
755         "index": 1950070
756     }
757 },
758 "group0": {
759     "name": "Grp 1",
760     "sumstate": {
761         "description": "Summary of the group states and their formats",
762         "format": "State[0=Off|1=On]",
763         "type": "AO",
764         "permission": "READ",
765         "index": 19500000
766     }
767 },
768 },
769 "hotwater_circulations": {
770     "item0": {
771         "name": "Hot water circulation",
772         "page": "Circulation",
773         "sumstate": {
774             "description": "Summary of the states and their formats",
775             "format": "pumpType enum[0=on/off,1=pwm,2=0..100%](); currentState
enum[0=off,1=on](); returnWaterTemperatureValue
float[0.00,100.00](°C); returnWaterTemperatureSetPointValue
float[0.00,100.00](°C); elementInfo
enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm](); ",
776             "type": "STRING",
777             "permission": "READ"
778         },
779         "scmd": {
780             "description": "Summary of the commands and their formats",
781             "format": "0|1 (Off|On)",
782             "type": "STRING",
783             "permission": "WRITE",
784             "index": 2000070
785         }
786     },
787     "group0": {
788         "name": "Grp 1",
789         "sumstate": {
790             "description": "Summary of the group states and their formats",
791             "format": "State[0=Off|1=On]",
792             "type": "AO",
793             "permission": "READ",
794             "index": 20000000
795         }
796     }
797 },
798 "stoves": {
799     "item0": {
800         "name": "Fire place",
801         "page": "Fire places",
802         "sumstate": {
803             "description": "Summary of the states and their formats",

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804         "format": "temperatureValue float[20.00,1000.00] (°C);
            flapOpeningLevel float[0.00,100.00] (%); currentState
            enum[1=stoveIdle,5=enkindleRecognized->closeDoor,7=enkindleRecognized,
            9=activeTempReached,11=residueFinished,13=stoveCooledOff] ();
            workingState enum[0=idle,1=active] (); elementInfo
            enum[0=ok,1>manualOff,2>manualOn,3=locked,4=alarm] (); ",
805         "type": "STRING",
806         "permission": "READ"
807     },
808 },
809     "group0": {
810         "name": "Grp 1",
811         "sumstate": {
812             "description": "Summary of the group states and their formats",
813             "format": "State[0=Off|1=On]",
814             "type": "AO",
815             "permission": "READ",
816             "index": 20500000
817         }
818     },
819 },
820     "door_intercom": {
821         "item0": {
822             "name": "Entrance",
823             "page": "General",
824             "imagepath": "
            http://192.168.1.220/api/camera/snapshot?width=640&height=480",
825             "streampath": "
            http://192.168.1.220/api/camera/snapshot?width=640&height=480&fps=15",
826             "sumstate": {
827                 "description": "Summary of the states and their formats",
828                 "format": "soundMode enum[0=mute,1=ringing] (); actionOnRingState
            enum[0=off,1=on]; connectionState
            enum[-6=errorProcessing,-5=errorAuthorization,-4=voIPNotActive,-3=erro
            rFavCheck,-2=errorProvisioning,-1=errorConnection,0=notSet,1=ok] ();
            missedCallsValue int[0,65535] (); lastMissedCallDate
            string[dd.mm.yyyy hh:mm:ss] (); ",
829                 "type": "STRING",
830                 "permission": "READ"
831             },
832             "scmd": {
833                 "description": "Summary of the commands and their formats",
834                 "format": "O|M1|M0|A1|A0
            (O=Open|M1=Ringing|M0=Mute|A1=ActionOn|A0=ActionOff)",
835                 "type": "STRING",
836                 "permission": "WRITE",
837                 "index": 2100070
838             }
839         },
840     "group0": {
841         "name": "Grp 1",
842         "sumstate": {
843             "description": "Summary of the group states and their formats",
844             "format": "State[0=Off|1=On]",
845             "type": "AO",
846             "permission": "READ",
847             "index": 21000000
848         },
849         "scmd": {
850             "description": "Summary of the group commands and their formats",
851             "format": "OP1|OP0|A1|A0 (ModeRinging|ModeMute|ActionOn|ActionOff)",
852             "type": "AV",
853             "permission": "WRITE",
854             "index": 21000001
855         }
856     },
857 },
858 }

```