

[HB3] 3rd party Local API

Discovery

device discovery is implemented via UDP packets on port 49152

request

destination IP: 255.255.255.255
destination port: 49152
content: "RENSON_DEVICE/JSON?"

response

```
{
  "Device": string,
  "Firmwareversion": string,
  "IP": string,
  "MAC": string,
  "serial": string,
  "warranty_number": string,
  "scope": string,
  "Description": string,
  "local API version": string
}
```

example

```
{
  "Device": "HEALTHBOX3",
  "Firmwareversion": "1.0.12",
  "IP": "192.168.0.24",
  "MAC": "DE:AD:CA:FE:BE:BA",
  "serial": "123456789",
  "warranty_number": "11121314",
  "scope": "ventilation"
  "Description": "Healthbox 3.0",
  "local API version": "v1"
}
```

/v1/api/boost/{room_id}

allowed methods

GET	retrieve parameter values
PUT	update parameter values

resource definition

```
{
  "enable": boolean,           //enable boost for this room
  "level": double,             //boost level in percentage of nominal flow
  rate
  "timeout": integer,          //timeout in seconds
  "remaining": integer          //remaining time in seconds
}
```

examples

activate boost function

request

```
PUT "http://{HEALTHBOX_IP}/v1/api/boost/{ROOM_ID}"
Content-Type: application/json
{
  "enable": true,
  "level": 175,
  "timeout": 900
}
```

response

```
200 OK
Content-Type: application/json
{
  "enable": true,
  "level": 175,
  "timeout": 900,
  "remaining": 263
}
```

report boost function status

request

```
GET "http://{HEALTHBOX_IP}/v1/api/boost/{ROOM_ID}"
```

response

```
200 OK
Content-Type: application/json
{
  "enable": true,
  "level": 175,
  "timeout": 900,
  "remaining": 263
}
```

/v1/api/data/current

allowed methods

GET - no subpath urls available

resource definition

```
{
  "device_type": string,           //device type
  "description": string,           //device commercial description (example:
  "Healthbox 3.0")
  "serial": string,                //device serial
  "warranty_number": string        //warranty number
  "global": {
    "parameter": {
      "<name>": {                  //name of the parameter
        "unit": string,           //unit of the parameter
        "value": boolean|float|string //value of the parameter
      }
    }
  },
  "room": [
    {
      "id" : integer,             //identifier of the room
      "name": string,             //user name for the room
      "type": string,             //room type
      "parameter": {
        "<name>": {                //name of the parameter
          "unit": string,         //unit of the parameter
          "value": boolean|float|string //value of the parameter
        },
        "actuator": [
          {
            "name": string,       //user name for actuator
            "type": string,       //type of actuator
            "basic id": integer,  //basic id of actuator
            "parameter": {
```

```

        "<name>": {
            "unit": string,
            "value": double|string|boolean
        }
    }
}
],
},
],
"sensor": [
    {
        "name": string,
        "type": string,
        "basic id": integer,
        "parameter": {
            "<name>": {
                "unit": string,
                "value": double|string|boolean
            }
        }
    }
]

```

```
}
]
}
```

example 1:

request

```
GET "http://{HEALTHBOX_IP}/v1/api/data/current"
```

response

```
{
  "global": {
    "device_type": "HEALTHBOX3",
    "description": "Healthbox 3.0)",
    "serial": "000125485",
    "warranty_number": "11121314",
    "parameter": {
      "device name": {
        "unit": "",
        "value": "mijn huis"
      },
      "street": {
        "unit": "",
        "value": "Maalbeekstraat 10"
      },
      "postal code": {
        "unit": "",
        "value": "8790"
      },
      "city": {
        "unit": "",
        "value": "Waregem"
      },
      "country": {
        "unit": "",
        "value": "Belgium"
      }
    }
  },
  "room": [
    {
      "id": 1,
      "name": "Stacey's room",
      "type": "BathRoom",
      "parameter": {
        "subzone": {
          "unit": "",

```

```

        "value":
"["type": "BathRoom", "flowrate": 50}, {"type": "Toilet", "flowrate": 25}]"
    },
    "valve": {
        "unit": "",
        "value": "1.2"    //1.2 stands for the second valve on a
collector connected to opening 1
    },
    "nominal": {
        "unit": "m³/h",
        "value": 75
    }
},
"actuator": [
    {
        "name": "<Healtbox3>[192.168.0.1]<air valve>[12]",
        "type": "air valve",
        "basic id": 12,
        "parameter": {
            "flow_rate": {
                "unit": "m³/h",
                "value": "50"
            },
            "offset": {
                "unit": "pct",
                "value": "5"
            }
        }
    }
]
}
],
"sensor": [
    {
        "name": "<Healtbox3>[192.168.0.1]<global air quality index>[0]",
        "type": "global air quality index",
        "basic id": 0,
        "parameter": {
            "index": {
                "unit": "",
                "value": 80
            },
            "main_pollutant": {    //Only when AQI > 40 a cause must be given
                "unit": "",
                "value": "indoor CO2"
            }
        }
    }
]
"room": {
    "unit": "",
    "value": "Stacey's room"
}
}

```

```
}  
]  
}
```

example 2:

request

```
GET "http://{HEALTHBOX_IP}/v1/api/data/current"
```

response

```
{  
  "device_type": "HEALTHBOX3",  
  "description": "Healthbox 3.0",  
  "serial": "XJB015240332149",  
  "warranty_number": "11121314",  
  "global": {  
    "parameter": {  
      "city": {  
        "unit": "",  
        "value": "Waregem"  
      },  
      "country": {  
        "unit": "",  
        "value": "Belgium"  
      },  
      "device name": {  
        "unit": "",  
        "value": "Cygnus Homes Healthbox 3.0"  
      },  
      "postal code": {  
        "unit": "",  
        "value": "8790"  
      },  
      "street": {  
        "unit": "",  
        "value": "Maalbeekstraat 10"  
      }  
    }  
  },  
  "room": [{  
    "id": 1,  
    "name": "My bathroom",  
    "type": "BathRoom",  
    "parameter": {  
      "valve": {  
        "unit": "",  
        "value": "1"  
      }  
    }  
  }  
}
```

```

    },
    "nominal": {
      "unit": "m³/h",
      "value": 50
    },
    "waranty_number": {
      "unit": "",
      "value": "Proto 001"
    }
  },
  "actuator": [{
    "name": "air valve[1]_HealthBox 3[Healthbox3]",
    "type": "air valve",
    "basic id": 1,
    "parameter": {
      "unit": "m³/h",
      "value": "5"
    }
  }
], {
  "id": 2,
  "name": "My relaxing shower",
  "type": "ShowerRoom",
  "parameter": {
    "valve": {
      "unit": "",
      "value": "2"
    },
    "nominal": {
      "unit": "m³/h",
      "value": 50
    },
    "waranty_number": {
      "unit": "",
      "value": "Proto 002"
    }
  },
  "actuator": [{
    "name": "air valve[2]_HealthBox 3[Healthbox3]",
    "type": "air valve",
    "basic id": 2,
    "parameter": {
      "unit": "m³/h",
      "value": "50"
    }
  }
], {
  "id": 3,
  "name": "My darling's kitchen",
  "type": "Kitchen",
  "parameter": {
    "valve": {
      "unit": "",

```



```

    "value": "3"
  },
  "nominal": {
    "unit": "m³/h",
    "value": 75
  },
  "waranty_number": {
    "unit": "",
    "value": "Proto 003"
  }
},
"actuator": [{
  "name": "air valve[3]_HealthBox 3[Healthbox3]",
  "type": "air valve",
  "basic id": 3,
  "parameter": {
    "unit": "m³/h",
    "value": "7.5"
  }
}]
}, {
  "id": 4,
  "name": "My cosy chamber",
  "type": "toilet",
  "parameter": {
    "valve": {
      "unit": "",
      "value": "4"
    },
    "nominal": {
      "unit": "m³/h",
      "value": 25
    },
    "waranty_number": {
      "unit": "",
      "value": "Proto 004"
    }
  },
  "actuator": [{
    "name": "air valve[4]_HealthBox 3[Healthbox3]",
    "type": "air valve",
    "basic id": 4,
    "parameter": {
      "unit": "m³/h",
      "value": "25"
    }
  }]
}, {
  "id": 5,
  "name": "Stacey's Room",
  "type": "BedRoom",
  "parameter": {
    "valve": {

```

```
"unit": "",
"value": "5"
},
"nominal": {
  "unit": "m³/h",
  "value": 30
},
"waranty_number": {
  "unit": "",
  "value": "Proto 005"
}
},
"actuator": [{
  "name": "air valve[5]_HealthBox 3[Healthbox3]",
  "type": "air valve",
  "basic id": 5,
  "parameter": {
    "unit": "m³/h",
    "value": "3"
  }
}]
```

```
} 1  
} 1  
}
```