



### Step 1. List device IDs

[API Call](#)

[Answer Received](#)

### Step 2.1 List item IDs

[API Call](#)

[Answer Received](#)

### Step 2.2 Identify item IDs from the device ID

[Set Restrictions](#)

[API Request](#)

[Example weekly pin code restriction](#)

[API Call](#)

[Answer Received](#)

[Daily restrictions](#)

[API Request](#)

[Example daily pin code restriction](#)

[API Call](#)

[Answer Received](#)

[Remove restrictions](#)

[API Request](#)

[Example remove restriction from pin code](#)

[API Call](#)

[Answer Received](#)

[Add new pin code](#)

[API Request](#)

[Example pin code addition](#)

[API Call](#)

[Answer Received](#)

**Step 1.** List device IDs to identify the door lock you want to work on. Let's take "61010b09222a6813f624e7c0" as an example.

**API Call**

```
{
  "method": "hub.devices.list",
  "id": "_AUTO_567533",
  "params": {
    "withCameras": true
  }
}
```

**Response:****Answer Received**

```
Answer received: {
  "api": "1.0",
  "error": null,
  "id": "_AUTO_567533",
  "method": "hub.devices.list",
  "result": {
    "devices": [
      {
        "_id": "60fac8e7222a681c1e872871",
        "batteryPowered": false,
        "category": "siren",
        "deviceTypeId": "e550_siren",
        "gatewayId": "60fac8e7222a681c1e872870",
        "info": {},
        "name": "Controller Siren",
        "parentDeviceId": "",
        "persistent": true,
        "reachable": true,
        "ready": true,
        "roomId": "",
        "security": "high",
```

```

        "status": "idle",
        "subcategory": "",
        "type": "siren"
    },
    {
        "_id": "60facb2d222a682accd1ced8",
        "batteryPowered": false,
        "category": "switch",
        "deviceId": "99_20562_12345",
        "firmware": [
            {
                "id": "us.99.29241.0",
                "version": "5.22"
            }
        ],
        "gatewayId": "60fac8e9222a681c1e872877",
        "info": {
            "firmware.stack": "4.54",
            "hardware": "255",
            "manufacturer": "GE/Jasco",
            "model": "28172/ZW4104",
            "protocol": "zwave",
            "zwave.node": "73",
            "zwave.smartstart": "no"
        },
        "name": "Plug-in Smart Switch",
        "parentDeviceId": "",
        "persistent": false,
        "reachable": true,
        "ready": true,
        "roomId": "",
        "security": "no",
        "status": "idle",
        "subcategory": "interior_plugin",
        "type": "switch.outlet"
    },

```

```
{
  "_id": "60facb4e222a682accd1cedc",
  "armed": true,
  "batteryPowered": true,
  "category": "security_sensor",
  "deviceId": "330_4_2",
  "firmware": [
    {
      "id": "us.330.4_2.0",
      "version": "10.1"
    }
  ],
  "gatewayId": "60fac8e9222a681c1e872877",
  "info": {
    "firmware.stack": "4.5",
    "hardware": "2",
    "manufacturer": "Ecolink",
    "model": "DW-ZWAVE2.5-ECO",
    "protocol": "zwave",
    "zwave.node": "74",
    "zwave.smartstart": "no"
  },
  "name": "Door/Window Sensor",
  "parentDeviceId": "",
  "persistent": false,
  "reachable": false,
  "ready": true,
  "roomId": "",
  "security": "no",
  "status": "idle",
  "subcategory": "door",
  "type": "sensor"
},
{
  "_id": "60facb7b222a682accd1cee5",
  "armed": true,
```

```

    "batteryPowered": true,
    "category": "security_sensor",
    "deviceId": "330_5_16",
    "firmware": [
      {
        "id": "us.330.5_16.0",
        "version": "10.9"
      }
    ],
    "gatewayId": "60fac8e9222a681c1e872877",
    "info": {
      "firmware.stack": "4.38",
      "hardware": "255",
      "manufacturer": "Ecolink",
      "model": "FLF-ZWAVE5",
      "protocol": "zwave",
      "zwave.node": "75",
      "zwave.smartstart": "no"
    },
    "name": "Flood Sensor",
    "parentDeviceId": "",
    "persistent": false,
    "reachable": false,
    "ready": true,
    "roomId": "",
    "security": "no",
    "status": "idle",
    "subcategory": "leak",
    "type": "sensor"
  },
  {
    "_id": "60facb7c222a682accd1ceec",
    "batteryPowered": true,
    "category": "state_sensor",
    "deviceId": "330_5_16",
    "gatewayId": "60fac8e9222a681c1e872877",

```

```

    "info": {
      "manufacturer": "Ecolink",
      "model": "FLF-ZWAVE5",
      "protocol": "zwave",
      "zwave.node": "75",
      "zwave.smartstart": "no"
    },
    "name": "Freeze State Sensor",
    "parentDeviceId": "60facb7b222a682accd1cee5",
    "persistent": false,
    "reachable": false,
    "ready": true,
    "roomId": "",
    "security": "no",
    "status": "idle",
    "subcategory": "freeze",
    "type": "sensor"
  },
  {
    "_id": "610010cb222a6813f624e7b2",
    "batteryPowered": true,
    "category": "door_lock",
    "deviceTypeId": "265_2_0",
    "firmware": [
      {
        "id": "us.265.2_0.0",
        "version": "25.24"
      }
    ],
    "gatewayId": "60fac8e9222a681c1e872877",
    "info": {
      "firmware.stack": "3.34",
      "hardware": "0",
      "manufacturer": "Vision",
      "model": "YRD220-ZW",
      "protocol": "zwave",

```

```

        "zwave.node": "81",
        "zwave.smartstart": "no"
    },
    "name": "Touchscreen Deadbolt Lock",
    "parentDeviceId": "",
    "persistent": false,
    "reachable": true,
    "ready": true,
    "roomId": "",
    "security": "middle",
    "status": "idle",
    "subcategory": "",
    "type": "doorlock"
},
{
    "_id": "61010b09222a6813f624e7c0",
    "batteryPowered": true,
    "category": "door_lock",
    "deviceTypeId": "297_32772_1536",
    "firmware": [
        {
            "id": "us.297.769.0",
            "version": "1.78"
        },
        {
            "id": "us.297.32772.1",
            "version": "27.0"
        }
    ],
    "gatewayId": "60fac8e9222a681c1e872877",
    "info": {
        "firmware.stack": "4.24",
        "hardware": "255",
        "manufacturer": "Yale",
        "model": "YRD216",
        "protocol": "zwave",

```

```

        "zwave.node": "82",
        "zwave.smartstart": "no"
    },
    "name": "Push Button Deadbolt",
    "parentDeviceId": "",
    "persistent": false,
    "reachable": true,
    "ready": true,
    "roomId": "",
    "security": "middle",
    "status": "idle",
    "subcategory": "",
    "type": "doorlock"
}
]
},
"sender": {
    "conn_id": "48e3ca47-6d55-4caf-b914-ddcb29ab1689",
    "type": "ui"61010b0a222a6813f624e7ca
}
}

```

## Step 2.1 List item IDs

### API Call

```

{
    "method": "hub.items.list",
    "id": "_ID_",
    "params": {}
}

```

### Response:

### Answer Received

Answer received: {



```
"api": "1.0",
"error": null,
"id": "_ID_",
"method": "hub.items.list",
"result": {
  "items": [
    {
      "_id": "60fac8e7222a681c1e872872",
      "deviceId": "60fac8e7222a681c1e872871",
      "hasGetter": true,
      "hasSetter": true,
      "name": "switch",
      "show": true,
      "value": false,
      "valueFormatted": "false",
      "valueType": "bool"
    },
    {
      "_id": "60fac8e7222a681c1e872873",
      "deviceId": "60fac8e7222a681c1e872871",
      "hasGetter": true,
      "hasSetter": true,
      "name": "sound_volume",
      "show": true,
      "value": 100,
      "valueFormatted": "100",
      "valueType": "int"
    },
    {
      "_id": "60fac8e7222a681c1e872874",
      "deviceId": "60fac8e7222a681c1e872871",
      "elementType": "sound_info",
      "hasGetter": true,
      "hasSetter": false,
      "name": "sound_list",
      "show": true,
```

```

        "value": {
            "1": {
                "duration": 5,
                "name": "Default Siren"
            }
        },
        "valueFormatted": "",
        "valueType": "dictionary"
    },
    {
        "_id": "60fac8e7222a681c1e872875",
        "deviceId": "60fac8e7222a681c1e872871",
        "hasGetter": true,
        "hasSetter": true,
        "name": "sound_select",
        "show": true,
        "value": 1,
        "valueFormatted": "1",
        "valueType": "int"
    },
    {
        "_id": "60facb2d222a682accd1ced9",
        "deviceId": "60facb2d222a682accd1ced8",
        "hasGetter": true,
        "hasSetter": true,
        "name": "switch",
        "show": true,
        "value": false,
        "valueFormatted": "false",
        "valueType": "bool"
    },
    {
        "_id": "60facb4e222a682accd1cedd",
        "deviceId": "60facb4e222a682accd1cedc",
        "hasGetter": true,
        "hasSetter": true,

```

```

        "name": "basic",
        "show": true,
        "value": false,
        "valueFormatted": "false",
        "valueType": "bool"
    },
    {
        "_id": "60facb4e222a682accd1cede",
        "deviceId": "60facb4e222a682accd1cedc",
        "enum": [
            "unknown",
            "no_tampering_cover",
            "tampering_cover"
        ],
        "hasGetter": true,
        "hasSetter": false,
        "name": "tampering_cover_alarm",
        "show": true,
        "value": "tampering_cover",
        "valueFormatted": "tampering_cover",
        "valueType": "token"
    },
    {
        "_id": "60facb4e222a682accd1cedf",
        "deviceId": "60facb4e222a682accd1cedc",
        "hasGetter": true,
        "hasSetter": false,
        "name": "battery",
        "show": true,
        "value": 61,
        "valueFormatted": "61",
        "valueType": "int"
    },
    {
        "_id": "60facb4e222a682accd1cee0",
        "deviceId": "60facb4e222a682accd1cedc",

```

```

    "enum": [
      "unknown",
      "battery_maintenance_ok",
      "replace_battery_now"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "battery_maintenance_state",
    "show": true,
    "value": "battery_maintenance_ok",
    "valueFormatted": "battery_maintenance_ok",
    "valueType": "token"
  },
  {
    "_id": "60facb4e222a682accd1cee1",
    "deviceId": "60facb4e222a682accd1cedc",
    "enum": [
      "unknown",
      "dw_is_opened",
      "dw_is_closed"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "dw_state",
    "show": true,
    "value": "dw_is_opened",
    "valueFormatted": "dw_is_opened",
    "valueType": "token"
  },
  {
    "_id": "60facb4e222a682accd1cee2",
    "deviceId": "60facb4e222a682accd1cedc",
    "hasGetter": true,
    "hasSetter": false,
    "name": "security_threat",
    "show": true,

```

```

        "value": true,
        "valueFormatted": "true",
        "valueType": "bool"
    },
    {
        "_id": "60facb7b222a682accd1cee6",
        "deviceId": "60facb7b222a682accd1cee5",
        "enum": [
            "unknown",
            "no_water_leak",
            "water_leak_detected"
        ],
        "hasGetter": true,
        "hasSetter": false,
        "name": "water_leak_alarm",
        "show": true,
        "value": "no_water_leak",
        "valueFormatted": "no_water_leak",
        "valueType": "token"
    },
    {
        "_id": "60facb7c222a682accd1cee7",
        "deviceId": "60facb7b222a682accd1cee5",
        "hasGetter": true,
        "hasSetter": false,
        "name": "battery",
        "show": true,
        "value": 99,
        "valueFormatted": "99",
        "valueType": "int"
    },
    {
        "_id": "60facb7c222a682accd1cee8",
        "deviceId": "60facb7b222a682accd1cee5",
        "enum": [
            "unknown",

```

```

        "no_tampering_cover",
        "tampering_cover"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "tampering_cover_alarm",
    "show": true,
    "value": "tampering_cover",
    "valueFormatted": "tampering_cover",
    "valueType": "token"
},
{
    "_id": "60facb7c222a682accd1cee9",
    "deviceId": "60facb7b222a682accd1cee5",
    "hasGetter": true,
    "hasSetter": false,
    "name": "security_threat",
    "show": true,
    "value": false,
    "valueFormatted": "false",
    "valueType": "bool"
},
{
    "_id": "60facb7c222a682accd1ceed",
    "deviceId": "60facb7c222a682accd1ceec",
    "enum": [
        "unknown",
        "no_freeze",
        "freeze_detected"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "freeze_alarm",
    "show": true,
    "value": "unknown",
    "valueFormatted": "unknown",

```

```

        "valueType": "token"
    },
    {
        "_id": "610010cb222a6813f624e7b3",
        "deviceId": "610010cb222a6813f624e7b2",
        "enum": [
            "unsecured",
            "unknown",
            "secured"
        ],
        "hasGetter": true,
        "hasSetter": true,
        "name": "door_lock",
        "show": true,
        "value": "unsecured",
        "valueFormatted": "unsecured",
        "valueType": "token"
    },
    {
        "_id": "610010cc222a6813f624e7b4",
        "deviceId": "610010cb222a6813f624e7b2",
        "elementType": "userCode",
        "elementsMaxNumber": 250,
        "hasGetter": true,
        "hasSetter": true,
        "name": "user_codes",
        "show": true,
        "userCodeModes": [
            "enabled",
            "disabled"
        ],
        "userCodeRestriction": "^\\d{4,10}$",
        "value": {
            "1": {
                "code": "7778",
                "mode": "enabled",

```

```

        "name": "test"
    },
    "2": {
        "code": "7779",
        "mode": "enabled",
        "name": "test2"
    },
    "3": {
        "code": "7777",
        "mode": "enabled",
        "name": "test3"
    }
},
"valueFormatted": "",
"valueType": "dictionary"
},
{
    "_id": "610010cc222a6813f624e7b5",
    "deviceId": "610010cb222a6813f624e7b2",
    "hasGetter": true,
    "hasSetter": true,
    "maxValue": 100,
    "minValue": 0,
    "name": "user_codes_scan_progress",
    "show": true,61010b0a222a6813f624e7ca
    "value": 100,
    "valueFormatted": "100",
    "valueType": "int"
},
{
    "_id": "610010cc222a6813f624e7b6",
    "deviceId": "610010cb222a6813f624e7b2",
    "enum": [
        "unknown",
        "manual_lock_operation",
        "manual_unlock_operation",
    ]
}

```



```

        "keypad_lock_operation",
        "keypad_unlock_operation",
        "rf_lock_operation",
        "rf_unlock_operation",
        "lock_jammed",
        "auto_lock_locked_operation",
        "valid_user_but_outside_of_schedule_operation"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "lock_operation",
    "show": true,
    "value": "manual_lock_operation",
    "valueFormatted": "manual_lock_operation",
    "valueType": "token"
},
{
    "_id": "610010cc222a6813f624e7b7",
    "deviceId": "610010cb222a6813f624e7b2",
    "enum": [
        "no_operation",
        "all_user_codes_deleted",
        "single_user_code_deleted",
        "new_user_code_added",
        "new_user_code_not_added_due_to_duplicated_code"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "user_code_operation",
    "show": true,
    "value": "no_operation",
    "valueFormatted": "no_operation",
    "valueType": "token"
},
{
    "_id": "610010cc222a6813f624e7b8",

```

```

        "deviceId": "610010cb222a6813f624e7b2",
        "hasGetter": true,
        "hasSetter": false,
        "name": "user_lock_operation",
        "show": true,
        "value": {
            "action": "unknown",
            "userId": -1
        },
        "valueFormatted": "",
        "valueType": "user_lock_operation"
    },
    {
        "_id": "610010cc222a6813f624e7b9",
        "deviceId": "610010cb222a6813f624e7b2",
        "hasGetter": true,
        "hasSetter": false,
        "name": "battery",
        "show": true,
        "value": 83,
        "valueFormatted": "83",
        "valueType": "int"
    },
    {
        "_id": "61010b09222a6813f624e7c1",
        "deviceId": "61010b09222a6813f624e7c0",
        "hasGetter": true,
        "hasSetter": false,
        "name": "battery",
        "show": true,
        "value": 100,
        "valueFormatted": "100",
        "valueType": "int"
    },
    {
        "_id": "61010b09222a6813f624e7c2",

```

```

    "deviceId": "61010b09222a6813f624e7c0",
    "enum": [
      "unsecured",
      "unknown",
      "secured"
    ],
    "hasGetter": true,
    "hasSetter": true,
    "name": "door_lock",
    "show": true,
    "value": "secured",
    "valueFormatted": "secured",
    "valueType": "token"
  },
  {
    "_id": "61010b09222a6813f624e7c3",
    "deviceId": "61010b09222a6813f624e7c0",
    "enum": [
      "unknown",
      "manual_lock_operation",
      "manual_unlock_operation",
      "keypad_lock_operation",
      "keypad_unlock_operation",
      "rf_lock_operation",
      "rf_unlock_operation",
      "lock_jammed",
      "auto_lock_locked_operation",
      "valid_user_but_outside_of_schedule_operation"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "lock_operation",
    "show": true,
    "value": "valid_user_but_outside_of_schedule_operation",
    "valueFormatted":
    "valid_user_but_outside_of_schedule_operation",

```

```

        "valueType": "token"
    },
    {
        "_id": "61010b09222a6813f624e7c4",
        "deviceId": "61010b09222a6813f624e7c0",
        "enum": [
            "no_operation",
            "all_user_codes_deleted",
            "single_user_code_deleted",
            "new_user_code_added",
            "new_user_code_not_added_due_to_duplicated_code",
            "new_program_code_entered"
        ],
        "hasGetter": true,
        "hasSetter": false,
        "name": "user_code_operation",
        "show": true,
        "value": "no_operation",
        "valueFormatted": "no_operation",
        "valueType": "token"
    },
    {
        "_id": "61010b09222a6813f624e7c5",
        "deviceId": "61010b09222a6813f624e7c0",
        "hasGetter": true,
        "hasSetter": false,
        "name": "user_lock_operation",
        "show": true,
        "value": {
            "action": "unknown",
            "userId": -1
        },
        "valueFormatted": "",
        "valueType": "user_lock_operation"
    },
    {

```

```

    "_id": "61010b09222a6813f624e7c6",
    "deviceId": "61010b09222a6813f624e7c0",
    "enum": [
        "unknown",
        "battery_maintenance_ok",
        "replace_battery_soon",
        "replace_battery_now"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "battery_maintenance_state",
    "show": true,
    "value": "unknown",
    "valueFormatted": "unknown",
    "valueType": "token"
},
{
    "_id": "61010b09222a6813f624e7c7",
    "deviceId": "61010b09222a6813f624e7c0",
    "enum": [
        "unknown",
        "no_power_applied",
        "power_applied"
    ],
    "hasGetter": true,
    "hasSetter": false,
    "name": "power_state",
    "show": true,
    "value": "unknown",
    "valueFormatted": "unknown",
    "valueType": "token"
},
{
    "_id": "61010b09222a6813f624e7c8",
    "deviceId": "61010b09222a6813f624e7c0",
    "elementType": "userCode",

```

```

"elementsMaxNumber": 250,
"hasGetter": true,
"hasSetter": true,
"name": "user_codes",
"show": true,
"userCodeModes": [
    "enabled",
    "disabled"
],
"userCodeRestriction": "^\\d{4,8}$",
"value": {
    "1": {
        "code": "1010",
        "mode": "enabled",
        "name": "Code 1"
    },
    "2": {
        "code": "2020",
        "mode": "enabled",
        "name": "Code 2"
    },
    "3": {
        "code": "3030",
        "mode": "enabled",
        "name": "Code 3"
    },
    "4": {
        "code": "0404",
        "mode": "enabled",
        "name": "Code 4"
    },
    "5": {
        "code": "5050",
        "mode": "enabled",
        "name": "Code 5"
    },
    },

```

```

        "6": {
            "code": "7644",
            "mode": "enabled",
            "name": "Code 6"
        },
        "7": {
            "code": "3075",
            "mode": "enabled",
            "name": "Code 7"
        },
        "8": {
            "code": "8000",
            "mode": "enabled",
            "name": "daily test"
        },
        "9": {
            "code": "8001",
            "mode": "enabled",
            "name": "weekly test"
        },
        "10": {
            "code": "9696",
            "mode": "enabled",
            "name": "UserCode"
        }
    },
    "valueFormatted": "",
    "valueType": "dictionary"
},
{
    "_id": "61010b0a222a6813f624e7c9",
    "deviceId": "61010b09222a6813f624e7c0",
    "hasGetter": true,
    "hasSetter": true,
    "maxValue": 100,
    "minValue": 0,

```

```

    "name": "user_codes_scan_progress",
    "show": true,
    "value": 100,
    "valueFormatted": "100",
    "valueType": "int"
  },
  {
    "_id": "61010b0a222a6813f624e7ca",
    "deviceId": "61010b09222a6813f624e7c0",
    "elementType": "array.weekly_interval",
    "elementsMaxNumberPerArray": 7,
    "hasGetter": true,
    "hasSetter": true,
    "name": "weekly_user_code_intervals",
    "show": true,
    "value": {
      "5": [
        {
          "startTime": "08:29:00",
          "stopTime": "23:36:00",
          "weekDays": [
            "sunday",
            "thursday",
            "friday",
            "saturday"
          ]
        }
      ],
      "6": [
        {
          "startTime": "11:44:00",
          "stopTime": "15:44:00",
          "weekDays": [
            "monday",
            "tuesday"
          ]
        }
      ]
    }
  }

```



```

        }
    ]
},
"valueFormatted": "",
"valueType": "dictionary"
},
{
    "_id": "61010b0a222a6813f624e7cb",
    "deviceId": "61010b09222a6813f624e7c0",
    "elementType": "array.daily_interval",
    "elementsMaxNumberPerArray": 1,
    "hasGetter": true,
    "hasSetter": true,
    "name": "daily_user_code_intervals",
    "show": true,
    "value": {
        "4": [
            {
                "startDateTime": "2021-07-22T17:35:00",
                "stopDateTime": "2021-07-23T20:35:00"
            }
        ],
        "7": [
            {
                "startDateTime": "2021-07-29T13:55:00",
                "stopDateTime": "2021-07-29T17:55:00"
            }
        ],
        "8": [
            {
                "startDateTime": "2021-07-29T13:55:00",
                "stopDateTime": "2021-07-29T17:55:00"
            }
        ]
    }
},
"valueFormatted": "",

```

```

        "valueType": "dictionary"
    },
    {
        "_id": "61010b0a222a6813f624e7cc",
        "deviceId": "61010b09222a6813f624e7c0",
        "enum": [
            "unknown",
            "keypad_idle",
            "keypad_temporary_disabled"
        ],
        "hasGetter": true,
        "hasSetter": false,
        "name": "keypad_state",
        "show": true,
        "value": "unknown",
        "valueFormatted": "unknown",
        "valueType": "token"
    }
]
},
"sender": {
    "conn_id": "48e3ca47-6d55-4caf-b914-ddcb29ab1689",
    "type": "ui"
}
}

```

**Step 2.2** Identify the item IDs below based on the device ID you obtained in [step 1](#). The item IDs we need to use in our example are:

```

array.weekly_interval : "61010b0a222a6813f624e7ca"
array.daily_interval : "61010b0a222a6813f624e7cb"
userCode : "61010b09222a6813f624e7c8"

```

**We must use the following commands with items that have restrictions:**

- [hub.item.dictionary.value.set](#) - set restrictions for existing pin code.

Weekly restrictions - Cost of weekly intervals (they're two different intervals in array):

$\text{oneShiftedWeekDayCost} * 1 + 3 * \text{oneWeekDayCost} = 5.$

So we're able to add two days or one shifted day to the weekly restrictions on the current pin code.

## API Request

```
{
  "method": "hub.item.dictionary.value.set",
  "id": "<request_id>",
  "params": {
    "_id": "<item_id>",
    "key": "<pin_code_id>",
    "element": {
      "type": "array.weekly_interval",
      "value": [
        {
          "startTime": "15:20:00",
          "stopTime": "18:40:00",
          "weekDays": [ "monday" ]
        },
        {
          "startTime": "12:20:00",
          "stopTime": "13:40:00",
          "weekDays": [ "monday", "wednesday", "saturday",
"friday" ]
        }
      ]
    }
  }
}
```

The following example shows a weekly restriction on pin code number 6:

## API Call

```
{
  "method": "hub.item.dictionary.value.set",
  "id": "<request_id>",
  "params": {
    "_id": "61010b0a222a6813f624e7ca",
    "key": "6",
    "element": {
      "type": "array.weekly_interval",
      "value": [
        {
          "startTime": "11:44:20",
          "stopTime": "15:44:20",
          "weekDays": [
            "monday",
            "tuesday"
          ]
        }
      ]
    }
  }
}
```

## Response:

## Answer Received

```
Answer received: {
  "id": "ui_broadcast",
  "msg_id": "61025fea222a68142826ecb2",
  "msg_subclass": "hub.item.dictionary.updated",
  "result": {
    "_id": "61010b0a222a6813f624e7ca",
    "deviceCategory": "door_lock",
    "deviceId": "61010b09222a6813f624e7c0",
    "deviceName": "Push Button Deadbolt",
  }
}
```

```

    "deviceSubcategory": "",
    "element": {
      "6": {
        "value": [
          {
            "startTime": "11:44:00",
            "stopTime": "15:44:00",
            "weekDays": [
              "monday",
              "tuesday"
            ]
          }
        ]
      }
    },
    "elementType": "array.weekly_interval",
    "elementsMaxNumberPerArray": 7,
    "name": "weekly_user_code_intervals",
    "notifications": null,
    "operation": "added",
    "roomName": "",
    "serviceNotification": false,
    "syncNotification": false,
    "userNotification": false,
    "valueFormatted": "",
    "valueType": "dictionary"
  }
}

```

## Daily restrictions

Cost of daily intervals (there're one interval in array) = 1.

So we're able to add 3 daily restrictions on the current pin code.

## API Request

```
{
  "method": "hub.item.dictionary.value.set",
  "id": "<request_id>",
  "params": {
    "_id": "<item_id>",
    "key": "<pin_code_id>",
    "element": {
      "type": "array.daily_interval",
      "value": [
        {
          "startDateTime": "2021-02-10T12:00:00",
          "stopDateTime": "2021-03-13T23:00:00"
        }
      ]
    }
  }
}
```

The following example shows a daily restriction on pin code number 8:

## API Call

```
{
  "method": "hub.item.dictionary.value.set",
  "id": "<request_id>",
  "params": {
    "_id": "61010b0a222a6813f624e7cb",
    "key": "8",
    "element": {
      "type": "array.daily_interval",
      "value": [
        {
          "startDateTime": "2021-07-29T11:55:47",
          "stopDateTime": "2021-07-29T14:55:47"
        }
      ]
    }
  }
}
```

```
}
}
```

## Response:

### Answer Received

```
Answer received: {
  "id": "ui_broadcast",
  "msg_id": "610253c2222a68142826ec9e",
  "msg_subclass": "hub.item.dictionary.updated",
  "result": {
    "_id": "61010b0a222a6813f624e7cb",
    "deviceCategory": "door_lock",
    "deviceId": "61010b09222a6813f624e7c0",
    "deviceName": "Push Button Deadbolt",
    "deviceSubcategory": "",
    "element": {
      "8": {
        "value": [
          {
            "startTime": "startDateTime": "2021-07-29T11:55:00",
            "stopTime": "stopDateTime": "2021-07-29T14:55:00"
          }
        ]
      }
    },
    "elementType": "array.weekly_interval",
    "elementsMaxNumberPerArray": 7,
    "name": "weekly_user_code_intervals",
    "notifications": null,
    "operation": "added",
    "roomName": "",
    "serviceNotification": false,
    "syncNotification": false,
    "userNotification": false,
    "valueFormatted": ""
  }
}
```

```

    "valueType": "dictionary"
  }
}

```

We use the following command to remove restrictions on an existing pin code:  
[hub.item.dictionary.value.remove](#)

## API Request

```

{
  "method": "hub.item.dictionary.value.remove",
  "id": "<request_id>",
  "params": {
    "_id" : "<item_id>",
    "key" : "<pin_code_id>",
  }
}

```

The following example shows how to remove pin code number 10:

## API Call

```

{
  "method": "hub.item.dictionary.value.remove",
  "id": "<request_id>",
  "params": {
    "_id" : "61010b09222a6813f624e7c8",
    "key" : 10
  }
}

```

## Response:

## Answer Received

```

Answer received: {
  "error": null,

```



```

{id": "<request_id>",
"method": "hub.item.dictionary.value.remove",
"result": {},
"sender": {
  "conn_id": "333ff39a-c2f9-4bac-83ce-092c7fb854be",
  "type": "ui"
}
}

```

We use the following command to add a new pin code: [hub.item.dictionary.value.add](#)

## API Request

```

{
  "method": "hub.item.dictionary.value.add",
  "id": "<request_id>",
  "params": {
    "_id": "item_id",
    "element": {
      "type": "string",
      "value": "some_string_value"
    }
  }
}

```

The following example shows how to add a pin code:

## API Call

```

{
  "method": "hub.item.dictionary.value.add",
  "id": "<request_id>",
  "params": {
    "_id": "61010b09222a6813f624e7c8",

```

```
    "element": {
      "type": "userCode",
      "value": {
        "code": "9696",
        "name": "UserCode"
      }
    }
  }
}
```

**Response:****Answer Received**

```
Answer received: {
  "error": null,
  "id": "<request_id>",
  "method": "hub.item.dictionary.value.add",
  "result": {},
  "sender": {
    "conn_id": "333ff39a-c2f9-4bac-83ce-092c7fb854be",
    "type": "ui"
  }
}
```