

SEALMINER®

Sealminer API

V 0.5

Date: *20260609*

Content

1	Summary	3
2	Protocol.....	3
3	Readable API	4
3.1	version	4
3.2	summary	4
3.3	config	5
3.4	devs.....	6
3.5	pool operation	7
3.5.1	pools	7
3.5.2	switchpool.....	10
3.5.3	enablepool.....	10
3.5.4	disablepool.....	11
3.5.5	addpool	11
3.5.6	removepool.....	12
3.5.7	updatepools.....	12
3.6	devdetails.....	13
3.7	stats.....	14
3.8	coin	18
3.9	restart	19
3.10	reboot	19
4	Writable API.....	20
4.1	ascset.....	20
4.1.1	suspend mining.....	20
4.1.2	resume mining	20
4.1.3	set power limit	21
4.1.4	set mining mode	21
4.1.5	set timezone.....	22
4.1.6	set preheat	23
4.1.7	set fast raise freq	23
4.1.8	help.....	24
4.1.9	set hostname.....	24
4.1.10	set network	25
4.1.11	set webpasswd	26
4.1.12	set idle-fan-timer.....	26
4.1.13	set stratum-disconnect-timeout.....	27

Revision history

Version	Date	Author	Description
V0.1		SealMiner	First version.
V0.2	2025.06.30	SealMiner	Added APIs: set hostname/set network/set webpasswd
V0.3	2025.08.18	SealMiner	Remove API: resume Added API: set idle-fan-timer
V0.4	2025.10.21	SealMiner	Updated the description for the “set mining mode” API
V0.5	2026.06.09	SealMiner	Added API: stratum-disconnect-timeout Updated APIs: “workmode/powerlimit/preheat” to automatically restart bdmminer after configuration. “network/updatepools/stratum-disconnect-timeout” to take effect immediately without restarting bdmminer. Restored API: resume (firmware 2026060101 and above)

1 Summary

This document describes the API of Sealminer. The API currently only allows read which is granted by default.

2 Protocol

The API listen port is 4028. The API command also support JSON format and return value as JSON corresponds the command which be sent for JSON.

The JSON reply format:

```
{
  "STATUS":[{
    "STATUS":"string",
    "When":number,
    "Code":number,           //error or command number.
    "Msg":"string",         //command description.
    "Description":"string"}], //badminer version.
  "CMD":[{data}],          //data for cmd.
  "id":number               //1:data completion; 0:data be truncated.
}
```

The universal error code for all command shows in following table.

Code for error	Description
14	Invalid command
23	Invalid JSON format
45	Access denied

3 Readable API

3.1 version

Request for bdmminer version.

Send:

```
{
  "command":"version"
}
```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693205317,
    "Code":22,
    "Msg":"Bdmminer versions",
    "Description":"bdminer 4.11.1"}],
  "VERSION":[{
    "Bdmminer":"4.11.1",
    "API":"3.7"}],
  "id":1
}
```

3.2 summary

The status summary of the miner, such as pool difficulty accepted, found blocks and so on.

Send:

```
{
  "command":"summary"
}
```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693206129,
    "Code":11,
    "Msg":"Summary",
    "Description":"bdminer 4.11.1"}],
  "SUMMARY":[{
    "Elapsed":15485,
```

```

    "MHS av":206852501.39,
    "MHS 5s":22683116.68,
    "MHS 1m":124393409.77,
    "MHS 5m":215309002.47,
    "MHS 15m":215820922.90,
    "Found Blocks":0,
    "Getworks":762,
    "Accepted":893,
    "Rejected":7,
    "Hardware Errors":1,
    "Utility":3.46,
    "Discarded":9037,
    "Stale":0,
    "Get Failures":0,
    "Local Work":942141,
    "Remote Failures":0,
    "Network Blocks":62,
    "Total MH":3203193072389.0000,
    "Work Utility":2889696.06,
    "Difficulty Accepted":570927998.99682081,
    "Difficulty Rejected":4012762.08745800,
    "Difficulty Stale":0.00000000,
    "Best Share":524276597,
    "Device Hardware%":0.0000,
    "Device Rejected%":0.5380,
    "Pool Rejected%":0.6979,
    "Pool Stale%":0.0000,
    "Last getwork":1693206129}],
    "id":1
}

```

3.3 config

Some miner configuration information.

Send:

```

{
    "command":"config"
}

```

Reply:

```

{
    "STATUS":[{
        "STATUS":"S",
        "When":1693206728,
        "Code":33,

```

```

    "Msg":"Bdminer config",
    "Description":"bdminer 4.11.1"}],
  "CONFIG":[{"
    "ASC Count":1,
    "PGA Count":0,
    "Pool Count":3,
    "Strategy":"Failover",
    "Log Interval":5,
    "Device Code": "",
    "OS":"Linux",
    "Hotplug":"None"}],
  "id":1
}

```

3.4 devs

Each available PGA and ASC with their details.

Send:

```

{
  "command":"devs"
}

```

Reply:

```

{
  "STATUS":[{"
    "STATUS":"S",
    "When":1693207200,
    "Code":9,
    "Msg":"1 ASC(s)",
    "Description":"bdminer 4.11.1"}],
  "DEVS":[{"
    "ASC":0,
    "Name":"K10Pro",
    "ID":0,
    "Enabled":"Y",
    "Status":"Alive",
    "Temperature":0.00,
    "MHS av":207904040.90,
    "MHS 5s":1145711626.59,
    "MHS 1m":271917190.91,
    "MHS 5m":212760277.42,
    "MHS 15m":213305168.49,
    "Accepted":959,
    "Rejected":7,
    "Hardware Errors":1,

```

```

    "Utility":3.49,
    "Last Share Pool":0,
    "Last Share Time":1693207198,
    "Total MH":3432496656090.0000,
    "Diff1 Work":799190406,
    "Difficulty Accepted":616640361.70939863,
    "Difficulty Rejected":4012762.08745800,
    "Last Share Difficulty":697871.66738400,
    "Last Valid Work":1693207198,
    "Device Hardware%":0.0000,
    "Device Rejected%":0.5021,
    "Device Elapsed":16510}],
    "id":1}

```

3.5 pool operation

3.5.1 pools

The status of each pool.

Send:

```

{
    "command":"pools"
}

```

Reply:

```

{
    "STATUS":[{
        "STATUS":"S",
        "When":1693208688,
        "Code":7,
        "Msg":"3 Pool(s)",
        "Description":"badminer 4.11.1"}],
    "POOLS":[{
        "POOL":0
        "URL":"stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb",
        "Status":"Alive",
        "Priority":0,
        "Quota":1,
        "Long Poll":"N",
        "Getworks":879,
        "Accepted":1028,
        "Rejected":8,
        "Works":1085882,
        "Discarded":10554,

```

```

    "Stale":0,
    "Get Failures":0,
    "Remote Failures":0,
    "User":"NHbNf7vCRp7zDyVPeDBNkvgnkdTTvtvKivrd.K10Pro",
    "Last Share Time":1693208639,
    "Diff1 Shares":899861008,
    "Proxy Type":"socks5:",
    "Proxy":"10.254.106.2:10808",
    "Difficulty Accepted":693583365.78687370,
    "Difficulty Rejected":4710633.75484200,
    "Difficulty Stale":0.00000000,
    "Last Share Difficulty":1395743.33476800,
    "Work Difficulty":1395743.33476800,
    "Has Stratum":true,
    "Stratum Active":true,
    "Stratum URL":"sha256asicboost.auto.nicehash.com",
    "Stratum Difficulty":1395743.33476800,
    "Has Vmask":true,
    "Has GBT":false,
    "Best Share":934535583,
    "Pool Rejected%":0.6746,
    "Pool Stale%":0.0000,
    "Bad Work":56,
    "Current Block Height":805141,
    "Current Block Version":536870912,
  }
  {
    "POOL":1
    "URL":"stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb",
    "Status":"Alive",
    "Priority":1,
    "Quota":1,
    "Long Poll":"N",
    "Getworks":11,
    "Accepted":0,
    "Rejected":0,
    "Works":0,
    "Discarded":0,
    "Stale":0,
    "Get Failures":0,
    "Remote Failures":0,
    "User":"NHbNf7vCRp7zDyVPeDBNkvgnkdTTvtvKivrd.K10Pro",
    "Last Share Time":0,
    "Diff1 Shares":0,

```

```

    "Proxy Type":"socks5:",
    "Proxy":"10.254.106.2:10808",
    "Difficulty Accepted":0.00000000,
    "Difficulty Rejected":0.00000000,
    "Difficulty Stale":0.00000000,
    "Last Share Difficulty":0.00000000,
    "Work Difficulty":348935.83369200,
    "Has Stratum":true,
    "Stratum Active":false,
    "Stratum URL": "",
    "Stratum Difficulty":0.00000000,
    "Has Vmask":true,
    "Has GBT":false,
    "Best Share":0,
    "Pool Rejected%":0.0000,
    "Pool Stale%":0.0000,
    "Bad Work":0,
    "Current Block Height":32824,
    "Current Block Version":536870912,
  }
  {
    "POOL":2,
    "URL":"stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb",
    "Status":"Alive",
    "Priority":2,
    "Quota":1,
    "Long Poll":"N",
    "Getworks":10,
    "Accepted":0,
    "Rejected":0,
    "Works":0,
    "Discarded":0,
    "Stale":0,
    "Get Failures":0,
    "Remote Failures":0,
    "User":"NHbNf7vCRp7zDyVPeDBNkvgnkTTvtvKivrd.K10Pro",
    "Last Share Time":0,
    "Diff1 Shares":0,
    "Proxy Type":"socks5:",
    "Proxy":"10.254.106.2:10808",
    "Difficulty Accepted":0.00000000,
    "Difficulty Rejected":0.00000000,
    "Difficulty Stale":0.00000000,
    "Last Share Difficulty":0.00000000,

```

```

        "Work Difficulty":348935.83369200,
        "Has Stratum":true,
        "Stratum Active":false,
        "Stratum URL": "",
        "Stratum Difficulty":0.00000000,
        "Has Vmask":true,
        "Has GBT":false,
        "Best Share":0,
        "Pool Rejected%":0.0000,
        "Pool Stale%":0.0000,
        "Bad Work":0,
        "Current Block Height":805117,
        "Current Block Version":536870912,
    }],
    "id":1
}

```

3.5.2 switchpool

Switch the specified pool number to the highest priority.

Send:

```

{
    "command": " switchpool ",
    "parameter": " pool_no",
}

```

Reply:

```

{
    "STATUS":[{
        "STATUS":"S",
        "When":1693220321,
        "Code":27,
        "Msg":"Switchingtopool
2:'stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb",
        "Description":"bminer 4.11.1"}],
    "id":1
}

```

3.5.3 enablepool

Enable the specified pool.

Send:

```

{
    "command":"enablepool",

```

```

    "parameter": " pool_no",
  }
Reply:
{
  "STATUS": [{
    "STATUS": "I",
    "When": 1693220605,
    "Code": 49,
    "Msg": "Pool 2:'stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb' already enabled",
    "Description": "bminer 4.11.1"}],
  "id": 1
}

```

3.5.4 disablepool

Disenable the specified pool.

Send:

```

{
  "command": "disablepool",
  "parameter": " pool_no",
}

```

Reply:

```

{
  "STATUS": [{
    "STATUS": "S",
    "When": 1693229561,
    "Code": 48,
    "Msg": "Disabling pool 2:'stratum+tcp://sha256asicboost.auto.nicehash.com:9200#xnsb'",
    "Description": "bminer 4.11.1"}],
  "id": 1
}

```

3.5.5 addpool

Add the specified pool.

Send:

```

{
  "command": "addpool",
  "parameter": "url,usr,password"
}

```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693227027,
    "Code":55,
    "Msg":"Added pool 6: 'stratum+tcp://stratum.antpool.com:3333'",
    "Description":"bminer 4.11.1"}],
  "id":1
}
```

3.5.6 removepool

Remove the specified pool.

Send:

```
{
  "command":"removepool",
  "parameter":"pool_no"
}
```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693229705,
    "Code":68,
    "Msg":"Removed pool 3:'stratum+tcp://stratum.antpool.com:3333'",
    "Description":"bminer 4.11.1"}],
  "id":1
}
```

3.5.7 updatepools

Update pools. The parameter include at least one pool and the priority decided by the order.

Send:

```
{
  "command":"updatepools",
  "parameter":{"pools":[{"url":"urlstr","user":"userstr","pass":"passstr"},{"url":"","user":"","pass":"passstr"}...]}"
}
```

Reply:

```
{
```

```

"STATUS":[{"STATUS":"S",
  "When":1702353587,
  "Code":200,
  "Msg":"Update pools success",
  "Description":"badminer 4.11.1"}],
"id":1
}

```

This operation takes effect immediately without restarting the badminer process.

About reply code:

Code	Description
200	Update success
201	Update fail
8	No available pool

3.6 devdetails

Each device with a list of their static details. This lists all devices including those not supported by the 'devs' command.

Send:

```

{
  "command":"devdetails"
}

```

Reply:

```

{
  "STATUS":[{"STATUS":"S",
    "When":1693215535,
    "Code":69,
    "Msg":"Device Details",
    "Description":"badminer 4.11.1"}],
  "DEVDETAILS":[{"DEVDETAILS":0,
    "Name":"K10Pro",
    "ID":0,
    "Driver":"Sealminer",
    "Kernel": "",
    "Model":"K10Pro",
    "Device Path":""}],
  "id":1
}

```

3.7 stats

This command shows the miner running data such as fan speed, work time, hashrate and so on. There only shows part of data about "STATS".

Send:

```
{
  "command":"stats"
}
```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693218429,
    "Code":70,
    "Msg":"Bdminer stats",
    "Description":"bdminer 4.11.1"}],
  "STATS":[{
    "STATS":0,
    "ID":"K10Pro0",
    "Elapsed":27784,
    "Calls":0,
    "Wait":0.000000,
    "Max":0.000000,
    "Min":99999999.000000,
    "Model":"K10Pro",
    "ASIC":"TaiShan2",
    "Firmware":"20230805FF",
    "Software Version":"4.11.1-08400-g27d4664c",
    "MAC":"32:26:ca:00:38:ea",
    "Ctrl Board":"k8_v1.6",
    "Ctrl Board SN":"H01X2P22307050006",
    "Debug":true,
    "PM State":"Running",
    "BIN Version":0,
    "BIN Number":61,
    "Chip Count":1092
    "Bad Chip Count":0
    "Mining Mode":"",
    "Temp":67,
    "Error Chip":"",
    "Stratum Disconnect":false,
    "Error Code":"",
    "Boot Time":126.725616,
    "Boot Temp":34,
```

"Coarse Tune Time":1639.452293,
"Fine Tune Time":3262.959120,
"Tune Status":4,
"Tune Time":4922.877731,
"Raise Freq Done":true,
"Raise Freq Time":325.874367,
"Custom Power Ratio":27.000000,
"Liquid Cooling":false,
"Startup Times":56,
"System Uptime":27942,
"Target Ctrl Temp":67,
"MHS(Rated)":167000000.000000,
"Hashrate Boost Ratio":0.000000,
"Profit Boost Ratio":0.000000,
"Current Electric Price":0.010000,
"Current BTC Price":29410.220703,
"Current Network Hashrate":395110000,
"Current Block Reward":6.359291,
"Profit Dayli":0.000000,
"MHS(Ideal)":167349688,
"Freq":219,
"MHS(Sample)":167000000.000000,
"MHS(1m)":167000000.000000,
"MHS(2m)":167000000.000000,
"MHS(5m)":167000000.000000,
"MHS(15m)":167000000.000000,
"MHS(30m)":167000000.000000,
"MHS(1h)":167000000.000000,
"MHS(2h)":167000000.000000,
"MHS(Avg)":166000000.000000,
"PR(1m)":99.355503,
"PR(2m)":99.316208,
"PR(5m)":99.296016,
"PR(15m)":99.320548,
"PR(30m)":99.326432,
"PR(1h)":99.340717,
"PR(2h)":99.338964,
"PR(Avg)":98.736776,
"PSU Model":"0x00000014",
"PSU Firmware":"0x0000e700",
"PSU Input Voltage":233.350000,
"PSU Output Voltage":13.665000,
"PSU Output Current":274.300000,
"PSU Input Power":3998,

"PSU Output Power":3744,
"PSU Fan Speed":7500,
"PSU Temp AMB":38,
"PSU Temp HOT":55,
"PSU Efficiency":0.936937,
"PSU Error":"0x00000000",
"Chip voltage":262,
"W/T(1m)":23.940120,
"W/T(2m)":23.940120,
"W/T(5m)":23.940120,
"W/T(15m)":23.940120,
"W/T(30m)":23.940120,
"W/T(1h)":23.940120,
"W/T(2h)":23.940120,
"W/T(Avg)":24.084337,
"Fan Count":4,
"0 PWM":207
"0 Speed":6210
"1 PWM":207
"1 Speed":6240
"2 PWM":245
"2 Speed":7170
"3 PWM":245
"3 Speed":7110
"Board Count":3
"0 SN":"H0152730628KPA526T2BV00610011"
"0 Online":true
"0 Chip Count":364
"0 Bad Chip Count":0
"0 Bad Chip Ratio":0.000000
"0 Tune Status":3
"0 MHS(Ideal)":56020782
"0 Freq":220
"0 MHS(Sample)":55715637.563455
"0 MHS(1m)":55750854.783592
"0 MHS(2m)":55894324.732760
"0 MHS(5m)":55842655.026126
"0 MHS(15m)":55881218.956472
"0 MHS(30m)":55361158.283143
"0 MHS(1h)":27962282.379783
"0 MHS(2h)":14147807.856558
"0 MHS(Avg)":54389972.772039
"0 PR(1m)":99.181424
"0 PR(2m)":99.438194

```

    "0 PR(5m)":99.345720
    "0 PR(15m)":99.414738
    "0 PR(30m)":98.483979
    "0 PR(1h)":49.447872
    "0 PR(2h)":24.723936
    "0 PR(Avg)":96.745837
    "0 Low Hash":false
    "0 Temp":62
    "0 MW":98
    "0 HW":0
    "0 ULVT PMOS(Avg)":4271
    "0 ULVT NMOS(Avg)":3102
    "0 LVT PMOS(Avg)":13299
    "0 LVT NMOS(Avg)":6106
    "0.107 Bad":0
    "0.107 Disabled":0
    "0.107 Freq":194
    "0.107 MW":0
    "0.107 HW":0
    "0.107 PR":52.105798
    "0.159 Bad":0
    "0.159 Disabled":0
    "0.159 Freq":194
    "0.159 MW":0
    "0.159 HW":0
    "0.159 PR":73.168190
    "0.331 Bad":0
    "0.331 Disabled":0
    "0.331 Freq":194
    "0.331 MW":0
    "0.331 HW":0
    "0.331 PR":75.697572
    "0.218 Bad":0
    "0.218 Disabled":0
    "0.218 Freq":221
    "0.218 MW":0
    "0.218 HW":0
    ...}],
    "id":1
}

```

Note: These reply segment have changed from Int to Boolean:

```

"Debug"
"Stratum Disconnect"
"Raise Freq Done"

```

"Liquid Cooling"

"X Online"

"X Low Hash"

These have changed from Int to String:

"PM State"

"Mining Mode"

"Tune Status"

"Raise Freq Done Reason"

"PSU Model"

"PSU Firmware"

"PSU Error"

"X Tune Status"

And the String value following:

Mining Mode:

"Low Power"

"Normal"

"High Performance"

"Ultra Low Power"

"Custom"

"Smartboost"

Tune Status:

"Tuning Idle"

"Coarse Tuning"

"Coarse Tuning Done"

"Fine Tuning"

"Fine Tuning Done"

PM State:

"Idle"

"Initializing"

"Running"

"Resuming"

"Resume Failed"

"Suspended"

"Suspending"

"Suspend Failed"

3.8 coin

Showing coin info.

Send:

```
{  
  "command": "coin"  
}
```

Reply:

```
{
  "STATUS":[{
    "STATUS":"S",
    "When":1693219649,
    "Code":78,
    "Msg":"Bdminer coin",
    "Description":"bdminer 4.11.1"}],
  "COIN":[{
    "Hash Method":"sha256",
    "Current Block Time":1693217334.313215,
    "CurrentBlockHash":
      "00000000000000000000000094ce4e22be9afef6741303a72bc319409c004de39251",
    "LP":true,
    "Network Difficulty":55621444139429.57031250}],
  "id":1
}
```

3.9 restart

Restart mining.

Send:

```
{
  "command":"restart"
}
```

Reply:

```
{
  "STATUS":"RESTART",
  "id":1
}
```

3.10 reboot

Reboot the miner.

Send:

```
{
  "command":"reboot"
}
```

Reply:

```
{
  "STATUS":"REBOOT",
  "id":1
}
```

4 Writable API

4.1 ascset

The device id is constant zero because of only one device and the subparameter must be json format.

About the reply code:

Code	Description
119	success
120	fail

4.1.1 suspend mining

Stop mining with shutting down psu output and stopping fan.

Send:

```
{
  "command":"ascset",
  "parameter":"device_id,suspend"
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1702375506,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1
}
```

4.1.2 resume mining

Resume mining.

The resume API is available starting from firmware 2026060101 and above.

(Resume API has been removed in firmware version from 2025080401 to 20260531.

Use "restart" API instead.)

Send:

```
{
  "command":"ascset",
  "parameter":"device_id,resume"
}
```

```

}
Reply:
{
  "STATUS":[{"STATUS":"S"
    "When":1702375642
    "Code":119
    "Msg":"ASC 0 set OK"
    "Description":"bminer 4.11.1"}]
  "id":1
}

```

4.1.3 set power limit

Set power limits and automatically restart mining.

Send:

```

{
  "command":"ascset",
  "parameter":"device_id,
    powerlimit,
    {"value":"power_value"} "
}

```

Reply:

```

{
  "STATUS":[{"STATUS":"S",
    "When":1702364811,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1
}

```

4.1.4 set mining mode

The system automatically restarts the bminer process to apply the new mining mode. No manual intervention is required.

Send:

```

{
  "command":"ascset",
  "parameter":"device_id,
    workmode,
    {"mode":"modestr"}
}

```

```
}
```

For the A2 series ,the “modestr” support:

```
low_power
normal
high_performance
sleep
```

For the A3&A4 series,the “modestr” support:

```
normal
high_performance
sleep
```

(Note: The “sleep” mining mode has been supported in firmware version 2025101601 and later.)

Reply:

```
{"STATUS":[{"STATUS":"S",
              "When":1702367408,
              "Code":119,
              "Msg":"ASC 0 set OK",
              "Description":"badminer 4.11.1"}],
  "id":1
}
```

4.1.5 set timezone

Send:

```
{
  "command":"ascset",
  "parameter":"device_id,timezone,
              {"value":"timezonestr"}"
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
              "When":1702374930,
              "Code":119,
              "Msg":"ASC 0 set OK",
              "Description":"badminer 4.11.1"}],
  "id":1
}
```

Note: Timezonestr like America/New_York.

4.1.6 set preheat

Send:

```
{
  "command":"ascset",
  "parameter":"device_id,preheat,
    {"enable_boot_preheat":"boolean",
     "boot_preheat_temp":"int",
     "boot_preheat_timeout":"int",
     "enable_tune_preheat":"boolean"}"
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1705410510,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"badminer 4.11.1"}],
  "id":1
}
```

Note:

“enable_tune_preheat” sets to 0 could reduce tuning time, but not always tune to the highest hashrate. And it’s meaningless to set in high temperature.

boot_preheat_timeout sets to negative number(-1) to wait until PCB temperature reach to the value of boot_preheat_temp. However, the underlying enforced timeout is 600s. And if the number is positive, the valid minimum is 300s. Any value in the range [0, 300] will be overridden to 300s.

“boot_preheat_temp” is between 0 and target boot temp(35).

4.1.7 set fast raise freq

Set whether to enable fast raise frequency. After configuration, badminer will be restarted automatically and the setting will be persisted to the configuration file.

Send:

```
{
  "command":"ascset",
  "parameter":"device_id, fast-raise-freq,
    {"value":"boolean"}"
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
```

```

        "When":1706005140,
        "Code":119,
        "Msg":"ASC 0 set OK",
        "Description":"badminer 4.11.1"}],
    "id":1}
}

```

4.1.8 help

Show all the ascset subcommand.

Send:

```

{
    "command":"ascset",
    "parameter":"device_id,
                help"
}

```

Reply:

```

{
    "STATUS":[{"STATUS":"I",
        "When":1702372738,
        "Code":118,
        "Msg":"ASC 0 set help: "Msg":"ASC 0 set help: suspend & powerlimit & workmode &
timezone & hostname & webpasswd & network & preheat & fast-raise-freq & stratum-disconnect-
timeout & miner-status""},
        "Description":"badminer 4.11.1"}],
    "id":1
}

```

4.1.9 set hostname

Set hostname.

(This feature will be supported in firmware version 2025062602 and later.)

Send:

```

{
    "command":"ascset",
    "parameter":"device_id, hostname,
                {"value":"sealminer"}"
}

```

Reply:

```

{
    "STATUS":[{"STATUS":"S",
        "When":1706005140,

```

```

        "Code":119,
        "Msg":"ASC 0 set OK",
        "Description":"badminer 4.11.1"}],
    "id":1}
}

```

4.1.10 set network

Set the network type to STATIC. Changes take effect immediately without restarting the badminer process.

(This feature will be supported in firmware version 2025062602 and later.)

Send:

```

{
    "command":"ascset",
    "parameter":"device_id,network,
        {"dhcp":"0",
        "ip":"172.18.74.179",
        "netmask":"255.255.255.0",
        "gateway":"172.18.74.254",
        "dns1":"114.114.114.114",
        "dns2":"114.114.114.114"}"
}

```

Reply:

```

{
    "STATUS":[{"STATUS":"S",
        "When":1706005140,
        "Code":119,
        "Msg":"ASC 0 set OK",
        "Description":"badminer 4.11.1"}],
    "id":1}
}

```

Set the network type to DHCP. When DHCP is set to 1, the remaining parameters are not required and will be ignored if entered. Changes take effect immediately without restarting the badminer process.

Send:

```

{
    "command":"ascset",
    "parameter":"device_id,network,
        {"dhcp":"1"}"
}

```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1706005140,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1}
}
```

4.1.11 set webpasswd

Change the login password for the miner web. Password must be 4–16 characters and can include letters, numbers, or special symbols.

(This feature will be supported in firmware version 2025062602 and later.)

Send:

```
{
  "command":"ascset",
  "parameter":{"device_id, webpasswd,
    {"user":"seal",
      "old-pass":"seal",
      "new-pass":"123456"}"
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1706005140,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1}
}
```

4.1.12 set idle-fan-timer

Configure the fan timer during device idle state.

(This feature will be supported in firmware version 2025081801 and later.)

Send:

```
{
  "command":"ascset",
  "parameter":{"device_id, idle-fan-timer,
    {"interval":"30",
      "on_duration ":"10",
      " speed ":"20"}}
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1706005140,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1}
}
```

on_duration/interval unit:second

speed: 0~100, fan speed percentage

- 1) When the **[interval]** is equeal to **[on_duration]**, the fan runs continuously at **[speed]**% of its maximum RPM during idle state.
- 2) When the **[on_duration]** is set to 0, the fan will stop during idle state.
- 3) When the **[on_duration]** is less than the **[interval]**, the fan operates intermittently during idle state:
It rotates at **[speed]**% for **[on_duration]**, and then stops for the remainder of each **[interval]** cycle.

4.1.13 set stratum-disconnect-timeout

Set the stratum disconnect timeout interval.

Send:

```
{
  "command":"ascset",
  "parameter":{"device_id, stratum-disconnect-timeout,
    {" value ":"120",}}
}
```

Reply:

```
{
  "STATUS":[{"STATUS":"S",
    "When":1706005140,
    "Code":119,
    "Msg":"ASC 0 set OK",
    "Description":"bminer 4.11.1"}],
  "id":1}
}
```

```
"id":1}  
}
```

Note: Changes take effect immediately without restarting the bdmminer process. The value is persisted to bdmminer.conf under the key "xk-h3x-stratum-disconnect-timeout".