
megacli-python Documentation

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Python library for MegaCli

This is a simple Python library that wraps around MegaCli to provide an OO interface.

```
class megacli.MegaCLI (cli_path='/opt/MegaRAID/MegaCli/MegaCli64')
```

```
    adapters ()
```

Get MegaRAID adapters

Returns a list of all installed MegaRAID adapters

Return type list

```
    bbu ()
```

Get battery backup units

Returns a list of all installed BBUs

Return type list

```
    check_init (drive, adapter)
```

Returns initialization status of a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to check
- **adapter** (*int*) – specifies the drive's controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

```
    clear_foreign (adapter)
```

Clear foreign configs from an adapter

Parameters **adapter** (*int*) – specifies the foreign config's controller

Returns MegaCLI command output

Return type string

```
    create_ld (raid_level, devices, adapter, write_policy=None, read_policy=None, cache_policy=None,
               cached_bad_bbu=None, size=None, stripe_size=None, hot_spares=[], after_ld=None,
               force=False)
```

Create a new logical drive

Parameters

- **raid_level** (*int*) – specifies the RAID level. Valid arguments: 0, 1, 5, 6 or 10.
- **devices** (*list*) – specifies the drive enclosures and slot numbers to construct the drive group. E.g.: ['E0:S0', 'E1:S1', ...]
- **write_policy** (*string*) – specifies the device write policy. Valid arguments: WT (write through) or WB (write back)
- **read_policy** (*string*) – specifies the device read policy. Valid arguments: NORA (no read ahead), RA (read ahead), ADRA (adaptive read ahead).
- **cache_policy** (*string*) – specifies the device cache policy. Valid arguments: Direct, Cached.
- **cached_bad_bbu** (*bool*) – specifies whether to use write cache when BBU is bad.

- **size** (*int*) – specifies the capacity for the virtual drive in MB.
- **stripe_size** (*int*) – specifies the stripe size. Valid arguments: 8, 16, 32, 64, 128, 256, 512, or 1024.
- **hot_spares** (*list*) – specifies the device hot spares. E.g.: ['E5:S5', ..]
- **after_ld** (*string*) – specifies which free slot should be used.
- **force** (*bool*) – whether to force or not the creation of the logical drive

Returns MegaCLI command output

Return type string

enclosures ()

Get enclosures

Returns a list of all available enclosures

Return type list

execute (*cmd*)

Execute a MegaCLI command

Parameters **cmd** (*string*) – command line arguments for MegaCLI

Returns MegaCLI command output

Return type int

logicaldrives ()

Get logical drives

Returns a list of all configured logical drives

Return type list

make_pd_good (*drive, adapter*)

Set a drive from 'bad' to 'unconfigured, good'

Parameters

- **drive** (*string*) – specifies the enclosure:drive to set to 'good'
- **adapter** (*int*) – specifies the drive's controller

Returns MegaCLI command output

Return type string

physicaldrives ()

Get physical drives

Returns a list of all installed physical drives

Return type list

remove_ld (*drive, adapter, force=False*)

Delete a logical drive

Parameters

- **drive** (*int*) – specifies the drive to remove
- **adapter** (*int*) – specifies the drive's controller
- **force** (*bool*) – specifies whether to force or not the removal of the drive

Returns MegaCLI command output

Return type string

start_init (*drive*, *adapter*, *full=False*)

Initializes a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to initialize
- **adapter** (*int*) – specifies the drive’s controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

stop_init (*drive*, *adapter*)

Stops initialization on a logical drive

Parameters

- **drive** (*string*) – specifies the logical drive to stop initialization
- **adapter** (*int*) – specifies the drive’s controller
- **full** (*bool*) – specifies whether to do a full initialize

Returns MegaCLI command output

Return type string

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