🏠 > Components and Services > DALI

Version: 1.0

DALI

The DALI component provides methods to scan and ping control gears. It uses `DALI` as RPC namespace and provides the methods:

- `DALI.GetConfig` to obtain the component's configuration
- `DALI.SetConfig` to update the component's configuration
- `DALI.GetStatus` to obtain the component's status
- `DALI.StartScan` to start scanning for control gears
- `DALI.PingKnownDevices` to ping scanned control gears

All control gears are controlled through `light:0` component.

Methods:

DALI.SetConfig

DALI component does not provide configuration

DALI.GetConfig

DALI component does not provide configuration

DALI.GetStatus

DALI.GetStatus does not expect any arguments

Find more about the status response properties in status section

DALI.StartScan

This method starts scanning the DALI bus for control gears.

DALI.StartScan does not expect any arguments

Response

The result from this method is `null` when scan is started succesfully.

If invoked while scanning is already in progress, an error is returned:

```
{
  "code": -114,
  "message": "scan is already in progress"
}
```

If invoked and internal dali bus driver can not be loaded, an error is returned:

```
{
  "code": -114,
  "message": "driver error"
}
```

DALI.PingKnownDevices

This method pings all scanned control gears. If some control gears can not be accessed, error `control_gear_missing` is raised in component status.

DALI.PingKnownDevices does not expect any arguments

Response

The result from this method is `null` when pinging is started succesfully.

If invoked while scanning is already in progress, an error is returned:

```
{
  "code": -114,
  "message": "scan is already in progress"
}
```

If invoked and internal dali bus driver can not be loaded, an error is returned:

```
{
  "code": -114,
```

```
    "message": "driver error"
  }
```

If invoked and bus has hever been scanned, an error is returned:

```
{
  "code": -114,
  "message": "bus not scanned"
}
```

If invoked and there are no control gears found during scan, an error is returned:

```
{
  "code": -114,
  "message": "there is no devices on bus"
}
```

Configuration

DALI component does not provide configuration

Status

The status of the DALI component contains information about number of scanned control gears on DALI bus and scanning process information.

Properties:

Property	Type	Description
`cg_count`	*number or null*	Number of scanned control gears (`null` if scan has never been executed)
`scan`	*object*	Information about the scan process, only present when scan is running

Property	Type	Description		
		Property	**Type**	**Description**
		`cg_count`	*number*	Number of found control gears during scan
		`started_at`	*number*	Unix timestamp, start time of the scan process (in UTC)
`errors`	*array of type string*	Shown only if at least one error is present. May contain `control_gear_missing`, `driver`		

> **⚠ INFO**
>
> * `control_gear_missing` is an error indicating that some ot the scanned control gears can not be accessed.
>
> * `driver` is an error indicating internal DALI driver error.

Notifications

This section describes notifications for events specific to the DALI component. For general information please see [this page](#).

DALI component can send notifications for the following events:

- `scan_complete`
- `ping_complete`

Examples

DALI.GetConfig example

> (i) **NOTE**
>
> *DALI component does not provide configuration*

DALI.SetConfig example

> (i) **NOTE**
>
> *DALI component does not provide configuration*

DALI.GetStatus example

DALI.GetStatus HTTP GET Request   DALI.GetStatus Curl Request   DALI.GetStatus Mos Request

```
http://192.168.33.1/rpc/DALI.GetStatus
```

Response

```
{
  "cg_count": 0
}
```

DALI.StartScan example

DALI.StartScan HTTP GET Request   DALI.StartScan Curl Request   DALI.StartScan Mos Request

```
http://192.168.33.1/rpc/DALI.StartScan
```

Response

```
null
```

DALI.PingKnownDevices example

DALI.PingKnownDevices
HTTP GET Request

DALI.PingKnownDevices
Curl Request

DALI.PingKnownDevices
Mos Request

```
http://192.168.33.1/rpc/DALI.PingKnownDevices
```

Response

```
null
```

Notifications example

- Scan complete:

Example 1:

Notification that the DALI bus scan process has finished.

```
{
    "src": "shellyddimmer-c8f09e8a2bbc",
    "dst": "user_1",
    "method": "NotifyEvent",
    "params": {
        "ts": 1631266595.43,
        "events": [
            {
                "component": "dali",
                "event": "scan_complete",
                "cg_count": 2,
                "ts": 1631266595.43
            }
        ]
    }
}
```

- Ping scanned control gears complete:

Example 2:

Notification that the DALI bus ping control gears has finished.

```json
{
    "src": "shellyddimmer-c8f09e8a2bbc",
    "dst": "user_1",
    "method": "NotifyEvent",
    "params": {
        "ts": 1631266595.43,
        "events": [
            {
                "component": "dali",
                "event": "ping_complete",
                "ts": 1631266595.43
            }
        ]
    }
}
```