

1. for 3rd_platform

- Publish a message to this topic to toggle the digital output after a delay.
- **Request Topic:** `v1/{client_id}/io/toggle`
- **Request Payload:**

```
{
  "client_token": "3bzJQ200UkLS606lMhw3muUv73ycUT7J",
  "io.DO1": 0,
  "io.DO1_toggle_ms": 150,
  "io.DO2": 1,
  "io.DO2_toggle_ms": 1500,
  "io.DO3": 0,
  "io.DO3_toggle_ms": 2000,
  "io.DO4": 1,
  "io.DO4_toggle_ms": 2500
}
```

NOTE:

- `io.DOx: value: value` is the initial value to set.
- `io.DOx_toggle_ms: delay: value` toggle delay(the delay should be greater than 10 millisecond).

Response Topic: `v1/{client_id}/io/toggle/resp:`

Success:

```
{
  "client_token": "3bzJQ200UkLS606lMhw3muUv73ycUT7J",
  "result": {
    "io.DO1": 0,
    "io.DO1_toggle_ms": 150,
    "io.DO2": 1,
    "io.DO2_toggle_ms": 1500,
    "io.DO3": 0,
    "io.DO3_toggle_ms": 2000,
    "io.DO4": 1,
    "io.DO4_toggle_ms": 2500
  }
}
```

Failure:

```
{
  "client_token": "3bzJQ200UkLS606lMhw3muUv73ycUT7J",
  "error": "invalid_parameter",
  "error_desc": "Invalid request parameter"
}
```

2. for rest api

- Use this REST API to toggle the digital output after a delay.

Request Syntax:

```
POST /v1/io/toggle HTTP/1.1
Host: {deviceIP}:{port}
Authorization: Bearer iwUFB4y7720f841yLCR10dLTuo2TO4JR
Content-Type: application/json

{
  "io.D01": 0,
  "io.D01_toggle_ms": 150,
  "io.D02": 1,
  "io.D02_toggle_ms": 1500,
  "io.D03": 0,
  "io.D03_toggle_ms": 2000,
  "io.D04": 1,
  "io.D04_toggle_ms": 2500
}
```

NOTE:

- `io.D0x: value`: **value** is the initial value to set.
- `io.D0x_toggle_ms: delay`: **value** toggle delay(the delay should be greater than 10 millisecond).

Response Syntax:

Success:

```
HTTP/1.1 200
Content-type: application/json
{
  "result": {
    "io.D01": 0,
    "io.D01_toggle_ms": 150,
    "io.D02": 1,
    "io.D02_toggle_ms": 1500,
    "io.D03": 0,
    "io.D03_toggle_ms": 2000,
    "io.D04": 1,
    "io.D04_toggle_ms": 2500
  }
}
```

Failure:

```
HTTP/1.1 400
Content-type: application/json

{
  "error": "invalid_parameter",
  "error_desc": "Invalid request parameter"
}
```

