mes-iot-data

This is the server for MES IOT project

Update from DTT server

API for IOT

1. Start

Use this API when start IOT gateway

[POST]: https://mes.dongthinhvuong.com/iot/production/start

a. Request

Parameter	Datatype	Description
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
intervalMillisecond*	long	Interval time (Milisecond) send signal - Is required, format as in below example

Example request:

```
{
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "intervalMillisecond": 60000,
}
```

b. Response

Field	Datatype	Description
success	boolean	response status (true: request success - false: request failed)
message	string	response message (Empty when request success)
statusCode	int	HttpStatusCode (200: request success, others: request failed)

Example response:

```
{
    "success": true,
    "statusCode": 200,
    "message": null,
    "data": null
}
```

2. Stop

Use this API when stop IOT gateway

[POST]: https://mes.dongthinhvuong.com/iot/production/stop

a. Request

Parameter	Datatype	Description
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
lastMillisecond*	long	Milisecond time (UTC) send last counter request - Is required, format as in below example
lastIndex*	int	Index lastest counter - Is required, format as in below example

Example request:

```
{
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "lastMillisecond": 1686082523858,
    "lastIndex": 1234,
}
```

b. Response

Field	Datatype	Description
success	boolean	response status (true: request success - false: request failed)
message	string	response message (Empty when request success)
statusCode	int	HttpStatusCode (200: request success, others: request failed)

Example response:

```
{
    "success": true,
    "statusCode": 200,
    "message": null,
    "data": null
}
```

3. Counter

Use this API when counter IOT gateway

[POST]: https://mes.dongthinhvuong.com/iot/production/counter

a. Request

Parameter	Datatype	Description
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
lastMillisecond*	long	Milisecond time (UTC) send last counter request - Is required, format as in below example
index*	int	Index counter - Is required, format as in below example

Example request:

```
{
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "lastMillisecond": 1686082523858,
    "index": 1234,
}
```

b. Response

Field	Datatype	Description
success	boolean	response status (true: request success - false: request failed)
message	string	response message (Empty when request success)
statusCode	int	HttpStatusCode (200: request success, others: request failed)

Example response:

```
{
    "success": true,
    "statusCode": 200,
    "message": null,
    "data": null
}
```

4. Alive

Use this API to check IOT gateway live

[POST]: https://mes.dongthinhvuong.com/iot/production/alive

a. Request

Parameter	Datatype	Description
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
status*	long	led status, 0: Stop (Red), 1: Pending (Yellow), 2: Active (Green)

Example request:

```
{
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "status": 2,
}
```

b. Response

Field	Datatype	Description
success	boolean	response status (true: request success - false: request failed)
message	string	response message (Empty when request success)
statusCode	int	HttpStatusCode (200: request success, others: request failed)

Example response:

```
{
    "success": true,
    "statusCode": 200,
```

```
    "message": null,
    "data": null
}
```

Message Queue for IOT (KAFKA)

KAFKA Server: 194.233.92.193, KAFKA Port: 9092,

Payload Message must encode to byte[] before Publish

1. Start Topic

Use this topic when start IOT gateway

a. Name

usm_IOTRequest

b. Payload Json (Message Value)

Parameter	Datatype	Description
type*	int	1 (1: Start, 2: Stop, 3:Counter, 4:Alive)
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
intervalMillisecond*	long	Interval time (Milisecond) send signal - Is required, format as in below example

Example request:

```
{
    "type": 1,
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "intervalMillisecond": 60000,
}
```

2. Stop

Use this topic when stop IOT gateway

a. Name

usm_IOTRequest

b. Payload Json (Message Value)

Parameter	Datatype	Description
type*	int	2 (1: Start, 2: Stop, 3:Counter, 4:Alive)
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
lastMillisecond*	long	Milisecond time (UTC) send last counter request - Is required, format as in below example
lastIndex*	int	Index lastest counter - Is required, format as in below example

Example request:

```json
{
    "type": 2,
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "lastMillisecond": 1686082523858,
    "lastIndex": 1234,
}
```

3. Counter

Use this topic when counter IOT gateway

a. Name

usm_IOTRequest

b. Payload Json (Message Value)

Parameter	Datatype	Description
type*	int	3 (1: Start, 2: Stop, 3:Counter, 4:Alive)
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
lastMillisecond*	long	Milisecond time (UTC) send last counter request - Is required, format as in below example
index*	int	Index counter - Is required, format as in below example

Example request:

```
{
    "type": 3,
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "lastMillisecond": 1686082523858,
    "index": 1234,
}
```

4. Alive

Use this topic to check IOT gateway live

a. Name

usm_IOTRequest

b. Payload Json (Message Value)

Parameter	Datatype	Description
type*	int	4 (1: Start, 2: Stop, 3:Counter, 4:Alive)
machineCode*	string	Machine ID - Is required, format as in below example
currentMillisecond*	long	Milisecond time (UTC) send request - Is required, format as in below example
status*	long	led status, 0: Stop (Red), 1: Pending (Yellow), 2: Active (Green)

Example request:

```
{
    "type": 4,
    "machineCode": "BI0001",
    "currentMillisecond": 1686082323858,
    "status": 2,
}
```

If you have any consider, please contact your administrator.