

# mes-iot-data

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This is the server for MES IOT project

Update from DTT server

## API for IOT

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### 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

Example request:

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

#### 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,
  "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
}
```

---

## 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

Example request:

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

### 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
}
```

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## Message Queue for IOT (KAFKA)

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KAFKA Server: 173.249.14.91, KAFKA Port: 29092,

*Payload Message must encode to byte[] before Publish*

## 1. Start Topic

Use this topic when start IOT gateway

### a. Name

mes\_StartIOTRequest

### b. Payload Json (Message Value)

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

Example request:

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

---

## 2. Stop

Use this topic when stop IOT gateway

### a. Name

mes\_StopIOTRequest

### b. Payload Json (Message Value)

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

Parameter	Datatype	Description
lastIndex*	int	Index lastest counter - Is required, format as in below example

Example request:

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

### 3. Counter

Use this topic when counter IOT gateway

#### a. Name

mes\_CounterIOTRequest

#### b. Payload Json (Message Value)

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,
  "lastIndex": 1234,
}
```

### 4. Alive

Use this topic to check IOT gateway live

a. Name

mes\_AliveIoTRequest

b. Payload Json (Message Value)

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

Example request:

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

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If you have any consider, please contact your administrator.