
AWS IoT Events

API Reference



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Welcome

AWS IoT Events

AWS IoT Events monitors your equipment or device fleets for failures or changes in operation, and triggers actions when such events occur. AWS IoT Events API commands enable you to create, read, update and delete inputs and detector models, and to list their versions.

AWS IoT Events Data

AWS IoT Events monitors your equipment or device fleets for failures or changes in operation, and triggers actions when such events occur. AWS IoT Events Data API commands enable you to send inputs to detectors, list detectors, and view or update a detector's status.

Actions

The following actions are supported by AWS IoT Events:

- [CreateDetectorModel](#) (p. 4)
- [CreateInput](#) (p. 11)
- [DeleteDetectorModel](#) (p. 14)
- [DeleteInput](#) (p. 16)
- [DescribeDetectorModel](#) (p. 18)
- [DescribeInput](#) (p. 23)
- [DescribeLoggingOptions](#) (p. 25)
- [ListDetectorModels](#) (p. 27)
- [ListDetectorModelVersions](#) (p. 29)
- [ListInputs](#) (p. 32)
- [ListTagsForResource](#) (p. 34)
- [PutLoggingOptions](#) (p. 36)
- [TagResource](#) (p. 38)
- [UntagResource](#) (p. 40)
- [UpdateDetectorModel](#) (p. 42)
- [UpdateInput](#) (p. 48)

The following actions are supported by AWS IoT Events Data:

- [BatchPutMessage](#) (p. 51)
- [BatchUpdateDetector](#) (p. 53)
- [DescribeDetector](#) (p. 56)
- [ListDetectors](#) (p. 59)

AWS IoT Events

The following actions are supported by AWS IoT Events:

- [CreateDetectorModel](#) (p. 4)
- [CreateInput](#) (p. 11)
- [DeleteDetectorModel](#) (p. 14)
- [DeleteInput](#) (p. 16)
- [DescribeDetectorModel](#) (p. 18)
- [DescribeInput](#) (p. 23)
- [DescribeLoggingOptions](#) (p. 25)
- [ListDetectorModels](#) (p. 27)
- [ListDetectorModelVersions](#) (p. 29)
- [ListInputs](#) (p. 32)
- [ListTagsForResource](#) (p. 34)
- [PutLoggingOptions](#) (p. 36)

- [TagResource](#) (p. 38)
- [UntagResource](#) (p. 40)
- [UpdateDetectorModel](#) (p. 42)
- [UpdateInput](#) (p. 48)

CreateDetectorModel

Service: AWS IoT Events

Creates a detector model.

Request Syntax

POST /detector-models HTTP/1.1
Content-type: application/json

```
{
  "detectorModelDefinition": {
    "initialStateName": "string",
    "states": [
      {
        "onEnter": {
          "events": [
            {
              "actions": [
                {
                  "clearTimer": {
                    "timerName": "string"
                  },
                  "firehose": {
                    "deliveryStreamName": "string",
                    "separator": "string"
                  },
                  "iotEvents": {
                    "inputName": "string"
                  },
                  "iotTopicPublish": {
                    "mqttTopic": "string"
                  },
                  "lambda": {
                    "functionArn": "string"
                  },
                  "resetTimer": {
                    "timerName": "string"
                  },
                  "setTimer": {
                    "seconds": number,
                    "timerName": "string"
                  },
                  "setVariable": {
                    "value": "string",
                    "variableName": "string"
                  },
                  "sns": {
                    "targetArn": "string"
                  },
                  "sqs": {
                    "queueUrl": "string",
                    "useBase64": boolean
                  }
                }
              ]
            },
            {
              "condition": "string",
              "eventName": "string"
            }
          ]
        }
      }
    ],
    "onExit": {
      "events": [
```



```
{
  "actions": [
    {
      "clearTimer": {
        "timerName": "string"
      },
      "firehose": {
        "deliveryStreamName": "string",
        "separator": "string"
      },
      "iotEvents": {
        "inputName": "string"
      },
      "iotTopicPublish": {
        "mqttTopic": "string"
      },
      "lambda": {
        "functionArn": "string"
      },
      "resetTimer": {
        "timerName": "string"
      },
      "setTimer": {
        "seconds": number,
        "timerName": "string"
      },
      "setVariable": {
        "value": "string",
        "variableName": "string"
      },
      "sns": {
        "targetArn": "string"
      },
      "sqs": {
        "queueUrl": "string",
        "useBase64": boolean
      }
    }
  ],
  "condition": "string",
  "eventName": "string"
},
"onInput": {
  "events": [
    {
      "actions": [
        {
          "clearTimer": {
            "timerName": "string"
          },
          "firehose": {
            "deliveryStreamName": "string",
            "separator": "string"
          },
          "iotEvents": {
            "inputName": "string"
          },
          "iotTopicPublish": {
            "mqttTopic": "string"
          },
          "lambda": {
            "functionArn": "string"
          },
          "resetTimer": {
```

```
        "timerName": "string"
      },
      "setTimer": {
        "seconds": number,
        "timerName": "string"
      },
      "setVariable": {
        "value": "string",
        "variableName": "string"
      },
      "sns": {
        "targetArn": "string"
      },
      "sqs": {
        "queueUrl": "string",
        "useBase64": boolean
      }
    }
  ],
  "condition": "string",
  "eventName": "string"
}
],
"transitionEvents": [
  {
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string"
        },
        "iotTopicPublish": {
          "mqttTopic": "string"
        },
        "lambda": {
          "functionArn": "string"
        },
        "resetTimer": {
          "timerName": "string"
        },
        "setTimer": {
          "seconds": number,
          "timerName": "string"
        },
        "setVariable": {
          "value": "string",
          "variableName": "string"
        },
        "sns": {
          "targetArn": "string"
        },
        "sqs": {
          "queueUrl": "string",
          "useBase64": boolean
        }
      }
    ]
  },
  "condition": "string",
  "eventName": "string",
  "nextState": "string"
}
```

```
        ]
      },
      "stateName": "string"
    }
  ]
},
"detectorModelDescription": "string",
"detectorModelName": "string",
"evaluationMethod": "string",
"key": "string",
"roleArn": "string",
"tags": [
  {
    "key": "string",
    "value": "string"
  }
]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

detectorModelDefinition (p. 4)

Information that defines how the detectors operate.

Type: [DetectorModelDefinition \(p. 72\)](#) object

Required: Yes

detectorModelDescription (p. 4)

A brief description of the detector model.

Type: String

Length Constraints: Maximum length of 128.

Required: No

detectorModelName (p. 4)

The name of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: Yes

evaluationMethod (p. 4)

When set to `SERIAL`, variables are updated and event conditions evaluated in the order that the events are defined. When set to `BATCH`, variables are updated and events performed only after all event conditions are evaluated. `BATCH` is the default.

Type: String

Valid Values: BATCH | SERIAL

Required: No

key (p. 4)

The input attribute key used to identify a device or system to create a detector (an instance of the detector model) and then to route each input received to the appropriate detector (instance). This parameter uses a JSON-path expression to specify the attribute-value pair in the message payload of each input that is used to identify the device associated with the input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^(([^\w\-\]+)|([\w\-\]+))(\.([^\w\-\]+)|([\w\-\]+)))*$`

Required: No

roleArn (p. 4)

The ARN of the role that grants permission to AWS IoT Events to perform its operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

tags (p. 4)

Metadata that can be used to manage the detector model.

Type: Array of [Tag \(p. 97\)](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detectorModelConfiguration": {
    "creationTime": number,
    "detectorModelArn": string,
    "detectorModelDescription": string,
    "detectorModelName": string,
    "detectorModelVersion": string,
    "evaluationMethod": string,
    "key": string,
    "lastUpdateTime": number,
    "roleArn": string,
    "status": string
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorModelConfiguration (p. 8)

Information about how the detector model is configured.

Type: [DetectorModelConfiguration \(p. 70\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

LimitExceededException

A limit was exceeded.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateInput

Service: AWS IoT Events

Creates an input.

Request Syntax

```
POST /inputs HTTP/1.1
Content-type: application/json

{
  "inputDefinition": {
    "attributes": [
      {
        "jsonPath": "string"
      }
    ]
  },
  "inputDescription": "string",
  "inputName": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

inputDefinition (p. 11)

The definition of the input.

Type: [InputDefinition \(p. 81\)](#) object

Required: Yes

inputDescription (p. 11)

A brief description of the input.

Type: String

Length Constraints: Maximum length of 128.

Required: No

inputName (p. 11)

The name you want to give to the input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

tags (p. 11)

Metadata that can be used to manage the input.

Type: Array of [Tag \(p. 97\)](#) objects

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json
```

```
{
  "inputConfiguration": {
    "creationTime": number,
    "inputArn": "string",
    "inputDescription": "string",
    "inputName": "string",
    "lastUpdateTime": number,
    "status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

inputConfiguration (p. 12)

Information about the configuration of the input.

Type: [InputConfiguration \(p. 79\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

HTTP Status Code: 409

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
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- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteDetectorModel

Service: AWS IoT Events

Deletes a detector model. Any active instances of the detector model are also deleted.

Request Syntax

```
DELETE /detector-models/detectorModelName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 14)

The name of the detector model to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteInput

Service: AWS IoT Events

Deletes an input.

Request Syntax

```
DELETE /inputs/inputName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

inputName (p. 16)

The name of the input to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
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- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeDetectorModel

Service: AWS IoT Events

Describes a detector model. If the "version" parameter is not specified, information about the latest version is returned.

Request Syntax

```
GET /detector-models/detectorModelName?version=detectorModelVersion HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 18)

The name of the detector model.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

detectorModelVersion (p. 18)

The version of the detector model.

Length Constraints: Minimum length of 1. Maximum length of 128.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detectorModel": {
    "detectorModelConfiguration": {
      "creationTime": number,
      "detectorModelArn": "string",
      "detectorModelDescription": "string",
      "detectorModelName": "string",
      "detectorModelVersion": "string",
      "evaluationMethod": "string",
      "key": "string",
      "lastUpdateTime": number,
      "roleArn": "string",
      "status": "string"
    },
    "detectorModelDefinition": {
      "initialStateName": "string",
      "states": [
        {
          "onEnter": {
            "events": [
              {

```

```
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string"
        },
        "iotTopicPublish": {
          "mqttTopic": "string"
        },
        "lambda": {
          "functionArn": "string"
        },
        "resetTimer": {
          "timerName": "string"
        },
        "setTimer": {
          "seconds": number,
          "timerName": "string"
        },
        "setVariable": {
          "value": "string",
          "variableName": "string"
        },
        "sns": {
          "targetArn": "string"
        },
        "sqs": {
          "queueUrl": "string",
          "useBase64": boolean
        }
      }
    ],
    "condition": "string",
    "eventName": "string"
  }
],
},
"onExit": {
  "events": [
    {
      "actions": [
        {
          "clearTimer": {
            "timerName": "string"
          },
          "firehose": {
            "deliveryStreamName": "string",
            "separator": "string"
          },
          "iotEvents": {
            "inputName": "string"
          },
          "iotTopicPublish": {
            "mqttTopic": "string"
          },
          "lambda": {
            "functionArn": "string"
          },
          "resetTimer": {
            "timerName": "string"
          }
        }
      ]
    }
  ]
}
```

```
    },
    "setTimer": {
      "seconds": number,
      "timerName": "string"
    },
    "setVariable": {
      "value": "string",
      "variableName": "string"
    },
    "sns": {
      "targetArn": "string"
    },
    "sqs": {
      "queueUrl": "string",
      "useBase64": boolean
    }
  }
],
"condition": "string",
"eventName": "string"
}
]
},
"onInput": {
  "events": [
    {
      "actions": [
        {
          "clearTimer": {
            "timerName": "string"
          },
          "firehose": {
            "deliveryStreamName": "string",
            "separator": "string"
          },
          "iotEvents": {
            "inputName": "string"
          },
          "iotTopicPublish": {
            "mqttTopic": "string"
          },
          "lambda": {
            "functionArn": "string"
          },
          "resetTimer": {
            "timerName": "string"
          },
          "setTimer": {
            "seconds": number,
            "timerName": "string"
          },
          "setVariable": {
            "value": "string",
            "variableName": "string"
          },
          "sns": {
            "targetArn": "string"
          },
          "sqs": {
            "queueUrl": "string",
            "useBase64": boolean
          }
        }
      ]
    },
    "condition": "string",
    "eventName": "string"
  ]
}
```



```

    }
  ],
  "transitionEvents": [
    {
      "actions": [
        {
          "clearTimer": {
            "timerName": "string"
          },
          "firehose": {
            "deliveryStreamName": "string",
            "separator": "string"
          },
          "iotEvents": {
            "inputName": "string"
          },
          "iotTopicPublish": {
            "mqttTopic": "string"
          },
          "lambda": {
            "functionArn": "string"
          },
          "resetTimer": {
            "timerName": "string"
          },
          "setTimer": {
            "seconds": number,
            "timerName": "string"
          },
          "setVariable": {
            "value": "string",
            "variableName": "string"
          },
          "sns": {
            "targetArn": "string"
          },
          "sqs": {
            "queueUrl": "string",
            "useBase64": boolean
          }
        }
      ],
      "condition": "string",
      "eventName": "string",
      "nextState": "string"
    }
  ],
  "stateName": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[detectorModel \(p. 18\)](#)

Information about the detector model.

Type: [DetectorModel](#) (p. 69) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeInput

Service: AWS IoT Events

Describes an input.

Request Syntax

```
GET /inputs/inputName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

inputName (p. 23)

The name of the input.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "input": {
    "inputConfiguration": {
      "creationTime": number,
      "inputArn": "string",
      "inputDescription": "string",
      "inputName": "string",
      "lastUpdateTime": number,
      "status": "string"
    },
    "inputDefinition": {
      "attributes": [
        {
          "jsonPath": "string"
        }
      ]
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

input (p. 23)

Information about the input.

Type: [Input \(p. 78\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeLoggingOptions

Service: AWS IoT Events

Retrieves the current settings of the AWS IoT Events logging options.

Request Syntax

```
GET /logging HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "loggingOptions": {
    "detectorDebugOptions": [
      {
        "detectorModelName": "string",
        "keyValue": "string"
      }
    ],
    "enabled": boolean,
    "level": "string",
    "roleArn": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

loggingOptions (p. 25)

The current settings of the AWS IoT Events logging options.

Type: [LoggingOptions \(p. 87\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

UnsupportedOperationException

The requested operation is not supported.

HTTP Status Code: 501

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListDetectorModels

Service: AWS IoT Events

Lists the detector models you have created. Only the metadata associated with each detector model is returned.

Request Syntax

```
GET /detector-models?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 27)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 27)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detectorModelSummaries": [
    {
      "creationTime": number,
      "detectorModelDescription": "string",
      "detectorModelName": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorModelSummaries (p. 27)

Summary information about the detector models.

Type: Array of [DetectorModelSummary](#) (p. 73) objects

[nextToken \(p. 27\)](#)

A token to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListDetectorModelVersions

Service: AWS IoT Events

Lists all the versions of a detector model. Only the metadata associated with each detector model version is returned.

Request Syntax

```
GET /detector-models/detectorModelName/versions?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 29)

The name of the detector model whose versions are returned.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

maxResults (p. 29)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 29)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detectorModelVersionSummaries": [
    {
      "creationTime": number,
      "detectorModelArn": "string",
      "detectorModelName": "string",
      "detectorModelVersion": "string",
      "evaluationMethod": "string",
      "lastUpdateTime": number,
      "roleArn": "string",
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorModelVersionSummaries (p. 29)

Summary information about the detector model versions.

Type: Array of [DetectorModelVersionSummary](#) (p. 74) objects

nextToken (p. 29)

A token to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListInputs

Service: AWS IoT Events

Lists the inputs you have created.

Request Syntax

```
GET /inputs?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 32)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 32)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "inputSummaries": [
    {
      "creationTime": number,
      "inputArn": "string",
      "inputDescription": "string",
      "inputName": "string",
      "lastUpdateTime": number,
      "status": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

inputSummaries (p. 32)

Summary information about the inputs.

Type: Array of [InputSummary \(p. 82\)](#) objects

[nextToken \(p. 32\)](#)

A token to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListTagsForResource

Service: AWS IoT Events

Lists the tags (metadata) you have assigned to the resource.

Request Syntax

```
GET /tags?resourceArn=resourceArn HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 34)

The ARN of the resource.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags (p. 34)

The list of tags assigned to the resource.

Type: Array of [Tag](#) (p. 97) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

PutLoggingOptions

Service: AWS IoT Events

Sets or updates the AWS IoT Events logging options.

If you update the value of any "loggingOptions" field, it takes up to one minute for the change to take effect. Also, if you change the policy attached to the role you specified in the "roleArn" field (for example, to correct an invalid policy) it takes up to five minutes for that change to take effect.

Request Syntax

```
PUT /logging HTTP/1.1
Content-type: application/json

{
  "loggingOptions": {
    "detectorDebugOptions": [
      {
        "detectorModelName": "string",
        "keyValue": "string"
      }
    ],
    "enabled": boolean,
    "level": "string",
    "roleArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

loggingOptions (p. 36)

The new values of the AWS IoT Events logging options.

Type: [LoggingOptions \(p. 87\)](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

UnsupportedOperationException

The requested operation is not supported.

HTTP Status Code: 501

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

TagResource

Service: AWS IoT Events

Adds to or modifies the tags of the given resource. Tags are metadata that can be used to manage a resource.

Request Syntax

```
POST /tags?resourceArn=resourceArn HTTP/1.1  
Content-type: application/json
```

```
{  
  "tags": [  
    {  
      "key": "string",  
      "value": "string"  
    }  
  ]  
}
```

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 38)

The ARN of the resource.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Request Body

The request accepts the following data in JSON format.

tags (p. 38)

The new or modified tags for the resource.

Type: Array of [Tag](#) (p. 97) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

LimitExceededException

A limit was exceeded.

HTTP Status Code: 410

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UntagResource

Service: AWS IoT Events

Removes the given tags (metadata) from the resource.

Request Syntax

```
DELETE /tags?resourceArn=resourceArn&tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 40)

The ARN of the resource.

Length Constraints: Minimum length of 1. Maximum length of 2048.

tagKeys (p. 40)

A list of the keys of the tags to be removed from the resource.

Length Constraints: Minimum length of 1. Maximum length of 128.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UpdateDetectorModel

Service: AWS IoT Events

Updates a detector model. Detectors (instances) spawned by the previous version are deleted and then re-created as new inputs arrive.

Request Syntax

```
POST /detector-models/detectorModelName HTTP/1.1
Content-type: application/json

{
  "detectorModelDefinition": {
    "initialStateName": "string",
    "states": [
      {
        "onEnter": {
          "events": [
            {
              "actions": [
                {
                  "clearTimer": {
                    "timerName": "string"
                  },
                  "firehose": {
                    "deliveryStreamName": "string",
                    "separator": "string"
                  },
                  "iotEvents": {
                    "inputName": "string"
                  },
                  "iotTopicPublish": {
                    "mqttTopic": "string"
                  },
                  "lambda": {
                    "functionArn": "string"
                  },
                  "resetTimer": {
                    "timerName": "string"
                  },
                  "setTimer": {
                    "seconds": number,
                    "timerName": "string"
                  },
                  "setVariable": {
                    "value": "string",
                    "variableName": "string"
                  },
                  "sns": {
                    "targetArn": "string"
                  },
                  "sqs": {
                    "queueUrl": "string",
                    "useBase64": boolean
                  }
                }
              ]
            },
            "condition": "string",
            "eventName": "string"
          ]
        },
        "onExit": {
```

```

"events": [
  {
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string"
        },
        "iotTopicPublish": {
          "mqttTopic": "string"
        },
        "lambda": {
          "functionArn": "string"
        },
        "resetTimer": {
          "timerName": "string"
        },
        "setTimer": {
          "seconds": number,
          "timerName": "string"
        },
        "setVariable": {
          "value": "string",
          "variableName": "string"
        },
        "sns": {
          "targetArn": "string"
        },
        "sqs": {
          "queueUrl": "string",
          "useBase64": boolean
        }
      }
    ],
    "condition": "string",
    "eventName": "string"
  }
],
"onInput": {
  "events": [
    {
      "actions": [
        {
          "clearTimer": {
            "timerName": "string"
          },
          "firehose": {
            "deliveryStreamName": "string",
            "separator": "string"
          },
          "iotEvents": {
            "inputName": "string"
          },
          "iotTopicPublish": {
            "mqttTopic": "string"
          },
          "lambda": {
            "functionArn": "string"
          }
        },

```

```

        "resetTimer": {
            "timerName": "string"
        },
        "setTimer": {
            "seconds": number,
            "timerName": "string"
        },
        "setVariable": {
            "value": "string",
            "variableName": "string"
        },
        "sns": {
            "targetArn": "string"
        },
        "sqs": {
            "queueUrl": "string",
            "useBase64": boolean
        }
    }
},
"condition": "string",
"eventName": "string"
}
],
"transitionEvents": [
    {
        "actions": [
            {
                "clearTimer": {
                    "timerName": "string"
                },
                "firehose": {
                    "deliveryStreamName": "string",
                    "separator": "string"
                },
                "iotEvents": {
                    "inputName": "string"
                },
                "iotTopicPublish": {
                    "mqttTopic": "string"
                },
                "lambda": {
                    "functionArn": "string"
                },
                "resetTimer": {
                    "timerName": "string"
                },
                "setTimer": {
                    "seconds": number,
                    "timerName": "string"
                },
                "setVariable": {
                    "value": "string",
                    "variableName": "string"
                },
                "sns": {
                    "targetArn": "string"
                },
                "sqs": {
                    "queueUrl": "string",
                    "useBase64": boolean
                }
            }
        ]
    },
    "condition": "string",
    "eventName": "string",

```



```
        "nextState": "string"
      }
    ],
  },
  "stateName": "string"
}
]
},
"detectorModelDescription": "string",
"evaluationMethod": "string",
"roleArn": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 42)

The name of the detector model that is updated.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Request Body

The request accepts the following data in JSON format.

detectorModelDefinition (p. 42)

Information that defines how a detector operates.

Type: [DetectorModelDefinition](#) (p. 72) object

Required: Yes

detectorModelDescription (p. 42)

A brief description of the detector model.

Type: String

Length Constraints: Maximum length of 128.

Required: No

evaluationMethod (p. 42)

When set to `SERIAL`, variables are updated and event conditions evaluated in the order that the events are defined. When set to `BATCH`, variables are updated and events performed only after all event conditions are evaluated. `BATCH` is the default.

Type: String

Valid Values: `BATCH` | `SERIAL`

Required: No

roleArn (p. 42)

The ARN of the role that grants permission to AWS IoT Events to perform its operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detectorModelConfiguration": {
    "creationTime": number,
    "detectorModelArn": "string",
    "detectorModelDescription": "string",
    "detectorModelName": "string",
    "detectorModelVersion": "string",
    "evaluationMethod": "string",
    "key": "string",
    "lastUpdateTime": number,
    "roleArn": "string",
    "status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorModelConfiguration (p. 46)

Information about how the detector model is configured.

Type: [DetectorModelConfiguration \(p. 70\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 118\)](#).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UpdateInput

Service: AWS IoT Events

Updates an input.

Request Syntax

```
PUT /inputs/inputName HTTP/1.1
Content-type: application/json

{
  "inputDefinition": {
    "attributes": [
      {
        "jsonPath": "string"
      }
    ]
  },
  "inputDescription": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

inputName (p. 48)

The name of the input you want to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Request Body

The request accepts the following data in JSON format.

inputDefinition (p. 48)

The definition of the input.

Type: [InputDefinition](#) (p. 81) object

Required: Yes

inputDescription (p. 48)

A brief description of the input.

Type: String

Length Constraints: Maximum length of 128.

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "inputConfiguration": {
    "creationTime": number,
    "inputArn": "string",
    "inputDescription": "string",
    "inputName": "string",
    "lastUpdateTime": number,
    "status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

inputConfiguration (p. 48)

Information about the configuration of the input.

Type: [InputConfiguration](#) (p. 79) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceInUseException

The resource is in use.

HTTP Status Code: 409

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

AWS IoT Events Data

The following actions are supported by AWS IoT Events Data:

- [BatchPutMessage \(p. 51\)](#)
- [BatchUpdateDetector \(p. 53\)](#)
- [DescribeDetector \(p. 56\)](#)
- [ListDetectors \(p. 59\)](#)

BatchPutMessage

Service: AWS IoT Events Data

Sends a set of messages to the AWS IoT Events system. Each message payload is transformed into the input you specify ("inputName") and ingested into any detectors that monitor that input. If multiple messages are sent, the order in which the messages are processed isn't guaranteed. To guarantee ordering, you must send messages one at a time and wait for a successful response.

Request Syntax

```
POST /inputs/messages HTTP/1.1
Content-type: application/json

{
  "messages": [
    {
      "inputName": "string",
      "messageId": "string",
      "payload": blob
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

messages (p. 51)

The list of messages to send. Each message has the following format: '{ "messageId": "string", "inputName": "string", "payload": "string"}'

Type: Array of [Message \(p. 109\)](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "BatchPutMessageErrorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "messageId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

BatchPutMessageErrorEntries (p. 51)

A list of any errors encountered when sending the messages.

Type: Array of [BatchPutMessageErrorEntry](#) (p. 100) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

BatchUpdateDetector

Service: AWS IoT Events Data

Updates the state, variable values, and timer settings of one or more detectors (instances) of a specified detector model.

Request Syntax

```
POST /detectors HTTP/1.1
Content-type: application/json

{
  "detectors": [
    {
      "detectorModelName": "string",
      "keyValue": "string",
      "messageId": "string",
      "state": {
        "stateName": "string",
        "timers": [
          {
            "name": "string",
            "seconds": number
          }
        ],
        "variables": [
          {
            "name": "string",
            "value": "string"
          }
        ]
      }
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

detectors (p. 53)

The list of detectors (instances) to update, along with the values to update.

Type: Array of [UpdateDetectorRequest](#) (p. 112) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "batchUpdateDetectorErrorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "messageId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

batchUpdateDetectorErrorEntries (p. 53)

A list of those detector updates that resulted in errors. (If an error is listed here, the specific update did not occur.)

Type: Array of [BatchUpdateDetectorErrorEntry](#) (p. 101) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeDetector

Service: AWS IoT Events Data

Returns information about the specified detector (instance).

Request Syntax

```
GET /detectors/detectorModelName/keyValues/?keyValue=keyValue HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 56)

The name of the detector model whose detectors (instances) you want information about.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

keyValue (p. 56)

A filter used to limit results to detectors (instances) created because of the given key ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_:-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "detector": {
    "creationTime": number,
    "detectorModelName": "string",
    "detectorModelVersion": "string",
    "keyValue": "string",
    "lastUpdateTime": number,
    "state": {
      "stateName": "string",
      "timers": [
        {
          "name": "string",
          "timestamp": number
        }
      ],
      "variables": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  }
}
```

```
}  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detector (p. 56)

Information about the detector (instance).

Type: [Detector](#) (p. 102) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListDetectors

Service: AWS IoT Events Data

Lists detectors (the instances of a detector model).

Request Syntax

```
GET /detectors/detectorModelName?  
maxResults=maxResults&nextToken=nextToken&stateName=stateName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

detectorModelName (p. 59)

The name of the detector model whose detectors (instances) are listed.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

maxResults (p. 59)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 59)

The token for the next set of results.

stateName (p. 59)

A filter that limits results to those detectors (instances) in the given state.

Length Constraints: Minimum length of 1. Maximum length of 128.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "detectorSummaries": [  
    {  
      "creationTime": number,  
      "detectorModelName": "string",  
      "detectorModelVersion": "string",  
      "keyValue": "string",  
      "lastUpdateTime": number,  
      "state": {  
        "stateName": "string"  
      }  
    }  
  ]  
}
```

```
    ],  
    "nextToken": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorSummaries (p. 59)

A list of summary information about the detectors (instances).

Type: Array of [DetectorSummary](#) (p. 107) objects

nextToken (p. 59)

A token to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 118).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

ServiceUnavailableException

The service is currently unavailable.

HTTP Status Code: 503

ThrottlingException

The request could not be completed due to throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

Data Types

The following data types are supported by AWS IoT Events:

- [Action](#) (p. 64)
- [Attribute](#) (p. 66)
- [ClearTimerAction](#) (p. 67)
- [DetectorDebugOption](#) (p. 68)
- [DetectorModel](#) (p. 69)
- [DetectorModelConfiguration](#) (p. 70)
- [DetectorModelDefinition](#) (p. 72)
- [DetectorModelSummary](#) (p. 73)
- [DetectorModelVersionSummary](#) (p. 74)
- [Event](#) (p. 76)
- [FirehoseAction](#) (p. 77)
- [Input](#) (p. 78)
- [InputConfiguration](#) (p. 79)
- [InputDefinition](#) (p. 81)
- [InputSummary](#) (p. 82)
- [IoTEventsAction](#) (p. 84)
- [IoTTopicPublishAction](#) (p. 85)
- [LambdaAction](#) (p. 86)
- [LoggingOptions](#) (p. 87)
- [OnEnterLifecycle](#) (p. 88)
- [OnExitLifecycle](#) (p. 89)
- [OnInputLifecycle](#) (p. 90)
- [ResetTimerAction](#) (p. 91)
- [SetTimerAction](#) (p. 92)
- [SetVariableAction](#) (p. 93)
- [SNSTopicPublishAction](#) (p. 94)
- [SqsAction](#) (p. 95)
- [State](#) (p. 96)
- [Tag](#) (p. 97)
- [TransitionEvent](#) (p. 98)

The following data types are supported by AWS IoT Events Data:

- [BatchPutMessageErrorEntry](#) (p. 100)
- [BatchUpdateDetectorErrorEntry](#) (p. 101)
- [Detector](#) (p. 102)
- [DetectorState](#) (p. 104)
- [DetectorStateDefinition](#) (p. 105)
- [DetectorStateSummary](#) (p. 106)
- [DetectorSummary](#) (p. 107)

- [Message](#) (p. 109)
- [Timer](#) (p. 110)
- [TimerDefinition](#) (p. 111)
- [UpdateDetectorRequest](#) (p. 112)
- [Variable](#) (p. 114)
- [VariableDefinition](#) (p. 115)

AWS IoT Events

The following data types are supported by AWS IoT Events:

- [Action](#) (p. 64)
- [Attribute](#) (p. 66)
- [ClearTimerAction](#) (p. 67)
- [DetectorDebugOption](#) (p. 68)
- [DetectorModel](#) (p. 69)
- [DetectorModelConfiguration](#) (p. 70)
- [DetectorModelDefinition](#) (p. 72)
- [DetectorModelSummary](#) (p. 73)
- [DetectorModelVersionSummary](#) (p. 74)
- [Event](#) (p. 76)
- [FirehoseAction](#) (p. 77)
- [Input](#) (p. 78)
- [InputConfiguration](#) (p. 79)
- [InputDefinition](#) (p. 81)
- [InputSummary](#) (p. 82)
- [IoTEventsAction](#) (p. 84)
- [IoTTopicPublishAction](#) (p. 85)
- [LambdaAction](#) (p. 86)
- [LoggingOptions](#) (p. 87)
- [OnEnterLifecycle](#) (p. 88)
- [OnExitLifecycle](#) (p. 89)
- [OnInputLifecycle](#) (p. 90)
- [ResetTimerAction](#) (p. 91)
- [SetTimerAction](#) (p. 92)
- [SetVariableAction](#) (p. 93)
- [SNSTopicPublishAction](#) (p. 94)
- [SqsAction](#) (p. 95)
- [State](#) (p. 96)
- [Tag](#) (p. 97)
- [TransitionEvent](#) (p. 98)

Action

Service: AWS IoT Events

An action to be performed when the "condition" is TRUE.

Contents

clearTimer

Information needed to clear the timer.

Type: [ClearTimerAction \(p. 67\)](#) object

Required: No

firehose

Sends information about the detector model instance and the event which triggered the action to a Kinesis Data Firehose delivery stream.

Type: [FirehoseAction \(p. 77\)](#) object

Required: No

iotEvents

Sends an IoT Events input, passing in information about the detector model instance and the event which triggered the action.

Type: [IotEventsAction \(p. 84\)](#) object

Required: No

iotTopicPublish

Publishes an MQTT message with the given topic to the AWS IoT message broker.

Type: [IotTopicPublishAction \(p. 85\)](#) object

Required: No

lambda

Calls an AWS Lambda function, passing in information about the detector model instance and the event which triggered the action.

Type: [LambdaAction \(p. 86\)](#) object

Required: No

resetTimer

Information needed to reset the timer.

Type: [ResetTimerAction \(p. 91\)](#) object

Required: No

setTimer

Information needed to set the timer.

Type: [SetTimerAction \(p. 92\)](#) object

Required: No

setVariable

Sets a variable to a specified value.

Type: [SetVariableAction \(p. 93\)](#) object

Required: No

sns

Sends an Amazon SNS message.

Type: [SNSTopicPublishAction \(p. 94\)](#) object

Required: No

sqs

Sends information about the detector model instance and the event which triggered the action to an Amazon SQS queue.

Type: [SqsAction \(p. 95\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Attribute

Service: AWS IoT Events

The attributes from the JSON payload that are made available by the input. Inputs are derived from messages sent to the AWS IoT Events system using `BatchPutMessage`. Each such message contains a JSON payload, and those attributes (and their paired values) specified here are available for use in the `condition` expressions used by detectors.

Contents

`jsonPath`

An expression that specifies an attribute-value pair in a JSON structure. Use this to specify an attribute from the JSON payload that is made available by the input. Inputs are derived from messages sent to the AWS IoT Events system (`BatchPutMessage`). Each such message contains a JSON payload, and the attribute (and its paired value) specified here are available for use in the `"condition"` expressions used by detectors.

Syntax: `<field-name>.<field-name>...`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^((^\w\-[]+)|([\w\-[]+))(\.((^\w\-[]+)|([\w\-[]+)))*)*$`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ClearTimerAction

Service: AWS IoT Events

Information needed to clear the timer.

Contents

timerName

The name of the timer to clear.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorDebugOption

Service: AWS IoT Events

The detector model and the specific detectors (instances) for which the logging level is given.

Contents

detectorModelName

The name of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: Yes

keyValue

The value of the input attribute key used to create the detector (the instance of the detector model).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_\-:]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorModel

Service: AWS IoT Events

Information about the detector model.

Contents

detectorModelConfiguration

Information about how the detector is configured.

Type: [DetectorModelConfiguration \(p. 70\)](#) object

Required: No

detectorModelDefinition

Information that defines how a detector operates.

Type: [DetectorModelDefinition \(p. 72\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorModelConfiguration

Service: AWS IoT Events

Information about how the detector model is configured.

Contents

creationTime

The time the detector model was created.

Type: Timestamp

Required: No

detectorModelArn

The ARN of the detector model.

Type: String

Required: No

detectorModelDescription

A brief description of the detector model.

Type: String

Length Constraints: Maximum length of 128.

Required: No

detectorModelName

The name of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

detectorModelVersion

The version of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

evaluationMethod

When set to `SERIAL`, variables are updated and event conditions evaluated in the order that the events are defined. When set to `BATCH`, variables are updated and events performed only after all event conditions are evaluated. `BATCH` is the default.

Type: String

Valid Values: `BATCH` | `SERIAL`

Required: No

key

The input attribute key used to identify a device or system to create a detector (an instance of the detector model) and then to route each input received to the appropriate detector (instance). This parameter uses a JSON-path expression to specify the attribute-value pair in the message payload of each input that is used to identify the device associated with the input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^(^[\w\-\]+)|([\w\-\]+))(\.(([\w\-\]+)|([\w\-\]+)))*$`

Required: No

lastUpdateTime

The time the detector model was last updated.

Type: Timestamp

Required: No

roleArn

The ARN of the role that grants permission to AWS IoT Events to perform its operations.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

status

The status of the detector model.

Type: String

Valid Values: `ACTIVE | ACTIVATING | INACTIVE | DEPRECATED | DRAFT | PAUSED | FAILED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorModelDefinition

Service: AWS IoT Events

Information that defines how a detector operates.

Contents

initialStateName

The state that is entered at the creation of each detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

states

Information about the states of the detector.

Type: Array of [State \(p. 96\)](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorModelSummary

Service: AWS IoT Events

Information about the detector model.

Contents

creationTime

The time the detector model was created.

Type: Timestamp

Required: No

detectorModelDescription

A brief description of the detector model.

Type: String

Length Constraints: Maximum length of 128.

Required: No

detectorModelName

The name of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorModelVersionSummary

Service: AWS IoT Events

Information about the detector model version.

Contents

creationTime

The time the detector model version was created.

Type: Timestamp

Required: No

detectorModelArn

The ARN of the detector model version.

Type: String

Required: No

detectorModelName

The name of the detector model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

detectorModelVersion

The ID of the detector model version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

evaluationMethod

When set to `SERIAL`, variables are updated and event conditions evaluated in the order that the events are defined. When set to `BATCH`, variables are updated and events performed only after all event conditions are evaluated. `BATCH` is the default.

Type: String

Valid Values: `BATCH` | `SERIAL`

Required: No

lastUpdateTime

The last time the detector model version was updated.

Type: Timestamp

Required: No

roleArn

The ARN of the role that grants the detector model permission to perform its tasks.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

status

The status of the detector model version.

Type: String

Valid Values: ACTIVE | ACTIVATING | INACTIVE | DEPRECATED | DRAFT | PAUSED | FAILED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Event

Service: AWS IoT Events

Specifies the "actions" to be performed when the "condition" evaluates to TRUE.

Contents

actions

The actions to be performed.

Type: Array of [Action \(p. 64\)](#) objects

Required: No

condition

[Optional] The Boolean expression that when TRUE causes the "actions" to be performed. If not present, the actions are performed (=TRUE); if the expression result is not a Boolean value, the actions are NOT performed (=FALSE).

Type: String

Length Constraints: Maximum length of 512.

Required: No

eventName

The name of the event.

Type: String

Length Constraints: Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

FirehoseAction

Service: AWS IoT Events

Sends information about the detector model instance and the event which triggered the action to a Kinesis Data Firehose delivery stream.

Contents

deliveryStreamName

The name of the Kinesis Data Firehose delivery stream where the data is written.

Type: String

Required: Yes

separator

A character separator that is used to separate records written to the Kinesis Data Firehose delivery stream. Valid values are: '\n' (newline), '\t' (tab), '\r\n' (Windows newline), ',' (comma).

Type: String

Pattern: (`([\n\t])|(\r\n)|(\,)`)

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Input

Service: AWS IoT Events

Information about the input.

Contents

inputConfiguration

Information about the configuration of an input.

Type: [InputConfiguration \(p. 79\)](#) object

Required: No

inputDefinition

The definition of the input.

Type: [InputDefinition \(p. 81\)](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

InputConfiguration

Service: AWS IoT Events

Information about the configuration of an input.

Contents

creationTime

The time the input was created.

Type: Timestamp

Required: Yes

inputArn

The ARN of the input.

Type: String

Required: Yes

inputDescription

A brief description of the input.

Type: String

Length Constraints: Maximum length of 128.

Required: No

inputName

The name of the input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

lastUpdateTime

The last time the input was updated.

Type: Timestamp

Required: Yes

status

The status of the input.

Type: String

Valid Values: `CREATING | UPDATING | ACTIVE | DELETING`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

InputDefinition

Service: AWS IoT Events

The definition of the input.

Contents

attributes

The attributes from the JSON payload that are made available by the input. Inputs are derived from messages sent to the AWS IoT Events system using `BatchPutMessage`. Each such message contains a JSON payload, and those attributes (and their paired values) specified here are available for use in the "condition" expressions used by detectors that monitor this input.

Type: Array of [Attribute \(p. 66\)](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

InputSummary

Service: AWS IoT Events

Information about the input.

Contents

creationTime

The time the input was created.

Type: Timestamp

Required: No

inputArn

The ARN of the input.

Type: String

Required: No

inputDescription

A brief description of the input.

Type: String

Length Constraints: Maximum length of 128.

Required: No

inputName

The name of the input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: No

lastUpdateTime

The last time the input was updated.

Type: Timestamp

Required: No

status

The status of the input.

Type: String

Valid Values: `CREATING` | `UPDATING` | `ACTIVE` | `DELETING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

lotEventsAction

Service: AWS IoT Events

Sends an IoT Events input, passing in information about the detector model instance and the event which triggered the action.

Contents

inputName

The name of the AWS IoT Events input where the data is sent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

lotTopicPublishAction

Service: AWS IoT Events

Information required to publish the MQTT message via the AWS IoT message broker.

Contents

mqttTopic

The MQTT topic of the message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

LambdaAction

Service: AWS IoT Events

Calls an AWS Lambda function, passing in information about the detector model instance and the event which triggered the action.

Contents

functionArn

The ARN of the AWS Lambda function which is executed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

LoggingOptions

Service: AWS IoT Events

The values of the AWS IoT Events logging options.

Contents

detectorDebugOptions

Information that identifies those detector models and their detectors (instances) for which the logging level is given.

Type: Array of [DetectorDebugOption \(p. 68\)](#) objects

Array Members: Minimum number of 1 item.

Required: No

enabled

If TRUE, logging is enabled for AWS IoT Events.

Type: Boolean

Required: Yes

level

The logging level.

Type: String

Valid Values: `ERROR` | `INFO` | `DEBUG`

Required: Yes

roleArn

The ARN of the role that grants permission to AWS IoT Events to perform logging.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

OnEnterLifecycle

Service: AWS IoT Events

When entering this state, perform these actions if the `condition` is TRUE.

Contents

events

Specifies the actions that are performed when the state is entered and the `"condition"` is TRUE.

Type: Array of [Event \(p. 76\)](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

OnExitLifecycle

Service: AWS IoT Events

When exiting this state, perform these "actions" if the specified "condition" is TRUE.

Contents

events

Specifies the "actions" that are performed when the state is exited and the "condition" is TRUE.

Type: Array of [Event \(p. 76\)](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

OnInputLifecycle

Service: AWS IoT Events

Specifies the actions performed when the "condition" evaluates to TRUE.

Contents

events

Specifies the actions performed when the "condition" evaluates to TRUE.

Type: Array of [Event \(p. 76\)](#) objects

Required: No

transitionEvents

Specifies the actions performed, and the next state entered, when a "condition" evaluates to TRUE.

Type: Array of [TransitionEvent \(p. 98\)](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResetTimerAction

Service: AWS IoT Events

Information needed to reset the timer.

Contents

timerName

The name of the timer to reset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

SetTimerAction

Service: AWS IoT Events

Information needed to set the timer.

Contents

seconds

The number of seconds until the timer expires. The minimum value is 60 seconds to ensure accuracy.

Type: Integer

Required: Yes

timerName

The name of the timer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

SetVariableAction

Service: AWS IoT Events

Information about the variable and its new value.

Contents

value

The new value of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

variableName

The name of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

SNSTopicPublishAction

Service: AWS IoT Events

Information required to publish the Amazon SNS message.

Contents

targetArn

The ARN of the Amazon SNS target where the message is sent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

SqsAction

Service: AWS IoT Events

Sends information about the detector model instance and the event which triggered the action to an Amazon SQS queue.

Contents

queueUrl

The URL of the Amazon SQS queue where the data is written.

Type: String

Required: Yes

useBase64

Set this to TRUE if you want the data to be Base-64 encoded before it is written to the queue. Otherwise, set this to FALSE.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

State

Service: AWS IoT Events

Information that defines a state of a detector.

Contents

onEnter

When entering this state, perform these "actions" if the "condition" is TRUE.

Type: [OnEnterLifecycle \(p. 88\)](#) object

Required: No

onExit

When exiting this state, perform these "actions" if the specified "condition" is TRUE.

Type: [OnExitLifecycle \(p. 89\)](#) object

Required: No

onInput

When an input is received and the "condition" is TRUE, perform the specified "actions".

Type: [OnInputLifecycle \(p. 90\)](#) object

Required: No

stateName

The name of the state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Tag

Service: AWS IoT Events

Metadata that can be used to manage the resource.

Contents

key

The tag's key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

value

The tag's value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

TransitionEvent

Service: AWS IoT Events

Specifies the actions performed and the next state entered when a "condition" evaluates to TRUE.

Contents

actions

The actions to be performed.

Type: Array of [Action \(p. 64\)](#) objects

Required: No

condition

[Required] A Boolean expression that when TRUE causes the actions to be performed and the "nextState" to be entered.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

eventName

The name of the transition event.

Type: String

Length Constraints: Maximum length of 128.

Required: Yes

nextState

The next state to enter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

AWS IoT Events Data

The following data types are supported by AWS IoT Events Data:

- [BatchPutMessageErrorEntry](#) (p. 100)
- [BatchUpdateDetectorErrorEntry](#) (p. 101)
- [Detector](#) (p. 102)
- [DetectorState](#) (p. 104)
- [DetectorStateDefinition](#) (p. 105)
- [DetectorStateSummary](#) (p. 106)
- [DetectorSummary](#) (p. 107)
- [Message](#) (p. 109)
- [Timer](#) (p. 110)
- [TimerDefinition](#) (p. 111)
- [UpdateDetectorRequest](#) (p. 112)
- [Variable](#) (p. 114)
- [VariableDefinition](#) (p. 115)

BatchPutMessageErrorEntry

Service: AWS IoT Events Data

Contains information about the errors encountered.

Contents

errorCode

The code associated with the error.

Type: String

Valid Values: `ResourceNotFoundException` | `InvalidRequestException` | `InternalFailureException` | `ServiceUnavailableException` | `ThrottlingException`

Required: No

errorMessage

More information about the error.

Type: String

Required: No

messageId

The ID of the message that caused the error. (See the value corresponding to the "messageId" key in the "message" object.)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

BatchUpdateDetectorErrorEntry

Service: AWS IoT Events Data

Information about the error that occurred when attempting to update a detector.

Contents

errorCode

The code of the error.

Type: String

Valid Values: `ResourceNotFoundException` | `InvalidRequestException` | `InternalFailureException` | `ServiceUnavailableException` | `ThrottlingException`

Required: No

errorMessage

A message describing the error.

Type: String

Required: No

messageId

The "messageId" of the update request that caused the error. (The value of the "messageId" in the update request "Detector" object.)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Detector

Service: AWS IoT Events Data

Information about the detector (instance).

Contents

creationTime

The time the detector (instance) was created.

Type: Timestamp

Required: No

detectorModelName

The name of the detector model that created this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

detectorModelVersion

The version of the detector model that created this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

keyValue

The value of the key (identifying the device or system) that caused the creation of this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9\-_:\]+$`

Required: No

lastUpdateTime

The time the detector (instance) was last updated.

Type: Timestamp

Required: No

state

The current state of the detector (instance).

Type: [DetectorState](#) (p. 104) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorState

Service: AWS IoT Events Data

Information about the current state of the detector instance.

Contents

stateName

The name of the state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

timers

The current state of the detector's timers.

Type: Array of [Timer \(p. 110\)](#) objects

Required: Yes

variables

The current values of the detector's variables.

Type: Array of [Variable \(p. 114\)](#) objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorStateDefinition

Service: AWS IoT Events Data

The new state, variable values, and timer settings of the detector (instance).

Contents

stateName

The name of the new state of the detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

timers

The new values of the detector's timers. Any timer whose value isn't specified is cleared, and its timeout event won't occur.

Type: Array of [TimerDefinition \(p. 111\)](#) objects

Required: Yes

variables

The new values of the detector's variables. Any variable whose value isn't specified is cleared.

Type: Array of [VariableDefinition \(p. 115\)](#) objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorStateSummary

Service: AWS IoT Events Data

Information about the detector state.

Contents

stateName

The name of the state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DetectorSummary

Service: AWS IoT Events Data

Information about the detector (instance).

Contents

creationTime

The time the detector (instance) was created.

Type: Timestamp

Required: No

detectorModelName

The name of the detector model that created this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: No

detectorModelVersion

The version of the detector model that created this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

keyValue

The value of the key (identifying the device or system) that caused the creation of this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9\-_:\]+$`

Required: No

lastUpdateTime

The time the detector (instance) was last updated.

Type: Timestamp

Required: No

state

The current state of the detector (instance).

Type: [DetectorStateSummary](#) (p. 106) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Message

Service: AWS IoT Events Data

Information about a message.

Contents

inputName

The name of the input into which the message payload is transformed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

messageId

The ID to assign to the message. Within each batch sent, each "messageId" must be unique.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: Yes

payload

The payload of the message. This can be a JSON string or a Base-64-encoded string representing binary data (in which case you must decode it).

Type: Base64-encoded binary data object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Timer

Service: AWS IoT Events Data

The current state of a timer.

Contents

name

The name of the timer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

timestamp

The number of seconds which have elapsed on the timer.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

TimerDefinition

Service: AWS IoT Events Data

The new setting of a timer.

Contents

name

The name of the timer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

seconds

The new setting of the timer (the number of seconds before the timer elapses).

Type: Integer

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateDetectorRequest

Service: AWS IoT Events Data

Information used to update the detector (instance).

Contents

detectorModelName

The name of the detector model that created the detectors (instances).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: Yes

keyValue

The value of the input key attribute (identifying the device or system) that caused the creation of this detector (instance).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9\-_:\]+$`

Required: No

messageId

The ID to assign to the detector update "message". Each "messageId" must be unique within each batch sent.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9_-]+$`

Required: Yes

state

The new state, variable values, and timer settings of the detector (instance).

Type: [DetectorStateDefinition \(p. 105\)](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)

- [AWS SDK for Ruby V2](#)

Variable

Service: AWS IoT Events Data

The current state of the variable.

Contents

name

The name of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

value

The current value of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

VariableDefinition

Service: AWS IoT Events Data

The new value of the variable.

Contents

name

The name of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z][a-zA-Z0-9_]*$`

Required: Yes

value

The new value of the variable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400