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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. You can use AWS IoT Events API operations 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. 15)
- DeleteDetectorModel (p. 18)
- DeleteInput (p. 20)
- DescribeDetectorModel (p. 22)
- DescribeInput (p. 31)
- DescribeLoggingOptions (p. 33)
- ListDetectorModels (p. 35)
- ListDetectorModelVersions (p. 37)
- ListInputs (p. 40)
- ListTagsForResource (p. 42)
- PutLoggingOptions (p. 44)
- TagResource (p. 46)
- UntagResource (p. 48)
- UpdateDetectorModel (p. 50)
- UpdateInput (p. 60)

The following actions are supported by AWS IoT Events Data:

- BatchPutMessage (p. 63)
- BatchUpdateDetector (p. 65)
- DescribeDetector (p. 68)
- ListDetectors (p. 71)

AWS IoT Events

The following actions are supported by AWS IoT Events:

- CreateDetectorModel (p. 4)
- CreateInput (p. 15)
- DeleteDetectorModel (p. 18)
- DeleteInput (p. 20)
- DescribeDetectorModel (p. 22)
- DescribeInput (p. 31)
- DescribeLoggingOptions (p. 33)
- ListDetectorModels (p. 35)
- ListDetectorModelVersions (p. 37)
- ListInputs (p. 40)
- ListTagsForResource (p. 42)
- PutLoggingOptions (p. 44)
• TagResource (p. 46)
• UntagResource (p. 48)
• UpdateDetectorModel (p. 50)
• UpdateInput (p. 60)
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"
            },
            "dynamoDB": {
              "hashKeyField": "string",
              "hashKeyType": "string",
              "hashKeyValue": "string",
              "operation": "string",
              "payload": {
                "contentExpression": "string",
                "type": "string"
              },
              "payloadField": "string",
              "rangeKeyField": "string",
              "rangeKeyType": "string",
              "rangeKeyValue": "string",
              "tableName": "string"
            },
            "dynamoDBv2": {
              "payload": {
                "contentExpression": "string",
                "type": "string"
              },
              "tableName": "string"
            },
            "firehose": {
              "deliveryStreamName": "string",
              "payload": {
                "contentExpression": "string",
                "type": "string"
              },
              "separator": "string"
            },
            "iotEvents": {
              "inputName": "string",
              "payload": {
                "contentExpression": "string",
                "type": "string"
              }
            },
            "iotSiteWise": {
              "assetId": "string",
              "entryId": "string"
            }
          }
        ]
      }
    ]
  }
}
"propertyAlias": "string",
"propertyId": "string",
"propertyValue": {
    "quality": "string",
    "timestamp": {
        "offsetInNanos": "string",
        "timeInSeconds": "string"
    },
    "value": {
        "booleanValue": "string",
        "doubleValue": "string",
        "integerValue": "string",
        "stringValue": "string"
    }
},
"iotTopicPublish": {
    "mqttTopic": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"lambda": {
    "functionArn": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"resetTimer": {
    "timerName": "string"
},
"setTimer": {
    "durationExpression": "string",
    "seconds": number,
    "timerName": "string"
},
"setVariable": {
    "value": "string",
    "variableName": "string"
},
"sns": {
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "targetArn": "string"
},
"sqs": {
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "queueUrl": "string",
    "useBase64": boolean
},
"condition": "string",
"eventName": "string"
}
"events": [
{"actions": [

{"clearTimer": {
    "timerName": "string"
},
"dynamoDB": {
    "hashKeyField": "string",
    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "tableName": "string"
},
"dynamoDBv2": {
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "tableName": "string"
},
"firehose": {
    "deliveryStreamName": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "separator": "string"
},
"iotEvents": {
    "inputName": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"iotSiteWise": {
    "assetId": "string",
    "entryId": "string",
    "propertyAlias": "string",
    "propertyId": "string",
    "propertyValue": {
        "quality": "string",
        "timestamp": {
            "offsetInNanos": "string",
            "timeInSeconds": "string"
        },
        "value": {
            "booleanValue": "string",
            "doubleValue": "string",
            "integerValue": "string",
            "stringValue": "string"
        }
    }
},
"iotTopicPublish": {
    "mqttTopic": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
}]}
"type": "string"
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
}
"condition": "string",
"eventName": "string"
]}
"onInput": {
  "events": [
  {
    "actions": [
    {
      "clearTimer": {
        "timerName": "string"
      },
      "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payload": {
          "contentExpression": "string",
          "type": "string"
        },
        "payloadField": "string",
        "rangeKeyField": "string",
        "rangeKeyType": "string",
        "rangeKeyValue": "string",
        "tableName": "string"
      }
    }
  ]
}
"dynamodbv2": {
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "tableName": "string"
},
"firehose": {
    "deliveryStreamName": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    },
    "separator": "string"
},
"iotEvents": {
    "inputName": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"iotSiteWise": {
    "assetId": "string",
    "entryId": "string",
    "propertyAlias": "string",
    "propertyId": "string",
    "propertyValue": {
        "quality": "string",
        "timestamp": {
            "offsetInNanos": "string",
            "timeInSeconds": "string"
        },
        "value": {
            "booleanValue": "string",
            "doubleValue": "string",
            "integerValue": "string",
            "stringValue": "string"
        }
    }
},
"iotTopicPublish": {
    "mqttTopic": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"lambda": {
    "functionArn": "string",
    "payload": {
        "contentExpression": "string",
        "type": "string"
    }
},
"resetTimer": {
    "timerName": "string"
},
"setTimer": {
    "durationExpression": "string",
    "seconds": number,
    "timerName": "string"
},
"setVariable": {
    "value": "string",
"variableName": "string",
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
}
],
"condition": "string",
"eventName": "string"
},
"transitionEvents": [
  {
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "dynamoDB": {
          "hashKeyField": "string",
          "hashKeyType": "string",
          "hashKeyValue": "string",
          "operation": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "payloadField": "string",
          "rangeKeyField": "string",
          "rangeKeyType": "string",
          "rangeKeyValue": "string",
          "tableName": "string"
        },
        "dynamoDBv2": {
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "tableName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          }
        }
      }
    ]
  }
]
CreateDetectorModel

{
  "iotSiteWise": {
    "assetId": "string",
    "entryId": "string",
    "propertyAlias": "string",
    "propertyId": "string",
    "propertyValue": {
      "quality": "string",
      "timestamp": {
        "offsetInNanos": "string",
        "timeInSeconds": "string"
      },
      "value": {
        "booleanValue": "string",
        "doubleValue": "string",
        "integerValue": "string",
        "stringValue": "string"
      }
    }
  },
  "iotTopicPublish": {
    "mqttTopic": "string",
    "payload": {
      "contentExpression": "string",
      "type": "string"
    }
  },
  "lambda": {
    "functionArn": "string",
    "payload": {
      "contentExpression": "string",
      "type": "string"
    }
  },
  "resetTimer": {
    "timerName": "string"
  },
  "setTimer": {
    "durationExpression": "string",
    "seconds": number,
    "timerName": "string"
  },
  "setVariable": {
    "value": "string",
    "variableName": "string"
  },
  "sns": {
    "payload": {
      "contentExpression": "string",
      "type": "string"
    },
    "targetArn": "string"
  },
  "sqs": {
    "payload": {
      "contentExpression": "string",
      "type": "string"
    },
    "queueUrl": "string",
    "useBase64": boolean
  }
},
"condition": "string",
"eventName": "string",
"nextState": "string"
CreateDetectorModel

{
    "detectorModelDefinition": {
        "key": "string",
        "roleArn": "string",
        "tags": [
            {
                "key": "string",
                "value": "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. 90) 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


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

Required: Yes

**evaluationMethod (p. 4)**

Information about the order in which events are evaluated and how actions are executed.

Type: String
Valid Values: BATCH | SERIAL

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 in the message payload of each input to specify the attribute-value pair that is used to identify the device associated with the input.

Type: String


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. 123) 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. 12)

Information about how the detector model is configured.

Type: DetectorModelConfiguration (p. 88) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).

InternalFailureException

An internal failure occurred.

HTTP Status Code: 500

InvalidRequestException

The request was invalid.

HTTP Status Code: 400

LimitExceeded Exception

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 V3
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. 15)

The definition of the input.

Type: InputDefinition (p. 104) object

Required: Yes

inputDescription (p. 15)

A brief description of the input.

Type: String

Length Constraints: Maximum length of 128.

Required: No

inputName (p. 15)

The name you want to give to the input.

Type: String

Pattern: ^[a-zA-Z][a-zA-Z0-9_=]*$
Required: Yes

**tags** (p. 15)
Metadata that can be used to manage the input.
Type: Array of [Tag](p. 123) objects
Required: No

### Response Syntax

```plaintext
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. 16)
Information about the configuration of the input.
Type: [InputConfiguration](p. 102) object

### Errors
For information about the errors that are common to all actions, see [Common Errors](p. 144).

**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
- 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 V3
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 uses the following URI parameters.

detectorModelName (p. 18)

- The name of the detector model to be deleted.
- Pattern: `^[a-zA-Z0-9-_]+$`
- Required: Yes

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. 144).

**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 V3
DeleteInput
Service: AWS IoT Events
Deletes an input.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

**inputName (p. 20)**
The name of the input to delete.
Pattern: `^[a-zA-Z][a-zA-Z0-9-_]*$`
Required: Yes

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. 144)](#).

**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 V3
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 uses the following URI parameters.

detectorModelName (p. 22)

The name of the detector model.


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

Required: Yes

detectorModelVersion (p. 22)

The version of the detector model.


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"  
            },  
            "dynamoDB": {  
              "hashKeyField": "string",  
              "hashKeyType": "string",  
              "hashKeyValue": "string",  
              "operation": "string",  
              "payload": {  
                "contentExpression": "string",  
                "type": "string"  
              },  
              "payloadField": "string",  
              "rangeKeyField": "string",  
              "rangeKeyType": "string",  
              "rangeKeyValue": "string",  
              "tableName": "string"  
            },  
            "dynamoDBv2": {  
              "payload": {  
                "contentExpression": "string",  
                "type": "string"  
              },  
              "tableName": "string"  
            },  
            "firehose": {  
              "deliveryStreamName": "string",  
              "payload": {  
                "contentExpression": "string",  
                "type": "string"  
              },  
              "separator": "string"  
            },  
            "iotEvents": {  
              "inputName": "string",  
              "payload": {  
                "contentExpression": "string",  
                "type": "string"  
              }  
            },  
            "iotSiteWise": {  
              "assetId": "string",  
              "entryId": "string",  
              "propertyAlias": "string",  
              "propertyId": "string",  
              "propertyValue": {  
                "quality": "string",  
                "timestamp": {  
                  "offsetInNanos": "string",  
                  "timeInSeconds": "string"  
                },  
                "value": {  
                  "booleanValue": "string",  
                  "doubleValue": "string",  
                  "integerValue": "string",  
                  "stringValue": "string"  
                }  
              }  
            }  
          }  
        ]  
      }  
    ]  
  }  
}
"mqttTopic": "string",
"payload": {
  "contentExpression": "string",
  "type": "string"
}
,"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
},
"condition": "string",
"eventName": "string"
],
"onExit": {
  "events": [
  {
    "actions": [
    {
      "clearTimer": {
        "timerName": "string"
      }
    }],
    "dynamoDB": {
      "hashKeyField": "string",
      "hashKeyType": "string",
      "hashKeyValue": "string",
      "operation": "string",
      "payload": {
        "contentExpression": "string",
        "type": "string"
      },
      "payloadField": "string",
      "rangeKeyField": "string",
      "rangeKeyValue": "string"
    }
  }
],
"rangeKeyType": "string",
"rangeKeyValue": "string",
"tableName": "string",
}
}
},

dynamoDBv2": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "tableName": "string"
},
},
"firehose": {
  "deliveryStreamName": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "separator": "string"
},
"iotEvents": {
  "inputName": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"iotSiteWise": {
  "assetId": "string",
  "entryId": "string",
  "propertyAlias": "string",
  "propertyId": "string",
  "propertyValue": {
    "quality": "string",
    "timestamp": {
      "offsetInNanos": "string",
      "timeInSeconds": "string"
    },
    "value": {
      "booleanValue": "string",
      "doubleValue": "string",
      "integerValue": "string",
      "stringValue": "string"
    }
  }
},
"iotTopicPublish": {
  "mqttTopic": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
}
],
"condition": "string",
"eventName": "string"
}
},
"onInput": {
  "events": [
  {
    "actions": [
    {
      "clearTimer": {
        "timerName": "string"
      },
      "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payload": {
          "contentExpression": "string",
          "type": "string"
        },
        "payloadField": "string",
        "rangeKeyField": "string",
        "rangeKeyType": "string",
        "rangeKeyValue": "string",
        "tableName": "string"
      },
      "dynamoDBv2": {
        "payload": {
          "contentExpression": "string",
          "type": "string"
        },
        "tableName": "string"
      },
      "firehose": {
        "deliveryStreamName": "string",
        "payload": {
          "contentExpression": "string",
          "type": "string"
        },
        "separator": "string"
      },
      "iotEvents": {

"inputName": "string",
"payload": {
  "contentExpression": "string",
  "type": "string"
}
},
"iotSiteWise": {
  "assetId": "string",
  "entryId": "string",
  "propertyAlias": "string",
  "propertyId": "string",
  "propertyValue": {
    "quality": "string",
    "timestamp": {
      "offsetInNanos": "string",
      "timeInSeconds": "string"
    },
    "value": {
      "booleanValue": "string",
      "doubleValue": "string",
      "integerValue": "string",
      "stringValue": "string"
    }
  }
},
"iotTopicPublish": {
  "mqttTopic": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
}
},
  "condition": "string",
  "eventName": "string"
}]
],
"transitionEvents": [
  {
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "dynamoDB": {
          "hashKeyField": "string",
          "hashKeyType": "string",
          "hashKeyValue": "string",
          "operation": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "payloadField": "string",
          "rangeKeyField": "string",
          "rangeKeyType": "string",
          "rangeKeyValue": "string",
          "tableName": "string"
        },
        "dynamoDBv2": {
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "tableName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          }
        },
        "iotSiteWise": {
          "assetId": "string",
          "entryId": "string",
          "propertyAlias": "string",
          "propertyId": "string",
          "propertyValue": {
            "quality": "string",
            "timestamp": {
              "offsetInNanos": "string",
              "timeInSeconds": "string"
            },
            "value": {
              "booleanValue": "string",
              "doubleValue": "string",
              "integerValue": "string",
              "stringValue": "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. 22)**

Information about the detector model.

Type: **DetectorModel (p. 87) object**

**Errors**

For information about the errors that are common to all actions, see **Common Errors (p. 144)**.

- **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 V3
DescribeInput
Service: AWS IoT Events
Describes an input.

Request Syntax
GET /inputs/inputName HTTP/1.1

URI Request Parameters
The request uses the following URI parameters.

inputName (p. 31)
The name of the input.
Pattern: ^[a-zA-Z][a-zA-Z0-9_]*$
Required: Yes

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. 31)

Information about the input.

Type: Input (p. 101) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).

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 V3
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. 33)
   The current settings of the AWS IoT Events logging options.

   Type: LoggingOptions (p. 112) object

Errors
For information about the errors that are common to all actions, see Common Errors (p. 144).

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 V3
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 uses the following URI parameters.

- **maxResults (p. 35)**
  - The maximum number of results to return at one time.

- **nextToken (p. 35)**
  - 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. 35)**
  - Summary information about the detector models.
  - Type: Array of DetectorModelSummary (p. 91) objects
nextToken (p. 35)

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. 144).

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 V3
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 uses the following URI parameters.

detectorModelName (p. 37)

The name of the detector model whose versions are returned.


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

Required: Yes

maxResults (p. 37)

The maximum number of results to return at one time.


nextToken (p. 37)

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. 37)

Summary information about the detector model versions.

Type: Array of DetectorModelVersionSummary (p. 92) objects

e.nextToken (p. 37)

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. 144).

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 V3
**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 uses the following URI parameters.

- **maxResults** (p. 40)
  
The maximum number of results to return at one time.
  

- **nextToken** (p. 40)
  
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. 40)
  
  Summary information about the inputs.
  
  Type: Array of InputSummary (p. 105) objects
nextToken (p. 40)

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. 144).

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 V3
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 uses the following URI parameters.

resourceArn (p. 42)

The ARN of the resource.

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

Required: Yes

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. 42)

The list of tags assigned to the resource.

Type: Array of Tag (p. 123) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).
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 V3
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. 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. 44)

The new values of the AWS IoT Events logging options.

Type: LoggingOptions (p. 112) 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. 144).
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 V3
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 uses the following URI parameters.

resourceArn (p. 46)

The ARN of the resource.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 46)

The new or modified tags for the resource.

Type: Array of Tag (p. 123) 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. 144).
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 V3
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 uses the following URI parameters.

resourceArn (p. 48)

The ARN of the resource.
Length Constraints: Minimum length of 1. Maximum length of 2048.
Required: Yes

tagKeys (p. 48)

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

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. 144).

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 V3
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"
                                    }
                                },
                                {"dynamoDB": {
                                    "hashKeyField": "string",
                                    "hashKeyType": "string",
                                    "hashKeyValue": "string",
                                    "operation": "string",
                                    "payload": {
                                        "contentExpression": "String",
                                        "type": "string"
                                    }
                                },
                                "payloadField": "string",
                                "rangeKeyField": "string",
                                "rangeKeyType": "string",
                                "rangeKeyValue": "string",
                                "tableName": "string"
                            }
                        },
                        {"dynamoDBv2": {
                            "payload": {
                                "contentExpression": "string",
                                "type": "string"
                            }
                        },
                        "tableName": "string"
                    },
                    "firehose": {
                        "deliveryStreamName": "string",
                        "payload": {
                            "contentExpression": "string",
                            "type": "string"
                        },
                        "separator": "string"
                    }
                },
                "iotEvents": {
                    "inputName": "string",
                    "payload": {
                        "contentExpression": "string",
                        "type": "string"
                    }
                },
                "iotSiteWise": {
                    "assetId": "string",
                    "stateId": "string"
                }
            }
        ]
    }
}
"entryId": "string",
"propertyAlias": "string",
"propertyId": "string",
"propertyValue": {
  "quality": "string",
  "timestamp": {
    "offsetInNanos": "string",
    "timeInSeconds": "string"
  },
  "value": {
    "booleanValue": "string",
    "doubleValue": "string",
    "integerValue": "string",
    "stringValue": "string"
  }
},
"iotTopicPublish": {
  "mqttTopic": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
},
"condition": "string",
"eventName": "string"
}
"events": [
  { 
    "actions": [
      {
        "clearTimer": {
            "timerName": "string"
        },
        "dynamoDB": {
            "hashKeyField": "string",
            "hashKeyType": "string",
            "hashKeyValue": "string",
            "operation": "string",
            "payload": {
                "contentExpression": "string",
                "type": "string"
            },
            "payloadField": "string",
            "rangeKeyField": "string",
            "rangeKeyType": "string",
            "rangeKeyValue": "string",
            "tableName": "string"
        },
        "dynamoDBv2": {
            "payload": {
                "contentExpression": "string",
                "type": "string"
            },
            "tableName": "string"
        },
        "firehose": {
            "deliveryStreamName": "string",
            "payload": {
                "contentExpression": "string",
                "type": "string"
            },
            "separator": "string"
        },
        "iotEvents": {
            "inputName": "string",
            "payload": {
                "contentExpression": "string",
                "type": "string"
            } 
        },
        "iotSiteWise": {
            "assetId": "string",
            "entryId": "string",
            "propertyAlias": "string",
            "propertyId": "string",
            "propertyValue": {
                "quality": "string",
                "timestamp": {
                    "offsetInNanos": "string",
                    "timeInSeconds": "string"
                },
                "value": {
                    "booleanValue": "string",
                    "doubleValue": "string",
                    "integerValue": "string",
                    "stringValue": "string"
                }
            }
        },
        "iotTopicPublish": {
            "mqttTopic": "string",
            "payload": {
                "contentExpression": "string",
                "type": "string"
            }
        }
  } 
]
```
"contentExpression": "string",
"type": "string"
}
"lambda": {
"functionArn": "string",
"payload": {
"contentExpression": "string",
"type": "string"
}
"resetTimer": {
"timerName": "string"
"setTimer": {
"durationExpression": "string",
"seconds": number,
"timerName": "string"
"setVariable": {
"value": "string",
"variableName": "string"
"sns": {
"payload": {
"contentExpression": "string",
"type": "string"
"targetArn": "string"
"sqs": {
"payload": {
"contentExpression": "string",
"type": "string"
"queueUrl": "string",
"useBase64": boolean
```

```
```
```
"tableName": "string",
"
dynamoDBv2": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "tableName": "string"
},
"firehose": {
  "deliveryStreamName": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "separator": "string"
},
"iotEvents": {
  "inputName": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"iotSiteWise": {
  "assetId": "string",
  "entryId": "string",
  "propertyAlias": "string",
  "propertyId": "string",
  "propertyValue": {
    "quality": "string",
    "timestamp": {
      "offsetInNanos": "string",
      "timeInSeconds": "string"
    },
    "value": {
      "booleanValue": "string",
      "doubleValue": "string",
      "integerValue": "string",
      "stringValue": "string"
    }
  }
},
"iotTopicPublish": {
  "mqttTopic": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {

"value": "string",
"variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
}
],
"condition": "string",
"eventName": "string"
}
],
"transitionEvents": [
  {
    "actions": [
      {
        "clearTimer": {
          "timerName": "string"
        },
        "dynamoDB": {
          "hashKeyField": "string",
          "hashKeyType": "string",
          "hashKeyValue": "string",
          "operation": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "payloadField": "string",
          "rangeKeyField": "string",
          "rangeKeyType": "string",
          "rangeKeyValue": "string",
          "tableName": "string"
        },
        "dynamoDBv2": {
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "tableName": "string"
        },
        "firehose": {
          "deliveryStreamName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          },
          "separator": "string"
        },
        "iotEvents": {
          "inputName": "string",
          "payload": {
            "contentExpression": "string",
            "type": "string"
          }
        }
      }
    ]
  }
}
"iotSiteWise": {
  "assetId": "string",
  "entryId": "string",
  "propertyAlias": "string",
  "propertyId": "string",
  "propertyValue": {
    "quality": "string",
    "timestamp": {
      "offsetInNanos": "string",
      "timeInSeconds": "string"
    },
    "value": {
      "booleanValue": "string",
      "doubleValue": "string",
      "integerValue": "string",
      "stringValue": "string"
    }
  }
},
"iotTopicPublish": {
  "mqttTopic": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"lambda": {
  "functionArn": "string",
  "payload": {
    "contentExpression": "string",
    "type": "string"
  }
},
"resetTimer": {
  "timerName": "string"
},
"setTimer": {
  "durationExpression": "string",
  "seconds": number,
  "timerName": "string"
},
"setVariable": {
  "value": "string",
  "variableName": "string"
},
"sns": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "targetArn": "string"
},
"sqs": {
  "payload": {
    "contentExpression": "string",
    "type": "string"
  },
  "queueUrl": "string",
  "useBase64": boolean
},
"condition": "string",
"eventName": "string"}
UpdateDetectorModel

"nextState": "string"
]
}

"stateName": "string"
]
}

"detectorModelDescription": "string",
"evaluationMethod": "string",
"roleArn": "string"
}

URI Request Parameters

The request uses the following URI parameters.

detectorModelName (p. 50)

The name of the detector model that is updated.


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

Required: Yes

Request Body

The request accepts the following data in JSON format.

detectorModelDefinition (p. 50)

Information that defines how a detector operates.

Type: DetectorModelDefinition (p. 90) object

Required: Yes

detectorModelDescription (p. 50)

A brief description of the detector model.

Type: String

Length Constraints: Maximum length of 128.

Required: No

evaluationMethod (p. 50)

Information about the order in which events are evaluated and how actions are executed.

Type: String

Valid Values: BATCH | SERIAL

Required: No

roleArn (p. 50)

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. 58)

Information about how the detector model is configured.

Type: DetectorModelConfiguration (p. 88) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).

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 V3
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 uses the following URI parameters.

**inputName (p. 60)**

The name of the input you want to update.


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

Required: Yes

Request Body

The request accepts the following data in JSON format.

**inputDefinition (p. 60)**

The definition of the input.

Type: InputDefinition (p. 104) object

Required: Yes

**inputDescription (p. 60)**

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. 61)

  Information about the configuration of the input.

  Type: InputConfiguration (p. 102) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).

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 V3

AWS IoT Events Data

The following actions are supported by AWS IoT Events Data:

- BatchPutMessage (p. 63)
- BatchUpdateDetector (p. 65)
- DescribeDetector (p. 68)
- ListDetectors (p. 71)
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": "string"
      }
   ]
}

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

messages (p. 63)

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

Type: Array of Message (p. 135) 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. 63)**

A list of any errors encountered when sending the messages.

Type: Array of **BatchPutMessageErrorEntry (p. 126)** objects

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 144)].

**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 V3
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. 65)**

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

Type: Array of UpdateDetectorRequest (p. 138) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```
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. 65)**

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. 127) objects

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 144)](https://aws.amazon.com/documentation/iotevents/reference/#common-errors).

**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](https://aws.amazon.com/documentation/iotevents/reference/#aws-cli)
- [AWS SDK for .NET](https://aws.amazon.com/documentation/iotevents/reference/#net-sdk)
- [AWS SDK for C++](https://aws.amazon.com/documentation/iotevents/reference/#c-sdk)
• 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 V3
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 uses the following URI parameters.

**detectorModelName (p. 68)**

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


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

Required: Yes

**keyValue (p. 68)**

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


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

```json
{
  "detector": {
    "creationTime": number,
    "detectorModelName": "string",
    "detectorModelVersion": "string",
    "keyValue": "string",
    "lastUpdateTime": number,
    "state": {
      "stateName": "string",
      "timers": [
        {
          "name": "string",
          "timestamp": number
        }
      ],
      "variables": [
        {
          "name": "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. 68)

Information about the detector (instance).

Type: Detector (p. 128) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 144).

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 V3
**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 uses the following URI parameters.

- **detectorModelName (p. 71)**
  - The name of the detector model whose detectors (instances) are listed.
  - Pattern: `^[a-zA-Z0-9-_.]+$`
  - Required: Yes

- **maxResults (p. 71)**
  - The maximum number of results to return at one time.

- **nextToken (p. 71)**
  - The token for the next set of results.

- **stateName (p. 71)**
  - A filter that limits results to those detectors (instances) in the given state.

**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"
      }
    }
  ]
}
```
AWS IoT Events API Reference

ListDetectors

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. 71)

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

Type: Array of DetectorSummary (p. 133) objects

nextToken (p. 71)

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. 144).

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 V3
Data Types

The following data types are supported by AWS IoT Events:

- Action (p. 77)
- AssetPropertyTimestamp (p. 80)
- AssetPropertyValue (p. 81)
- AssetPropertyVariant (p. 82)
- Attribute (p. 84)
- ClearTimerAction (p. 85)
- DetectorDebugOption (p. 86)
- DetectorModel (p. 87)
- DetectorModelConfiguration (p. 88)
- DetectorModelDefinition (p. 90)
- DetectorModelSummary (p. 91)
- DetectorModelVersionSummary (p. 92)
- DynamoDBAction (p. 94)
- DynamoDBv2Action (p. 97)
- Event (p. 99)
- FirehoseAction (p. 100)
- Input (p. 101)
- InputConfiguration (p. 102)
- InputDefinition (p. 104)
- InputSummary (p. 105)
- IotEventsAction (p. 107)
- IotSiteWiseAction (p. 108)
- IotTopicPublishAction (p. 110)
- LambdaAction (p. 111)
- LoggingOptions (p. 112)
- OnEnterLifecycle (p. 113)
- OnExitLifecycle (p. 114)
- OnInputLifecycle (p. 115)
- Payload (p. 116)
- ResetTimerAction (p. 117)
- SetTimerAction (p. 118)
- SetVariableAction (p. 119)
- SNSTopicPublishAction (p. 120)
- SqsAction (p. 121)
- State (p. 122)
- Tag (p. 123)
- TransitionEvent (p. 124)

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

The following data types are supported by AWS IoT Events:

- **Action** (p. 77)
- **AssetPropertyTimestamp** (p. 80)
- **AssetPropertyValue** (p. 81)
- **AssetPropertyVariant** (p. 82)
- **Attribute** (p. 84)
- **ClearTimerAction** (p. 85)
- **DetectorDebugOption** (p. 86)
- **DetectorModel** (p. 87)
- **DetectorModelConfiguration** (p. 88)
- **DetectorModelDefinition** (p. 90)
- **DetectorModelSummary** (p. 91)
- **DetectorModelVersionSummary** (p. 92)
- **DynamoDBAction** (p. 94)
- **DynamoDBv2Action** (p. 97)
- **Event** (p. 99)
- **FirehoseAction** (p. 100)
- **Input** (p. 101)
- **InputConfiguration** (p. 102)
- **InputDefinition** (p. 104)
- **InputSummary** (p. 105)
- **IotEventsAction** (p. 107)
- **IotSiteWiseAction** (p. 108)
- **IotTopicPublishAction** (p. 110)
- **LambdaAction** (p. 111)
- **LoggingOptions** (p. 112)
- **OnEnterLifecycle** (p. 113)
- **OnExitLifecycle** (p. 114)
• OnInputLifecycle (p. 115)
• Payload (p. 116)
• ResetTimerAction (p. 117)
• SetTimerAction (p. 118)
• SetVariableAction (p. 119)
• SNSTopicPublishAction (p. 120)
• SqsAction (p. 121)
• State (p. 122)
• Tag (p. 123)
• TransitionEvent (p. 124)
**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. 85)` object

Required: No

**dynamoDB**

Writes to the DynamoDB table that you created. The default action payload contains all attribute-value pairs that have the information about the detector model instance and the event that triggered the action. You can customize the payload. One column of the DynamoDB table receives all attribute-value pairs in the payload that you specify. For more information, see Actions in AWS IoT Events Developer Guide.

Type: `DynamoDBAction (p. 94)` object

Required: No

**dynamoDBv2**

Writes to the DynamoDB table that you created. The default action payload contains all attribute-value pairs that have the information about the detector model instance and the event that triggered the action. You can customize the payload. A separate column of the DynamoDB table receives one attribute-value pair in the payload that you specify. For more information, see Actions in AWS IoT Events Developer Guide.

Type: `DynamoDBv2Action (p. 97)` object

Required: No

**firehose**

Sends information about the detector model instance and the event that triggered the action to an Amazon Kinesis Data Firehose delivery stream.

Type: `FirehoseAction (p. 100)` object

Required: No

**iotEvents**

Sends AWS IoT Events input, which passes information about the detector model instance and the event that triggered the action.

Type: `IotEventsAction (p. 107)` object

Required: No

**iotSiteWise**

Sends information about the detector model instance and the event that triggered the action to an asset property in AWS IoT SiteWise.

Type: `IotSiteWiseAction (p. 108)` object
Required: No  

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

Type: [IotTopicPublishAction](#) object  
Required: No  

**lambda**  
Calls a Lambda function, passing in information about the detector model instance and the event that triggered the action.

Type: [LambdaAction](#) object  
Required: No  

**resetTimer**  
Information needed to reset the timer.

Type: [ResetTimerAction](#) object  
Required: No  

**setTimer**  
Information needed to set the timer.

Type: [SetTimerAction](#) object  
Required: No  

**setVariable**  
Sets a variable to a specified value.

Type: [SetVariableAction](#) object  
Required: No  

**sns**  
Sends an Amazon SNS message.

Type: [SNSTopicPublishAction](#) object  
Required: No  

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

Type: [SqsAction](#) 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 V3
AssetPropertyTimestamp

Service: AWS IoT Events

A structure that contains timestamp information. For more information, see TimeInNanos in the AWS IoT SiteWise API Reference.

You must use expressions for all parameters in AssetPropertyTimestamp. The expressions accept literals, operators, functions, references, and substitution templates.

Examples

- For literal values, the expressions must contain single quotes. For example, the value for the timeInSeconds parameter can be '1586400675'.
- For references, you must specify either variables or input values. For example, the value for the offsetInNanoseconds parameter can be $variable.time.
- For a substitution template, you must use ${}, and the template must be in single quotes. A substitution template can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the timeInSeconds parameter uses a substitution template.

'${$input.TemperatureInput.sensorData.timestamp / 1000}''

For more information, see Syntax in the AWS IoT Events Developer Guide.

Contents

offsetInNanoseconds

The nanosecond offset converted from timeInSeconds. The valid range is between 0-999999999.

Type: String

Required: No

timeInSeconds

The timestamp, in seconds, in the Unix epoch format. The valid range is between 1-31556889864403199.

Type: String

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 V3
AssetPropertyValue

Service: AWS IoT Events

A structure that contains value information. For more information, see AssetPropertyValue in the AWS IoT SiteWise API Reference.

You must use expressions for all parameters in AssetPropertyValue. The expressions accept literals, operators, functions, references, and substitution templates.

Examples

- For literal values, the expressions must contain single quotes. For example, the value for the quality parameter can be 'GOOD'.
- For references, you must specify either variables or input values. For example, the value for the quality parameter can be $input.TemperatureInput.sensorData.quality.

For more information, see Syntax in the AWS IoT Events Developer Guide.

Contents

quality

The quality of the asset property value. The value must be 'GOOD', 'BAD', or 'UNCERTAIN'.

Type: String

Required: No

timestamp

The timestamp associated with the asset property value. The default is the current event time.

Type: AssetPropertyTimestamp (p. 80) object

Required: No

value

The value to send to an asset property.

Type: AssetPropertyVariant (p. 82) 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 V3
AssetPropertyVariant

Service: AWS IoT Events

A structure that contains an asset property value. For more information, see Variant in the AWS IoT SiteWise API Reference.

You must use expressions for all parameters in AssetPropertyVariant. The expressions accept literals, operators, functions, references, and substitution templates.

Examples

- For literal values, the expressions must contain single quotes. For example, the value for the integerValue parameter can be '100'.
- For references, you must specify either variables or parameters. For example, the value for the booleanValue parameter can be $variable.offline.
- For a substitution template, you must use ${}, and the template must be in single quotes. A substitution template can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the doubleValue parameter uses a substitution template.

'${$input.TemperatureInput.sensorData.temperature * 6 / 5 + 32}''

For more information, see Syntax in the AWS IoT Events Developer Guide.

You must specify one of the following value types, depending on the dataType of the specified asset property. For more information, see AssetProperty in the AWS IoT SiteWise API Reference.

Contents

booleanValue

The asset property value is a Boolean value that must be 'TRUE' or 'FALSE'. You must use an expression, and the evaluated result should be a Boolean value.

Type: String
Required: No

doubleValue

The asset property value is a double. You must use an expression, and the evaluated result should be a double.

Type: String
Required: No

integerValue

The asset property value is an integer. You must use an expression, and the evaluated result should be an integer.

Type: String
Required: No

stringValue

The asset property value is a string. You must use an expression, and the evaluated result should be a string.
Type: String
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 V3
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. 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 AWS IoT Events (BatchPutMessage). Each such message contains a JSON payload. 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


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 V3
ClearTimerAction
Service: AWS IoT Events

Information needed to clear the timer.

Contents

timerName
  The name of the timer to clear.
  Type: String
  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 V3
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


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


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 V3
DetectorModel

Service: AWS IoT Events

Information about the detector model.

Contents

detectorModelConfiguration

Information about how the detector is configured.

Type: DetectorModelConfiguration (p. 88) object

Required: No

detectorModelDefinition

Information that defines how a detector operates.

Type: DetectorModelDefinition (p. 90) 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 V3
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
Pattern: ^[a-zA-Z0-9-_.]+$
Required: No
detectorModelVersion
The version of the detector model.
Type: String
Required: No
evaluationMethod
Information about the order in which events are evaluated and how actions are executed.
Type: String
Valid Values: BATCH | SERIAL
Required: No
key
The value used to identify a detector instance. When a device or system sends input, a new detector instance with a unique key value is created. AWS IoT Events can continue to route input to its corresponding detector instance based on this identifying information.

This parameter uses a JSON-path expression to select the attribute-value pair in the message payload that is used for identification. To route the message to the correct detector instance, the device must send a message payload that contains the same attribute-value.

Type: String
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 V3
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
Required: Yes

states
Information about the states of the detector.
Type: Array of State (p. 122) 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 V3
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


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 V3
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
  Pattern: ^[a-zA-Z0-9-_]+$
  Required: No
detectorModelVersion
  The ID of the detector model version.
  Type: String
  Required: No
evaluationMethod
  Information about the order in which events are evaluated and how actions are executed.
  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 V3
DynamoDBAction

Service: AWS IoT Events

Defines an action to write to the Amazon DynamoDB table that you created. The standard action payload contains all the information about the detector model instance and the event that triggered the action. You can customize the payload. One column of the DynamoDB table receives all attribute-value pairs in the payload that you specify.

You must use expressions for all parameters in DynamoDBAction. The expressions accept literals, operators, functions, references, and substitution templates.

Examples

- For literal values, the expressions must contain single quotes. For example, the value for the hashKeyType parameter can be 'STRING'.
- For references, you must specify either variables or input values. For example, the value for the hashKeyField parameter can be $input.GreenhouseInput.name.
- For a substitution template, you must use {}, and the template must be in single quotes. A substitution template can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the hashKeyValue parameter uses a substitution template.

'${$input.GreenhouseInput.temperature * 6 / 5 + 32} in Fahrenheit'

- For a string concatenation, you must use +. A string concatenation can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the tableName parameter uses a string concatenation.

'GreenhouseTemperatureTable ' + $input.GreenhouseInput.date

For more information, see Syntax in the AWS IoT Events Developer Guide.

If the defined payload type is a string, DynamoDBAction writes non-JSON data to the DynamoDB table as binary data. The DynamoDB console displays the data as Base64-encoded text. The value for the payloadField parameter is <payload-field>_raw.

Contents

hashKeyField

The name of the hash key (also called the partition key). The hashKeyField value must match the partition key of the target DynamoDB table.

Type: String

Required: Yes

hashKeyType

The data type for the hash key (also called the partition key). You can specify the following values:

- 'STRING' - The hash key is a string.
- 'NUMBER' - The hash key is a number.

If you don't specify hashKeyType, the default value is 'STRING'.

Type: String
hashKeyValue

The value of the hash key (also called the partition key).

Required: Yes

Type: String

operation

The type of operation to perform. You can specify the following values:

- 'INSERT' - Insert data as a new item into the DynamoDB table. This item uses the specified hash key as a partition key. If you specified a range key, the item uses the range key as a sort key.
- 'UPDATE' - Update an existing item of the DynamoDB table with new data. This item's partition key must match the specified hash key. If you specified a range key, the range key must match the item's sort key.
- 'DELETE' - Delete an existing item of the DynamoDB table. This item's partition key must match the specified hash key. If you specified a range key, the range key must match the item's sort key.

If you don't specify this parameter, AWS IoT Events triggers the 'INSERT' operation.

Required: No

payload

Information needed to configure the payload.

By default, AWS IoT Events generates a standard payload in JSON for any action. This action payload contains all attribute-value pairs that have the information about the detector model instance and the event triggered the action. To configure the action payload, you can use `contentExpression`.

Type: `Payload (p. 116)` object

Required: No

payloadField

The name of the DynamoDB column that receives the action payload.

If you don't specify this parameter, the name of the DynamoDB column is `payload`.

Required: No

rangeKeyField

The name of the range key (also called the sort key). The `rangeKeyField` value must match the sort key of the target DynamoDB table.

Type: String

Required: No

rangeKeyType

The data type for the range key (also called the sort key). You can specify the following values:

- 'STRING' - The range key is a string.
- 'NUMBER' - The range key is number.
If you don't specify `rangeKeyField`, the default value is 'STRING'.

**rangeKeyField**

Type: String  
Required: No

**rangeKeyValue**

The value of the range key (also called the sort key).

Type: String  
Required: No

**tableName**

The name of the DynamoDB table. The `tableName` value must match the table name of the target DynamoDB table.

Type: String  
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 V3
**DynamoDBv2Action**

Service: AWS IoT Events

Defines an action to write to the Amazon DynamoDB table that you created. The default action payload contains all the information about the detector model instance and the event that triggered the action. You can customize the payload. A separate column of the DynamoDB table receives one attribute-value pair in the payload that you specify.

You must use expressions for all parameters in DynamoDBv2Action. The expressions accept literals, operators, functions, references, and substitution templates.

**Examples**

- For literal values, the expressions must contain single quotes. For example, the value for the `tableName` parameter can be 'GreenhouseTemperatureTable'.
- For references, you must specify either variables or input values. For example, the value for the `tableName` parameter can be `$variable.ddbtableName`.
- For a substitution template, you must use `{}`, and the template must be in single quotes. A substitution template can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the `contentExpression` parameter in `Payload` uses a substitution template.

```
'{"sensorID": "#$input.GreenhouseInput.sensor_id\", "temperature": "#$input.GreenhouseInput.temperature \* 9 / 5 + 32\"\}"'
```

- For a string concatenation, you must use `+`. A string concatenation can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the `tableName` parameter uses a string concatenation.

```
'GreenhouseTemperatureTable ' + $input.GreenhouseInput.date
```

For more information, see Syntax in the AWS IoT Events Developer Guide.

The value for the `type` parameter in `Payload` must be JSON.

**Contents**

- **payload**
  
  Information needed to configure the payload.

    By default, AWS IoT Events generates a standard payload in JSON for any action. This action payload contains all attribute-value pairs that have the information about the detector model instance and the event triggered the action. To configure the action payload, you can use `contentExpression`.

    Type: `Payload` (p. 116) object

    Required: No

- **tableName**
  
  The name of the DynamoDB table.

    Type: String

    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 V3
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. 77) 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 V3
FirehoseAction
Service: AWS IoT Events

Sends information about the detector model instance and the event that triggered the action to an Amazon 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

payload
You can configure the action payload when you send a message to an Amazon Kinesis Data Firehose delivery stream.
Type: Payload (p. 116) object
Required: No

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 V3
**Input**
Service: AWS IoT Events

Information about the input.

**Contents**

**inputConfiguration**

Information about the configuration of an input.

Type: `InputConfiguration (p. 102)` object

Required: No

**inputDefinition**

The definition of the input.

Type: `InputDefinition (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 V3
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
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 V3
**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. 84) 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 V3
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
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 V3
IotEventsAction

Service: AWS IoT Events

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

Contents

inputName

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

Type: String


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

Required: Yes

payload

You can configure the action payload when you send a message to an AWS IoT Events input.

Type: Payload (p. 116) 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 V3
IotSiteWiseAction
Service: AWS IoT Events

Sends information about the detector model instance and the event that triggered the action to a specified asset property in AWS IoT SiteWise.

You must use expressions for all parameters in IotSiteWiseAction. The expressions accept literals, operators, functions, references, and substitutions templates.

Examples
- For literal values, the expressions must contain single quotes. For example, the value for the propertyAlias parameter can be '/company/windfarm/3/turbine/7/temperature'.
- For references, you must specify either variables or input values. For example, the value for the assetId parameter can be $input.TurbineInput.assetId1.
- For a substitution template, you must use {}, and the template must be in single quotes. A substitution template can also contain a combination of literals, operators, functions, references, and substitution templates.

In the following example, the value for the propertyAlias parameter uses a substitution template.

'/company/windfarm/${$input.TemperatureInput.sensorData.windfarmID}/turbine/ ${$input.TemperatureInput.sensorData.turbineID}/temperature'

You must specify either propertyAlias or both assetId and propertyId to identify the target asset property in AWS IoT SiteWise.

For more information, see Syntax in the AWS IoT Events Developer Guide.

Contents

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>assetId</td>
<td>The ID of the asset that has the specified property.</td>
</tr>
<tr>
<td>Type: String</td>
<td>Required: No</td>
</tr>
<tr>
<td>entryId</td>
<td>A unique identifier for this entry. You can use the entry ID to track which data entry causes an error in case of failure. The default is a new unique identifier.</td>
</tr>
<tr>
<td>Type: String</td>
<td>Required: No</td>
</tr>
<tr>
<td>propertyAlias</td>
<td>The alias of the asset property.</td>
</tr>
<tr>
<td>Type: String</td>
<td>Required: No</td>
</tr>
<tr>
<td>propertyId</td>
<td>The ID of the asset property.</td>
</tr>
<tr>
<td>Type: String</td>
<td>Required: No</td>
</tr>
</tbody>
</table>
Type: String  
Required: No

**propertyValue**

The value to send to the asset property. This value contains timestamp, quality, and value (TQV) information.

Type: AssetPropertyValue (p. 81) 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 V3
IotTopicPublishAction

Service: AWS IoT Events

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

Contents

mqttTopic

The MQTT topic of the message. You can use a string expression that includes variables
($variable.<variable-name>) and input values ($input.<input-name>.<path-to-datum>)
as the topic string.

Type: String


Required: Yes

payload

You can configure the action payload when you publish a message to an AWS IoT Core topic.

Type: Payload (p. 116) 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 V3
LambdaAction
Service: AWS IoT Events

Calls a Lambda function, passing in information about the detector model instance and the event that triggered the action.

Contents

functionArn

The ARN of the Lambda function that is executed.

Type: String

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

Required: Yes

payload

You can configure the action payload when you send a message to a Lambda function.

Type: Payload (p. 116) 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 V3
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. 86) 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 V3
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. 99) 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 V3
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. 99) 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 V3
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. 99) objects

Required: No

transitionEvents

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

Type: Array of TransitionEvent (p. 124) 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 V3
Payload
Service: AWS IoT Events

Information needed to configure the payload.

By default, AWS IoT Events generates a standard payload in JSON for any action. This action payload contains all attribute-value pairs that have the information about the detector model instance and the event triggered the action. To configure the action payload, you can use `contentExpression`.

Contents

`contentExpression`

The content of the payload. You can use a string expression that includes quoted strings (`'<string>'`), variables (`$variable.<variable-name>`), input values (`$input.<input-name>.<path-to-datum>`), string concatenations, and quoted strings that contain `{{}}` as the content. The recommended maximum size of a content expression is 1 KB.

Type: String
Length Constraints: Minimum length of 1.
Required: Yes

`type`

The value of the payload type can be either `STRING` or `JSON`.

Type: String
Valid Values: STRING | JSON
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 V3
ResetTimerAction

Service: AWS IoT Events

Information required to reset the timer. The timer is reset to the previously evaluated result of the duration. The duration expression isn't reevaluated when you reset the timer.

Contents

timerName

The name of the timer to reset.

Type: String


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 V3
SetTimerAction
Service: AWS IoT Events

Information needed to set the timer.

Contents

durationExpression

The duration of the timer, in seconds. You can use a string expression that includes numbers, variables (\$variable.<variable-name>), and input values (\$input.<input-name>.<path-to-datum>) as the duration. The range of the duration is 1-31622400 seconds. To ensure accuracy, the minimum duration is 60 seconds. The evaluated result of the duration is rounded down to the nearest whole number.

Type: String


Required: No

seconds

This member has been deprecated.

The number of seconds until the timer expires. The minimum value is 60 seconds to ensure accuracy. The maximum value is 31622400 seconds.

Type: Integer

Required: No

timerName

The name of the timer.

Type: String


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 V3
SetVariableAction
Service: AWS IoT Events

Information about the variable and its new value.

Contents

value
The new value of the variable.
Type: String
Required: Yes

variableName
The name of the variable.
Type: String
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 V3
SNSTopicPublishAction

Service: AWS IoT Events

Information required to publish the Amazon SNS message.

Contents

payload

You can configure the action payload when you send a message as an Amazon SNS push notification.

Type: Payload (p. 116) object

Required: No

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 V3
SqsAction
Service: AWS IoT Events
Sends information about the detector model instance and the event that triggered the action to an Amazon SQS queue.

Contents

payload
You can configure the action payload when you send a message to an Amazon SQS queue.

Type: Payload (p. 116) object
Required: No

queueUrl
The URL of the 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 V3
**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. 113)` object

  Required: No

- **onExit**
  
  When exiting this state, perform these actions if the specified condition is TRUE.

  Type: `OnExitLifecycle (p. 114)` object

  Required: No

- **onInput**
  
  When an input is received and the condition is TRUE, perform the specified actions.

  Type: `OnInputLifecycle (p. 115)` object

  Required: No

- **stateName**
  
  The name of the state.

  Type: String


  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 V3
Tag
Service: AWS IoT Events
Metadata that can be used to manage the resource.

Contents

key
The tag's key.
Type: String
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 V3
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. 77) 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


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 V3

AWS IoT Events Data

The following data types are supported by AWS IoT Events Data:
• BatchPutMessageErrorEntry (p. 126)
• BatchUpdateDetectorErrorEntry (p. 127)
• Detector (p. 128)
• DetectorState (p. 130)
• DetectorStateDefinition (p. 131)
• DetectorStateSummary (p. 132)
• DetectorSummary (p. 133)
• Message (p. 135)
• Timer (p. 136)
• TimerDefinition (p. 137)
• UpdateDetectorRequest (p. 138)
• Variable (p. 140)
• VariableDefinition (p. 141)
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 V3
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 V3
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
Pattern: ^[a-zA-Z0-9_\-]+$  
Required: No
detectorModelVersion
The version of the detector model that created this detector (instance).
Type: String
Required: No
keyValue
The value of the key (identifying the device or system) that caused the creation of this detector (instance).
Type: String
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. 130) 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 V3
**DetectorState**

Service: AWS IoT Events Data

Information about the current state of the detector instance.

**Contents**

**stateName**

The name of the state.

Type: String


Required: Yes

**timers**

The current state of the detector's timers.

Type: Array of Timer (p. 136) objects

Required: Yes

**variables**

The current values of the detector's variables.

Type: Array of Variable (p. 140) 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 V3
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


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. 137) 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. 141) 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 V3
DetectorStateSummary
Service: AWS IoT Events Data

Information about the detector state.

Contents

stateName

The name of the state.

Type: String


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 V3
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
Pattern: ^[\-a-zA-Z0-9]+$  
Required: No
detectorModelVersion
The version of the detector model that created this detector (instance).
Type: String
Required: No
keyValue
The value of the key (identifying the device or system) that caused the creation of this detector (instance).
Type: String
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. 132) 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 V3
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


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 V3
Timer
Service: AWS IoT Events Data
The current state of a timer.

Contents

name
   The name of the timer.
   Type: String
   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 V3
TimerDefinition
Service: AWS IoT Events Data

The new setting of a timer.

Contents

name

The name of the timer.

Type: String


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 V3
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
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
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. 131) 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 V3
Variable
Service: AWS IoT Events Data
The current state of the variable.

Contents

name
The name of the variable.
Type: String
Pattern: ^[a-zA-Z][a-zA-Z0-9\_]*$
Required: Yes

value
The current value of the variable.
Type: String
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 V3
VariableDefinition
Service: AWS IoT Events Data

The new value of the variable.

Contents

name
The name of the variable.
Type: String
Pattern: \^[a-zA-Z][a-zA-Z0-9_]*$
Required: Yes

value
The new value of the variable.
Type: String
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 V3
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'T'HHMMSSZ"). 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

NotAuthorized

You do not have permission to perform this action.

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