

# Amazon IoT Events Data



# Amazon IoT Events Data: API Reference

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# Welcome

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

For more information, see [What is Amazon IoT Events?](#) in the *Amazon IoT Events Developer Guide*.

This document was last published on February 14, 2026.

# Actions

The following actions are supported:

- [BatchAcknowledgeAlarm](#)
- [BatchDeleteDetector](#)
- [BatchDisableAlarm](#)
- [BatchEnableAlarm](#)
- [BatchPutMessage](#)
- [BatchResetAlarm](#)
- [BatchSnoozeAlarm](#)
- [BatchUpdateDetector](#)
- [DescribeAlarm](#)
- [DescribeDetector](#)
- [ListAlarms](#)
- [ListDetectors](#)

# BatchAcknowledgeAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Acknowledges one or more alarms. The alarms change to the ACKNOWLEDGED state after you acknowledge them.

## Request Syntax

```
POST /alarms/acknowledge HTTP/1.1
Content-type: application/json

{
  "acknowledgeActionRequests": [
    {
      "alarmModelName": "string",
      "keyValue": "string",
      "note": "string",
      "requestId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### acknowledgeActionRequests

The list of acknowledge action requests. You can specify up to 10 requests per operation.

Type: Array of [AcknowledgeAlarmActionRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "errorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "requestId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

### [errorEntries](#)

A list of errors associated with the request, or null if there are no errors. Each error entry contains an entry ID that helps you identify the entry that failed.

Type: Array of [BatchAlarmActionErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.

**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchDeleteDetector

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Deletes one or more detectors that were created. When a detector is deleted, its state will be cleared and the detector will be removed from the list of detectors. The deleted detector will no longer appear if referenced in the [ListDetectors](#) API call.

## Request Syntax

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

{
  "detectors": [
    {
      "detectorModelName": "string",
      "keyValue": "string",
      "messageId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [detectors](#)

The list of one or more detectors to be deleted.

Type: Array of [DeleteDetectorRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

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

{
  "batchDeleteDetectorErrorEntries": [
    {
      "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.

### [batchDeleteDetectorErrorEntries](#)

A list of errors associated with the request, or an empty array ([]) if there are no errors. Each error entry contains a messageId that helps you identify the entry that failed.

Type: Array of [BatchDeleteDetectorErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.



**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchDisableAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Disables one or more alarms. The alarms change to the DISABLED state after you disable them.

## Request Syntax

```
POST /alarms/disable HTTP/1.1
Content-type: application/json

{
  "disableActionRequests": [
    {
      "alarmModelName": "string",
      "keyValue": "string",
      "note": "string",
      "requestId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### disableActionRequests

The list of disable action requests. You can specify up to 10 requests per operation.

Type: Array of [DisableAlarmActionRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "errorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "requestId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

### [errorEntries](#)

A list of errors associated with the request, or null if there are no errors. Each error entry contains an entry ID that helps you identify the entry that failed.

Type: Array of [BatchAlarmActionErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.

**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

**See Also**

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchEnableAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Enables one or more alarms. The alarms change to the NORMAL state after you enable them.

## Request Syntax

```
POST /alarms/enable HTTP/1.1
Content-type: application/json

{
  "enableActionRequests": [
    {
      "alarmModelName": "string",
      "keyValue": "string",
      "note": "string",
      "requestId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### enableActionRequests

The list of enable action requests. You can specify up to 10 requests per operation.

Type: Array of [EnableAlarmActionRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "errorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "requestId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

### [errorEntries](#)

A list of errors associated with the request, or null if there are no errors. Each error entry contains an entry ID that helps you identify the entry that failed.

Type: Array of [BatchAlarmActionErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.



**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

**See Also**

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchPutMessage

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Sends a set of messages to the Amazon 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.

The following limits apply:

- Maximum messages per batch: 10
- Maximum message payload per batch: 1024 Bytes (1 KiB)

## Request Syntax

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

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

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### messages

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

Type: Array of [Message](#) 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](#)

A list of any errors encountered when sending the messages.

Type: Array of [BatchPutMessageErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### InvalidRequestException

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

### ServiceUnavailableException

The service is currently unavailable.

#### **message**

The message for the exception.

HTTP Status Code: 503

### ThrottlingException

The request could not be completed due to throttling.

#### **message**

The message for the exception.

## HTTP Status Code: 429

### See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# BatchResetAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Resets one or more alarms. The alarms return to the NORMAL state after you reset them.

## Request Syntax

```
POST /alarms/reset HTTP/1.1
Content-type: application/json

{
  "resetActionRequests": [
    {
      "alarmModelName": "string",
      "keyValue": "string",
      "note": "string",
      "requestId": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [resetActionRequests](#)

The list of reset action requests. You can specify up to 10 requests per operation.

Type: Array of [ResetAlarmActionRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "errorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "requestId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

### [errorEntries](#)

A list of errors associated with the request, or null if there are no errors. Each error entry contains an entry ID that helps you identify the entry that failed.

Type: Array of [BatchAlarmActionErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.



**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchSnoozeAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Changes one or more alarms to the snooze mode. The alarms change to the SNOOZE\_DISABLED state after you set them to the snooze mode.

## Request Syntax

```
POST /alarms/snooze HTTP/1.1
Content-type: application/json

{
  "snoozeActionRequests": [
    {
      "alarmModelName": "string",
      "keyValue": "string",
      "note": "string",
      "requestId": "string",
      "snoozeDuration": number
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### snoozeActionRequests

The list of snooze action requests. You can specify up to 10 requests per operation.

Type: Array of [SnoozeAlarmActionRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "errorEntries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "requestId": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

### [errorEntries](#)

A list of errors associated with the request, or null if there are no errors. Each error entry contains an entry ID that helps you identify the entry that failed.

Type: Array of [BatchAlarmActionErrorEntry](#) objects

## Errors

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

### InternalFailureException

An internal failure occurred.

**message**

The message for the exception.

HTTP Status Code: 500

**InvalidRequestException**

The request was invalid.

**message**

The message for the exception.

HTTP Status Code: 400

**ServiceUnavailableException**

The service is currently unavailable.

**message**

The message for the exception.

HTTP Status Code: 503

**ThrottlingException**

The request could not be completed due to throttling.

**message**

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

# BatchUpdateDetector

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

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

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

Type: Array of [UpdateDetectorRequest](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## Response Syntax

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

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

## Response Elements

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

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



## **batchUpdateDetectorErrorEntries**

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](#) objects

## **Errors**

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

### **InternalFailureException**

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### **InvalidRequestException**

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

### **ServiceUnavailableException**

The service is currently unavailable.

#### **message**

The message for the exception.

HTTP Status Code: 503

### **ThrottlingException**

The request could not be completed due to throttling.

#### **message**

The message for the exception.

## HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# DescribeAlarm

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Retrieves information about an alarm.

## Request Syntax

```
GET /alarms/alarmModelName/keyValues/?keyValue=keyValue HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### alarmModelName

The name of the alarm model.

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

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

Required: Yes

### keyValue

The value of the key used as a filter to select only the alarms associated with the [key](#).

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

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

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "alarm": {
    "alarmModelName": "string",
    "alarmModelVersion": "string",
    "alarmState": {
      "customerAction": {
        "acknowledgeActionConfiguration": {
          "note": "string"
        },
        "actionName": "string",
        "disableActionConfiguration": {
          "note": "string"
        },
        "enableActionConfiguration": {
          "note": "string"
        },
        "resetActionConfiguration": {
          "note": "string"
        },
        "snoozeActionConfiguration": {
          "note": "string",
          "snoozeDuration": number
        }
      },
      "ruleEvaluation": {
        "simpleRuleEvaluation": {
          "inputPropertyValue": "string",
          "operator": "string",
          "thresholdValue": "string"
        }
      },
      "stateName": "string",
      "systemEvent": {
        "eventType": "string",
        "stateChangeConfiguration": {
          "triggerType": "string"
        }
      }
    }
  }
}
```

```
    },  
    "creationTime": number,  
    "keyValue": "string",  
    "lastUpdateTime": number,  
    "severity": number  
  }  
}
```

## 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.

### alarm

Contains information about an alarm.

Type: [Alarm](#) object

## Errors

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

### InternalFailureException

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### InvalidRequestException

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

## ResourceNotFoundException

The resource was not found.

### message

The message for the exception.

HTTP Status Code: 404

## ServiceUnavailableException

The service is currently unavailable.

### message

The message for the exception.

HTTP Status Code: 503

## ThrottlingException

The request could not be completed due to throttling.

### message

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)

- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# DescribeDetector

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

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

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

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

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

Required: Yes

### keyValue

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

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

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

## Request Body

The request does not have a request body.



## Response Syntax

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

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

## Response Elements

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

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

### detector

Information about the detector (instance).

Type: [Detector](#) object

## Errors

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

### **InternalFailureException**

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### **InvalidRequestException**

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource was not found.

#### **message**

The message for the exception.

HTTP Status Code: 404

### **ServiceUnavailableException**

The service is currently unavailable.

#### **message**

The message for the exception.

HTTP Status Code: 503

### **ThrottlingException**

The request could not be completed due to throttling.

## message

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# ListAlarms

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

Lists one or more alarms. The operation returns only the metadata associated with each alarm.

## Request Syntax

```
GET /alarms/alarmModelName?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### alarmModelName

The name of the alarm model.

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

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

Required: Yes

### maxResults

The maximum number of results to be returned per request.

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

### nextToken

The token that you can use to return 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

{
  "alarmSummaries": [
    {
      "alarmModelName": "string",
      "alarmModelVersion": "string",
      "creationTime": number,
      "keyValue": "string",
      "lastUpdateTime": number,
      "stateName": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### alarmSummaries

A list that summarizes each alarm.

Type: Array of [AlarmSummary](#) objects

### nextToken

The token that you can use to return the next set of results, or `null` if there are no more results.

Type: String

## Errors

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

### **InternalFailureException**

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### **InvalidRequestException**

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource was not found.

#### **message**

The message for the exception.

HTTP Status Code: 404

### **ServiceUnavailableException**

The service is currently unavailable.

#### **message**

The message for the exception.

HTTP Status Code: 503

### **ThrottlingException**

The request could not be completed due to throttling.

## message

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# ListDetectors

## Important

End of support notice: On May 20,2026, Amazon will end support for Amazon IoT Events. After May 20,2026, you will no longer be able to access the Amazon IoT Events console or Amazon IoT Events resources. For more information, see [Amazon IoT Events end of support](#).

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

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

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

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

Required: Yes

### maxResults

The maximum number of results to be returned per request.

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

### nextToken

The token that you can use to return the next set of results.



## stateName

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

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

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "detectorSummaries": [
    {
      "creationTime": number,
      "detectorModelName": "string",
      "detectorModelVersion": "string",
      "keyValue": "string",
      "lastUpdateTime": number,
      "state": {
        "stateName": "string"
      }
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### detectorSummaries

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

Type: Array of [DetectorSummary](#) objects

## **nextToken**

The token that you can use to return the next set of results, or `null` if there are no more results.

Type: String

## **Errors**

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

### **InternalFailureException**

An internal failure occurred.

#### **message**

The message for the exception.

HTTP Status Code: 500

### **InvalidRequestException**

The request was invalid.

#### **message**

The message for the exception.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource was not found.

#### **message**

The message for the exception.

HTTP Status Code: 404

### **ServiceUnavailableException**

The service is currently unavailable.

#### **message**

The message for the exception.

HTTP Status Code: 503

## ThrottlingException

The request could not be completed due to throttling.

### message

The message for the exception.

HTTP Status Code: 429

## See Also

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

- [Amazon Command Line Interface V2](#)
- [Amazon SDK for .NET V4](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript V3](#)
- [Amazon SDK for Kotlin](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

# Data Types

The Amazon IoT Events Data API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AcknowledgeActionConfiguration](#)
- [AcknowledgeAlarmActionRequest](#)
- [Alarm](#)
- [AlarmState](#)
- [AlarmSummary](#)
- [BatchAlarmActionErrorEntry](#)
- [BatchDeleteDetectorErrorEntry](#)
- [BatchPutMessageErrorEntry](#)
- [BatchUpdateDetectorErrorEntry](#)
- [CustomerAction](#)
- [DeleteDetectorRequest](#)
- [Detector](#)
- [DetectorState](#)
- [DetectorStateDefinition](#)
- [DetectorStateSummary](#)
- [DetectorSummary](#)
- [DisableActionConfiguration](#)
- [DisableAlarmActionRequest](#)
- [EnableActionConfiguration](#)
- [EnableAlarmActionRequest](#)

- [Message](#)
- [ResetActionConfiguration](#)
- [ResetAlarmActionRequest](#)
- [RuleEvaluation](#)
- [SimpleRuleEvaluation](#)
- [SnoozeActionConfiguration](#)
- [SnoozeAlarmActionRequest](#)
- [StateChangeConfiguration](#)
- [SystemEvent](#)
- [Timer](#)
- [TimerDefinition](#)
- [TimestampValue](#)
- [UpdateDetectorRequest](#)
- [Variable](#)
- [VariableDefinition](#)

# AcknowledgeActionConfiguration

Contains the configuration information of an acknowledge action.

## Contents

### note

The note that you can leave when you acknowledge the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# AcknowledgeAlarmActionRequest

Information needed to acknowledge the alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: Yes

### **requestId**

The request ID. Each ID must be unique within each batch.

Type: String

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

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

Required: Yes

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **note**

The note that you can leave when you acknowledge the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)



# Alarm

Contains information about an alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: No

### **alarmModelVersion**

The version of the alarm model.

Type: String

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

Required: No

### **alarmState**

Contains information about the current state of the alarm.

Type: [AlarmState](#) object

Required: No

### **creationTime**

The time the alarm was created, in the Unix epoch format.

Type: Timestamp

Required: No

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **lastUpdateTime**

The time the alarm was last updated, in the Unix epoch format.

Type: Timestamp

Required: No

### **severity**

A non-negative integer that reflects the severity level of the alarm.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# AlarmState

Contains information about the current state of the alarm.

## Contents

### customerAction

Contains information about the action that you can take to respond to the alarm.

Type: [CustomerAction](#) object

Required: No

### ruleEvaluation

Information needed to evaluate data.

Type: [RuleEvaluation](#) object

Required: No

### stateName

The name of the alarm state. The state name can be one of the following values:

- **DISABLED** - When the alarm is in the DISABLED state, it isn't ready to evaluate data. To enable the alarm, you must change the alarm to the NORMAL state.
- **NORMAL** - When the alarm is in the NORMAL state, it's ready to evaluate data.
- **ACTIVE** - If the alarm is in the ACTIVE state, the alarm is invoked.
- **ACKNOWLEDGED** - When the alarm is in the ACKNOWLEDGED state, the alarm was invoked and you acknowledged the alarm.
- **SNOOZE\_DISABLED** - When the alarm is in the SNOOZE\_DISABLED state, the alarm is disabled for a specified period of time. After the snooze time, the alarm automatically changes to the NORMAL state.
- **LATCHED** - When the alarm is in the LATCHED state, the alarm was invoked. However, the data that the alarm is currently evaluating is within the specified range. To change the alarm to the NORMAL state, you must acknowledge the alarm.

Type: String

Valid Values: DISABLED | NORMAL | ACTIVE | ACKNOWLEDGED | SNOOZE\_DISABLED | LATCHED

Required: No

## **systemEvent**

Contains information about alarm state changes.

Type: [SystemEvent](#) object

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# AlarmSummary

Contains a summary of an alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: No

### **alarmModelVersion**

The version of the alarm model.

Type: String

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

Required: No

### **creationTime**

The time the alarm was created, in the Unix epoch format.

Type: Timestamp

Required: No

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

## **lastUpdateTime**

The time the alarm was last updated, in the Unix epoch format.

Type: Timestamp

Required: No

## **stateName**

The name of the alarm state. The state name can be one of the following values:

- **DISABLED** - When the alarm is in the **DISABLED** state, it isn't ready to evaluate data. To enable the alarm, you must change the alarm to the **NORMAL** state.
- **NORMAL** - When the alarm is in the **NORMAL** state, it's ready to evaluate data.
- **ACTIVE** - If the alarm is in the **ACTIVE** state, the alarm is invoked.
- **ACKNOWLEDGED** - When the alarm is in the **ACKNOWLEDGED** state, the alarm was invoked and you acknowledged the alarm.
- **SNOOZE\_DISABLED** - When the alarm is in the **SNOOZE\_DISABLED** state, the alarm is disabled for a specified period of time. After the snooze time, the alarm automatically changes to the **NORMAL** state.
- **LATCHED** - When the alarm is in the **LATCHED** state, the alarm was invoked. However, the data that the alarm is currently evaluating is within the specified range. To change the alarm to the **NORMAL** state, you must acknowledge the alarm.

Type: String

Valid Values: **DISABLED** | **NORMAL** | **ACTIVE** | **ACKNOWLEDGED** | **SNOOZE\_DISABLED** | **LATCHED**

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)

- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# BatchAlarmActionErrorEntry

Contains error messages associated with one of the following requests:

- [BatchAcknowledgeAlarm](#)
- [BatchDisableAlarm](#)
- [BatchEnableAlarm](#)
- [BatchResetAlarm](#)
- [BatchSnoozeAlarm](#)

## Contents

### errorCode

The error code.

Type: String

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

Required: No

### errorMessage

A message that describes the error.

Type: String

Required: No

### requestId

The request ID. Each ID must be unique within each batch.

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# BatchDeleteDetectorErrorEntry

Contains error messages associated with the deletion request.

## Contents

### errorCode

The error code.

Type: String

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

Required: No

### errorMessage

A message that describes the error.

Type: String

Required: No

### messageId

The ID of the message that caused the error. (See the value of the "messageId" in the [detectors](#) object of the `DeleteDetectorRequest`.)

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# BatchPutMessageErrorEntry

Contains information about the errors encountered.

## Contents

### errorCode

The error code.

Type: String

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

Required: No

### errorMessage

A message that describes 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# BatchUpdateDetectorErrorEntry

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

## Contents

### errorCode

The error code.

Type: String

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

Required: No

### errorMessage

A message that describes 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# CustomerAction

Contains information about the action that you can take to respond to the alarm.

## Contents

### acknowledgeActionConfiguration

Contains the configuration information of an acknowledge action.

Type: [AcknowledgeActionConfiguration](#) object

Required: No

### actionName

The name of the action. The action name can be one of the following values:

- SNOOZE - When you snooze the alarm, the alarm state changes to SNOOZE\_DISABLED.
- ENABLE - When you enable the alarm, the alarm state changes to NORMAL.
- DISABLE - When you disable the alarm, the alarm state changes to DISABLED.
- ACKNOWLEDGE - When you acknowledge the alarm, the alarm state changes to ACKNOWLEDGED.
- RESET - When you reset the alarm, the alarm state changes to NORMAL.

For more information, see the [AlarmState](#) API.

Type: String

Valid Values: SNOOZE | ENABLE | DISABLE | ACKNOWLEDGE | RESET

Required: No

### disableActionConfiguration

Contains the configuration information of a disable action.

Type: [DisableActionConfiguration](#) object

Required: No

### enableActionConfiguration

Contains the configuration information of an enable action.



Type: [EnableActionConfiguration](#) object

Required: No

### **resetActionConfiguration**

Contains the configuration information of a reset action.

Type: [ResetActionConfiguration](#) object

Required: No

### **snoozeActionConfiguration**

Contains the configuration information of a snooze action.

Type: [SnoozeActionConfiguration](#) object

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DeleteDetectorRequest

Information used to delete the detector model.

## Contents

### detectorModelName

The name of the detector model that was used to create the detector instance.

Type: String

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

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

Required: Yes

### messageId

The ID to assign to the DeleteDetectorRequest. 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

### keyValue

The value of the [key](#) used to identify the detector.

Type: String

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

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

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# Detector

Information about the detector (instance).

## Contents

### **creationTime**

The time the detector (instance) was created.

Type: Timestamp

Required: No

### **detectorModelName**

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

Type: String

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

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

Required: No

### **detectorModelVersion**

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

Type: String

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

Required: No

### **keyValue**

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

Type: String

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

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

Required: No

### **lastUpdateTime**

The time the detector (instance) was last updated.

Type: Timestamp

Required: No

### **state**

The current state of the detector (instance).

Type: [DetectorState](#) object

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DetectorState

Information about the current state of the detector instance.

## Contents

### stateName

The name of the state.

Type: String

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

Required: Yes

### timers

The current state of the detector's timers.

Type: Array of [Timer](#) objects

Required: Yes

### variables

The current values of the detector's variables.

Type: Array of [Variable](#) objects

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DetectorStateDefinition

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

## Contents

### stateName

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

Type: String

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

Required: Yes

### timers

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

Type: Array of [TimerDefinition](#) 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](#) objects

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)





# DetectorStateSummary

Information about the detector state.

## Contents

### stateName

The name of the state.

Type: String

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

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DetectorSummary

Information about the detector (instance).

## Contents

### **creationTime**

The time the detector (instance) was created.

Type: Timestamp

Required: No

### **detectorModelName**

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

Type: String

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

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

Required: No

### **detectorModelVersion**

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

Type: String

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

Required: No

### **keyValue**

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

Type: String

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

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

Required: No

### **lastUpdateTime**

The time the detector (instance) was last updated.

Type: Timestamp

Required: No

### **state**

The current state of the detector (instance).

Type: [DetectorStateSummary](#) object

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DisableActionConfiguration

Contains the configuration information of a disable action.

## Contents

### note

The note that you can leave when you disable the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# DisableAlarmActionRequest

Information used to disable the alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: Yes

### **requestId**

The request ID. Each ID must be unique within each batch.

Type: String

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

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

Required: Yes

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **note**

The note that you can leave when you disable the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# EnableActionConfiguration

Contains the configuration information of an enable action.

## Contents

### note

The note that you can leave when you enable the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# EnableAlarmActionRequest

Information needed to enable the alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: Yes

### **requestId**

The request ID. Each ID must be unique within each batch.

Type: String

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

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

Required: Yes

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **note**

The note that you can leave when you enable the alarm.



Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# Message

Information about a message.

## Contents

### **inputName**

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

Type: String

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

Pattern: `^[a-zA-Z0-9][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

### **timestamp**

The timestamp associated with the message.

Type: [TimestampValue](#) object

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# ResetActionConfiguration

Contains the configuration information of a reset action.

## Contents

### note

The note that you can leave when you reset the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# ResetAlarmActionRequest

Information needed to reset the alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: Yes

### **requestId**

The request ID. Each ID must be unique within each batch.

Type: String

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

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

Required: Yes

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **note**

The note that you can leave when you reset the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# RuleEvaluation

Information needed to evaluate data.

## Contents

### simpleRuleEvaluation

Information needed to compare two values with a comparison operator.

Type: [SimpleRuleEvaluation](#) object

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# SimpleRuleEvaluation

Information needed to compare two values with a comparison operator.

## Contents

### inputPropertyValue

The value of the input property, on the left side of the comparison operator.

Type: String

Required: No

### operator

The comparison operator.

Type: String

Valid Values: GREATER | GREATER\_OR\_EQUAL | LESS | LESS\_OR\_EQUAL | EQUAL | NOT\_EQUAL

Required: No

### thresholdValue

The threshold value, on the right side of the comparison operator.

Type: String

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)





# SnoozeActionConfiguration

Contains the configuration information of a snooze action.

## Contents

### note

The note that you can leave when you snooze the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### snoozeDuration

The snooze time in seconds. The alarm automatically changes to the NORMAL state after this duration.

Type: Integer

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# SnoozeAlarmActionRequest

Information needed to snooze the alarm.

## Contents

### **alarmModelName**

The name of the alarm model.

Type: String

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

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

Required: Yes

### **requestId**

The request ID. Each ID must be unique within each batch.

Type: String

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

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

Required: Yes

### **snoozeDuration**

The snooze time in seconds. The alarm automatically changes to the NORMAL state after this duration.

Type: Integer

Required: Yes

### **keyValue**

The value of the key used as a filter to select only the alarms associated with the [key](#).

Type: String

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

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

Required: No

### **note**

The note that you can leave when you snooze the alarm.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## **See Also**

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# StateChangeConfiguration

Contains the configuration information of alarm state changes.

## Contents

### triggerType

The trigger type. If the value is SNOOZE\_TIMEOUT, the snooze duration ends and the alarm automatically changes to the NORMAL state.

Type: String

Valid Values: SNOOZE\_TIMEOUT

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# SystemEvent

Contains information about alarm state changes.

## Contents

### eventType

The event type. If the value is `STATE_CHANGE`, the event contains information about alarm state changes.

Type: String

Valid Values: `STATE_CHANGE`

Required: No

### stateChangeConfiguration

Contains the configuration information of alarm state changes.

Type: [StateChangeConfiguration](#) object

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# Timer

The current state of a timer.

## Contents

### **name**

The name of the timer.

Type: String

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

Required: Yes

### **timestamp**

The expiration time for the timer.

Type: Timestamp

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# TimerDefinition

The new setting of a timer.

## Contents

### name

The name of the timer.

Type: String

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

Required: Yes

### seconds

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

Type: Integer

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)



# TimestampValue

Contains information about a timestamp.

## Contents

### timeInMillis

The value of the timestamp, in the Unix epoch format.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 9223372036854775807.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# UpdateDetectorRequest

Information used to update the detector (instance).

## Contents

### **detectorModelName**

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

Type: String

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

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

Required: Yes

### **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](#) object

Required: Yes

### **keyValue**

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

Type: String

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

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

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# Variable

The current state of the variable.

## Contents

### name

The name of the variable.

Type: String

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

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

Required: Yes

### value

The current value of the variable.

Type: String

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

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# VariableDefinition

The new value of the variable.

## Contents

### name

The name of the variable.

Type: String

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

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

Required: Yes

### value

The new value of the variable.

Type: String

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

Required: Yes

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 [Signing Amazon API requests](#) in the *IAM User Guide*.

## 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 [Create a signed Amazon API request](#) in the *IAM User Guide*.

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'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an Amazon API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

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

Condition: If you're using temporary security credentials from Amazon STS, 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 [Create a signed Amazon API request](#) in the *IAM User Guide*.

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 Amazon 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 Amazon 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 Amazon access key ID provided does not exist in our records.

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

The Amazon 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 Amazon service.

HTTP Status Code: 400