
Amazon EventBridge Schemas

REST API Reference



Amazon EventBridge Schemas: REST API Reference

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Welcome

Welcome to the *Amazon EventBridge Schema Registry API Reference*.

The Amazon EventBridge Schema Registry allows you to discover, create, and manage OpenAPI schemas for events on EventBridge. Using these API actions you can find schemas for existing AWS services, create and upload custom schemas, or generate a schema based on messages on an event bus. You can download code bindings for popular languages for all schemas in EventBridge to quickly build applications that use those events.

Note

Inactive schemas will be deleted after two years.

For more information on Amazon EventBridge, and managing schemas in the EventBridge console, see the following.

- [Amazon EventBridge Schema Registry](#)
- [Tutorial: Download Code Bindings for AWS Events](#)

Operations

The Amazon EventBridge Schemas REST API includes the following operations.

- [CreateDiscoverer](#) (p. 11)

Creates a discoverer.

- [CreateRegistry](#) (p. 30)

Creates a registry.

- [CreateSchema](#) (p. 38)

Creates a schema definition.

Note

Inactive schemas will be deleted after two years.

- [DeleteDiscoverer](#) (p. 16)

Deletes a discoverer.

- [DeleteRegistry](#) (p. 31)

Deletes a Registry.

- [DeleteResourcePolicy](#) (p. 24)

Delete the resource-based policy attached to the specified registry.

- [DeleteSchema](#) (p. 39)

Delete a schema definition.

- [DeleteSchemaVersion](#) (p. 53)

Delete the schema version definition

- [DescribeCodeBinding](#) (p. 48)

Describe the code binding URI.

- [DescribeDiscoverer](#) (p. 15)

Describes the discoverer.

- [DescribeRegistry](#) (p. 30)

Describes the registry.

- [DescribeSchema](#) (p. 37)

Retrieve the schema definition.

- [ExportSchema](#) (p. 46)

Exports a schema.

- [GetCodeBindingSource](#) (p. 51)

Get the code binding source URI.

- [GetDiscoveredSchema](#) (p. 8)

Get the discovered schema that was generated based on sampled events.

- [GetResourcePolicy](#) (p. 23)

Retrieves the resource-based policy attached to a given registry.

- [ListDiscoverers](#) (p. 10)

List the discoverers.

- [ListRegistries](#) (p. 27)

List the registries.

- [ListSchemas](#) (p. 34)

List the schemas.

- [ListSchemaVersions](#) (p. 54)

Provides a list of the schema versions and related information.

- [ListTagsForResource](#) (p. 4)

Get tags for resource.

- [PutCodeBinding](#) (p. 49)

Put code binding URI

- [PutResourcePolicy](#) (p. 23)

The name of the policy.

- [SearchSchemas](#) (p. 57)

Search the schemas

- [StartDiscoverer](#) (p. 19)

Starts the discoverer

- [StopDiscoverer](#) (p. 21)

Stops the discoverer

- [TagResource](#) (p. 5)

Add tags to a resource.

- [UntagResource](#) (p. 5)

Removes tags from a resource.

- [UpdateDiscoverer](#) (p. 16)

Updates the discoverer

- [UpdateRegistry](#) (p. 31)
- [UpdateSchema](#) (p. 39)

Updates the schema definition

Note

Inactive schemas will be deleted after two years.

Resources

The Amazon EventBridge Schemas REST API includes the following resources.

Topics

- [Tag](#) (p. 4)
- [Discover](#) (p. 7)
- [Discoverers](#) (p. 10)
- [Describe or Update Discoverer](#) (p. 15)
- [Start Discoverer](#) (p. 19)
- [Stop Discoverer](#) (p. 21)
- [Policy](#) (p. 23)
- [Registries](#) (p. 27)
- [Registry](#) (p. 29)
- [Schemas](#) (p. 32)
- [Schema](#) (p. 37)
- [Export](#) (p. 45)
- [Code Binding](#) (p. 48)
- [Get Code Binding Source](#) (p. 51)
- [Delete Schema Version](#) (p. 53)
- [List Schema Versions](#) (p. 54)
- [Search Schemas](#) (p. 57)

Tag

A tag is a key-value pair associated with a resource. You can use these metadata tags to identify the purpose of a broker or configuration.

URI

`/tags/resource-arn`

HTTP Methods

GET

Operation ID: ListTagsForResource

Get tags for resource.

Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The ARN of the resource.

Responses

Status Code	Response Model	Description
200	ListTagsForResourceOutput (200 response)	200 response
400	ErrorOutput (p. 6)	400 response
403	ErrorOutput (p. 6)	403 response
404	ErrorOutput (p. 6)	404 response
500	ErrorOutput (p. 6)	500 response

POST

Operation ID: TagResource

Add tags to a resource.

Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The ARN of the resource.

Responses

Status Code	Response Model	Description
204	None	204 response
400	ErrorOutput (p. 6)	400 response
403	ErrorOutput (p. 6)	403 response
404	ErrorOutput (p. 6)	404 response
500	ErrorOutput (p. 6)	500 response

DELETE

Operation ID: UntagResource

Removes tags from a resource.

Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The ARN of the resource.

Query Parameters

Name	Type	Required	Description
tagKeys	String	True	Keys of key-value pairs.

Responses

Status Code	Response Model	Description
204	None	204 response
400	ErrorOutput (p. 6)	400 response
403	ErrorOutput (p. 6)	403 response
404	ErrorOutput (p. 6)	404 response
500	ErrorOutput (p. 6)	500 response

Schemas

Request Bodies

Example POST

```
{
  "tags": {
  }
}
```

Response Bodies

Example ListTagsForResourceOutput

```
{
  "tags": {
  }
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ListTagsForResourceOutput

tags

Type: [Tags \(p. 7\)](#)
Required: False

TagResourceInput

tags

Tags associated with the resource.

Type: [Tags \(p. 7\)](#)
Required: True

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

Discover

Allows you get the discovered schemas that have been inferred from events on an event bus.

URI

/v1/discover

HTTP Methods

POST

Operation ID: GetDiscoveredSchema

Get the discovered schema that was generated based on sampled events.

Responses

Status Code	Response Model	Description
200	GetDiscoveredSchemaOutput (p. 8)	200 response
400	ErrorOutput (p. 8)	400 response
401	ErrorOutput (p. 8)	401 response
403	ErrorOutput (p. 8)	403 response
500	ErrorOutput (p. 8)	500 response
503	ErrorOutput (p. 8)	503 response

Schemas

Request Bodies

Example POST

```
{
  "Type": enum,
  "Events": [
    "string"
  ]
}
```

Response Bodies

Example GetDiscoveredSchemaOutput

```
{
  "Content": "string"
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string

Required: True

Code

The error code.

Type: string

Required: True

GetDiscoveredSchemaInput

Type

The type of event.

Type: [Type \(p. 9\)](#)

Required: True

Events

An array of strings where each string is a JSON event. These are the events that were used to generate the schema. The array includes a single type of event and has a maximum size of 10 events.

Type: Array of type string

Required: True

GetDiscoveredSchemaOutput

Content

The source of the schema definition.

Type: string

Required: False

Type

The type of schema to export.

OpenApi3

JSONSchemaDraft4

Discoverers

Discoverers allow you to infer EventBridge Schemas based on the events on an event bus.

URI

/v1/discoverers

HTTP Methods

GET

Operation ID: ListDiscoverers

List the discoverers.

Query Parameters

Name	Type	Required	Description
sourceArnPrefix	String	False	Specifying this limits the results to only those ARNs that start with the specified prefix.
limit	String	False	The maximum number of results to return per page.
nextToken	String	False	The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.
discovererIdPrefix	String	False	Specifying this limits the results to only those discoverer IDs that start with the specified prefix.

Responses

Status Code	Response Model	Description
200	ListDiscoverersOutput (p. 12)	200 response
400	ErrorOutput (p. 12)	400 response
401	ErrorOutput (p. 12)	401 response

Status Code	Response Model	Description
403	ErrorOutput (p. 12)	403 response
500	ErrorOutput (p. 12)	500 response
503	ErrorOutput (p. 12)	503 response

POST

Operation ID: CreateDiscoverer

Creates a discoverer.

Responses

Status Code	Response Model	Description
201	DiscovererOutput (p. 12)	201 response
400	ErrorOutput (p. 12)	400 response
401	ErrorOutput (p. 12)	401 response
403	ErrorOutput (p. 12)	403 response
409	ErrorOutput (p. 12)	409 response
500	ErrorOutput (p. 12)	500 response
503	ErrorOutput (p. 12)	503 response

Schemas

Request Bodies

Example POST

```
{
  "Description": "string",
  "SourceArn": "string",
  "tags": {
  }
}
```

Response Bodies

Example ListDiscoverersOutput

```
{
  "NextToken": "string",
  "Discoverers": [
    {
      "DiscovererArn": "string",
```

```
    "DiscovererId": "string",
    "SourceArn": "string",
    "State": enum,
    "tags": {
    }
  }
]
```

Example DiscovererOutput

```
{
  "DiscovererArn": "string",
  "DiscovererId": "string",
  "Description": "string",
  "SourceArn": "string",
  "State": enum,
  "tags": {
  }
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

CreateDiscovererInput

Description

A description for the discoverer.

Type: string
Required: False
MinLength: 0
MaxLength: 256

SourceArn

The ARN of the event bus.

Type: string
Required: True
MinLength: 20
MaxLength: 1600

tags

Tags associated with the resource.

Type: [Tags \(p. 15\)](#)

Required: False

DiscovererOutput

DiscovererArn

The ARN of the discoverer.

Type: string

Required: False

DiscovererId

The ID of the discoverer.

Type: string

Required: False

Description

The description of the discoverer.

Type: string

Required: False

SourceArn

The ARN of the event bus.

Type: string

Required: False

State

The state of the discoverer.

Type: [DiscovererState \(p. 13\)](#)

Required: False

tags

Tags associated with the resource.

Type: [Tags \(p. 15\)](#)

Required: False

DiscovererState

STARTED

STOPPED

DiscovererSummary

A summary of the discoverer.

DiscovererArn

The ARN of the discoverer.

Type: string
Required: False

DiscovererId

The ID of the discoverer.

Type: string
Required: False

SourceArn

The ARN of the event bus.

Type: string
Required: False

State

The state of the discoverer.

Type: [DiscovererState \(p. 13\)](#)
Required: False

tags

Tags associated with the resource.

Type: [Tags \(p. 15\)](#)
Required: False

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ListDiscoverersOutput

NextToken

The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Type: string
Required: False

Discoverers

An array of `DiscovererSummary` information.

Type: Array of type [DiscovererSummary](#) (p. 14)
Required: False

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

Describe or Update Discoverer

URI

`/v1/discoverers/id/discovererId`

HTTP Methods

GET

Operation ID: DescribeDiscoverer

Describes the discoverer.

Path Parameters

Name	Type	Required	Description
<i>discovererId</i>	String	True	The ID of the discoverer.

Responses

Status Code	Response Model	Description
200	DiscovererOutput (p. 17)	200 response
400	ErrorOutput (p. 17)	400 response
401	ErrorOutput (p. 17)	401 response

Status Code	Response Model	Description
403	ErrorOutput (p. 17)	403 response
404	ErrorOutput (p. 17)	404 response
500	ErrorOutput (p. 17)	500 response
503	ErrorOutput (p. 17)	503 response

PUT

Operation ID: UpdateDiscoverer

Updates the discoverer.

Path Parameters

Name	Type	Required	Description
<i>discovererId</i>	String	True	The ID of the discoverer.

Responses

Status Code	Response Model	Description
200	DiscovererOutput (p. 17)	200 response
400	ErrorOutput (p. 17)	400 response
401	ErrorOutput (p. 17)	401 response
403	ErrorOutput (p. 17)	403 response
404	ErrorOutput (p. 17)	404 response
500	ErrorOutput (p. 17)	500 response
503	ErrorOutput (p. 17)	503 response

DELETE

Operation ID: DeleteDiscoverer

Deletes a discoverer.

Path Parameters

Name	Type	Required	Description
<i>discovererId</i>	String	True	The ID of the discoverer.

Responses

Status Code	Response Model	Description
204	None	204 response

Status Code	Response Model	Description
400	ErrorOutput (p. 17)	400 response
401	ErrorOutput (p. 17)	401 response
403	ErrorOutput (p. 17)	403 response
404	ErrorOutput (p. 17)	404 response
500	ErrorOutput (p. 17)	500 response
503	ErrorOutput (p. 17)	503 response

Schemas

Request Bodies

Example PUT

```
{  
  "Description": "string"  
}
```

Response Bodies

Example DiscovererOutput

```
{  
  "DiscovererArn": "string",  
  "DiscovererId": "string",  
  "Description": "string",  
  "SourceArn": "string",  
  "State": enum,  
  "tags": {  
  }  
}
```

Example ErrorOutput

```
{  
  "Message": "string",  
  "Code": "string"  
}
```

Properties

DiscovererOutput

DiscovererArn

The ARN of the discoverer.

Type: string

Required: False

DiscovererId

The ID of the discoverer.

Type: string

Required: False

Description

The description of the discoverer.

Type: string

Required: False

SourceArn

The ARN of the event bus.

Type: string

Required: False

State

The state of the discoverer.

Type: [DiscovererState \(p. 18\)](#)

Required: False

tags

Tags associated with the resource.

Type: [Tags \(p. 19\)](#)

Required: False

DiscovererState

STARTED

STOPPED

ErrorOutput

Message

The message string of the error output.

Type: string

Required: True

Code

The error code.

Type: string
Required: True

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

UpdateDiscovererInput

Description

The description of the discoverer to update.

Type: string
Required: False
MinLength: 0
MaxLength: 256

Start Discoverer

URI

/v1/discoverers/id/*discovererId*/start

HTTP Methods

POST

Operation ID: StartDiscoverer

Starts the discoverer

Path Parameters

Name	Type	Required	Description
<i>discovererId</i>	String	True	The ID of the discoverer.

Responses

Status Code	Response Model	Description
200	DiscovererStateOutput (p. 200)	200 response
400	ErrorOutput (p. 20)	400 response

Status Code	Response Model	Description
401	ErrorOutput (p. 20)	401 response
403	ErrorOutput (p. 20)	403 response
404	ErrorOutput (p. 20)	404 response
500	ErrorOutput (p. 20)	500 response
503	ErrorOutput (p. 20)	503 response

Schemas

Response Bodies

Example DiscovererStateOutput

```
{  
  "DiscovererId": "string",  
  "State": enum  
}
```

Example ErrorOutput

```
{  
  "Message": "string",  
  "Code": "string"  
}
```

Properties

DiscovererState

STARTED
STOPPED

DiscovererStateOutput

DiscovererId

The ID of the discoverer.

Type: string
Required: False

State

The state of the discoverer.

Type: [DiscovererState \(p. 20\)](#)

Required: False

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

Stop Discoverer

URI

/v1/discoverers/id/*discovererId*/stop

HTTP Methods

POST

Operation ID: StopDiscoverer

Stops the discoverer

Path Parameters

Name	Type	Required	Description
<i>discovererId</i>	String	True	The ID of the discoverer.

Responses

Status Code	Response Model	Description
200	DiscovererStateOutput (p. 22)	200 response
400	ErrorOutput (p. 22)	400 response
401	ErrorOutput (p. 22)	401 response
403	ErrorOutput (p. 22)	403 response
404	ErrorOutput (p. 22)	404 response
500	ErrorOutput (p. 22)	500 response

Status Code	Response Model	Description
503	ErrorOutput (p. 22)	503 response

Schemas

Response Bodies

Example DiscovererStateOutput

```
{  
  "DiscovererId": "string",  
  "State": enum  
}
```

Example ErrorOutput

```
{  
  "Message": "string",  
  "Code": "string"  
}
```

Properties

DiscovererState

STARTED
STOPPED

DiscovererStateOutput

DiscovererId

The ID of the discoverer.

Type: string
Required: False

State

The state of the discoverer.

Type: [DiscovererState](#) (p. 22)
Required: False

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

Policy

The resource-based policy.

URI

/v1/policy

HTTP Methods

GET

Operation ID: GetResourcePolicy

Retrieves the resource-based policy attached to a given registry.

Query Parameters

Name	Type	Required	Description
registryName	String	False	The name of the registry.

Responses

Status Code	Response Model	Description
200	GetResourcePolicyOutput (p. 25)	Get Resource-Based Policy Response
400	ErrorOutput (p. 25)	400 response
401	ErrorOutput (p. 25)	401 response
403	ErrorOutput (p. 25)	403 response
404	ErrorOutput (p. 25)	404 response
500	ErrorOutput (p. 25)	500 response
503	ErrorOutput (p. 25)	503 response

PUT

Operation ID: PutResourcePolicy

The name of the policy.

Query Parameters

Name	Type	Required	Description
registryName	String	False	The name of the registry.

Responses

Status Code	Response Model	Description
200	PutResourcePolicyOutput (p. 200)	200 response
400	ErrorOutput (p. 25)	400 response
401	ErrorOutput (p. 25)	401 response
403	ErrorOutput (p. 25)	403 response
404	ErrorOutput (p. 25)	404 response
412	ErrorOutput (p. 25)	412 response
500	ErrorOutput (p. 25)	500 response
503	ErrorOutput (p. 25)	503 response

DELETE

Operation ID: DeleteResourcePolicy

Delete the resource-based policy attached to the specified registry.

Query Parameters

Name	Type	Required	Description
registryName	String	False	The name of the registry.

Responses

Status Code	Response Model	Description
204	None	204 response
400	ErrorOutput (p. 25)	400 response
401	ErrorOutput (p. 25)	401 response
403	ErrorOutput (p. 25)	403 response
404	ErrorOutput (p. 25)	404 response
500	ErrorOutput (p. 25)	500 response
503	ErrorOutput (p. 25)	503 response

Schemas

Request Bodies

Example PUT

```
{  
  "Policy": "string",  
  "RevisionId": "string"  
}
```

Response Bodies

Example GetResourcePolicyOutput

```
{  
  "Policy": "string",  
  "RevisionId": "string"  
}
```

Example PutResourcePolicyOutput

```
{  
  "Policy": "string",  
  "RevisionId": "string"  
}
```

Example ErrorOutput

```
{  
  "Message": "string",  
  "Code": "string"  
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

GetResourcePolicyOutput

Information about the policy.

Policy

The resource-based policy.

Type: string
Required: False

RevisionId

The revision ID.

Type: string
Required: False

PutResourcePolicyInput

Only update the policy if the revision ID matches the ID that's specified. Use this option to avoid modifying a policy that has changed since you last read it.

Policy

The resource-based policy.

Type: string
Required: True

RevisionId

The revision ID of the policy.

Type: string
Required: False

PutResourcePolicyOutput

The resource-based policy.

Policy

The resource-based policy.

Type: string
Required: False

RevisionId

The revision ID of the policy.

Type: string
Required: False

Registries

URI

/v1/registries

HTTP Methods

GET

Operation ID: ListRegistries

List the registries.

Query Parameters

Name	Type	Required	Description
scope	String	False	Can be set to Local or AWS to limit responses to your custom registries, or the ones provided by AWS.
limit	String	False	The maximum number of results to return per page.
nextToken	String	False	The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.
registryNamePrefix	String	False	Specifying this limits the results to only those registry names that start with the specified prefix.

Responses

Status Code	Response Model	Description
200	ListRegistriesOutput (p. 28)	200 response
400	ErrorOutput (p. 28)	400 response
401	ErrorOutput (p. 28)	401 response
403	ErrorOutput (p. 28)	403 response

Status Code	Response Model	Description
500	ErrorOutput (p. 28)	500 response
503	ErrorOutput (p. 28)	503 response

Schemas

Response Bodies

Example ListRegistriesOutput

```
{
  "NextToken": "string",
  "Registries": [
    {
      "RegistryName": "string",
      "RegistryArn": "string",
      "tags": {
      }
    }
  ]
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ListRegistriesOutput

List the registries.

NextToken

The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Type: string
Required: False

Registries

An array of registry summaries.

Type: Array of type [RegistrySummary \(p. 29\)](#)
Required: False

RegistrySummary

RegistryName

The name of the registry.

Type: string
Required: False

RegistryArn

The ARN of the registry.

Type: string
Required: False

tags

Tags associated with the registry.

Type: [Tags \(p. 29\)](#)
Required: False

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

Registry

URI

/v1/registries/name/*registryName*

HTTP Methods

GET

Operation ID: DescribeRegistry

Describes the registry.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Responses

Status Code	Response Model	Description
200	RegistryOutput (p. 32)	200 response
400	ErrorOutput (p. 32)	400 response
401	ErrorOutput (p. 32)	401 response
403	ErrorOutput (p. 32)	403 response
404	ErrorOutput (p. 32)	404 response
500	ErrorOutput (p. 32)	500 response
503	ErrorOutput (p. 32)	503 response

POST

Operation ID: CreateRegistry

Creates a registry.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Responses

Status Code	Response Model	Description
201	RegistryOutput (p. 32)	201 response
400	ErrorOutput (p. 32)	400 response
401	ErrorOutput (p. 32)	401 response
403	ErrorOutput (p. 32)	403 response

Status Code	Response Model	Description
409	ErrorOutput (p. 32)	409 response
500	ErrorOutput (p. 32)	500 response
503	ErrorOutput (p. 32)	503 response

PUT

Operation ID: UpdateRegistry

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Responses

Status Code	Response Model	Description
200	RegistryOutput (p. 32)	200 response
400	ErrorOutput (p. 32)	400 response
401	ErrorOutput (p. 32)	401 response
403	ErrorOutput (p. 32)	403 response
404	ErrorOutput (p. 32)	404 response
500	ErrorOutput (p. 32)	500 response
503	ErrorOutput (p. 32)	503 response

DELETE

Operation ID: DeleteRegistry

Deletes a Registry.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Responses

Status Code	Response Model	Description
204	None	204 response

Status Code	Response Model	Description
400	ErrorOutput (p. 32)	400 response
401	ErrorOutput (p. 32)	401 response
403	ErrorOutput (p. 32)	403 response
404	ErrorOutput (p. 32)	404 response
500	ErrorOutput (p. 32)	500 response
503	ErrorOutput (p. 32)	503 response

Schemas

Request Bodies

Example POST

```
{
  "Description": "string",
  "tags": {
  }
}
```

Example PUT

```
{
  "Description": "string"
}
```

Response Bodies

Example RegistryOutput

```
{
  "Description": "string",
  "RegistryName": "string",
  "RegistryArn": "string",
  "tags": {
  }
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

CreateRegistryInput

Description

A description of the registry to be created.

Type: string
Required: False
MinLength: 0
MaxLength: 256

tags

Tags to associate with the registry.

Type: [Tags \(p. 34\)](#)
Required: False

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

RegistryOutput

Description

The description of the registry.

Type: string
Required: False

RegistryName

The name of the registry.

Type: string
Required: False

RegistryArn

The ARN of the registry.

Type: string
Required: False

tags

Tags associated with the registry.

Type: [Tags \(p. 34\)](#)
Required: False

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

UpdateRegistryInput

Description

The description of the registry to update.

Type: string
Required: False
MinLength: 0
MaxLength: 256

Schemas

URI

/v1/registries/name/*registryName*/schemas

HTTP Methods

GET

Operation ID: ListSchemas

List the schemas.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Query Parameters

Name	Type	Required	Description
schemaNamePrefix	String	False	Specifying this limits the results to only those schema names that start with the specified prefix.
limit	String	False	The maximum number of results to return per page.
nextToken	String	False	The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Responses

Status Code	Response Model	Description
200	ListSchemasOutput (p. 35)	200 response
400	ErrorOutput (p. 36)	400 response
401	ErrorOutput (p. 36)	401 response
403	ErrorOutput (p. 36)	403 response
500	ErrorOutput (p. 36)	500 response
503	ErrorOutput (p. 36)	503 response

Schemas

Response Bodies

Example ListSchemasOutput

```
{
  "NextToken": "string",
  "Schemas": [
    {
      "LastModified": "string",
      "VersionCount": integer,
      "SchemaName": "string",
      "SchemaArn": "string",
      "tags": {
      }
    }
  ]
}
```

```
]
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ListSchemasOutput

NextToken

The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Type: string
Required: False

Schemas

An array of schema summaries.

Type: Array of type [SchemaSummary \(p. 36\)](#)
Required: False

SchemaSummary

A summary of schema details.

LastModified

The date and time that schema was modified.

Type: string

Required: False
Format: date-time

VersionCount

The number of versions available for the schema.

Type: integer
Required: False
Format: int64

SchemaName

The name of the schema.

Type: string
Required: False

SchemaArn

The ARN of the schema.

Type: string
Required: False

tags

Tags associated with the schema.

Type: [Tags \(p. 37\)](#)
Required: False

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

Schema

URI

`/v1/registries/name/registryName/schemas/name/schemaName`

HTTP Methods

GET

Operation ID: DescribeSchema

Retrieve the schema definition.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Query Parameters

Name	Type	Required	Description
schemaVersion	String	False	Specifying this limits the results to only this schema version.

Responses

Status Code	Response Model	Description
200	DescribeSchemaOutput (p. 40)	200 response
400	ErrorOutput (p. 41)	400 response
401	ErrorOutput (p. 41)	401 response
403	ErrorOutput (p. 41)	403 response
404	ErrorOutput (p. 41)	404 response
500	ErrorOutput (p. 41)	500 response
503	ErrorOutput (p. 41)	503 response

POST

Operation ID: CreateSchema

Creates a schema definition.

Note

Inactive schemas will be deleted after two years.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Responses

Status Code	Response Model	Description
201	SchemaOutput (p. 41)	201 response
400	ErrorOutput (p. 41)	400 response
403	ErrorOutput (p. 41)	403 response
500	ErrorOutput (p. 41)	500 response
503	ErrorOutput (p. 41)	503 response

PUT

Operation ID: UpdateSchema

Updates the schema definition

Note

Inactive schemas will be deleted after two years.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Responses

Status Code	Response Model	Description
200	SchemaOutput (p. 41)	200 response
304	None	304 response
400	ErrorOutput (p. 41)	400 response
403	ErrorOutput (p. 41)	403 response
404	ErrorOutput (p. 41)	404 response
500	ErrorOutput (p. 41)	500 response
503	ErrorOutput (p. 41)	503 response

DELETE

Operation ID: DeleteSchema

Delete a schema definition.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Responses

Status Code	Response Model	Description
204	None	204 response
400	ErrorOutput (p. 41)	400 response
401	ErrorOutput (p. 41)	401 response
403	ErrorOutput (p. 41)	403 response
404	ErrorOutput (p. 41)	404 response
500	ErrorOutput (p. 41)	500 response
503	ErrorOutput (p. 41)	503 response

Schemas

Request Bodies

Example POST

```
{
  "Type": enum,
  "Description": "string",
  "Content": "string",
  "tags": {
  }
}
```

Example PUT

```
{
  "Type": enum,
  "Description": "string",
  "ClientTokenId": "string",
  "Content": "string"
}
```

Response Bodies

Example DescribeSchemaOutput

```
{
```

```
"LastModified": "string",
>Type": "string",
>Description": "string",
>SchemaVersion": "string",
>Content": "string",
>VersionCreatedDate": "string",
>SchemaArn": "string",
>SchemaName": "string",
>tags": {
}
}
```

Example SchemaOutput

```
{
  "LastModified": "string",
  "Type": "string",
  "Description": "string",
  "SchemaVersion": "string",
  "VersionCreatedDate": "string",
  "SchemaArn": "string",
  "SchemaName": "string",
  "tags": {
  }
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

CreateSchemaInput

Type

The type of schema.

Type: [Type](#) (p. 45)

Required: True

Description

A description of the schema.

Type: string

Required: False

MinLength: 0

MaxLength: 256

Content

The source of the schema definition.

Type: string
Required: True
MinLength: 1
MaxLength: 100000

tags

Tags associated with the schema.

Type: [Tags \(p. 44\)](#)
Required: False

DescribeSchemaOutput

LastModified

The date and time that schema was modified.

Type: string
Required: False
Format: date-time

Type

The type of the schema.

Type: string
Required: False

Description

The description of the schema.

Type: string
Required: False

SchemaVersion

The version number of the schema

Type: string
Required: False

Content

The source of the schema definition.

Type: string
Required: False

VersionCreatedDate

The date the schema version was created.

Type: string
Required: False
Format: date-time

SchemaArn

The ARN of the schema.

Type: string
Required: False

SchemaName

The name of the schema.

Type: string
Required: False

tags

Tags associated with the resource.

Type: [Tags \(p. 44\)](#)
Required: False

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

SchemaOutput

LastModified

The date and time that schema was modified.

Type: string
Required: False
Format: date-time

Type

The type of the schema.

Type: string
Required: False

Description

The description of the schema.

Type: string
Required: False

SchemaVersion

The version number of the schema

Type: string
Required: False

VersionCreatedDate

The date the schema version was created.

Type: string
Required: False
Format: date-time

SchemaArn

The ARN of the schema.

Type: string
Required: False

SchemaName

The name of the schema.

Type: string
Required: False

tags

Type: [Tags \(p. 44\)](#)
Required: False

Tags

Key-value pairs associated with a resource.

key-value pairs

Type: string

Type

The type of schema to export.

OpenApi3
JSONSchemaDraft4

UpdateSchemaInput

Type

The schema type for the events schema.

Type: [Type](#) (p. 45)
Required: False

Description

The description of the schema.

Type: string
Required: False
MinLength: 0
MaxLength: 256

ClientTokenId

The ID of the client token.

Type: string
Required: False
MinLength: 0
MaxLength: 36

Content

The source of the schema definition.

Type: string
Required: False
MinLength: 1
MaxLength: 100000

Export

Exports a schema.

URI

/v1/registries/name/*registryName*/schemas/name/*schemaName*/export

HTTP Methods

GET

Operation ID: ExportSchema

Exports a schema.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Query Parameters

Name	Type	Required	Description
type	String	True	The type of schema to export.
schemaVersion	String	False	Specifying this limits the results to only this schema version.

Responses

Status Code	Response Model	Description
200	ExportSchemaOutput (p. 46)	200 response
400	ErrorOutput (p. 47)	400 response
401	ErrorOutput (p. 47)	401 response
403	ErrorOutput (p. 47)	403 response
404	ErrorOutput (p. 47)	404 response
429	ErrorOutput (p. 47)	429 response
500	ErrorOutput (p. 47)	500 response
503	ErrorOutput (p. 47)	503 response

Schemas

Response Bodies

Example ExportSchemaOutput

```
{
```

```
"Type": "string",  
"SchemaVersion": "string",  
"Content": "string",  
"SchemaName": "string",  
"SchemaArn": "string"  
}
```

Example ErrorOutput

```
{  
  "Message": "string",  
  "Code": "string"  
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ExportSchemaOutput

The schema to export.

Type

The type of schema to export.

Type: string
Required: False

SchemaVersion

The version of the schema to export.

Type: string
Required: False

Content

The content of the schema.

Type: string
Required: False

SchemaName

The name of the schema to export.

Type: string
Required: False

SchemaArn

The ARN of the schema to export.

Type: string
Required: False

Code Binding

URI

`/v1/registries/name/registryName/schemas/name/schemaName/language/language`

HTTP Methods

GET

Operation ID: DescribeCodeBinding

Describe the code binding URI.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.
<i>language</i>	String	True	The language of the code binding.

Query Parameters

Name	Type	Required	Description
schemaVersion	String	False	Specifying this limits the results to only this schema version.

Responses

Status Code	Response Model	Description
200	CodeBindingOutput (p. 50)	200 response
400	ErrorOutput (p. 50)	400 response
401	ErrorOutput (p. 50)	401 response
403	ErrorOutput (p. 50)	403 response
404	ErrorOutput (p. 50)	404 response
429	ErrorOutput (p. 50)	429 response
500	ErrorOutput (p. 50)	500 response

POST

Operation ID: PutCodeBinding

Put code binding URI

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.
<i>language</i>	String	True	The language of the code binding.

Query Parameters

Name	Type	Required	Description
schemaVersion	String	False	Specifying this limits the results to only this schema version.

Responses

Status Code	Response Model	Description
202	CodeBindingOutput (p. 50)	202 response
400	ErrorOutput (p. 50)	400 response
401	ErrorOutput (p. 50)	401 response
403	ErrorOutput (p. 50)	403 response
404	ErrorOutput (p. 50)	404 response

Status Code	Response Model	Description
410	ErrorOutput (p. 50)	410 response
429	ErrorOutput (p. 50)	429 response
500	ErrorOutput (p. 50)	500 response

Schemas

Response Bodies

Example CodeBindingOutput

```
{
  "Status": enum,
  "LastModified": "string",
  "CreationDate": "string",
  "SchemaVersion": "string"
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

CodeBindingOutput

Status

The current status of code binding generation.

Type: [CodeGenerationStatus \(p. 51\)](#)

Required: False

LastModified

The date and time that code bindings were modified.

Type: string

Required: False

Format: date-time

CreationDate

The time and date that the code binding was created.

Type: string

Required: False

Format: date-time

SchemaVersion

The version number of the schema.

Type: string
Required: False

CodeGenerationStatus

CREATE_IN_PROGRESS
CREATE_COMPLETE
CREATE_FAILED

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

Get Code Binding Source

URI

/v1/registries/name/*registryName*/schemas/name/*schemaName*/language/*language*/source

HTTP Methods

GET

Operation ID: GetCodeBindingSource

Get the code binding source URI.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Name	Type	Required	Description
<i>language</i>	String	True	The language of the code binding.

Query Parameters

Name	Type	Required	Description
schemaVersion	String	False	Specifying this limits the results to only this schema version.

Responses

Status Code	Response Model	Description
200	GetCodeBindingSourceOutput	200 response
400	ErrorOutput (p. 52)	400 response
401	ErrorOutput (p. 52)	401 response
403	ErrorOutput (p. 52)	403 response
404	ErrorOutput (p. 52)	404 response
429	ErrorOutput (p. 52)	429 response
500	ErrorOutput (p. 52)	500 response

Schemas

Response Bodies

Example GetCodeBindingSourceOutput

```
"string"
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

Delete Schema Version

URI

/v1/registries/name/*registryName*/schemas/name/*schemaName*/version/*schemaVersion*

HTTP Methods

DELETE

Operation ID: DeleteSchemaVersion

Delete the schema version definition

Path Parameters

Name	Type	Required	Description
<i>schemaVersion</i>	String	True	The version number of the schema
<i>registryName</i>	String	True	The name of the schema registry.
<i>schemaName</i>	String	True	The name of the schema.

Responses

Status Code	Response Model	Description
204	None	204 response
400	ErrorOutput (p. 54)	400 response
401	ErrorOutput (p. 54)	401 response
403	ErrorOutput (p. 54)	403 response
404	ErrorOutput (p. 54)	404 response
500	ErrorOutput (p. 54)	500 response
503	ErrorOutput (p. 54)	503 response

Schemas

Response Bodies

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

List Schema Versions

URI

/v1/registries/name/*registryName*/schemas/name/*schemaName*/versions

HTTP Methods

GET

Operation ID: ListSchemaVersions

Provides a list of the schema versions and related information.

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Name	Type	Required	Description
<i>schemaName</i>	String	True	The name of the schema.

Query Parameters

Name	Type	Required	Description
limit	String	False	The maximum number of results to return per page.
nextToken	String	False	The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Responses

Status Code	Response Model	Description
200	ListSchemaVersionsOutput (p. 56)	200 response
400	ErrorOutput (p. 56)	400 response
401	ErrorOutput (p. 56)	401 response
403	ErrorOutput (p. 56)	403 response
404	ErrorOutput (p. 56)	404 response
500	ErrorOutput (p. 56)	500 response
503	ErrorOutput (p. 56)	503 response

Schemas

Response Bodies

Example ListSchemaVersionsOutput

```
{
  "NextToken": "string",
  "SchemaVersions": [
    {
      "Type": "string",
      "SchemaVersion": "string",
      "SchemaName": "string",
      "SchemaArn": "string"
    }
  ]
}
```

```
]
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

ListSchemaVersionsOutput

NextToken

The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Type: string
Required: False

SchemaVersions

An array of schema version summaries.

Type: Array of type [SchemaVersionSummary](#) (p. 56)
Required: False

SchemaVersionSummary

Type

The type of schema to export.

Type: string
Required: False

SchemaVersion

The version number of the schema.

Type: string
Required: False

SchemaName

The name of the schema.

Type: string
Required: False

SchemaArn

The ARN of the schema version.

Type: string
Required: False

Search Schemas

URI

/v1/registries/name/*registryName*/schemas/search

HTTP Methods

GET

Operation ID: SearchSchemas

Search the schemas

Path Parameters

Name	Type	Required	Description
<i>registryName</i>	String	True	The name of the schema registry.

Query Parameters

Name	Type	Required	Description
keywords	String	True	Specifying this limits the results to only schemas that include the provided keywords.
limit	String	False	The maximum number of results to return per page.

Name	Type	Required	Description
nextToken	String	False	The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Responses

Status Code	Response Model	Description
200	SearchSchemasOutput (p. 58)	200 response
400	ErrorOutput (p. 58)	400 response
401	ErrorOutput (p. 58)	401 response
403	ErrorOutput (p. 58)	403 response
500	ErrorOutput (p. 58)	500 response
503	ErrorOutput (p. 58)	503 response

Schemas

Response Bodies

Example SearchSchemasOutput

```
{
  "NextToken": "string",
  "Schemas": [
    {
      "Type": "string",
      "RegistryName": "string",
      "SchemaVersions": [
        {
          "SchemaVersion": "string",
          "CreatedDate": "string"
        }
      ],
      "SchemaName": "string",
      "SchemaArn": "string"
    }
  ]
}
```

Example ErrorOutput

```
{
  "Message": "string",
  "Code": "string"
}
```

```
}
```

Properties

ErrorOutput

Message

The message string of the error output.

Type: string
Required: True

Code

The error code.

Type: string
Required: True

SearchSchemaSummary

Type

The type of schema to export.

Type: string
Required: False

RegistryName

The name of the registry.

Type: string
Required: False

SchemaVersions

An array of schema version summaries.

Type: Array of type [SearchSchemaVersionSummary](#) (p. 60)
Required: False

SchemaName

The name of the schema.

Type: string
Required: False

SchemaArn

The ARN of the schema.

Type: string
Required: False

SearchSchemaVersionSummary

SchemaVersion

The version number of the schema

Type: string
Required: False

CreatedDate

The date the schema version was created.

Type: string
Required: False
Format: date-time

SearchSchemasOutput

NextToken

The token that specifies the next page of results to return. To request the first page, leave NextToken empty. The token will expire in 24 hours, and cannot be shared with other accounts.

Type: string
Required: False

Schemas

An array of [SearchSchemaSummary](#) information.

Type: Array of type [SearchSchemaSummary](#) (p. 59)
Required: False

Document History for Amazon EventBridge Schemas

The following table describes the documentation for this release of Amazon EventBridge Schemas.

- **API version: latest**
- **Latest documentation update:** December 1, 2019

Change	API Version	Description	Release Date
Initial release	2019-12-01	The initial release of Amazon EventBridge Schemas.	December 1, 2019

AWS glossary

For the latest AWS terminology, see the [AWS glossary](#) in the *AWS General Reference*.