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API Version 2020-05-21
Welcome

The change management API provides operations to create and manage requests for change (RFCs). RFCs can be created, updated, submitted, approved (or rejected), and canceled.

Creating a Request for Change

To create a request for change, begin by calling CreateRfc (p. 7). After creating the basic RFC and before submitting it, you can add or update information (Description, ExpectedOutcome, ImplementationPlan, RollbackPlan, and WorstCaseScenario) by using the UpdateRfc operation (UpdateRfc (p. 61)).

When all necessary information has been added, use SubmitRfc (p. 57) to activate the RFC.

Note
Although only the change type (ChangeTypeId and ChangeTypeVersion) and Title are required to initially create an RFC, you must provide values for these fields (either in the original CreateRfc (p. 7) call or by using the corresponding UpdateRfc (UpdateRfc (p. 61) operation) before calling SubmitRfc (p. 57):

- RequestedStartTime (CreateRfc (p. 7) and RequestedEndTime, if you want to schedule the RFC. If scheduling is unimportant, leave off these values and execution begins as soon as the RFC is approved. This is part of a feature known as ASAP, or un-scheduled RFC.
- ExecutionParameters that comply with the JSON ExecutionInputSchema of the change type that is associated with the RFC (CreateRfc (p. 7) or UpdateRfc (p. 61))

For more information and examples, see Change Management in the AWS Managed Services User Guide.

Getting information about an RFC

The GetRfc (p. 19) operation shows most of the information about an RFC, including the approval status and execution status.

If an RFC is rejected or canceled, the reason for the action appears in the RfcReason.

Service Endpoint

The HTTP endpoint for the Change Management API is:

- https://amscm.us-east-1.amazonaws.com

This document was last published on May 7, 2022.
Actions

The following actions are supported:

- ApproveRfc (p. 3)
- CancelRfc (p. 5)
- CreateRfc (p. 7)
- CreateRfcAttachment (p. 11)
- CreateRfcCorrespondence (p. 14)
- GetChangeTypeVersion (p. 16)
- GetRfc (p. 19)
- GetRfcAttachment (p. 22)
- ListChangeTypeCategories (p. 24)
- ListChangeTypeClassificationSummaries (p. 26)
- ListChangeTypeItems (p. 29)
- ListChangeTypeOperations (p. 32)
- ListChangeTypeSubcategories (p. 35)
- ListChangeTypeVersionSummaries (p. 37)
- ListRestrictedExecutionTimes (p. 40)
- ListRfcAttachmentSummaries (p. 42)
- ListRfcCorrespondences (p. 45)
- ListRfcSummaries (p. 48)
- RejectRfc (p. 55)
- SubmitRfc (p. 57)
- UpdateRestrictedExecutionTimes (p. 59)
- UpdateRfc (p. 61)
ApproveRfc

Marks the specified RFC as approved.

An RFC with a CT of "Execution mode: Manual" requires approval; rarely it requires customer response, either approval or rejection. If your response is explicitly required, the Approval Status: CustomerApproval Pending RFC status is in the RFC execution output, but you receive no other notice. You must explicitly reject or approve the RFC by running this operation or the RejectRfc operation.

Request Syntax

```
{
   "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

RfcId (p. 3)

The unique ID (UUID) of the RFC to approve.

Type: String

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400
ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CancelRfc

Cancels the specified RFC.

**Request Syntax**

```json
{
    "Reason": "string",
    "RfcId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](#). The request accepts the following data in JSON format.

**Reason** (p. 5)

The reason for the cancellation.

If an RFC is rejected or canceled, the reason for the action appears in the `RfcReason`.

Type: String

Required: Yes

**RfcId** (p. 5)

The unique ID (UUID) of the RFC to cancel.

Type: String

Required: Yes

**Response Elements**

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

**Errors**

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

- **InternalServerError**
  
  An unspecified server error occurred.
  
  HTTP Status Code: 500

- **InvalidArgumentException**
  
  A specified argument is not valid.
  
  HTTP Status Code: 400
InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateRfc

Creates a new RFC.

To create a request for change, begin by calling CreateRfc (p. 7). After creating the basic RFC and before submitting it, you can add or update information (Description, ExpectedOutcome, ImplementationPlan, RollbackPlan, and WorstCaseScenario) by using the UpdateRfc operation (UpdateRfc (p. 61)).

When all necessary information has been added, use SubmitRfc (p. 57) to activate the RFC.

**Note**
Although only the change type (ChangeTypeId and ChangeTypeVersion) and Title are required to initially create an RFC, you must provide values for these fields (either in the original CreateRfc (p. 7) call or by using the corresponding UpdateRfc (UpdateRfc (p. 61) operation) before calling SubmitRfc (p. 57):

- RequestedStartTime (CreateRfc (p. 7) and RequestedEndTime, if you want to schedule the RFC. If scheduling is unimportant, leave off these values and execution begins as soon as the RFC is approved. This is part of a feature known as ASAP, or un-scheduled RFC.
- ExecutionParameters that comply with the JSON ExecutionInputSchema of the change type that is associated with the RFC (CreateRfc (p. 7) or UpdateRfc (p. 61))

For more information and examples, see Change Management in the AWS Managed Services User Guide.

**Request Syntax**

```json
{
  "ChangeTypeId": "string",
  "ChangeTypeVersion": "string",
  "Description": "string",
  "ExecutionParameters": "string",
  "ExpectedOutcome": "string",
  "ImplementationPlan": "string",
  "Notification": {
    "Email": {
      "EmailRecipients": [ "string" ]
    }
  },
  "RequestedEndTime": "string",
  "RequestedStartTime": "string",
  "RollbackPlan": "string",
  "Title": "string",
  "WorstCaseScenario": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**ChangeTypeId (p. 7)**

The unique ID of the change type, in the form ct-2ty5seo8rxfc.
Type: String
Required: Yes
**ChangeTypeVersion (p. 7)**

The version of the change type for the request; for example, "1.0".

Type: String
Required: Yes

**Description (p. 7)**

The description of the RFC.

Type: String
Required: No

**ExecutionParameters (p. 7)**

The parameters that are required to execute the RFC, submitted in JSON format.

Type: String
Required: No

**ExpectedOutcome (p. 7)**

A description of the effects of the change.

Type: String
Required: No

**ImplementationPlan (p. 7)**

The actions or steps required to implement the change (for change types that are not automated).

Type: String
Required: No

**Notification (p. 7)**

Create a notification for an existing RFC.

Type: RfcNotification (p. 93) object
Required: No

**RequestedEndTime (p. 7)**

The end of the change window, expressed in ISO 8601 format. The default format is the basic format (YYYYMMDDThhmmssZ). For example, 2017/02/27 at 2:30 PM would be 20170227T143000Z. An RFC does not fail if the requested end time is exceeded.

Type: String
Required: No

**RequestedStartTime (p. 7)**

The start of the change window, expressed in ISO 8601 format. The default format is the basic format (YYYYMMDDThhmmssZ). For example, 2017/02/27 at 2:10 PM would be 20170227T141000Z. For best results, set the requested start time to at least 20 minutes past the time that you expect...
to submit the RFC. Alternatively, you can use the ASAP option, which causes the RFC to be executed as soon as it is approved, to use this option, do not specify any start time. If the RFC does not pass syntax or other checks before the requested start time (if one is set), the RFC is canceled.

Type: String
Required: No

**RollbackPlan (p. 7)**

The actions or steps required to undo the change.

Type: String
Required: No

**Title (p. 7)**

A name for the RFC; this is displayed as the subject of the RFC in the AMS console.

Type: String
Required: Yes

**WorstCaseScenario (p. 7)**

A description of the most unfavorable outcome of the change.

Type: String
Required: No

---

### Response Syntax

```json
{
  "RfcId": "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.

**RfcId (p. 9)**

The unique ID (UUID) of the RFC that was created.

Type: String

---

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 103)](#).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500
InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateRfcAttachment

Create an attachment for an existing RFC.

Request Syntax

```
{
    "Content": blob,
    "FileName": "string",
    "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Content (p. 11)**

The content of the RFC attachment, which is binary data.

Type: Base64-encoded binary data object

Required: Yes

**FileName (p. 11)**

The file name of the RFC attachment.

Type: String

Required: Yes

**RfcId (p. 11)**

The RFC identifier for an RFC attachment request.

Type: String

Required: Yes

Response Syntax

```
{
    "AttachmentId": "string",
    "RfcId": "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.
AttachmentId (p. 11)

The attachment identifier in an RFC attachment response.

Type: String

RfcId (p. 11)

The RFC identifier in an RFC attachment request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

ServiceQuotaExceededException

You have exceeded your service quotas.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateRfcCorrespondence

Create the correspondence for an RFC.

Request Syntax

```json
{
   "AttachmentIds": [ "string" ],
   "Content": "string",
   "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**AttachmentIds (p. 14)**

The attachment identifiers for an RFC correspondence request.

Type: Array of strings

Required: No

**Content (p. 14)**

The content for an RFC correspondence request.

Type: String

Required: Yes

**RfcId (p. 14)**

The RFC identifier for an RFC correspondence request.

Type: String

Required: Yes

Response Syntax

```json
{
   "CorrespondenceId": "string",
   "RfcId": "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.
CorrespondenceId (p. 14)

The correspondence identifier in an RFC correspondence response.

Type: String

RfcId (p. 14)

The RFC identifier in an RFC correspondence response.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetChangeTypeVersion

Returns information about the specified change type; optionally, you can specify a change type version identifier. By default, the most recent version of the change type is returned.

The information returned includes:

- Execution approval requirements (ApprovalCondition)
- Whether execution of the change is automated or manual (AutomationStatus)
- Change type deprecation information (DeprecationMessage and DeprecationTime)
- An estimate of the time required for execution of the change (ExpectedExecutionDurationInMinutes)
- The parameters that can be specified for the change (ExecutionInputSchema)

For more information and examples, see Understanding Change Types in the AWS Managed Services User Guide.

Request Syntax

```
{
  "ChangeTypeId": "string",
  "Locale": "string",
  "Version": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**ChangeTypeId (p. 16)**

The unique ID of the change type, in the form ct-2ty5seo8rfsc.

Type: String

Required: Yes

**Locale (p. 16)**

The locale (language) to return information in. The default is English. Note: For future use; not currently implemented.

Type: String

Required: No

**Version (p. 16)**

The version identifier of the change type to return.

Note

If you use the AWS CLI and want to specify a change type version in the request, you must use extra double hyphens (--) to cause the CLI to interpret the --version parameter correctly (and not interpret it as a base AWS CLI option). Any base AWS CLI options and parameters (not specific to the AWS Managed Services API), such as --output or --profile, must appear before the double hyphen. The simplest way to do this is by putting
the double hyphens immediately before the `get-change-type-version` command. For example: `aws amscm --output text -- get-change-type-version --version 1.0`.

This special treatment applies only if you specify the parameter on the command line; no special treatment is necessary if you provide parameters in JSON format.

Type: String

Required: No

Response Syntax

```json
{
   "ChangeTypeVersion": {
      "AccessLevel": {
         "Id": "string",
         "Name": "string"
      },
      "ApprovalCondition": {
         "AwsApproval": {
            "Id": "string",
            "Name": "string"
         },
         "CustomerApproval": {
            "Id": "string",
            "Name": "string"
         }
      },
      "AutomationStatus": {
         "Id": "string",
         "Name": "string"
      },
      "ChangeTypeId": "string",
      "CreatedTime": "string",
      "DeprecationMessage": "string",
      "DeprecationTime": "string",
      "ExecutionInputSchema": "string",
      "ExecutionOutputSchema": "string",
      "ExpectedExecutionDurationInMinutes": number,
      "Name": "string",
      "Version": "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.

**ChangeTypeVersion (p. 17)**

Information about the specified version of the change type.

Type: `ChangeTypeVersion (p. 72)` object

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 103)`.
InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRfc

Returns information about the specified RFC ID.

Request Syntax

```
{
    "Locale": "string",
    "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Locale (p. 19)**

The locale (language) to return information in. The default is English. **Note:** For future use; not currently implemented.

Type: String

Required: No

**RfcId (p. 19)**

The unique ID (UUID) of the RFC

Type: String

Required: Yes

Response Syntax

```
{
    "Rfc": {
        "ActionState": {
            "Id": "string",
            "Name": "string"
        },
        "ActualExecutionTimeRange": {
            "EndTime": "string",
            "StartTime": "string"
        },
        "ApprovalState": {
            "AwsApprovalStatus": {
                "Id": "string",
                "Name": "string"
            },
            "CustomerApprovalStatus": {
                "Id": "string",
                "Name": "string"
            }
        }
    }
}
```
"AutomationStatus": {
   "Id": "string",
   "Name": "string"
},
"ChangeTypeId": "string",
"ChangeTypeVersion": "string",
"CreatedBy": "string",
"CreatedTime": "string",
"Description": "string",
"ExecutionOutput": "string",
"ExecutionParameters": "string",
"ExpectedOutcome": "string",
"ImplementationPlan": "string",
"LastCorrespondenceTime": "string",
"LastModifiedBy": "string",
"LastModifiedTime": "string",
"LastSubmittedTime": "string",
"Notification": {
   "Email": {
      "EmailRecipients": [ "string" ]
   }
},
"RequestedExecutionTimeRange": {
   "EndTime": "string",
   "StartTime": "string"
},
"RestrictedExecutionTimesOverride": {
   "Id": "string",
   "Name": "string"
},
"RfcId": "string",
"RollbackPlan": "string",
"Status": {
   "Id": "string",
   "Name": "string"
},
"StatusReason": "string",
"Title": "string",
"WorstCaseScenario": "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.

Rfc (p. 19)

Information about the RFC.

Type: Rfc (p. 80) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.
HTTP Status Code: 500
InvalidArgumentException
   A specified argument is not valid.

HTTP Status Code: 400
ResourceNotFoundException
   A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRfcAttachment

Retrieve the attachment from an RFC.

Request Syntax

```json
{
    "AttachmentId": "string",
    "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

AttachmentId (p. 22)

The attachment identifier in an RFC attachment GET request.

Type: String

Required: Yes

RfcId (p. 22)

The RFC identifier in an RFC attachment GET request.

Type: String

Required: Yes

Response Syntax

```json
{
    "RfcAttachment": {
        "AttachmentId": "string",
        "Content": blob,
        "ContentLengthInBytes": number,
        "ContentType": "string",
        "CreatedBy": "string",
        "CreatedTime": "string",
        "FileName": "string",
        "RfcId": "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.
RfcAttachment (p. 22)

The RFC attachment in an RFC attachment GET response.

Type: RfcAttachment (p. 87) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeCategories

Returns the available change type category values.

Request Syntax

```
{
  "Locale": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

Locale (p. 24)

The locale (language) to return information in. The default is English. Note: For future use; not currently implemented.

Type: String

Required: No

MaxResults (p. 24)

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

NextToken (p. 24)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Required: No

Response Syntax

```
{
  "ChangeTypeCategories": [ "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.

**ChangeTypeCategories (p. 24)**

The available change type category values.

Type: Array of strings

**NextToken (p. 24)**

If the response contains more items than `MaxResults`, only `MaxResults` items are returned, and a `NextToken` pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the `NextToken` parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 103)](#).  

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

### See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeClassificationSummaries

Returns the classifications (category, subcategory, item, and operation) for all change types that meet the specified (optional) filter criteria.

Request Syntax

```json
{
   "Filters": [
   {
      "Attribute": "string",
      "Condition": "string",
      "Value": "string",
      "Values": [ "string" ]
   }
   ],
   "Locale": "string",
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Filters (p. 26)**

Attribute/value pairs to narrow the results returned. Filter criteria are combined in a logical OR operation, and values that contain spaces are also combined in an OR operation. For example, a Value of "read-only access" matches all values that contain "read-only" OR "access". Valid filter attributes: Category, Subcategory, Item, Operation, ChangeTypeId.

For more information and examples, see Finding Change Types in the AWS Managed Services User Guide.

Type: Array of Filter (p. 77) objects

Required: No

**Locale (p. 26)**

The locale (language) to return information in. The default is English. Note: For future use; not currently implemented.

Type: String

Required: No

**MaxResults (p. 26)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No
NextToken (p. 26)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String
Required: No

Response Syntax

```json
{
  "ChangeTypeClassificationSummaries": [
    {
      "Category": "string",
      "ChangeTypeId": "string",
      "Item": "string",
      "Operation": "string",
      "Subcategory": "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.

**ChangeTypeClassificationSummaries (p. 27)**

The change type classifications that satisfy the filter criteria.

Type: Array of ChangeTypeClassificationSummary (p. 70) objects

**NextToken (p. 27)**

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500
InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeItems

Returns the available change type item values for the specified category and subcategory values.

Request Syntax

```json
{
    "Category": "string",
    "Locale": "string",
    "MaxResults": number,
    "NextToken": "string",
    "Subcategory": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Category (p. 29)**

The change type category value to return the item values for.

Type: String

Required: Yes

**Locale (p. 29)**

The locale (language) to return information in. The default is English. **Note:** For future use; not currently implemented.

Type: String

Required: No

**MaxResults (p. 29)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

**NextToken (p. 29)**

If the response contains more items than **MaxResults**, only **MaxResults** items are returned, and a **NextToken** pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the **NextToken** parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Required: No

**Subcategory (p. 29)**

The change type subcategory value to return the item values for.
Type: String
Required: Yes

Response Syntax

```
{
    "ChangeTypeItems": [ "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.

ChangeTypeItems (p. 30)

The change type item values for the specified category and subcategory values.

Type: Array of strings

NextToken (p. 30)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
See Also

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeOperations

Returns the available change type operation values for the specified category and subcategory values.

Request Syntax

```
{
  "Category": "string",
  "Item": "string",
  "Locale": "string",
  "MaxResults": number,
  "NextToken": "string",
  "Subcategory": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Category (p. 32)**

The change type category value to return the operation values for.

Type: String

Required: Yes

**Item (p. 32)**

The change type item values to return the operation values for.

Type: String

Required: Yes

**Locale (p. 32)**

The locale (language) to return information in. The default is English. **Note:** For future use; not currently implemented.

Type: String

Required: No

**MaxResults (p. 32)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

**NextToken (p. 32)**

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.
Type: String
Required: No
**Subcategory (p. 32)**
The change type subcategory values to return the operation values for.
Type: String
Required: Yes

**Response Syntax**

```json
{
  "ChangeTypeOperationSummaries": [
    {
      "ChangeTypeId": "string",
      "Operation": "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.

**ChangeTypeOperationSummaries (p. 33)**
The change type operation values for the specified category, subcategory, and item values.
Type: Array of ChangeTypeOperationSummary (p. 71) objects

**NextToken (p. 33)**
If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.
Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerException**
An unspecified server error occurred.
HTTP Status Code: 500

**InvalidArgumentException**
A specified argument is not valid.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeSubcategories

Returns the available change type subcategory values for the specified category value.

Request Syntax

```json
{
    "Category": "string",
    "Locale": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Category (p. 35)**

The change type category value to return the subcategory values for.

Type: String
Required: Yes

**Locale (p. 35)**

The locale (language) to return information in. The default is English. Note: For future use; not currently implemented.

Type: String
Required: No

**MaxResults (p. 35)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer
Required: No

**NextToken (p. 35)**

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String
Required: No

Response Syntax

```json
{
}
```
Response Elements

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

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

**ChangeTypeSubcategories (p. 35)**

The change type subcategory values for the specified category value.

Type: Array of strings

**NextToken (p. 35)**

If the response contains more items than `MaxResults`, only `MaxResults` items are returned, and a `NextToken` pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the `NextToken` parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListChangeTypeVersionSummaries

Returns version information (versions and deprecation times) for the specified change type.

Request Syntax

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Condition": "string",
      "Value": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Filters (p. 37)**

The only valid filter attribute is `ChangeTypeId`, and a value is required.

Type: Array of Filter (p. 77) objects

Required: No

**MaxResults (p. 37)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

**NextToken (p. 37)**

If the response contains more items than `MaxResults`, only `MaxResults` items are returned, and a `NextToken` pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the `NextToken` parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Required: No

Response Syntax

```
{
  "ChangeTypeVersionSummaries": [
    {
      ...
    }
  ]
}
```
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.

### ChangeTypeVersionSummaries (p. 37)

The version information (versions and deprecation times) for the specified change type.

Type: Array of ChangeTypeVersionSummary (p. 74) objects

### NextToken (p. 37)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

### Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServer**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListRestrictedExecutionTimes

Returns the time ranges during which change execution is restricted.

Request Syntax

```
{
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

MaxResults (p. 40)

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

NextToken (p. 40)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

Required: No

Response Syntax

```
{
    "NextToken": "string",
    "RestrictedExecutionTimes": [
        {
            "TimeRange": { 
                "EndTime": "string",
                "StartTime": "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.

**NextToken (p. 40)**

If the response contains more items than `MaxResults`, only `MaxResults` items are returned, and a `NextToken` pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the `NextToken` parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

**RestrictedExecutionTimes (p. 40)**

The time ranges during which change execution is restricted.

Type: Array of `RestrictedExecutionTime (p. 79)` objects

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 103)](#).

**InternalServerException**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

### See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListRfcAttachmentSummaries

The Request for Change (RFCs) attachments.

Request Syntax

```json
{
    "Filters": [
        {
            "Attribute": "string",
            "Condition": "string",
            "Value": "string",
            "Values": [ "string" ]
        }
    ],
    "Locale": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

Filters (p. 42)

The only valid filter attribute is RfcId, and a value is required.

Type: Array of Filter (p. 77) objects

Required: No

Locale (p. 42)

The locale (language) to return information in. The default is English. Note: For future use; not currently implemented.

Type: String

Required: No

MaxResults (p. 42)

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

NextToken (p. 42)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String
Response Syntax

```json
{
    "NextToken": "string",
    "RfcAttachmentSummaries": [
        {
            "AttachmentId": "string",
            "ContentLengthInBytes": number,
            "ContentType": "string",
            "CreatedBy": "string",
            "CreatedTime": "string",
            "FileName": "string",
            "RfcId": "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.

**NextToken (p. 43)**

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

**RfcAttachmentSummaries (p. 43)**

List a summary of the existing attachments of an RFC.

Type: Array of RfcAttachmentSummary (p. 89) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

A specified resource could not be located. Actual status code: 404
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListRfcCorrespondences

List the existing correspondences of an RFC.

Request Syntax

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Condition": "string",
      "Value": "string",
      "Values": [ "string" ]
    }
  ],
  "Locale": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Filters (p. 45)**

The only valid filter attribute is RfcId, and a value is required.

Type: Array of Filter (p. 77) objects

Required: No

**Locale (p. 45)**

The locale (language) to return information in. The default is English. **Note:** For future use; not currently implemented.

Type: String

Required: No

**MaxResults (p. 45)**

The maximum number of items to return in one batch. Valid values are 20-100.

Type: Integer

Required: No

**NextToken (p. 45)**

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String
Required: No

**Response Syntax**

```json
{
    "NextToken": "string",
    "RfcCorrespondences": [
        {
            "Content": "string",
            "CorrespondenceId": "string",
            "CreatedBy": "string",
            "CreatedTime": "string",
            "LinkedAttachments": [
                {
                    "AttachmentId": "string",
                    "CreatedBy": "string",
                    "CreatedTime": "string",
                    "FileName": "string"
                }
            ],
            "RfcId": "string",
            "UserType": {
                "Id": "string",
                "Name": "string"
            }
        }
    ]
}
```

**Response Elements**

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

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

**NextToken (p. 46)**

If the response contains more items than `MaxResults`, only `MaxResults` items are returned, and a `NextToken` pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the `NextToken` parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

**RfcCorrespondences (p. 46)**

The list of correspondences for an existing RFC.

Type: Array of `RfcCorrespondence (p. 91)` objects

**Errors**

For information about the errors that are common to all actions, see `Common Errors (p. 103)`.

**InternalServerErro**r

An unspecified server error occurred.

HTTP Status Code: 500
InvalidArgumentException
A specified argument is not valid.
HTTP Status Code: 400

ResourceNotFoundException
A specified resource could not be located. Actual status code: 404
HTTP Status Code: 400

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListRfcSummaries

Returns summaries of Request for Change (RFCs) that meet the specified criteria.

Request Syntax

```
{  
  "Filters": [  
    {  
      "Attribute": "string",
      "Condition": "string",
      "Value": "string",
      "Values": [ "string" ]
    }
  ],
  "Locale": "string",
  "MaxResults": number,
  "NextToken": "string",
  "RequestedEndTimeRange": {  
    "EndTime": "string",
    "StartTime": "string"
  },
  "RequestedStartTimeRange": {  
    "EndTime": "string",
    "StartTime": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

Filters (p. 48)

You can Filter results based on an Attribute and Value combined in a logical AND operation, or based on an Attribute, a Condition, and Values.

The following are the valid filter attributes:

ActualEndTime
- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
- Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.

ActualStartTime
- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
- Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.
AutomationStatusId

- Valid Values: Manual, Automated
- Valid Conditions: Equals
- Default Condition: Equals
- Notes: There are only two automation statuses.

ChangeTypeId

- Valid Values: Any valid change type ID; for example, ct-123h45t6uz7jl.
- Valid Conditions: Equals
- Default Condition: Equals
- Notes: Finding a Change Type or CISO in the AMS User Guide.

ChangeTypeVersion

- Valid Values: Any valid change type ID; for example, 1.0.
- Valid Conditions: Equals
- Default Condition: Equals
- Notes: Finding a Change Type or CISO in the AMS User Guide.

CreatedBy

- Valid Values: Any string (maximum allowed length is 2048 characters).
- Valid Conditions: Contains
- Default Condition: Contains
- Notes: The CreatedBy field of the RFC contains the ARN of the user who created it.

CreatedTime

- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
- Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.

LastModifiedTime

- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
- Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.

LastSubmittedTime

- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
- Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.

RequestedEndTime

- Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
- Valid Conditions: Before, After, Between
- Default Condition: None
Request Parameters

- **RequestedStartTime**
  - Valid Values: Any string representing an ISO8601 datetime (e.g., “20170101T000000Z”).
  - Valid Conditions: Before, After, Between
  - Default Condition: None
  - Notes: The Before or After condition only accepts one value in the Values field. The Between condition must have exactly two values in the Values field, where the first value should represent a date that happens before the second value.

- **RfcStatusId**
  - Valid Values: Canceled, Editing, Failure,InProgress, PendingApproval, Rejected, Scheduled, Success
  - Valid Conditions: Equals
  - Default Condition: Equals
  - Notes: Refresh the RFC list in the AMS console or run GetRfc (p. 19).

- **Title**
  - Valid Values: Any valid RFC title.
  - Valid Conditions: Contains
  - Default Condition: Contains
  - Notes: Regular expressions in each individual field are not supported. Case insensitive search.

For more information about the filter attributes and examples, see Finding RFCs in the AMS User Guide.

- Type: Array of Filter (p. 77) objects
  - Required: No

- **Locale**
  - The locale (language) to return information in. The default is English. **Note**: For future use; not currently implemented.
  - Type: String
  - Required: No

- **MaxResults**
  - The maximum number of items to return in one batch. Valid values are 20-100.
  - Type: Integer
  - Required: No

- **NextToken**
  - If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.
  - Type: String
  - Required: No
Response Syntax

```json
{
    "RequestedEndTimeRange": {
        "Id": "string",
        "Name": "string"
    },
    "RequestedStartTimeRange": {
        "Id": "string",
        "Name": "string"
    },
    "ActionState": {
        "Id": "string",
        "Name": "string"
    },
    "ActualExecutionTimeRange": {
        "EndTime": "string",
        "StartTime": "string"
    },
    "ApprovalState": {
        "AwsApprovalStatus": {
            "Id": "string",
            "Name": "string"
        },
        "CustomerApprovalStatus": {
            "Id": "string",
            "Name": "string"
        }
    },
    "AutomationStatus": {
        "Id": "string",
        "Name": "string"
    },
    "ChangeTypeId": "string",
    "ChangeTypeVersion": "string",
    "CreatedBy": "string",
    "CreatedTime": "string",
    "LastCorrespondenceTime": "string",
    "LastModifiedTime": "string",
    "LastSubmittedTime": "string",
    "RequestedExecutionTimeRange": {
        "EndTime": "string",
        "StartTime": "string"
    },
    "RfcId": "string",
    "Status": {
        "Id": "string",
        "Name": "string"
    }
}
```
Response Elements

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

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

NextToken (p. 51)

If the response contains more items than MaxResults, only MaxResults items are returned, and a NextToken pagination token is returned in the response. To retrieve the next batch of items, reissue the request and include the returned token in the NextToken parameter. When all items have been returned, the response does not contain a pagination token value.

Type: String

RfcSummaries (p. 51)

The summaries of RFCs that meet the specified criteria.

Type: Array of RfcSummary (p. 96) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

InternalServerError

An unspecified server error occurred.

HTTP Status Code: 500

InvalidArgumentException

A specified argument is not valid.

HTTP Status Code: 400

Examples

Sample Request Using the CreatedBy Filter Attribute

The following is an example request using the CreatedBy filter attribute.

```
{
    "Operation": "com.amazonaws.services.managedservices.cm.model#ListRfcSummaries",
    "Service": "com.amazonaws.services.managedservices.cm.model#AWSEnergonService",
    "Input": {
        "Filters": [
            {
                "Attribute": "CreatedBy",
                "Values": ["John", "Mary"
```
Sample Response Using the CreatedBy Filter Attribute

The following is an example response from the request using the CreatedBy filter attribute.

```json
{
  "Output": {
    "__type": "com.amazonaws.services.managedservices.cm.model#ListRfcSummariesResponse",
    "NextToken": null,
    "RfcSummaries": [
      {
        "ActionState": {
          "Id": "NotApplicable",
          "Name": "NotApplicable"
        },
        "ActualExecutionTimeRange": {
          "EndTime": null,
          "StartTime": null
        },
        "AutomationStatus": {
          "Id": "Automated",
          "Name": "Automated"
        },
        "ChangeTypeId": "ct-3izj492hm8s02",
        "ChangeTypeVersion": "4.0",
        "CreatedBy": "arn:aws:sts::123456789012:assumed-role/FullAccess/John-Isengard",
        "CreatedTime": "20191025T232624Z",
        "LastCorrespondenceTime": null,
        "LastModifiedTime": "20191025T232624Z",
        "LastSubmittedTime": null,
        "RequestedExecutionTimeRange": {
          "EndTime": null,
          "StartTime": null
        },
        "RfcId": "14b7029f-0a16-a83e-09d6-cd4fc9598ba9",
        "Status": {
          "Id": "Editing",
          "Name": "Editing"
        },
        "Title": "test"
      },
      {
        "ActionState": {
          "Id": "NotApplicable",
          "Name": "NotApplicable"
        },
        "ActualExecutionTimeRange": {
          "EndTime": "20191017T184158Z",
          "StartTime": "20191017T184135Z"
        },
        "AutomationStatus": {
          "Id": "Automated",
          "Name": "Automated"
        },
        "ChangeTypeId": "ct-3izj492hm8s02",
        "ChangeTypeVersion": "2.0",
        "CreatedBy": "arn:aws:sts::111122223333:assumed-role/PowerUserAccess/Mary-Isengard",
```

API Version 2020-05-21
"CreatedTime": "20191017T183530Z",
"LastCorrespondenceTime": null,
"LastModifiedTime": "20191017T184158Z",
"LastSubmittedTime": "20191017T183604Z",
"RequestedExecutionTimeRange": {
  "EndTime": null,
  "StartTime": null
},
"RfcId": "32b6ed80-6efd-b096-9a2b-ff273c3a52f6",
"Status": {
  "Id": "Success",
  "Name": "Success"
},
"Title": "testExecutionResponse"};

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RejectRfc

Marks the specified RFC as rejected. The alternate operation to ApproveRfc.

An RFC with a CT of "Execution mode: Manual" requires approval; rarely it requires customer response, either approval or rejection. If your response is explicitly required, the Approval Status: Customer Approval Pending RFC status is in the RFC execution output, but you receive no other notice. You must explicitly reject or approve the RFC by running this operation or the ApproveRfc operation.

Request Syntax

```json
{
  "Reason": "string",
  "RfcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Reason (p. 55)**

The reason for the rejection.

If an RFC is rejected or canceled, the reason for the action appears in the RfcReason.

Type: String

Required: Yes

**RfcId (p. 55)**

The unique ID (UUID) of the RFC to reject.

Type: String

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500
InvalidArgument Exception

A specified argument is not valid.

HTTP Status Code: 400

InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
SubmitRfc

Submits the specified RFC, and optionally specifies whether to observe default execution settings.

**Request Syntax**

```json
{
    "RestrictedExecutionTimesOverrideId": "string",
    "RfcId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**RestrictedExecutionTimesOverrideId (p. 57)**

The ID of a value that indicates how the change should observe default execution settings. Possible values: NoOverrides | OverrideRestrictedTimeRanges. The default is NoOverrides.

Type: String

Required: No

**RfcId (p. 57)**

The unique ID (UUID) of the RFC to submit.

Type: String

Required: Yes

**Response Elements**

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

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

**InvalidRfcScheduleException**

The specified schedule is not valid. Actual status code: 409
HTTP Status Code: 400

InvalidRfcStateException

The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

ResourceNotFoundException

A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateRestrictedExecutionTimes

Replaces the existing times when change execution is restricted.

Request Syntax

```json
{
    "RestrictedExecutionTimes": [
        {
            "TimeRange": {
                "EndTime": "string",
                "StartTime": "string"
            }
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**RestrictedExecutionTimes (p. 59)**

The new restricted time ranges.

Type: Array of RestrictedExecutionTime (p. 79) objects

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

A specified argument is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
UpdateRfc

Updates settings for the specified RFC ID. Updates non-null values.

Request Syntax

```
{
  "Description": "string",
  "ExecutionParameters": "string",
  "ExpectedOutcome": "string",
  "ImplementationPlan": "string",
  "Notification": {
    "Email": {
      "EmailRecipients": [ "string" ]
    }
  },
  "RequestedEndTime": "string",
  "RequestedStartTime": "string",
  "RfcId": "string",
  "RollbackPlan": "string",
  "Title": "string",
  "WorstCaseScenario": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 101).

The request accepts the following data in JSON format.

**Description (p. 61)**

The new description of the RFC.

Type: String

Required: No

**ExecutionParameters (p. 61)**

The new parameters that are required to execute the RFC, submitted in JSON format.

Type: String

Required: No

**ExpectedOutcome (p. 61)**

A new description of the effects of the change.

Type: String

Required: No

**ImplementationPlan (p. 61)**

The new actions or steps required to implement the change (for change types that are not automated).
Notification (p. 61)

Notice that an RFC has been updated.

Required: No

RequestedEndTime (p. 61)

The new end of the change window, expressed in ISO 8601 format. The default format is the `basic` format (`YYYYMMDDThhmmssZ`). For example, 2017/02/27 at 2:30 PM would be `20170227T143000Z`. An RFC does not fail if the requested end time is exceeded.

Required: No

RequestedStartTime (p. 61)

The new start of the change window, expressed in ISO 8601 format. The default format is the `basic` format (`YYYYMMDDThhmmssZ`). For example, 2017/02/27 at 2:10 PM would be `20170227T141000Z`. For best results, set the requested start time to at least 20 minutes past the time that you expect to submit the RFC. Alternatively, you can use the ASAP option, which causes the RFC to be executed as soon as it is approved, to use this option, do not specify any start time. If the RFC does not pass syntax or other checks before the requested start time (if set), the RFC is canceled.

Required: No

RfcId (p. 61)

The unique ID (UUID) of the RFC.

Required: Yes

RollbackPlan (p. 61)

The new actions or steps required to undo the change.

Required: No

Title (p. 61)

A new name for the RFC; this is displayed as the subject of the RFC in the AMS console.

Required: No

WorstCaseScenario (p. 61)

A new description of the most unfavorable outcome of the change.

Required: No
Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 103).

**InternalServerError**

> An unspecified server error occurred.

HTTP Status Code: 500

**InvalidArgumentException**

> A specified argument is not valid.

HTTP Status Code: 400

**InvalidRfcStateException**

> The RFC is not in a state that allows the requested operation. Actual status code: 409

HTTP Status Code: 400

**ResourceNotFoundException**

> A specified resource could not be located. Actual status code: 404

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Data Types

The AWS Managed Services Change Management 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:

- AutomationStatus (p. 65)
- ChangeTypeAccessLevel (p. 66)
- ChangeTypeApprovalCondition (p. 67)
- ChangeTypeApprovalRequirement (p. 68)
- ChangeTypeAutomationStatus (p. 69)
- ChangeTypeClassificationSummary (p. 70)
- ChangeTypeOperationSummary (p. 71)
- ChangeTypeVersion (p. 72)
- ChangeTypeVersionSummary (p. 74)
- Email (p. 76)
- Filter (p. 77)
- LinkedAttachment (p. 78)
- RestrictedExecutionTime (p. 79)
- Rfc (p. 80)
- RfcActionState (p. 84)
- RfcApprovalState (p. 85)
- RfcApprovalStatus (p. 86)
- RfcAttachment (p. 87)
- RfcAttachmentSummary (p. 89)
- RfcCorrespondence (p. 91)
- RfcNotification (p. 93)
- RfcRestrictedExecutionTimesOverride (p. 94)
- RfcStatus (p. 95)
- RfcSummary (p. 96)
- TimeRange (p. 99)
- UserType (p. 100)
AutomationStatus

Whether the change type is automated or manual.

Contents

Id

The ID of change type automation type. Possible values: Automated | Manual.

Type: String

Required: No

Name

The description of the change type automation type.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeAccessLevel

The access level of the change type.

Contents

Id
The ID of change type access level. Possible values: OpenAccess | AwsOperatorInternalOnly.

Type: String
Required: No

Name
The description of the kind of change type access level.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeApprovalCondition

The approvals that are required for the execution of a change type.

Contents

AwsApproval

The approvals that are required from AWS for the execution of a change type.

Type: ChangeTypeApprovalRequirement (p. 68) object

Required: No

CustomerApproval

The approvals that are required from the customer for the execution of a change type.

Type: ChangeTypeApprovalRequirement (p. 68) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeApprovalRequirement

The kind of approval that is required for the execution of a change type.

Contents

**Id**

The ID of the kind of approval required. Possible values: Required | NotRequired

Type: String

Required: No

**Name**

The description of the kind of approval required.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeAutomationStatus

The automation status of a change type (Automated or Manual).

Contents

Id

The ID of the automation status of a change type. Possible values: Automated | Manual

Type: String
Required: No

Name

The description of the automation status (Automated or Manual).

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeClassificationSummary

The category, subcategory, item, and operation values of a change type.

Contents

Category

The category value of the change type.

Type: String
Required: No

ChangeTypeId

The unique ID of the change type, in the form ct-2ty5seo8rxfsc.

Type: String
Required: No

Item

The item value of the change type.

Type: String
Required: No

Operation

The operation value of the change type.

Type: String
Required: No

Subcategory

The subcategory value of the change type.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeTypeOperationSummary

The operation values and change type IDs for a particular category, subcategory, and item value.

Contents

ChangeTypeId

The ID of the change type that has the corresponding operation value.

Type: String
Required: No

Operation

The operation value of the corresponding change type.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**ChangeTypeVersion**

Information about a specific version of a change type.

**Contents**

**AccessLevel**

Type: `ChangeTypeAccessLevel (p. 66)` object

Required: No

**ApprovalCondition**

The approval requirements for the change type version.

Type: `ChangeTypeApprovalCondition (p. 67)` object

Required: No

**AutomationStatus**

The automation status (Automated or Manual) of the change type version.

Type: `ChangeTypeAutomationStatus (p. 69)` object

Required: No

**ChangeTypeId**

The unique ID of the change type, in the form ct-2ty5seo8rxfs.

Type: String

Required: No

**CreatedTime**

The date and time that the change type version was created.

Type: String

Required: No

**DeprecationMessage**

Information about the reasons for deprecating the change type version.

Type: String

Required: No

**DeprecationTime**

The date and time that the change type version was deprecated.

Type: String

Required: No

**ExecutionInputSchema**

A JSON schema that describes the parameters for the change type.
Type: String
Required: No

**ExecutionOutputSchema**

A JSON schema that describes the output for the change type.

Type: String
Required: No

**ExpectedExecutionDurationInMinutes**

The number of minutes that the change should take to execute.

Type: Integer
Required: No

**Name**

The title of the JSON Schema ExecutionInputSchema of the change type version.

Type: String
Required: No

**Version**

The version number for this change type version.

Type: String
Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**ChangeTypeVersionSummary**

Summary information about a change type version.

**Contents**

**AccessLevel**

The access level of the change type.

Type: `ChangeTypeAccessLevel (p. 66)` object

Required: No

**AutomationStatus**

The automation status of a change type (Automated or Manual).

Type: `ChangeTypeAutomationStatus (p. 69)` object

Required: No

**ChangeTypeId**

The unique ID of the change type, in the form ct-2ty5seo8rxfusc.

Type: String

Required: No

**CreatedTime**

The date and time that the change type version was created.

Type: String

Required: No

**DeprecationTime**

The date and time that the change type version was deprecated.

Type: String

Required: No

**Description**

Description of the change type version.

Type: String

Required: No

**Name**

The title of the JSON Schema `ExecutionInputSchema` of the change type version.

Type: String

Required: No

**Version**

The version number for this change type version.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Email

The notification email structure.

Contents

EmailRecipients

The list of email addresses to receive the RFC state change notifications.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Filter

An attribute and value pair to use for narrowing search results.

Contents

Attribute

The parameter name to filter on.

Type: String

Required: Yes

Condition

Supported filter conditions.

Valid values: After | Before | Between | Contains | Equals.

Type: String

Required: No

Value

This member has been deprecated.

The value of the corresponding attribute to use.

Type: String

Required: No

Values

The list of comma-separated values of the corresponding attribute to use.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
LinkedAttachment

The list of attachments that are linked to the correspondence.

Contents

AttachmentId
The AttachmentId of the linked attachment.
Type: String
Required: No

CreatedBy
The Amazon Resource Name (ARN) of the user who created the attachment.
Type: String
Required: No

CreatedTime
The date and time when the attachment was created.
Type: String
Required: No

FileName
The file name of the linked attachment.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RestrictedExecutionTime

The time ranges during which change execution is restricted.

Contents

TimeRange

The starting and ending times of a restricted time range.

Type: TimeRange (p. 99) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Rfc

A request for change. For more information, see CreateRfc (p. 7).

Contents

**ActionState**

The action state of the RFC.

Type: RfcActionState (p. 84) object

Required: No

**ActualExecutionTimeRange**

The starting and ending dates and times during which the change was executed.

Type: TimeRange (p. 99) object

Required: No

**ApprovalState**

The approval statuses of the RFC.

Type: RfcApprovalState (p. 85) object

Required: No

**AutomationStatus**

Whether the change type is automated or manual.

Type: AutomationStatus (p. 65) object

Required: No

**ChangeTypeId**

The unique ID of the change type, in the form ct-2ty5seo8rfsc.

Type: String

Required: No

**ChangeTypeVersion**

The version number of the change type version associated with the RFC.

Type: String

Required: No

**CreatedBy**

The Amazon Resource Name (ARN) of the user who created the RFC.

Type: String

Required: No

**CreatedTime**

The date and time that the RFC was created.
Type: String
Required: No

Description
A text description of the RFC.
Type: String
Required: No

ExecutionOutput
The output from the execution of the change.
Type: String
Required: No

ExecutionParameters
The parameters to use in the execution of the request, in JSON format. To get the JSON schema for the parameters, use the GetChangeTypeVersion (p. 16) operation.
Type: String
Required: No

ExpectedOutcome
A description of the effects of the change.
Type: String
Required: No

ImplementationPlan
The actions or steps required to implement the change.
Type: String
Required: No

LastCorrespondenceTime
The date and time when the most recent correspondence was created.
Type: String
Required: No

LastModifiedBy
The Amazon Resource Name (ARN) of the user who made the most recent change to the RFC.
Type: String
Required: No

LastModifiedTime
The time that the RFC was most recently modified, expressed in ISO 8601 format. By default, AMS uses the basic format (YYYYMMDDThhmssZ).
Type: String
Required: No

**LastSubmittedTime**

The time that the RFC was most recently submitted, expressed in ISO 8601 format. By default, AMS uses the basic format (YYYY-MM-DDThh:mm:ssZ).

Type: String

Required: No

**Notification**

The RFC notification structure.

Type: RfcNotification (p. 93) object

Required: No

**RequestedExecutionTimeRange**

The starting and ending dates and times during which the change should be executed. Null if the RFC was ASAP.

Type: TimeRange (p. 99) object

Required: No

**RestrictedExecutionTimesOverride**

An indication of whether the change should observe the preset restricted execution times. Possible values: NoOverrides | OverrideRestrictedTimeRanges.

Type: RfcRestrictedExecutionTimesOverride (p. 94) object

Required: No

**RfcId**

The unique ID (UUID) of the RFC.

Type: String

Required: No

**RollbackPlan**

The actions or steps required to undo the change.

Type: String

Required: No

**Status**

The status of the RFC. Possible values: Editing | PendingApproval | Scheduled | Canceled | Rejected | InProgress | Success | Failure

Type: RfcStatus (p. 95) object

Required: No

**StatusReason**

The reason provided for RFC status; for example, why it was rejected.

Type: String
Required: No

**Title**

The identifying title of the RFC.

Type: String

Required: No

**WorstCaseScenario**

A description of the most unfavorable outcome of the change.

Type: String

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**RfcActionState**

The action state of the RFC.

## Contents

**Id**

The ID of the action state.

Valid values: `AwsOperatorAssigned` | `AwsActionPending` | `NoActionPending` | `CustomerActionPending` | `NotApplicable`

Type: String

Required: No

**Name**

The name of the action state.

Type: String

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcApprovalState

The status of the approvals for the RFC.

Contents

AwsApprovalStatus

The status of the approval by AWS operations.

Type: RfcApprovalStatus (p. 86) object

Required: No

CustomerApprovalStatus

The status of the approval by the customer.

Type: RfcApprovalStatus (p. 86) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcApprovalStatus

An ID and name for an approval status of an RFC.

Contents

Id

The ID of the status. Valid values: SubmissionPending | NotRequired | ApprovalPending | Approved | Rejected.

Type: String
Required: No

Name

A name for the corresponding status ID.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcAttachment

The RFC attachment.

Contents

AttachmentId
The unique ID (UUID) of the RFC attachment.
Type: String
Required: No

Content
The content of the RFC attachment, which is binary data.
Type: Base64-encoded binary data object
Required: No

ContentLengthInBytes
The length of the RFC attachment content in bytes.
Type: Integer
Required: No

ContentType
The RFC attachment content mime type.
Type: String
Required: No

CreatedBy
The Amazon Resource Name (ARN) of the user who created the attachment.
Type: String
Required: No

CreatedTime
The date and time when the RFC attachment was created.
Type: String
Required: No

FileName
The file name of the RFC attachment.
Type: String
Required: No

RfcId
The RfcId of the RFC.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcAttachmentSummary

The RFC attachment summary structure.

Contents

AttachmentId

The AttachmentId of the attachment.
Type: String
Required: No

ContentSizeInBytes

The length of the RFC attachment content in bytes.
Type: Integer
Required: No

ContentType

The RFC attachment content mime type.
Type: String
Required: No

CreatedBy

The Amazon Resource Name (ARN) of the user who created the attachment.
Type: String
Required: No

CreatedTime

The date and time when the RFC attachment was created.
Type: String
Required: No

FileName

The file name of the RFC attachment.
Type: String
Required: No

RfcId

The RfcId of the RFC.
Type: String
Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**RfcCorrespondence**

The RFC correspondence structure.

**Contents**

**Content**

The RFC correspondence content in plain text.

Type: String

Required: No

**CorrespondenceId**

The Unique Identifier (UUID) of the RFC correspondence.

Type: String

Required: No

**CreatedBy**

The Amazon Resource Name (ARN) of the user who created the correspondence.

Type: String

Required: No

**CreatedTime**

The date and time when the RFC correspondence was created.

Type: String

Required: No

**LinkedAttachments**

The list of AttachmentId identifiers that are linked to the RFC correspondence.

Type: Array of LinkedAttachment (p. 78) objects

Required: No

**RfcId**

The RfcId of the RFC.

Type: String

Required: No

**UserType**

The user type of the RFC correspondence, customer or AWS operator.

Type: UserType (p. 100) object

Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcNotification

The RFC notification structure.

Contents

Email

The list of email addresses where the RFC status change notification will be sent.

Type: Email (p. 76) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcRestrictedExecutionTimesOverride

An ID and name for an option for overriding preset restrictions on execution of a change.

Contents

Id

The ID of the override option.

Type: String

Required: No

Name

A name for the corresponding override option.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**RfcStatus**

An ID and name for the status of the RFC.

**Contents**

**Id**

The ID of the status. Possible values: Editing | PendingApproval | Scheduled | InProgress | Rejected | Canceled | Success | Failure

Type: String

Required: No

**Name**

A name for the corresponding status ID.

Type: String

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
RfcSummary

Summary information about a request for change.

Contents

ActionState
The action state of the RFC.
Type: RfcActionState (p. 84) object
Required: No

ActualExecutionTimeRange
The starting and ending dates and times during which the change was executed.
Type: TimeRange (p. 99) object
Required: No

ApprovalState
The status of the approvals for the RFC.
Type: RfcApprovalState (p. 85) object
Required: No

AutomationStatus
Whether the change type is automated or manual.
Type: AutomationStatus (p. 65) object
Required: No

ChangeTypeId
The unique ID of the change type, in the form ct-2ty5seo8rfsc.
Type: String
Required: No

ChangeTypeVersion
The version number of the change type version associated with the RFC.
Type: String
Required: No

CreatedBy
The date and time when the RFC was created.
Type: String
Required: No

CreatedTime
The date and time that the RFC was created.
Type: String
Required: No

LastCorrespondenceTime
The date and time when the last correspondence was added.
Type: String
Required: No

LastModifiedTime
The time that the RFC was most recently modified, expressed in ISO 8601 format. By default, AWS MS uses the basic format (YYYYMMDDThhmmssZ).
Type: String
Required: No

LastSubmittedTime
The date and time when the RFC was last submitted.
Type: String
Required: No

RequestedExecutionTimeRange
The starting and ending dates and times during which the change should be executed. Null if the RFC was ASAP.
Type: TimeRange (p. 99) object
Required: No

RfcId
The unique ID (UUID) of the RFC.
Type: String
Required: No

Status
The status of the RFC. Possible values: Editing | PendingApproval | Scheduled | Canceled | Rejected | InProgress | Success | Failure
Type: RfcStatus (p. 95) object
Required: No

Title
The identifying title of the RFC.
Type: String
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TimeRange

A starting and ending date and time.

Contents

EndTime

The ending date and time, expressed in ISO 8601 format. By default, AWS MS uses the basic format (YYYYMMDDThhmmssZ)

Type: String

Required: No

StartTime

The starting date and time, expressed in ISO 8601 format. By default, AWS MS uses the basic format (YYYYMMDDThhmmssZ)

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
UserType

The type of owner of the correspondence, either customer or AWS operator.

Contents

Id

The ID of the user type. Possible values: Customer | AwsOperator.

Type: String
Required: No

Name

The description of the user type.

Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format ("YYYYMMDD'T'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
When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

**Type:** string

**Required:** Conditional

**X-Amz-Security-Token**

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

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

**Type:** string

**Required:** Conditional

**X-Amz-Signature**

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

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

**Type:** string

**Required:** Conditional

**X-Amz-SignedHeaders**

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

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

**Type:** string

**Required:** Conditional
Common Errors

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

**AccessDeniedException**
You do not have sufficient access to perform this action.
HTTP Status Code: 400

**IncompleteSignature**
The request signature does not conform to AWS standards.
HTTP Status Code: 400

**InternalFailure**
The request processing has failed because of an unknown error, exception or failure.
HTTP Status Code: 500

**InvalidAction**
The action or operation requested is invalid. Verify that the action is typed correctly.
HTTP Status Code: 400

**InvalidClientTokenId**
The X.509 certificate or AWS access key ID provided does not exist in our records.
HTTP Status Code: 403

**InvalidParameterCombination**
Parameters that must not be used together were used together.
HTTP Status Code: 400

**InvalidParameterValue**
An invalid or out-of-range value was supplied for the input parameter.
HTTP Status Code: 400

**InvalidQueryParameter**
The AWS query string is malformed or does not adhere to AWS standards.
HTTP Status Code: 400

**MalformedQueryString**
The query string contains a syntax error.
HTTP Status Code: 404

**MissingAction**
The request is missing an action or a required parameter.
HTTP Status Code: 400
MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400