



API Reference

AWS IoT TwinMaker



API Version 2021-11-29

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AWS IoT TwinMaker: API Reference

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Table of Contents

Welcome	1
Actions	2
BatchPutPropertyValues	4
Request Syntax	4
URI Request Parameters	5
Request Body	5
Response Syntax	5
Response Elements	7
Errors	7
See Also	8
CancelMetadataTransferJob	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	9
Response Elements	10
Errors	11
See Also	12
CreateComponentType	13
Request Syntax	13
URI Request Parameters	15
Request Body	15
Response Syntax	18
Response Elements	18
Errors	19
See Also	20
CreateEntity	21
Request Syntax	21
URI Request Parameters	25
Request Body	26
Response Syntax	28
Response Elements	28
Errors	29
See Also	30

CreateMetadataTransferJob	31
Request Syntax	31
URI Request Parameters	32
Request Body	32
Response Syntax	33
Response Elements	33
Errors	34
See Also	35
CreateScene	36
Request Syntax	36
URI Request Parameters	36
Request Body	36
Response Syntax	38
Response Elements	39
Errors	39
See Also	40
CreateSyncJob	42
Request Syntax	42
URI Request Parameters	42
Request Body	43
Response Syntax	43
Response Elements	44
Errors	44
See Also	45
CreateWorkspace	47
Request Syntax	47
URI Request Parameters	47
Request Body	47
Response Syntax	49
Response Elements	49
Errors	49
See Also	50
DeleteComponentType	52
Request Syntax	52
URI Request Parameters	52
Request Body	52

Response Syntax	52
Response Elements	53
Errors	53
See Also	54
DeleteEntity	55
Request Syntax	55
URI Request Parameters	55
Request Body	55
Response Syntax	56
Response Elements	56
Errors	56
See Also	57
DeleteScene	58
Request Syntax	58
URI Request Parameters	58
Request Body	58
Response Syntax	58
Response Elements	59
Errors	59
See Also	59
DeleteSyncJob	61
Request Syntax	61
URI Request Parameters	61
Request Body	61
Response Syntax	61
Response Elements	62
Errors	62
See Also	63
DeleteWorkspace	64
Request Syntax	64
URI Request Parameters	64
Request Body	64
Response Syntax	64
Response Elements	64
Errors	65
See Also	66

ExecuteQuery	67
Request Syntax	67
URI Request Parameters	67
Request Body	67
Response Syntax	68
Response Elements	69
Errors	69
See Also	70
GetComponentType	72
Request Syntax	72
URI Request Parameters	72
Request Body	72
Response Syntax	72
Response Elements	75
Errors	78
See Also	79
GetEntity	81
Request Syntax	81
URI Request Parameters	81
Request Body	81
Response Syntax	81
Response Elements	85
Errors	88
See Also	88
GetMetadataTransferJob	90
Request Syntax	90
URI Request Parameters	90
Request Body	90
Response Syntax	90
Response Elements	92
Errors	94
See Also	94
GetPricingPlan	96
Request Syntax	96
URI Request Parameters	96
Request Body	96

Response Syntax	96
Response Elements	97
Errors	97
See Also	98
GetPropertyValue	99
Request Syntax	99
URI Request Parameters	100
Request Body	100
Response Syntax	103
Response Elements	104
Errors	105
See Also	106
GetPropertyValueHistory	107
Request Syntax	107
URI Request Parameters	108
Request Body	108
Response Syntax	112
Response Elements	113
Errors	113
See Also	114
GetScene	116
Request Syntax	116
URI Request Parameters	116
Request Body	116
Response Syntax	116
Response Elements	117
Errors	120
See Also	120
GetSyncJob	122
Request Syntax	122
URI Request Parameters	122
Request Body	122
Response Syntax	122
Response Elements	123
Errors	124
See Also	125

GetWorkspace	127
Request Syntax	127
URI Request Parameters	127
Request Body	127
Response Syntax	127
Response Elements	128
Errors	129
See Also	130
ListComponents	131
Request Syntax	131
URI Request Parameters	131
Request Body	131
Response Syntax	132
Response Elements	133
Errors	134
See Also	134
ListComponentTypes	136
Request Syntax	136
URI Request Parameters	136
Request Body	136
Response Syntax	137
Response Elements	138
Errors	139
See Also	139
ListEntities	141
Request Syntax	141
URI Request Parameters	141
Request Body	141
Response Syntax	142
Response Elements	143
Errors	143
See Also	144
ListMetadataTransferJobs	145
Request Syntax	145
URI Request Parameters	145
Request Body	145

Response Syntax	146
Response Elements	147
Errors	148
See Also	148
ListProperties	150
Request Syntax	150
URI Request Parameters	150
Request Body	150
Response Syntax	152
Response Elements	154
Errors	154
See Also	155
ListScenes	156
Request Syntax	156
URI Request Parameters	156
Request Body	156
Response Syntax	157
Response Elements	157
Errors	158
See Also	158
ListSyncJobs	160
Request Syntax	160
URI Request Parameters	160
Request Body	160
Response Syntax	161
Response Elements	161
Errors	162
See Also	163
ListSyncResources	164
Request Syntax	164
URI Request Parameters	164
Request Body	165
Response Syntax	166
Response Elements	166
Errors	167
See Also	167

ListTagsForResource	169
Request Syntax	169
URI Request Parameters	169
Request Body	169
Response Syntax	170
Response Elements	170
Errors	171
See Also	171
ListWorkspaces	173
Request Syntax	173
URI Request Parameters	173
Request Body	173
Response Syntax	174
Response Elements	174
Errors	175
See Also	175
TagResource	177
Request Syntax	177
URI Request Parameters	177
Request Body	177
Response Syntax	178
Response Elements	178
Errors	178
See Also	179
UntagResource	180
Request Syntax	180
URI Request Parameters	180
Request Body	180
Response Syntax	181
Response Elements	181
Errors	181
See Also	181
UpdateComponentType	183
Request Syntax	183
URI Request Parameters	185
Request Body	185

Response Syntax	188
Response Elements	188
Errors	189
See Also	190
UpdateEntity	191
Request Syntax	191
URI Request Parameters	195
Request Body	196
Response Syntax	197
Response Elements	197
Errors	198
See Also	199
UpdatePricingPlan	200
Request Syntax	200
URI Request Parameters	200
Request Body	200
Response Syntax	201
Response Elements	201
Errors	202
See Also	202
UpdateScene	204
Request Syntax	204
URI Request Parameters	204
Request Body	205
Response Syntax	206
Response Elements	206
Errors	206
See Also	207
UpdateWorkspace	209
Request Syntax	209
URI Request Parameters	209
Request Body	209
Response Syntax	210
Response Elements	210
Errors	211
See Also	212

Data Types	213
BatchPutPropertyError	216
Contents	216
See Also	216
BatchPutPropertyErrorEntry	218
Contents	218
See Also	218
BundleInformation	219
Contents	219
See Also	219
ColumnDescription	220
Contents	220
See Also	220
ComponentPropertyGroupRequest	221
Contents	221
See Also	221
ComponentPropertyGroupResponse	223
Contents	223
See Also	223
ComponentRequest	225
Contents	225
See Also	226
ComponentResponse	227
Contents	227
See Also	229
ComponentSummary	230
Contents	230
See Also	232
ComponentTypeSummary	233
Contents	233
See Also	234
ComponentUpdateRequest	235
Contents	235
See Also	236
CompositeComponentRequest	237
Contents	237

See Also	238
CompositeComponentTypeRequest	239
Contents	239
See Also	239
CompositeComponentTypeResponse	240
Contents	240
See Also	240
CompositeComponentUpdateRequest	241
Contents	241
See Also	242
DataConnector	243
Contents	243
See Also	243
DataType	244
Contents	244
See Also	245
DataValue	246
Contents	246
See Also	248
DestinationConfiguration	249
Contents	249
See Also	249
EntityPropertyReference	250
Contents	250
See Also	251
EntitySummary	252
Contents	252
See Also	254
ErrorDetails	255
Contents	255
See Also	255
FilterByAsset	256
Contents	256
See Also	257
FilterByAssetModel	258
Contents	258

See Also	259
FilterByComponentType	260
Contents	260
See Also	260
FilterByEntity	261
Contents	261
See Also	261
FunctionRequest	262
Contents	262
See Also	262
FunctionResponse	264
Contents	264
See Also	265
InterpolationParameters	266
Contents	266
See Also	266
lotSiteWiseSourceConfiguration	267
Contents	267
See Also	267
lotSiteWiseSourceConfigurationFilter	268
Contents	268
See Also	268
lotTwinMakerDestinationConfiguration	269
Contents	269
See Also	269
lotTwinMakerSourceConfiguration	270
Contents	270
See Also	270
lotTwinMakerSourceConfigurationFilter	271
Contents	271
See Also	271
LambdaFunction	272
Contents	272
See Also	272
ListComponentTypesFilter	273
Contents	273

See Also	274
ListEntitiesFilter	275
Contents	275
See Also	276
ListMetadataTransferJobsFilter	277
Contents	277
See Also	277
MetadataTransferJobProgress	279
Contents	279
See Also	279
MetadataTransferJobStatus	281
Contents	281
See Also	281
MetadataTransferJobSummary	283
Contents	283
See Also	284
OrderBy	285
Contents	285
See Also	285
ParentEntityUpdateRequest	286
Contents	286
See Also	286
PricingPlan	287
Contents	287
See Also	288
PropertyDefinitionRequest	289
Contents	289
See Also	290
PropertyDefinitionResponse	292
Contents	292
See Also	294
PropertyFilter	295
Contents	295
See Also	295
PropertyGroupRequest	297
Contents	297

See Also	297
PropertyGroupResponse	298
Contents	298
See Also	298
PropertyLatestValue	300
Contents	300
See Also	300
PropertyRequest	301
Contents	301
See Also	301
PropertyResponse	302
Contents	302
See Also	302
PropertySummary	303
Contents	303
See Also	304
PropertyValue	305
Contents	305
See Also	306
PropertyValueEntry	307
Contents	307
See Also	307
PropertyValueHistory	308
Contents	308
See Also	308
Relationship	309
Contents	309
See Also	309
RelationshipValue	310
Contents	310
See Also	310
Row	311
Contents	311
See Also	311
S3DestinationConfiguration	312
Contents	312

See Also	312
S3SourceConfiguration	313
Contents	313
See Also	313
SceneError	314
Contents	314
See Also	314
SceneSummary	315
Contents	315
See Also	316
SourceConfiguration	317
Contents	317
See Also	317
Status	319
Contents	319
See Also	319
SyncJobStatus	320
Contents	320
See Also	320
SyncJobSummary	321
Contents	321
See Also	322
SyncResourceFilter	323
Contents	323
See Also	324
SyncResourceStatus	325
Contents	325
See Also	325
SyncResourceSummary	326
Contents	326
See Also	327
TabularConditions	328
Contents	328
See Also	328
WorkspaceSummary	329
Contents	329

See Also	330
Common Parameters	331
Common Error Types	334

Welcome

AWS IoT TwinMaker is a service with which you can build operational digital twins of physical systems. AWS IoT TwinMaker overlays measurements and analysis from real-world sensors, cameras, and enterprise applications so you can create data visualizations to monitor your physical factory, building, or industrial plant. You can use this real-world data to monitor operations and diagnose and repair errors.

This document was last published on April 21, 2026.

Actions

The following actions are supported:

- [BatchPutPropertyValues](#)
- [CancelMetadataTransferJob](#)
- [CreateComponentType](#)
- [CreateEntity](#)
- [CreateMetadataTransferJob](#)
- [CreateScene](#)
- [CreateSyncJob](#)
- [CreateWorkspace](#)
- [DeleteComponentType](#)
- [DeleteEntity](#)
- [DeleteScene](#)
- [DeleteSyncJob](#)
- [DeleteWorkspace](#)
- [ExecuteQuery](#)
- [GetComponentType](#)
- [GetEntity](#)
- [GetMetadataTransferJob](#)
- [GetPricingPlan](#)
- [GetPropertyValue](#)
- [GetPropertyValueHistory](#)
- [GetScene](#)
- [GetSyncJob](#)
- [GetWorkspace](#)
- [ListComponents](#)
- [ListComponentTypes](#)
- [ListEntities](#)
- [ListMetadataTransferJobs](#)

- [ListProperties](#)
- [ListScenes](#)
- [ListSyncJobs](#)
- [ListSyncResources](#)
- [ListTagsForResource](#)
- [ListWorkspaces](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateComponentType](#)
- [UpdateEntity](#)
- [UpdatePricingPlan](#)
- [UpdateScene](#)
- [UpdateWorkspace](#)

BatchPutPropertyValues

Sets values for multiple time series properties.

Request Syntax

```
POST /workspaces/workspaceId/entity-properties HTTP/1.1
Content-type: application/json
```

```
{
  "entries": [
    {
      "entityPropertyReference": {
        "componentName": "string",
        "componentPath": "string",
        "entityId": "string",
        "externalIdProperty": {
          "string": "string"
        },
        "propertyName": "string"
      },
      "propertyValues": [
        {
          "time": "string",
          "timestamp": number,
          "value": {
            "booleanValue": boolean,
            "doubleValue": number,
            "expression": "string",
            "integerValue": number,
            "listValue": [
              "DataValue"
            ],
            "longValue": number,
            "mapValue": {
              "string": "DataValue"
            },
            "relationshipValue": {
              "targetComponentName": "string",
              "targetEntityId": "string"
            },
            "stringValue": "string"
          }
        }
      ]
    }
  ]
}
```

```
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the properties to set.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

entries

An object that maps strings to the property value entries to set. Each string in the mapping must be unique to this object.

Type: Array of [PropertyValueEntry](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

Response Syntax

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

{
  "errorEntries": [
```

```

{
  "errors": [
    {
      "entry": {
        "entityPropertyReference": {
          "componentName": "string",
          "componentPath": "string",
          "entityId": "string",
          "externalIdProperty": {
            "string": "string"
          },
          "propertyName": "string"
        },
        "propertyValues": [
          {
            "time": "string",
            "timestamp": number,
            "value": {
              "booleanValue": boolean,
              "doubleValue": number,
              "expression": "string",
              "integerValue": number,
              "listValue": [
                "DataValue"
              ],
              "longValue": number,
              "mapValue": {
                "string": "DataValue"
              },
              "relationshipValue": {
                "targetComponentName": "string",
                "targetEntityId": "string"
              },
              "stringValue": "string"
            }
          }
        ],
        "errorCode": "string",
        "errorMessage": "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.

[errorEntries](#)

Entries that caused errors in the batch put operation.

Type: Array of [BatchPutPropertyErrorEntry](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Errors

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

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

CancelMetadataTransferJob

Cancels the metadata transfer job.

Request Syntax

```
PUT /metadata-transfer-jobs/metadataTransferJobId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metadataTransferJobId

The metadata transfer job Id.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "metadataTransferJobId": "string",
  "progress": {
    "failedCount": number,
    "skippedCount": number,
    "succeededCount": number,
    "totalCount": number
  },
}
```

```
"status": {
  "error": {
    "code": "string",
    "message": "string"
  },
  "queuedPosition": number,
  "state": "string"
},
"updateDateTime": number
}
```

Response Elements

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

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

[arn](#)

The metadata transfer job ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

[metadataTransferJobId](#)

The metadata transfer job Id.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

[progress](#)

The metadata transfer job's progress.

Type: [MetadataTransferJobProgress](#) object

status

The metadata transfer job's status.

Type: [MetadataTransferJobStatus](#) object

updateDateTime

Used to update the DateTime property.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

HTTP Status Code: 400

See Also

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

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

CreateComponentType

Creates a component type.

Request Syntax

POST /workspaces/*workspaceId*/component-types/*componentTypeId* HTTP/1.1

Content-type: application/json

```
{
  "componentTypeName": "string",
  "compositeComponentTypes": {
    "string" : {
      "componentTypeId": "string"
    }
  },
  "description": "string",
  "extendsFrom": [ "string" ],
  "functions": {
    "string" : {
      "implementedBy": {
        "isNative": boolean,
        "lambda": {
          "arn": "string"
        }
      },
      "requiredProperties": [ "string" ],
      "scope": "string"
    }
  },
  "isSingleton": boolean,
  "propertyDefinitions": {
    "string" : {
      "configuration": {
        "string" : "string"
      },
      "dataType": {
        "allowedValues": [
          {
            "booleanValue": boolean,
            "doubleValue": number,
            "expression": "string",
            "integerValue": number,
```

```
    "listValue": [
      "DataValue"
    ],
    "longValue": number,
    "mapValue": {
      "string" : "DataValue"
    },
    "relationshipValue": {
      "targetComponentName": "string",
      "targetEntityId": "string"
    },
    "stringValue": "string"
  }
],
"nestedType": "DataType",
"relationship": {
  "relationshipType": "string",
  "targetComponentTypeId": "string"
},
"unitOfMeasure": "string"
},
"defaultValue": {
  "booleanValue": boolean,
  "doubleValue": number,
  "expression": "string",
  "integerValue": number,
  "listValue": [
    "DataValue"
  ],
  "longValue": number,
  "mapValue": {
    "string" : "DataValue"
  },
  "relationshipValue": {
    "targetComponentName": "string",
    "targetEntityId": "string"
  },
  "stringValue": "string"
},
"displayName": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
```

```
    "isTimeSeries": boolean
  }
},
"propertyGroups": {
  "string" : {
    "groupType": "string",
    "propertyNames": [ "string" ]
  }
},
"tags": {
  "string" : "string"
}
}
```

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentTypeName

A friendly name for the component type.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

compositeComponentTypes

This is an object that maps strings to `compositeComponentTypes` of the `componentType`. `CompositeComponentType` is referenced by `componentTypeId`.

Type: String to [CompositeComponentTypeRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

extendsFrom

Specifies the parent component type to extend.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

functions

An object that maps strings to the functions in the component type. Each string in the mapping must be unique to this object.

Type: String to [FunctionRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

isSingleton

A Boolean value that specifies whether an entity can have more than one component of this type.

Type: Boolean

Required: No

propertyDefinitions

An object that maps strings to the property definitions in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyDefinitionRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

propertyGroups

Type: String to [PropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

tags

Metadata that you can use to manage the component type.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`)

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `.*`

Required: No

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
  "state": "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.

arn

The ARN of the component type.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The date and time when the entity was created.

Type: Timestamp

state

The current state of the component type.

Type: String

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
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CreateEntity

Creates an entity.

Request Syntax

POST /workspaces/*workspaceId*/entities HTTP/1.1

Content-type: application/json

```
{
  "components": {
    "string": {
      "componentTypeId": "string",
      "description": "string",
      "properties": {
        "string": {
          "definition": {
            "configuration": {
              "string": "string"
            },
            "dataType": {
              "allowedValues": [
                {
                  "booleanValue": boolean,
                  "doubleValue": number,
                  "expression": "string",
                  "integerValue": number,
                  "listValue": [
                    "DataValue"
                  ],
                  "longValue": number,
                  "mapValue": {
                    "string": "DataValue"
                  },
                  "relationshipValue": {
                    "targetComponentName": "string",
                    "targetEntityId": "string"
                  },
                  "stringValue": "string"
                }
              ],
              "nestedType": "DataType",
              "relationship": {
```

```
        "relationshipType": "string",
        "targetComponentTypeId": "string"
    },
    "type": "string",
    "unitOfMeasure": "string"
},
"defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string" : "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
},
"displayname": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
"isTimeSeries": boolean
},
"updateType": "string",
"value": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string" : "DataValue"
    },
    "relationshipValue": {
```



```
    }
  ],
  "nestedType": "DataType",
  "relationship": {
    "relationshipType": "string",
    "targetComponentTypeId": "string"
  },
  "type": "string",
  "unitOfMeasure": "string"
},
"defaultValue": {
  "booleanValue": boolean,
  "doubleValue": number,
  "expression": "string",
  "integerValue": number,
  "listValue": [
    "DataValue"
  ],
  "longValue": number,
  "mapValue": {
    "string" : "DataValue"
  },
  "relationshipValue": {
    "targetComponentName": "string",
    "targetEntityId": "string"
  },
  "stringValue": "string"
},
"displayName": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
"isTimeSeries": boolean
},
"updateType": "string",
"value": {
  "booleanValue": boolean,
  "doubleValue": number,
  "expression": "string",
  "integerValue": number,
  "listValue": [
    "DataValue"
  ],
  "longValue": number,
```

```

        "mapValue": {
            "string": "DataValue"
        },
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
}
},
"propertyGroups": {
    "string": {
        "groupType": "string",
        "propertyNames": [ "string" ],
        "updateType": "string"
    }
}
}
},
"description": "string",
"entityId": "string",
"entityName": "string",
"parentEntityId": "string",
"tags": {
    "string": "string"
}
}
}

```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the entity.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

components

An object that maps strings to the components in the entity. Each string in the mapping must be unique to this object.

Type: String to [ComponentRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

compositeComponents

This is an object that maps strings to `compositeComponent` updates in the request. Each key of the map represents the `componentPath` of the `compositeComponent`.

Type: String to [CompositeComponentRequest](#) object map

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

Key Pattern: `[a-zA-Z_\-0-9/]+`

Required: No

description

The description of the entity.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

entityName

The name of the entity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[^\u0000-\u001F\u007F]+`

Required: Yes

parentEntityId

The ID of the entity's parent entity.

Type: String

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

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

tags

Metadata that you can use to manage the entity.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/+\\-@]*)`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: . *

Required: No

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
  "entityId": "string",
  "state": "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.

arn

The ARN of the entity.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The date and time when the entity was created.

Type: Timestamp

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

state

The current state of the entity.

Type: String

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
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CreateMetadataTransferJob

Creates a new metadata transfer job.

Request Syntax

```
POST /metadata-transfer-jobs HTTP/1.1
```

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

```
{
  "description": "string",
  "destination": {
    "iotTwinMakerConfiguration": {
      "workspace": "string"
    },
    "s3Configuration": {
      "location": "string"
    },
    "type": "string"
  },
  "metadataTransferJobId": "string",
  "sources": [
    {
      "iotSiteWiseConfiguration": {
        "filters": [
          { ... }
        ]
      },
      "iotTwinMakerConfiguration": {
        "filters": [
          { ... }
        ],
        "workspace": "string"
      },
      "s3Configuration": {
        "location": "string"
      },
      "type": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The metadata transfer job description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: . *

Required: No

destination

The metadata transfer job destination.

Type: [DestinationConfiguration](#) object

Required: Yes

metadataTransferJobId

The metadata transfer job Id.

Type: String

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: No

sources

The metadata transfer job sources.

Type: Array of [SourceConfiguration](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
  "metadataTransferJobId": "string",
  "status": {
    "error": {
      "code": "string",
      "message": "string"
    },
    "queuedPosition": number,
    "state": "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.

arn

The metadata transfer job ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.:]`

creationDateTime

The The metadata transfer job creation DateTime property.

Type: Timestamp

metadataTransferJobId

The metadata transfer job Id.

Type: String

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

status

The metadata transfer job response status.

Type: [MetadataTransferJobStatus](#) object

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

CreateScene

Creates a scene.

Request Syntax

```
POST /workspaces/workspaceId/scenes HTTP/1.1
```

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

```
{
  "capabilities": [ "string" ],
  "contentLocation": "string",
  "description": "string",
  "sceneId": "string",
  "sceneMetadata": {
    "string" : "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the scene.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

capabilities

A list of capabilities that the scene uses to render itself.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Pattern: .*

Required: No

contentLocation

The relative path that specifies the location of the content definition file.

Type: String

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

Pattern: [sS]3://[A-Za-z0-9._/-]+

Required: Yes

description

The description for this scene.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

sceneId

The ID of the scene.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

sceneMetadata

The request metadata.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `.*`

Required: No

tags

Metadata that you can use to manage the scene.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_ . : / = + \ - @]*)`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `.*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "arn": "string",
  "creationDateTime": number
}
```

Response Elements

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

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

arn

The ARN of the scene.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The date and time when the scene was created.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
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- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateSyncJob

This action creates a SyncJob.

Request Syntax

```
POST /workspaces/workspaceId/sync-jobs/syncSource HTTP/1.1
Content-type: application/json
```

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

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

Note

Currently the only supported syncSource is SITEWISE .

Pattern: [a-zA-Z_0-9]+

Required: Yes

workspaceId

The workspace ID.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

syncRole

The SyncJob IAM role. This IAM role is used by the SyncJob to read from the syncSource, and create, update, or delete the corresponding resources.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iam:[0-9]{12}:role/.*`

Required: Yes

tags

The SyncJob tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `.*`

Required: No

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
```

```
"state": "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.

arn

The SyncJob ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\w/a-zA-Z0-9_-\.\:]+`

creationDateTime

The date and time for the SyncJob creation.

Type: Timestamp

state

The SyncJob response state.

Type: String

Valid Values: CREATING | INITIALIZING | ACTIVE | DELETING | ERROR

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

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

CreateWorkspace

Creates a workplace.

Request Syntax

```
POST /workspaces/workspaceId HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "role": "string",
  "s3Location": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

role

The ARN of the execution role associated with the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:((aws)|(aws-cn)|(aws-us-gov)):iam:[0-9]{12}:role/*

Required: No

s3Location

The ARN of the Amazon Simple Storage Service bucket where resources associated with the workspace are stored.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([a-zA-Z0-9_-]+\$).*

Required: No

tags

Metadata that you can use to manage the workspace

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: ([\p{L}\p{Z}\p{N}_.:/+\\-@]*)

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: . *

Required: No

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number
}
```

Response Elements

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

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

arn

The ARN of the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteComponentType

Deletes a component type.

Request Syntax

```
DELETE /workspaces/workspaceId/component-types/componentTypeId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type to delete.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{  
  "state": "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.

state

The current state of the component type to be deleted.

Type: String

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
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- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteEntity

Deletes an entity.

Request Syntax

```
DELETE /workspaces/workspaceId/entities/entityId?isRecursive=isRecursive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity to delete.

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.]*[a-zA-Z0-9]+`

Required: Yes

isRecursive

A Boolean value that specifies whether the operation deletes child entities.

workspaceId

The ID of the workspace that contains the entity to delete.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "state": "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.

state

The current state of the deleted entity.

Type: String

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

Errors

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

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

DeleteScene

Deletes a scene.

Request Syntax

```
DELETE /workspaces/workspaceId/scenes/sceneId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene to delete.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)

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

DeleteSyncJob

Delete the SyncJob.

Request Syntax

```
DELETE /workspaces/workspaceId/sync-jobs/syncSource HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

Note

Currently the only supported syncSource is SITEWISE .

Pattern: [a-zA-Z_0-9]+

Required: Yes

workspaceId

The workspace ID.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "state": "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.

state

The SyncJob response state.

Type: String

Valid Values: CREATING | INITIALIZING | ACTIVE | DELETING | ERROR

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

DeleteWorkspace

Deletes a workspace.

Request Syntax

```
DELETE /workspaces/workspaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[workspaceId](#)

The ID of the workspace to delete.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "message": "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.

message

The string that specifies the delete result for the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

ExecuteQuery

Run queries to access information from your knowledge graph of entities within individual workspaces.

Note

The ExecuteQuery action only works with [AWS Java SDK2](#). ExecuteQuery will not work with any AWS Java SDK version < 2.x.

Request Syntax

```
POST /queries/execution HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string",
  "queryStatement": "string",
  "workspaceId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return at one time. The default is 50.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

queryStatement

The query statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: [\\s\\S]+

Required: Yes

workspaceId

The ID of the workspace.

Type: String

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\\-0-9]*[a-zA-Z0-9]+

Required: Yes

Response Syntax

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

{
  "columnDescriptions": [
    {
```

```
    "name": "string",
    "type": "string"
  }
],
"nextToken": "string",
"rows": [
  {
    "rowData": [ JSON value ]
  }
]
```

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.

columnDescriptions

A list of ColumnDescription objects.

Type: Array of [ColumnDescription](#) objects

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: . *

rows

Represents a single row in the query results.

Type: Array of [Row](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

QueryTimeoutException

The query timeout exception.

HTTP Status Code: 400

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetComponentType

Retrieves information about a component type.

Request Syntax

```
GET /workspaces/workspaceId/component-types/componentTypeId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
```

```

"componentTypeId": "string",
"componentTypeName": "string",
"compositeComponentTypes": {
  "string" : {
    "componentTypeId": "string",
    "isInherited": boolean
  }
},
"creationDateTime": number,
"description": "string",
"extendsFrom": [ "string" ],
"functions": {
  "string" : {
    "implementedBy": {
      "isNative": boolean,
      "lambda": {
        "arn": "string"
      }
    },
    "isInherited": boolean,
    "requiredProperties": [ "string" ],
    "scope": "string"
  }
},
"isAbstract": boolean,
"isSchemaInitialized": boolean,
"isSingleton": boolean,
"propertyDefinitions": {
  "string" : {
    "configuration": {
      "string" : "string"
    },
    "dataType": {
      "allowedValues": [
        {
          "booleanValue": boolean,
          "doubleValue": number,
          "expression": "string",
          "integerValue": number,
          "listValue": [
            "DataValue"
          ],
          "longValue": number,
          "mapValue": {

```

```

        "string" : "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
}
],
"nestedType": "DataType",
"relationship": {
    "relationshipType": "string",
    "targetComponentTypeId": "string"
},
"type": "string",
"unitOfMeasure": "string"
},
"defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string" : "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
},
"displayname": "string",
"isExternalId": boolean,
"isFinal": boolean,
"isImported": boolean,
"isInherited": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
"isTimeSeries": boolean
}

```

```
},
  "propertyGroups": {
    "string": {
      "groupType": "string",
      "isInherited": boolean,
      "propertyNames": [ "string" ]
    }
  },
  "status": {
    "error": {
      "code": "string",
      "message": "string"
    },
    "state": "string"
  },
  "syncSource": "string",
  "updateDateTime": number,
  "workspaceId": "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.

arn

The ARN of the component type.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\w/a-zA-Z0-9_-\.\:]+`

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

componentTypeName

The component type name.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

compositeComponentTypes

This is an object that maps strings to `compositeComponentTypes` of the `componentType`. `CompositeComponentType` is referenced by `componentTypeId`.

Type: String to [CompositeComponentTypeResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\.\-0-9]+`

creationDateTime

The date and time when the component type was created.

Type: Timestamp

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

extendsFrom

The name of the parent component type that this component type extends.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

functions

An object that maps strings to the functions in the component type. Each string in the mapping must be unique to this object.

Type: String to [FunctionResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

isAbstract

A Boolean value that specifies whether the component type is abstract.

Type: Boolean

isSchemaInitialized

A Boolean value that specifies whether the component type has a schema initializer and that the schema initializer has run.

Type: Boolean

isSingleton

A Boolean value that specifies whether an entity can have more than one component of this type.

Type: Boolean

propertyDefinitions

An object that maps strings to the property definitions in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyDefinitionResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

propertyGroups

The maximum number of results to return at one time. The default is 25.

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

Type: String to [PropertyGroupResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

[status](#)

The current status of the component type.

Type: [Status](#) object

[syncSource](#)

The syncSource of the SyncJob, if this entity was created by a SyncJob.

Type: String

Pattern: `[a-zA-Z_0-9]+`

[updateDateTime](#)

The date and time when the component was last updated.

Type: Timestamp

[workspaceId](#)

The ID of the workspace that contains the component type.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

GetEntity

Retrieves information about an entity.

Request Syntax

```
GET /workspaces/workspaceId/entities/entityId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity.

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```

"areAllComponentsReturned": boolean,
"arn": "string",
"components": {
  "string" : {
    "areAllCompositeComponentsReturned": boolean,
    "areAllPropertiesReturned": boolean,
    "componentName": "string",
    "componentTypeId": "string",
    "compositeComponents": {
      "string" : {
        "componentName": "string",
        "componentPath": "string",
        "componentTypeId": "string",
        "definedIn": "string",
        "description": "string",
        "propertyGroups": {
          "string" : {
            "groupType": "string",
            "isInherited": boolean,
            "propertyNames": [ "string" ]
          }
        },
        "status": {
          "error": {
            "code": "string",
            "message": "string"
          },
          "state": "string"
        },
        "syncSource": "string"
      }
    },
    "definedIn": "string",
    "description": "string",
    "properties": {
      "string" : {
        "areAllPropertyValuesReturned": boolean,
        "definition": {
          "configuration": {
            "string" : "string"
          },
          "dataType": {
            "allowedValues": [
              {

```

```

        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
            "DataValue"
        ],
        "longValue": number,
        "mapValue": {
            "string" : "DataValue"
        },
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
],
"nestedType": "DataType",
"relationship": {
    "relationshipType": "string",
    "targetComponentTypeId": "string"
},
"type": "string",
"unitOfMeasure": "string"
},
"defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string" : "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
},
},

```

```

        "displayName": "string",
        "isExternalId": boolean,
        "isFinal": boolean,
        "isImported": boolean,
        "isInherited": boolean,
        "isRequiredInEntity": boolean,
        "isStoredExternally": boolean,
        "isTimeSeries": boolean
    },
    "value": {
        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
            "DataValue"
        ],
        "longValue": number,
        "mapValue": {
            "string" : "DataValue"
        },
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
}
},
"propertyGroups": {
    "string" : {
        "groupType": "string",
        "isInherited": boolean,
        "propertyNames": [ "string" ]
    }
},
"status": {
    "error": {
        "code": "string",
        "message": "string"
    },
    "state": "string"
},
"syncSource": "string"

```

```
    }
  },
  "creationDateTime": number,
  "description": "string",
  "entityId": "string",
  "entityName": "string",
  "hasChildEntities": boolean,
  "parentEntityId": "string",
  "status": {
    "error": {
      "code": "string",
      "message": "string"
    },
    "state": "string"
  },
  "syncSource": "string",
  "updateDateTime": number,
  "workspaceId": "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.

areAllComponentsReturned

This flag notes whether all components are returned in the API response. The maximum number of components returned is 30.

Type: Boolean

arn

The ARN of the entity.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

components

An object that maps strings to the components in the entity. Each string in the mapping must be unique to this object.

Type: String to [ComponentResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

creationDateTime

The date and time when the entity was created.

Type: Timestamp

description

The description of the entity.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

entityName

The name of the entity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[^\u0000-\u001F\u007F]+`

hasChildEntities

A Boolean value that specifies whether the entity has associated child entities.

Type: Boolean

parentEntityId

The ID of the parent entity for this entity.

Type: String

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

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.]*[a-zA-Z0-9]+`

status

The current status of the entity.

Type: [Status](#) object

syncSource

The syncSource of the sync job, if this entity was created by a sync job.

Type: String

Pattern: `[a-zA-Z_0-9]+`

updateDateTime

The date and time when the entity was last updated.

Type: Timestamp

workspaceId

The ID of the workspace.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

GetMetadataTransferJob

Retrieves information about a metadata transfer job.

Request Syntax

```
GET /metadata-transfer-jobs/metadataTransferJobId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metadataTransferJobId

The metadata transfer job Id.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
  "description": "string",
  "destination": {
    "iotTwinMakerConfiguration": {
      "workspace": "string"
    },
    "s3Configuration": {
      "location": "string"
    }
  },
}
```

```
    "type": "string"
  },
  "metadataTransferJobId": "string",
  "metadataTransferJobRole": "string",
  "progress": {
    "failedCount": number,
    "skippedCount": number,
    "succeededCount": number,
    "totalCount": number
  },
  "reportUrl": "string",
  "sources": [
    {
      "iotSiteWiseConfiguration": {
        "filters": [
          { ... }
        ]
      },
      "iotTwinMakerConfiguration": {
        "filters": [
          { ... }
        ],
        "workspace": "string"
      },
      "s3Configuration": {
        "location": "string"
      },
      "type": "string"
    }
  ],
  "status": {
    "error": {
      "code": "string",
      "message": "string"
    },
    "queuedPosition": number,
    "state": "string"
  },
  "updateDateTime": number
}
```

Response Elements

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

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

arn

The metadata transfer job ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The metadata transfer job's creation DateTime property.

Type: Timestamp

description

The metadata transfer job description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

destination

The metadata transfer job's destination.

Type: [DestinationConfiguration](#) object

metadataTransferJobId

The metadata transfer job Id.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

metadataTransferJobRole

The metadata transfer job's role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iam::[0-9]{12}:role/.*`

progress

The metadata transfer job's progress.

Type: [MetadataTransferJobProgress](#) object

reportUrl

The metadata transfer job's report URL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

sources

The metadata transfer job's sources.

Type: Array of [SourceConfiguration](#) objects

Array Members: Fixed number of 1 item.

status

The metadata transfer job's status.

Type: [MetadataTransferJobStatus](#) object

updateDateTime

The metadata transfer job's update DateTime property.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

GetPricingPlan

Gets the pricing plan.

Request Syntax

```
GET /pricingplan HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "currentPricingPlan": {
    "billableEntityCount": number,
    "bundleInformation": {
      "bundleNames": [ "string" ],
      "pricingTier": "string"
    },
    "effectiveDateTime": number,
    "pricingMode": "string",
    "updateDateTime": number,
    "updateReason": "string"
  },
  "pendingPricingPlan": {
    "billableEntityCount": number,
    "bundleInformation": {
      "bundleNames": [ "string" ],
      "pricingTier": "string"
    },
    "effectiveDateTime": number,
    "pricingMode": "string",
```

```
    "updateDateTime": number,  
    "updateReason": "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.

currentPricingPlan

The chosen pricing plan for the current billing cycle.

Type: [PricingPlan](#) object

pendingPricingPlan

The pending pricing plan.

Type: [PricingPlan](#) object

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

GetPropertyValue

Gets the property values for a component, component type, entity, or workspace.

You must specify a value for either `componentName`, `componentTypeId`, `entityId`, or `workspaceId`.

Request Syntax

```
POST /workspaces/workspaceId/entity-properties/value HTTP/1.1
```

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

```
{
  "componentName": "string",
  "componentPath": "string",
  "componentTypeId": "string",
  "entityId": "string",
  "maxResults": number,
  "nextToken": "string",
  "propertyGroupName": "string",
  "selectedProperties": [ "string" ],
  "tabularConditions": {
    "orderBy": [
      {
        "order": "string",
        "propertyName": "string"
      }
    ],
    "propertyFilters": [
      {
        "operator": "string",
        "propertyName": "string",
        "value": {
          "booleanValue": boolean,
          "doubleValue": number,
          "expression": "string",
          "integerValue": number,
          "listValue": [
            "DataValue"
          ],
          "longValue": number,
          "mapValue": {
            "string" : "DataValue"
          }
        }
      }
    ]
  }
}
```

```
    },
    "relationshipValue": {
      "targetComponentName": "string",
      "targetEntityId": "string"
    },
    "stringValue": "string"
  }
}
]
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace whose values the operation returns.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

The name of the component whose property values the operation returns.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: `[a-zA-Z_\-0-9/]+`

Required: No

componentTypeId

The ID of the component type whose property values the operation returns.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

entityId

The ID of the entity whose property values the operation returns.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

propertyGroupName

The property group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: No

selectedProperties

The properties whose values the operation returns.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: Yes

tabularConditions

The tabular conditions.

Type: [TabularConditions](#) object

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "nextToken": "string",
  "propertyValues": {
    "string" : {
      "propertyReference": {
        "componentName": "string",
        "componentPath": "string",
        "entityId": "string",
        "externalIdProperty": {
          "string" : "string"
        },
        "propertyName": "string"
      },
      "propertyValue": {
        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
          "DataValue"
        ],
        "longValue": number,
        "mapValue": {
          "string" : "DataValue"
        },
        "relationshipValue": {
          "targetComponentName": "string",
          "targetEntityId": "string"
        },
        "stringValue": "string"
      }
    }
  }
}
```

```

    }
  }
},
"tabularPropertyValues": [
  [
    {
      "string" : {
        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
          "DataValue"
        ],
        "longValue": number,
        "mapValue": {
          "string" : "DataValue"
        },
        "relationshipValue": {
          "targetComponentName": "string",
          "targetEntityId": "string"
        },
        "stringValue": "string"
      }
    }
  ]
]
}

```

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

propertyValues

An object that maps strings to the properties and latest property values in the response. Each string in the mapping must be unique to this object.

Type: String to [PropertyLatestValue](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

tabularPropertyValues

A table of property values.

Type: Array of arrays of string to [DataValue](#) object maps

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConnectorFailureException

The connector failed.

HTTP Status Code: 424

ConnectorTimeoutException

The connector timed out.

HTTP Status Code: 424

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

GetPropertyValueHistory

Retrieves information about the history of a time series property value for a component, component type, entity, or workspace.

You must specify a value for `workspaceId`. For entity-specific queries, specify values for `componentName` and `entityId`. For cross-entity queries, specify a value for `componentTypeId`.

Request Syntax

```
POST /workspaces/workspaceId/entity-properties/history HTTP/1.1
```

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

```
{
  "componentName": "string",
  "componentPath": "string",
  "componentTypeId": "string",
  "endDateTime": number,
  "endTime": "string",
  "entityId": "string",
  "interpolation": {
    "interpolationType": "string",
    "intervalInSeconds": number
  },
  "maxResults": number,
  "nextToken": "string",
  "orderByTime": "string",
  "propertyFilters": [
    {
      "operator": "string",
      "propertyName": "string",
      "value": {
        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
          "DataValue"
        ],
        "longValue": number,
        "mapValue": {
          "string" : "DataValue"
        }
      }
    }
  ]
}
```

```
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
}
],
"selectedProperties": [ "string" ],
"startDateTime": number,
"startTime": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: [a-zA-Z_\-0-9/]+

Required: No

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: No

endDateTime

This parameter has been deprecated.

The date and time of the latest property value to return.

Type: Timestamp

Required: No

endTime

The ISO8601 DateTime of the latest property value to return.

For more information about the ISO8601 DateTime format, see the data type [PropertyValue](#).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 35.

Required: No

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

interpolation

An object that specifies the interpolation type and the interval over which to interpolate data.

Type: [InterpolationParameters](#) object

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: `.*`

Required: No

orderByTime

The time direction to use in the result order.

Type: String

Valid Values: ASCENDING | DESCENDING

Required: No

propertyFilters

A list of objects that filter the property value history request.

Type: Array of [PropertyFilter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

selectedProperties

A list of properties whose value histories the request retrieves.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: Yes

startDateTime

This parameter has been deprecated.

The date and time of the earliest property value to return.

Type: Timestamp

Required: No

startTime

The ISO8601 DateTime of the earliest property value to return.

For more information about the ISO8601 DateTime format, see the data type [PropertyValue](#).

Type: String

Length Constraints: Minimum length of 20. Maximum length of 35.

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "nextToken": "string",
  "propertyValues": [
    {
      "entityPropertyReference": {
        "componentName": "string",
        "componentPath": "string",
        "entityId": "string",
        "externalIdProperty": {
          "string": "string"
        },
        "propertyName": "string"
      },
      "values": [
        {
          "time": "string",
          "timestamp": number,
          "value": {
            "booleanValue": boolean,
            "doubleValue": number,
            "expression": "string",
            "integerValue": number,
            "listValue": [
              "DataValue"
            ],
            "longValue": number,
            "mapValue": {
              "string": "DataValue"
            },
            "relationshipValue": {
```

```
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
}
]
}
]
```

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

propertyValues

An object that maps strings to the property definitions in the component type. Each string in the mapping must be unique to this object.

Type: Array of [PropertyValueHistory](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConnectorFailureException

The connector failed.

HTTP Status Code: 424

ConnectorTimeoutException

The connector timed out.

HTTP Status Code: 424

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetScene

Retrieves information about a scene.

Request Syntax

```
GET /workspaces/workspaceId/scenes/sceneId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The ID of the workspace that contains the scene.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "arn": "string",
  "capabilities": [ "string" ],
  "contentLocation": "string",
  "creationDateTime": number,
  "description": "string",
  "error": {
    "code": "string",
    "message": "string"
  },
  "generatedSceneMetadata": {
    "string" : "string"
  },
  "sceneId": "string",
  "sceneMetadata": {
    "string" : "string"
  },
  "updateDateTime": number,
  "workspaceId": "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.

arn

The ARN of the scene.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

capabilities

A list of capabilities that the scene uses to render.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Pattern: .*

contentLocation

The relative path that specifies the location of the content definition file.

Type: String

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

Pattern: [sS]3://[A-Za-z0-9._/-]+

creationDateTime

The date and time when the scene was created.

Type: Timestamp

description

The description of the scene.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

error

The SceneResponse error.

Type: [SceneError](#) object

generatedSceneMetadata

The generated scene metadata.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `.*`

sceneId

The ID of the scene.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

sceneMetadata

The response metadata.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `.*`

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

workspaceId

The ID of the workspace that contains the scene.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

GetSyncJob

Gets the SyncJob.

Request Syntax

```
GET /sync-jobs/syncSource?workspace=workspaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

Note

Currently the only supported syncSource is SITEWISE .

Pattern: [a-zA-Z_0-9]+

Required: Yes

workspaceId

The workspace ID.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "arn": "string",
  "creationDateTime": number,
  "status": {
    "error": {
      "code": "string",
      "message": "string"
    },
    "state": "string"
  },
  "syncRole": "string",
  "syncSource": "string",
  "updateDateTime": number,
  "workspaceId": "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.

arn

The sync job ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\./a-zA-Z0-9_\-\.:]+

creationDateTime

The creation date and time.

Type: Timestamp

status

The SyncJob response status.

Type: [SyncJobStatus](#) object

[syncRole](#)

The sync IAM role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iam:[0-9]{12}:role/.*`

[syncSource](#)

The sync source.

Note

Currently the only supported syncSource is SITEWISE.

Type: String

Pattern: `[a-zA-Z_0-9]+`

[updateDateTime](#)

The update date and time.

Type: Timestamp

[workspaceId](#)

The ID of the workspace that contains the sync job.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkspace

Retrieves information about a workspace.

Request Syntax

```
GET /workspaces/workspaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+|^arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "creationDateTime": number,
  "description": "string",
  "linkedServices": [ "string" ],
  "role": "string",
  "s3Location": "string",
```

```
"updateDateTime": number,  
"workspaceId": "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.

arn

The ARN of the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

description

The description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

linkedServices

A list of services that are linked to the workspace.

Type: Array of strings

Pattern: `[a-zA-Z_0-9]+`

role

The ARN of the execution role associated with the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iam::[0-9]{12}:role/.*`

s3Location

The ARN of the Amazon S3 bucket where resources associated with the workspace are stored.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `.*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([a-zA-Z0-9_-]+$).*`

updateDateTime

The date and time when the workspace was last updated.

Type: Timestamp

workspaceId

The ID of the workspace.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

ListComponents

This API lists the components of an entity.

Request Syntax

```
POST /workspaces/workspaceId/entities/entityId/components-list HTTP/1.1
Content-type: application/json
```

```
{
  "componentPath": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID for the entity whose metadata (component/properties) is returned by the operation.

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The workspace ID.

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

Pattern: `[a-zA-Z0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: [a-zA-Z_\-0-9/]+

Required: No

maxResults

The maximum number of results returned at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "componentSummaries": [
    {
```

```

    "componentName": "string",
    "componentPath": "string",
    "componentTypeId": "string",
    "definedIn": "string",
    "description": "string",
    "propertyGroups": {
      "string" : {
        "groupType": "string",
        "isInherited": boolean,
        "propertyNames": [ "string" ]
      }
    },
    "status": {
      "error": {
        "code": "string",
        "message": "string"
      },
      "state": "string"
    },
    "syncSource": "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.

componentSummaries

A list of objects that contain information about the components.

Type: Array of [ComponentSummary](#) objects

nextToken

The string that specifies the next page of component results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListComponentTypes

Lists all component types in a workspace.

Request Syntax

```
POST /workspaces/workspaceId/component-types-list HTTP/1.1  
Content-type: application/json
```

```
{  
  "filters": [  
    { ... }  
  ],  
  "maxResults": number,  
  "nextToken": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

Type: Array of [ListComponentTypesFilter](#) objects

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "componentTypeSummaries": [
    {
      "arn": "string",
      "componentTypeId": "string",
      "componentTypeName": "string",
      "creationDateTime": number,
      "description": "string",
      "status": {
        "error": {
          "code": "string",
          "message": "string"
        }
      },
    },
  ],
}
```

```
        "state": "string"
      },
      "updateDateTime": number
    }
  ],
  "maxResults": number,
  "nextToken": "string",
  "workspaceId": "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.

componentTypeSummaries

A list of objects that contain information about the component types.

Type: Array of [ComponentTypeSummary](#) objects

maxResults

Specifies the maximum number of results to display.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

workspaceId

The ID of the workspace.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

ListEntities

Lists all entities in a workspace.

Request Syntax

```
POST /workspaces/workspaceId/entities-list HTTP/1.1  
Content-type: application/json
```

```
{  
  "filters": [  
    { ... }  
  ],  
  "maxResults": number,  
  "nextToken": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

Note

Only one object is accepted as a valid input.

Type: Array of [ListEntitiesFilter](#) objects

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "entitySummaries": [
    {
      "arn": "string",
      "creationDateTime": number,
```

```
    "description": "string",
    "entityId": "string",
    "entityName": "string",
    "hasChildEntities": boolean,
    "parentEntityId": "string",
    "status": {
      "error": {
        "code": "string",
        "message": "string"
      },
      "state": "string"
    },
    "updateDateTime": number
  }
],
"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.

entitySummaries

A list of objects that contain information about the entities.

Type: Array of [EntitySummary](#) objects

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Errors

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

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

ListMetadataTransferJobs

Lists the metadata transfer jobs.

Request Syntax

```
POST /metadata-transfer-jobs-list HTTP/1.1
Content-type: application/json

{
  "destinationType": "string",
  "filters": [
    { ... }
  ],
  "maxResults": number,
  "nextToken": "string",
  "sourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationType

The metadata transfer job's destination type.

Type: String

Valid Values: s3 | iotsitewise | iottwinmaker

Required: Yes

filters

An object that filters metadata transfer jobs.

Type: Array of [ListMetadataTransferJobsFilter](#) objects

Required: No

maxResults

The maximum number of results to return at one time.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

sourceType

The metadata transfer job's source type.

Type: String

Valid Values: s3 | iotsitewise | iottwinmaker

Required: Yes

Response Syntax

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

{
  "metadataTransferJobSummaries": [
    {
      "arn": "string",
```

```
    "creationDateTime": number,
    "metadataTransferJobId": "string",
    "progress": {
      "failedCount": number,
      "skippedCount": number,
      "succeededCount": number,
      "totalCount": number
    },
    "status": {
      "error": {
        "code": "string",
        "message": "string"
      },
      "queuedPosition": number,
      "state": "string"
    },
    "updateDateTime": number
  }
],
"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.

metadataTransferJobSummaries

The metadata transfer job summaries.

Type: Array of [MetadataTransferJobSummary](#) objects

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerError

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListProperties

This API lists the properties of a component.

Request Syntax

```
POST /workspaces/workspaceId/properties-list HTTP/1.1
Content-type: application/json
```

```
{
  "componentName": "string",
  "componentPath": "string",
  "entityId": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The workspace ID.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

The name of the component whose properties are returned by the operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: `[a-zA-Z_\-0-9/]+`

Required: No

entityId

The ID for the entity whose metadata (component/properties) is returned by the operation.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: Yes

maxResults

The maximum number of results returned at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "nextToken": "string",
  "propertySummaries": [
    {
      "areAllPropertyValuesReturned": boolean,
      "definition": {
        "configuration": {
          "string": "string"
        },
        "dataType": {
          "allowedValues": [
            {
              "booleanValue": boolean,
              "doubleValue": number,
              "expression": "string",
              "integerValue": number,
              "listValue": [
                "DataValue"
              ],
              "longValue": number,
              "mapValue": {
                "string": "DataValue"
              },
              "relationshipValue": {
                "targetComponentName": "string",
                "targetEntityId": "string"
              },
              "stringValue": "string"
            }
          ],
          "nestedType": "DataType",
          "relationship": {
            "relationshipType": "string",
            "targetComponentTypeId": "string"
          }
        }
      }
    }
  ]
}
```

```
    },
    "type": "string",
    "unitOfMeasure": "string"
  },
  "defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
      "DataValue"
    ],
    "longValue": number,
    "mapValue": {
      "string" : "DataValue"
    },
    "relationshipValue": {
      "targetComponentName": "string",
      "targetEntityId": "string"
    },
    "stringValue": "string"
  },
  "displayName": "string",
  "isExternalId": boolean,
  "isFinal": boolean,
  "isImported": boolean,
  "isInherited": boolean,
  "isRequiredInEntity": boolean,
  "isStoredExternally": boolean,
  "isTimeSeries": boolean
},
"propertyName": "string",
"value": {
  "booleanValue": boolean,
  "doubleValue": number,
  "expression": "string",
  "integerValue": number,
  "listValue": [
    "DataValue"
  ],
  "longValue": number,
  "mapValue": {
    "string" : "DataValue"
  }
},
```

```
    "relationshipValue": {
      "targetComponentName": "string",
      "targetEntityId": "string"
    },
    "stringValue": "string"
  }
}
]
```

Response Elements

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

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

nextToken

The string that specifies the next page of property results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

propertySummaries

A list of objects that contain information about the properties.

Type: Array of [PropertySummary](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

ListScenes

Lists all scenes in a workspace.

Request Syntax

```
POST /workspaces/workspaceId/scenes-list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the scenes.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

Specifies the maximum number of results to display.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "sceneSummaries": [
    {
      "arn": "string",
      "contentLocation": "string",
      "creationDateTime": number,
      "description": "string",
      "sceneId": "string",
      "updateDateTime": number
    }
  ]
}
```

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

sceneSummaries

A list of objects that contain information about the scenes.

Type: Array of [SceneSummary](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)

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

ListSyncJobs

List all SyncJobs.

Request Syntax

```
POST /workspaces/workspaceId/sync-jobs-list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the sync job.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return at one time. The default is 50.

Valid Range: Minimum value of 0. Maximum value of 200.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "syncJobSummaries": [
    {
      "arn": "string",
      "creationDateTime": number,
      "status": {
        "error": {
          "code": "string",
          "message": "string"
        },
        "state": "string"
      },
      "syncSource": "string",
      "updateDateTime": number,
      "workspaceId": "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

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: . *

syncJobSummaries

The listed SyncJob summaries.

Type: Array of [SyncJobSummary](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

ListSyncResources

Lists the sync resources.

Request Syntax

```
POST /workspaces/workspaceId/sync-jobs/syncSource/resources-list HTTP/1.1
Content-type: application/json
```

```
{
  "filters": [
    { ... }
  ],
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

Note

Currently the only supported syncSource is SITEWISE .

Pattern: [a-zA-Z_0-9]+

Required: Yes

workspaceId

The ID of the workspace that contains the sync job.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

The following filter combinations are supported:

- Filter with state
- Filter with ResourceType and ResourceId
- Filter with ResourceType and ExternalId

Type: Array of [SyncResourceFilter](#) objects

Required: No

maxResults

The maximum number of results to return at one time. The default is 50.

Valid Range: Minimum value of 0. Maximum value of 200.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "syncResources": [
    {
      "externalId": "string",
      "resourceId": "string",
      "resourceType": "string",
      "status": {
        "error": {
          "code": "string",
          "message": "string"
        },
        "state": "string"
      },
      "updateDateTime": number
    }
  ]
}
```

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

syncResources

The sync resources.

Type: Array of [SyncResourceSummary](#) objects

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Lists all tags associated with a resource.

Request Syntax

```
POST /tags-list HTTP/1.1
Content-type: application/json

{
  "maxResults": number,
  "nextToken": "string",
  "resourceARN": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

resourceARN

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_-\.\:]+

Required: Yes

Response Syntax

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

{
  "nextToken": "string",
  "tags": {
    "string" : "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

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

tags

Metadata that you can use to manage a resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: (`([\p{L}\p{Z}\p{N}_ . : / = + \ - @])*`)

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: .*

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWorkspaces

Retrieves information about workspaces in the current account.

Request Syntax

```
POST /workspaces-list HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

The maximum number of results to return at one time. The default is 25.

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

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 200.

Required: No

nextToken

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

Required: No

Response Syntax

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

{
  "nextToken": "string",
  "workspaceSummaries": [
    {
      "arn": "string",
      "creationDateTime": number,
      "description": "string",
      "linkedServices": [ "string" ],
      "updateDateTime": number,
      "workspaceId": "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](#)

The string that specifies the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 17880.

Pattern: .*

[workspaceSummaries](#)

A list of objects that contain information about the workspaces.

Type: Array of [WorkspaceSummary](#) objects

Errors

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

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds tags to a resource.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceARN

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_-\.\:]+`

Required: Yes

tags

Metadata to add to this resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: (`[\p{L}\p{Z}\p{N}_.: /+=\ -@]*`)

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

TooManyTagsException

The number of tags exceeds the limit.

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

UntagResource

Removes tags from a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceARN

The ARN of the resource.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

Required: Yes

tagKeys

A list of tag key names to remove from the resource. You don't specify the value. Both the key and its associated value are removed.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Pattern: `([\p{L}\p{Z}\p{N}_\.:/+\\-@]*)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

See Also

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

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

- [AWS SDK for Ruby V3](#)

UpdateComponentType

Updates information in a component type.

Request Syntax

```
PUT /workspaces/workspaceId/component-types/componentTypeId HTTP/1.1
```

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

```
{
  "componentTypeName": "string",
  "compositeComponentTypes": {
    "string" : {
      "componentTypeId": "string"
    }
  },
  "description": "string",
  "extendsFrom": [ "string" ],
  "functions": {
    "string" : {
      "implementedBy": {
        "isNative": boolean,
        "lambda": {
          "arn": "string"
        }
      }
    },
    "requiredProperties": [ "string" ],
    "scope": "string"
  }
},
"isSingleton": boolean,
"propertyDefinitions": {
  "string" : {
    "configuration": {
      "string" : "string"
    },
    "dataType": {
      "allowedValues": [
        {
          "booleanValue": boolean,
          "doubleValue": number,
          "expression": "string",
          "integerValue": number,
```

```
    "listValue": [
      "DataValue"
    ],
    "longValue": number,
    "mapValue": {
      "string" : "DataValue"
    },
    "relationshipValue": {
      "targetComponentName": "string",
      "targetEntityId": "string"
    },
    "stringValue": "string"
  }
],
"nestedType": "DataType",
"relationship": {
  "relationshipType": "string",
  "targetComponentTypeId": "string"
},
"unitOfMeasure": "string"
},
"defaultValue": {
  "booleanValue": boolean,
  "doubleValue": number,
  "expression": "string",
  "integerValue": number,
  "listValue": [
    "DataValue"
  ],
  "longValue": number,
  "mapValue": {
    "string" : "DataValue"
  },
  "relationshipValue": {
    "targetComponentName": "string",
    "targetEntityId": "string"
  },
  "stringValue": "string"
},
"displayName": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
```

```
    "isTimeSeries": boolean
  }
},
"propertyGroups": {
  "string" : {
    "groupType": "string",
    "propertyNames": [ "string" ]
  }
}
}
```

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: Yes

workspaceId

The ID of the workspace.

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentTypeName

The component type name.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

compositeComponentTypes

This is an object that maps strings to `compositeComponentTypes` of the `componentType`. `CompositeComponentType` is referenced by `componentTypeId`.

Type: String to [CompositeComponentTypeRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

extendsFrom

Specifies the component type that this component type extends.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

functions

An object that maps strings to the functions in the component type. Each string in the mapping must be unique to this object.

Type: String to [FunctionRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

isSingleton

A Boolean value that specifies whether an entity can have more than one component of this type.

Type: Boolean

Required: No

propertyDefinitions

An object that maps strings to the property definitions in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyDefinitionRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

propertyGroups

The property groups.

Type: String to [PropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

Response Syntax

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

{
  "arn": "string",
  "componentTypeId": "string",
  "state": "string",
  "workspaceId": "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.

arn

The ARN of the component type.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-\0-9:]+`

state

The current state of the component type.

Type: String

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

workspaceId

The ID of the workspace that contains the component type.

Type: String

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

Pattern: [a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

UpdateEntity

Updates an entity.

Request Syntax

```
PUT /workspaces/workspaceId/entities/entityId HTTP/1.1
```

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

```
{
  "componentUpdates": {
    "string" : {
      "componentTypeId": "string",
      "description": "string",
      "propertyGroupUpdates": {
        "string" : {
          "groupType": "string",
          "propertyNames": [ "string" ],
          "updateType": "string"
        }
      },
    },
    "propertyUpdates": {
      "string" : {
        "definition": {
          "configuration": {
            "string" : "string"
          },
        },
        "dataType": {
          "allowedValues": [
            {
              "booleanValue": boolean,
              "doubleValue": number,
              "expression": "string",
              "integerValue": number,
              "listValue": [
                "DataValue"
              ],
              "longValue": number,
              "mapValue": {
                "string" : "DataValue"
              },
              "relationshipValue": {
                "targetComponentName": "string",

```

```

        "targetEntityId": "string"
    },
    "stringValue": "string"
}
],
"nestedType": "DataType",
"relationship": {
    "relationshipType": "string",
    "targetComponentTypeId": "string"
},
"type": "string",
"unitOfMeasure": "string"
},
"defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string" : "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
},
"displayname": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
"isTimeSeries": boolean
},
"updateType": "string",
"value": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [

```

```

        "DataValue"
      ],
      "longValue": number,
      "mapValue": {
        "string" : "DataValue"
      },
      "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
      },
      "stringValue": "string"
    }
  }
},
"updateType": "string"
}
},
"compositeComponentUpdates": {
  "string" : {
    "description": "string",
    "propertyGroupUpdates": {
      "string" : {
        "groupType": "string",
        "propertyNames": [ "string" ],
        "updateType": "string"
      }
    },
    "propertyUpdates": {
      "string" : {
        "definition": {
          "configuration": {
            "string" : "string"
          },
          "dataType": {
            "allowedValues": [
              {
                "booleanValue": boolean,
                "doubleValue": number,
                "expression": "string",
                "integerValue": number,
                "listValue": [
                  "DataValue"
                ],
                "longValue": number,

```

```

        "mapValue": {
            "string": "DataValue"
        },
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
],
"nestedType": "DataType",
"relationship": {
    "relationshipType": "string",
    "targetComponentTypeId": "string"
},
"type": "string",
"unitOfMeasure": "string"
},
"defaultValue": {
    "booleanValue": boolean,
    "doubleValue": number,
    "expression": "string",
    "integerValue": number,
    "listValue": [
        "DataValue"
    ],
    "longValue": number,
    "mapValue": {
        "string": "DataValue"
    },
    "relationshipValue": {
        "targetComponentName": "string",
        "targetEntityId": "string"
    },
    "stringValue": "string"
},
"displayName": "string",
"isExternalId": boolean,
"isRequiredInEntity": boolean,
"isStoredExternally": boolean,
"isTimeSeries": boolean
},
"updateType": "string",
"value": {

```

```

        "booleanValue": boolean,
        "doubleValue": number,
        "expression": "string",
        "integerValue": number,
        "listValue": [
            "DataValue"
        ],
        "longValue": number,
        "mapValue": {
            "string" : "DataValue"
        },
        "relationshipValue": {
            "targetComponentName": "string",
            "targetEntityId": "string"
        },
        "stringValue": "string"
    }
}
},
"updateType": "string"
}
},
"description": "string",
"entityName": "string",
"parentEntityUpdate": {
    "parentEntityId": "string",
    "updateType": "string"
}
}
}

```

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity.

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The ID of the workspace that contains the entity.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentUpdates

An object that maps strings to the component updates in the request. Each string in the mapping must be unique to this object.

Type: String to [ComponentUpdateRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

compositeComponentUpdates

This is an object that maps strings to `compositeComponent` updates in the request. Each key of the map represents the `componentPath` of the `compositeComponent`.

Type: String to [CompositeComponentUpdateRequest](#) object map

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

Key Pattern: `[a-zA-Z_\-0-9/]+`

Required: No

description

The description of the entity.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: . *

Required: No

entityName

The name of the entity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [^\u0000-\u001F\u007F]+

Required: No

parentEntityUpdate

An object that describes the update request for a parent entity.

Type: [ParentEntityUpdateRequest](#) object

Required: No

Response Syntax

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

```
{
  "state": string,
  "updateDateTime": number
}
```

Response Elements

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

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

state

The current state of the entity update.

Type: String

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

updateDateTime

The date and time when the entity was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

ConflictException

A conflict occurred.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

UpdatePricingPlan

Update the pricing plan.

Request Syntax

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

{
  "bundleNames": [ "string" ],
  "pricingMode": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

bundleNames

The bundle names.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

pricingMode

The pricing mode.

Type: String

Valid Values: BASIC | STANDARD | TIERED_BUNDLE

Required: Yes

Response Syntax

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

{
  "currentPricingPlan": {
    "billableEntityCount": number,
    "bundleInformation": {
      "bundleNames": [ "string" ],
      "pricingTier": "string"
    },
    "effectiveDateTime": number,
    "pricingMode": "string",
    "updateDateTime": number,
    "updateReason": "string"
  },
  "pendingPricingPlan": {
    "billableEntityCount": number,
    "bundleInformation": {
      "bundleNames": [ "string" ],
      "pricingTier": "string"
    },
    "effectiveDateTime": number,
    "pricingMode": "string",
    "updateDateTime": number,
    "updateReason": "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.

currentPricingPlan

Update the current pricing plan.

Type: [PricingPlan](#) object

[pendingPricingPlan](#)

Update the pending pricing plan.

Type: [PricingPlan](#) object

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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 V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateScene

Updates a scene.

Request Syntax

```
PUT /workspaces/workspaceId/scenes/sceneId HTTP/1.1  
Content-type: application/json
```

```
{  
  "capabilities": [ "string" ],  
  "contentLocation": "string",  
  "description": "string",  
  "sceneMetadata": {  
    "string" : "string"  
  }  
}
```

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

workspaceId

The ID of the workspace that contains the scene.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

capabilities

A list of capabilities that the scene uses to render.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Pattern: .*

Required: No

contentLocation

The relative path that specifies the location of the content definition file.

Type: String

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

Pattern: [sS]3://[A-Za-z0-9._/-]+

Required: No

description

The description of this scene.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

sceneMetadata

The scene metadata.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Length Constraints: Minimum length of 0. Maximum length of 2048.

Value Pattern: `.*`

Required: No

Response Syntax

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

{
  "updateDateTime": number
}
```

Response Elements

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

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

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

UpdateWorkspace

Updates a workspace.

Request Syntax

```
PUT /workspaces/workspaceId HTTP/1.1  
Content-type: application/json
```

```
{  
  "description": "string",  
  "role": "string",  
  "s3Location": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

role

The ARN of the execution role associated with the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:((aws)|(aws-cn)|(aws-us-gov)):iam::[0-9]{12}:role/.*

Required: No

s3Location

The ARN of the S3 bucket where resources associated with the workspace are stored.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([a-zA-Z0-9_-]+\$).*

Required: No

Response Syntax

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

```
{
  "updateDateTime": number
}
```

Response Elements

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

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

updateDateTime

The date and time of the current update.

Type: Timestamp

Errors

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

AccessDeniedException

Access is denied.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota was exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

HTTP Status Code: 429

ValidationException

Failed

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

Data Types

The AWS IoT TwinMaker 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:

- [BatchPutPropertyError](#)
- [BatchPutPropertyErrorEntry](#)
- [BundleInformation](#)
- [ColumnDescription](#)
- [ComponentPropertyGroupRequest](#)
- [ComponentPropertyGroupResponse](#)
- [ComponentRequest](#)
- [ComponentResponse](#)
- [ComponentSummary](#)
- [ComponentTypeSummary](#)
- [ComponentUpdateRequest](#)
- [CompositeComponentRequest](#)
- [CompositeComponentTypeRequest](#)
- [CompositeComponentTypeResponse](#)
- [CompositeComponentUpdateRequest](#)
- [DataConnector](#)
- [DataType](#)
- [DataValue](#)
- [DestinationConfiguration](#)
- [EntityPropertyReference](#)

- [EntitySummary](#)
- [ErrorDetails](#)
- [FilterByAsset](#)
- [FilterByAssetModel](#)
- [FilterByComponentType](#)
- [FilterByEntity](#)
- [FunctionRequest](#)
- [FunctionResponse](#)
- [InterpolationParameters](#)
- [lotSiteWiseSourceConfiguration](#)
- [lotSiteWiseSourceConfigurationFilter](#)
- [lotTwinMakerDestinationConfiguration](#)
- [lotTwinMakerSourceConfiguration](#)
- [lotTwinMakerSourceConfigurationFilter](#)
- [LambdaFunction](#)
- [ListComponentTypesFilter](#)
- [ListEntitiesFilter](#)
- [ListMetadataTransferJobsFilter](#)
- [MetadataTransferJobProgress](#)
- [MetadataTransferJobStatus](#)
- [MetadataTransferJobSummary](#)
- [OrderBy](#)
- [ParentEntityUpdateRequest](#)
- [PricingPlan](#)
- [PropertyDefinitionRequest](#)
- [PropertyDefinitionResponse](#)
- [PropertyFilter](#)
- [PropertyGroupRequest](#)
- [PropertyGroupResponse](#)
- [PropertyLatestValue](#)

- [PropertyRequest](#)
- [PropertyResponse](#)
- [PropertySummary](#)
- [PropertyValue](#)
- [PropertyValueEntry](#)
- [PropertyValueHistory](#)
- [Relationship](#)
- [RelationshipValue](#)
- [Row](#)
- [S3DestinationConfiguration](#)
- [S3SourceConfiguration](#)
- [SceneError](#)
- [SceneSummary](#)
- [SourceConfiguration](#)
- [Status](#)
- [SyncJobStatus](#)
- [SyncJobSummary](#)
- [SyncResourceFilter](#)
- [SyncResourceStatus](#)
- [SyncResourceSummary](#)
- [TabularConditions](#)
- [WorkspaceSummary](#)

BatchPutPropertyError

An error returned by the `BatchPutProperty` action.

Contents

entry

An object that contains information about errors returned by the `BatchPutProperty` action.

Type: [PropertyValueEntry](#) object

Required: Yes

errorCode

The error code.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: Yes

errorMessage

The error message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: Yes

See Also

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

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

BatchPutPropertyErrorEntry

An object that contains information about errors returned by the BatchPutProperty action.

Contents

errors

A list of objects that contain information about errors returned by the BatchPutProperty action.

Type: Array of [BatchPutPropertyError](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

See Also

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

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

BundleInformation

Information about the pricing bundle.

Contents

bundleNames

The bundle names.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: Yes

pricingTier

The pricing tier.

Type: String

Valid Values: TIER_1 | TIER_2 | TIER_3 | TIER_4

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

ColumnDescription

A description of the column in the query results.

Contents

name

The name of the column description.

Type: String

Pattern: .*

Required: No

type

The type of the column description.

Type: String

Valid Values: NODE | EDGE | VALUE

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

ComponentPropertyGroupRequest

The component property group request.

Contents

groupType

The group type.

Type: String

Valid Values: TABULAR

Required: No

propertyNames

The property names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: No

updateType

The update type.

Type: String

Valid Values: UPDATE | DELETE | CREATE

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

ComponentPropertyGroupResponse

The component property group response.

Contents

groupType

The group type.

Type: String

Valid Values: TABULAR

Required: Yes

isInherited

A Boolean value that specifies whether the property group is inherited from a parent entity

Type: Boolean

Required: Yes

propertyNames

The names of properties

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: Yes

See Also

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

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

- [AWS SDK for Ruby V3](#)

ComponentRequest

An object that sets information about a component type create or update request.

Contents

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: No

description

The description of the component request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

properties

An object that maps strings to the properties to set in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

propertyGroups

The property groups.

Type: String to [ComponentPropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

See Also

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

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

ComponentResponse

An object that returns information about a component type create or update request.

Contents

areAllCompositeComponentsReturned

This flag notes whether all `compositeComponents` are returned in the API response.

Type: Boolean

Required: No

areAllPropertiesReturned

This flag notes whether all properties of the component are returned in the API response. The maximum number of properties returned is 800.

Type: Boolean

Required: No

componentName

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

compositeComponents

This lists objects that contain information about the `compositeComponents`.

Type: String to [ComponentSummary](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

definedIn

The name of the property definition set in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

properties

An object that maps strings to the properties to set in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

propertyGroups

The property groups.

Type: String to [ComponentPropertyGroupResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

status

The status of the component type.

Type: [Status](#) object

Required: No

syncSource

The syncSource of the sync job, if this entity was created by a sync job.

Type: String

Pattern: [a-zA-Z_0-9]+

Required: No

See Also

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

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

ComponentSummary

An object that returns information about a component summary.

Contents

componentName

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: Yes

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: Yes

status

The status of the component type.

Type: [Status](#) object

Required: Yes

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: [a-zA-Z_\-0-9/]+

Required: No

definedIn

The name of the property definition set in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

description

The description of the component request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

propertyGroups

The property groups.

Type: String to [ComponentPropertyGroupResponse](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9/]+

Required: No

syncSource

The syncSource of the sync job, if this entity was created by a sync job.

Type: String

Pattern: `[a-zA-Z_0-9]+`

Required: No

See Also

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

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

ComponentTypeSummary

An object that contains information about a component type.

Contents

arn

The ARN of the component type.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\w/a-zA-Z0-9_\-\.\:]+`

Required: Yes

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: Yes

creationDateTime

The date and time when the component type was created.

Type: Timestamp

Required: Yes

updateDateTime

The date and time when the component type was last updated.

Type: Timestamp

Required: Yes

componentTypeName

The component type name.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

status

The current status of the component type.

Type: [Status](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentUpdateRequest

The component update request.

Contents

componentTypeId

The ID of the component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

propertyGroupUpdates

The property group updates.

Type: String to [ComponentPropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

propertyUpdates

An object that maps strings to the properties to set in the component type update. Each string in the mapping must be unique to this object.

Type: String to [PropertyRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Required: No

updateType

The update type of the component update request.

Type: String

Valid Values: CREATE | UPDATE | DELETE

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

CompositeComponentRequest

An object that sets information about the composite component update request.

Contents

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: . *

Required: No

properties

This is an object that maps strings to the properties to set in the component type. Each string in the mapping must be unique to this object.

Type: String to [PropertyRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

propertyGroups

The property groups.

Type: String to [ComponentPropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

See Also

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

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

CompositeComponentTypeRequest

An object that sets information about the composite component types of a component type.

Contents

`componentTypeId`

This is the `componentTypeId` that the `compositeComponentType` refers to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

See Also

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

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

CompositeComponentTypeResponse

An object that returns information about the composite component types of a component type.

Contents

`componentTypeId`

This is the `componentTypeId` that this `compositeComponentType` refers to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

`isInherited`

This boolean indicates whether this `compositeComponentType` is inherited from its parent.

Type: Boolean

Required: No

See Also

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

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

CompositeComponentUpdateRequest

An object that sets information about the composite component update request.

Contents

description

The description of the component type.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

propertyGroupUpdates

The property group updates.

Type: String to [ComponentPropertyGroupRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

propertyUpdates

An object that maps strings to the properties to set in the component type update. Each string in the mapping must be unique to this object.

Type: String to [PropertyRequest](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: [a-zA-Z_\-0-9]+

Required: No

updateType

The update type of the component update request.

Type: String

Valid Values: CREATE | UPDATE | DELETE

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

DataConnector

The data connector.

Contents

isNative

A Boolean value that specifies whether the data connector is native to AWS IoT TwinMaker.

Type: Boolean

Required: No

lambda

The Lambda function associated with this data connector.

Type: [LambdaFunction](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Data Type

An object that specifies the data type of a property.

Contents

type

The underlying type of the data type.

Type: String

Valid Values: RELATIONSHIP | STRING | LONG | BOOLEAN | INTEGER | DOUBLE | LIST | MAP

Required: Yes

allowedValues

The allowed values for this data type.

Type: Array of [DataValue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

nestedType

The nested type in the data type.

Type: [DataType](#) object

Required: No

relationship

A relationship that associates a component with another component.

Type: [Relationship](#) object

Required: No

unitOfMeasure

The unit of measure used in this data type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

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

DataValue

An object that specifies a value for a property.

Contents

booleanValue

A Boolean value.

Type: Boolean

Required: No

doubleValue

A double value.

Type: Double

Required: No

expression

An expression that produces the value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 316.

Pattern: $(^\$ \{Parameters \. [a-zA-z] + ([a-zA-z_0-9] *)\} \$)$

Required: No

integerValue

An integer value.

Type: Integer

Required: No

listValue

A list of multiple values.

Type: Array of [DataValue](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

longValue

A long value.

Type: Long

Required: No

mapValue

An object that maps strings to multiple DataValue objects.

Type: String to [DataValue](#) object map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: .*

Required: No

relationshipValue

A value that relates a component to another component.

Type: [RelationshipValue](#) object

Required: No

stringValue

A string value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

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

DestinationConfiguration

The [link to action] metadata transfer job destination configuration.

Contents

type

The destination type.

Type: String

Valid Values: `s3` | `iotsitewise` | `iottwinmaker`

Required: Yes

iotTwinMakerConfiguration

The metadata transfer job AWS IoT TwinMaker configuration.

Type: [iotTwinMakerDestinationConfiguration](#) object

Required: No

s3Configuration

The metadata transfer job S3 configuration. [need to add S3 entity]

Type: [S3DestinationConfiguration](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

EntityPropertyReference

An object that uniquely identifies an entity property.

Contents

propertyName

The name of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: Yes

componentName

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

componentPath

This string specifies the path to the composite component, starting from the top-level component.

Type: String

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

Pattern: `[a-zA-Z_\-0-9/]+`

Required: No

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

externalIdProperty

A mapping of external IDs to property names. External IDs uniquely identify properties from external data stores.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `.*`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Value Pattern: `.*`

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

EntitySummary

An object that contains information about an entity.

Contents

arn

The ARN of the entity.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.\.]+`

Required: Yes

creationDateTime

The date and time when the entity was created.

Type: Timestamp

Required: Yes

entityId

The ID of the entity.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-\0-9.\.]*[a-zA-Z0-9]+`

Required: Yes

entityName

The name of the entity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[^\u0000-\u001F\u007F]+`

Required: Yes

status

The current status of the entity.

Type: [Status](#) object

Required: Yes

updateDateTime

The last date and time when the entity was updated.

Type: Timestamp

Required: Yes

description

The description of the entity.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

hasChildEntities

An **eventual** Boolean value that specifies whether the entity has child entities or not.

Type: Boolean

Required: No

parentEntityId

The ID of the parent entity.

Type: String

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

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.~]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

ErrorDetails

The error details.

Contents

code

The error code.

Type: String

Valid Values: VALIDATION_ERROR | INTERNAL_FAILURE | SYNC_INITIALIZING_ERROR | SYNC_CREATING_ERROR | SYNC_PROCESSING_ERROR | SYNC_DELETING_ERROR | PROCESSING_ERROR | COMPOSITE_COMPONENT_FAILURE

Required: No

message

The error message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

FilterByAsset

Filter by asset. You can include multiple filters when you export your AWS IoT SiteWise content. See [Export metadata examples](#) in the AWS IoT SiteWise User Guide.

Contents

assetExternalId

The external-Id property of an asset.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 128.

Pattern: `.*[a-zA-Z0-9_][a-zA-Z_\-0-9.:]*[a-zA-Z0-9_]+.*`

Required: No

assetId

Filter by asset Id.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

includeAssetModel

Set to true to include the asset model that the specified asset uses.

Type: Boolean

Required: No

includeOffspring

Set to true to include all associated asset models in the hierarchy of the specified asset model.

Type: Boolean

Required: No

See Also

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

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

FilterByAssetModel

Filter by asset model.

Contents

assetModelExternalId

The external-Id property of an asset model.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 128.

Pattern: `.*[a-zA-Z0-9_][a-zA-Z_\-0-9.:]*[a-zA-Z0-9_]+.*`

Required: No

assetModelId

The asset model Id.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

includeAssets

Set to true to include all assets that use the specified asset model.

Type: Boolean

Required: No

includeOffspring

Set to true to include all associated asset models in the hierarchy of the specified asset model.

Type: Boolean

Required: No

See Also

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

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

FilterByComponentType

Filter by component type.

Contents

`componentTypeId`

The component type Id.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: Yes

See Also

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

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

FilterByEntity

Filter by entity.

Contents

entityId

The entity Id.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: Yes

See Also

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

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

FunctionRequest

The function request body.

Contents

implementedBy

The data connector.

Type: [DataConnector](#) object

Required: No

requiredProperties

The required properties of the function.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

scope

The scope of the function.

Type: String

Valid Values: ENTITY | WORKSPACE

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 Java V2](#)

- [AWS SDK for Ruby V3](#)

FunctionResponse

The function response.

Contents

implementedBy

The data connector.

Type: [DataConnector](#) object

Required: No

isInherited

Indicates whether this function is inherited.

Type: Boolean

Required: No

requiredProperties

The required properties of the function.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

scope

The scope of the function.

Type: String

Valid Values: ENTITY | WORKSPACE

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

InterpolationParameters

An object that specifies how to interpolate data in a list.

Contents

interpolationType

The interpolation type.

Type: String

Valid Values: LINEAR

Required: No

intervalInSeconds

The interpolation time interval in seconds.

Type: Long

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

lotSiteWiseSourceConfiguration

The metadata transfer job AWS IoT SiteWise source configuration.

Contents

filters

The AWS IoT SiteWise source configuration filters.

Type: Array of [lotSiteWiseSourceConfigurationFilter](#) objects

Required: No

See Also

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

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

lotSiteWiseSourceConfigurationFilter

The AWS IoT SiteWise source configuration filter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

filterByAsset

Filter by asset.

Type: [FilterByAsset](#) object

Required: No

filterByAssetModel

Filter by asset model.

Type: [FilterByAssetModel](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

IoT TwinMaker Destination Configuration

The metadata transfer job AWS IoT TwinMaker destination configuration.

Contents

workspace

The IoT TwinMaker workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

Required: Yes

See Also

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

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

IoT TwinMaker Source Configuration

The metadata transfer job AWS IoT TwinMaker source configuration.

Contents

workspace

The IoT TwinMaker workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\w/a-zA-Z0-9_-\.\.]+`

Required: Yes

filters

The metadata transfer job AWS IoT TwinMaker source configuration filters.

Type: Array of [IoT TwinMaker Source Configuration Filter](#) objects

Required: No

See Also

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

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

IoT TwinMaker Source Configuration Filter

The metadata transfer job AWS IoT TwinMaker source configuration filter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

filterByComponentType

Filter by component type.

Type: [FilterByComponentType](#) object

Required: No

filterByEntity

Filter by entity.

Type: [FilterByEntity](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

LambdaFunction

The Lambda function.

Contents

arn

The ARN of the Lambda function.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):lambda:[a-z0-9-]+:[0-9]{12}:function:[\a-zA-Z0-9_-]+`

Required: Yes

See Also

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

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

ListComponentTypesFilter

An object that filters items in a list of component types.

Note

Only one object is accepted as a valid input.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

extendsFrom

The component type that the component types in the list extend.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: No

isAbstract

A Boolean value that specifies whether the component types in the list are abstract.

Type: Boolean

Required: No

namespace

The namespace to which the component types in the list belong.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

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

ListEntitiesFilter

An object that filters items in a list of entities.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

componentTypeId

The ID of the component type in the entities in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: No

externalId

The external-Id property of a component. The external-Id property is the primary key of an external storage system.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

parentEntityId

The parent of the entities in the list.

Type: String

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

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.~]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

ListMetadataTransferJobsFilter

The ListMetadataTransferJobs filter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

state

The filter state.

Type: String

Valid Values: VALIDATING | PENDING | RUNNING | CANCELLING | ERROR | COMPLETED | CANCELLED

Required: No

workspaceId

The workspace Id.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

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

MetadataTransferJobProgress

The metadata transfer job's progress.

Contents

failedCount

The count of assets that failed during the process.

Type: Integer

Required: No

skippedCount

The count of assets that were skipped during the process.

Type: Integer

Required: No

succeededCount

The count of assets successfully transferred.

Type: Integer

Required: No

totalCount

The total count of assets in the transfer process.

Type: Integer

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

MetadataTransferJobStatus

The metadata transfer job status.

Contents

error

The metadata transfer job error.

Type: [ErrorDetails](#) object

Required: No

queuedPosition

The queued position.

Type: Integer

Required: No

state

The metadata transfer job state.

Type: String

Valid Values: VALIDATING | PENDING | RUNNING | CANCELLING | ERROR | COMPLETED | CANCELLED

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

MetadataTransferJobSummary

The metadata transfer job summary.

Contents

arn

The metadata transfer job summary ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\w/a-zA-Z0-9_\-\.\:]+`

Required: Yes

creationDateTime

The metadata transfer job summary creation DateTime object.

Type: Timestamp

Required: Yes

metadataTransferJobId

The metadata transfer job summary Id.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

status

The metadata transfer job summary status.

Type: [MetadataTransferJobStatus](#) object

Required: Yes

updateDateTime

The metadata transfer job summary update DateTime object

Type: Timestamp

Required: Yes

progress

The metadata transfer job summary progress.

Type: [MetadataTransferJobProgress](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

OrderBy

Filter criteria that orders the return output. It can be sorted in ascending or descending order.

Contents

propertyName

The property name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: Yes

order

The set order that filters results.

Type: String

Valid Values: ASCENDING | DESCENDING

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

ParentEntityUpdateRequest

The parent entity update request.

Contents

updateType

The type of the update.

Type: String

Valid Values: UPDATE | DELETE

Required: Yes

parentEntityId

The ID of the parent entity.

Type: String

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

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9. :]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

PricingPlan

The pricing plan.

Contents

effectiveDateTime

The effective date and time of the pricing plan.

Type: Timestamp

Required: Yes

pricingMode

The pricing mode.

Type: String

Valid Values: BASIC | STANDARD | TIERED_BUNDLE

Required: Yes

updateDateTime

The set date and time for updating a pricing plan.

Type: Timestamp

Required: Yes

updateReason

The update reason for changing a pricing plan.

Type: String

Valid Values: DEFAULT | PRICING_TIER_UPDATE | ENTITY_COUNT_UPDATE | PRICING_MODE_UPDATE | OVERWRITTEN

Required: Yes

billableEntityCount

The billable entity count.

Type: Long

Required: No

bundleInformation

The pricing plan's bundle information.

Type: [BundleInformation](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertyDefinitionRequest

An object that sets information about a property.

Contents

configuration

A mapping that specifies configuration information about the property. Use this field to specify information that you read from and write to an external source.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Pattern: `.*`

Required: No

dataType

An object that contains information about the data type.

Type: [DataType](#) object

Required: No

defaultValue

An object that contains the default value.

Type: [DataValue](#) object

Required: No

displayName

A friendly name for the property.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

isExternalId

A Boolean value that specifies whether the property ID comes from an external data store.

Type: Boolean

Required: No

isRequiredInEntity

A Boolean value that specifies whether the property is required.

Type: Boolean

Required: No

isStoredExternally

A Boolean value that specifies whether the property is stored externally.

Type: Boolean

Required: No

isTimeSeries

A Boolean value that specifies whether the property consists of time series data.

Type: Boolean

Required: No

See Also

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

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

PropertyDefinitionResponse

An object that contains response data from a property definition request.

Contents

dataType

An object that contains information about the data type.

Type: [DataType](#) object

Required: Yes

isExternalId

A Boolean value that specifies whether the property ID comes from an external data store.

Type: Boolean

Required: Yes

isFinal

A Boolean value that specifies whether the property definition can be updated.

Type: Boolean

Required: Yes

isImported

A Boolean value that specifies whether the property definition is imported from an external data store.

Type: Boolean

Required: Yes

isInherited

A Boolean value that specifies whether the property definition is inherited from a parent entity.

Type: Boolean

Required: Yes

isRequiredInEntity

A Boolean value that specifies whether the property is required in an entity.

Type: Boolean

Required: Yes

isStoredExternally

A Boolean value that specifies whether the property is stored externally.

Type: Boolean

Required: Yes

isTimeSeries

A Boolean value that specifies whether the property consists of time series data.

Type: Boolean

Required: Yes

configuration

A mapping that specifies configuration information about the property.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Pattern: `.*`

Required: No

defaultValue

An object that contains the default value.

Type: [DataValue](#) object

Required: No

displayName

A friendly name for the property.

Type: String

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

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

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

PropertyFilter

An object that filters items returned by a property request.

Contents

operator

The operator associated with this property filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

propertyName

The property name associated with this property filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

value

The value associated with this property filter.

Type: [DataValue](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertyGroupRequest

Contents

groupType

The group type.

Type: String

Valid Values: TABULAR

Required: No

propertyNames

The names of properties.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: No

See Also

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

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

PropertyGroupResponse

The property group response

Contents

groupType

The group types.

Type: String

Valid Values: TABULAR

Required: Yes

isInherited

A Boolean value that specifies whether the property group is inherited from a parent entity

Type: Boolean

Required: Yes

propertyNames

The names of properties.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: Yes

See Also

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

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

- [AWS SDK for Ruby V3](#)

PropertyLatestValue

The latest value of the property.

Contents

propertyReference

An object that specifies information about a property.

Type: [EntityPropertyReference](#) object

Required: Yes

propertyValue

The value of the property.

Type: [DataValue](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertyRequest

An object that sets information about a property.

Contents

definition

An object that specifies information about a property.

Type: [PropertyDefinitionRequest](#) object

Required: No

updateType

The update type of the update property request.

Type: String

Valid Values: UPDATE | DELETE | CREATE

Required: No

value

The value of the property.

Type: [DataValue](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertyResponse

An object that contains information about a property response.

Contents

areAllPropertyValuesReturned

This flag notes whether all values of a list or map type property are returned in the API response. The maximum number of values per property returned is 50.

Type: Boolean

Required: No

definition

An object that specifies information about a property.

Type: [PropertyDefinitionResponse](#) object

Required: No

value

The value of the property.

Type: [DataValue](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertySummary

This is an object that contains the information of a property.

Contents

propertyName

This is the name of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\-0-9]+

Required: Yes

areAllPropertyValuesReturned

This flag notes whether all values of a list or map type property are returned in the API response. The maximum number of values per property returned is 50.

Type: Boolean

Required: No

definition

This is the schema for the property.

Type: [PropertyDefinitionResponse](#) object

Required: No

value

This is the value for the property.

Type: [DataValue](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PropertyValue

An object that contains information about a value for a time series property.

Contents

value

An object that specifies a value for a time series property.

Type: [DataValue](#) object

Required: Yes

time

ISO8601 DateTime of a value for a time series property.

The time for when the property value was recorded in ISO 8601 format: `YYYY-MM-DDThh:mm:ss[.SSSSSSSSSS][Z/±HH:mm]`.

- `[YYYY]`: year
- `[MM]`: month
- `[DD]`: day
- `[hh]`: hour
- `[mm]`: minute
- `[ss]`: seconds
- `[.SSSSSSSSSS]`: additional precision, where precedence is maintained. For example: `[.573123]` is equal to 573123000 nanoseconds.
- `Z`: default timezone UTC
- `± HH:mm`: time zone offset in Hours and Minutes.

Required sub-fields: `YYYY-MM-DDThh:mm:ss` and `[Z/±HH:mm]`

Type: String

Length Constraints: Minimum length of 20. Maximum length of 35.

Required: No

timestamp

This member has been deprecated.

The timestamp of a value for a time series property.

Type: Timestamp

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

PropertyValueEntry

An object that specifies information about time series property values. This object is used and consumed by the [BatchPutPropertyValues](#) action.

Contents

entityPropertyReference

An object that contains information about the entity that has the property.

Type: [EntityPropertyReference](#) object

Required: Yes

propertyValues

A list of objects that specify time series property values.

Type: Array of [PropertyValue](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

PropertyValueHistory

The history of values for a time series property.

Contents

entityPropertyReference

An object that uniquely identifies an entity property.

Type: [EntityPropertyReference](#) object

Required: Yes

values

A list of objects that contain information about the values in the history of a time series property.

Type: Array of [PropertyValue](#) objects

Required: No

See Also

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

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

Relationship

An object that specifies a relationship with another component type.

Contents

relationshipType

The type of the relationship.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .*

Required: No

targetComponentTypeId

The ID of the target component type associated with this relationship.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [a-zA-Z_\.\-0-9:]+

Required: No

See Also

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

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

RelationshipValue

A value that associates a component and an entity.

Contents

targetComponentName

The name of the target component associated with the relationship value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

targetEntityId

The ID of the target entity associated with this relationship value.

Type: String

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

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

Row

Represents a single row in the query results.

Contents

`rowData`

The data in a row of query results.

Type: Array of JSON values

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

S3DestinationConfiguration

The S3 destination configuration.

Contents

location

The S3 destination configuration location.

Type: String

Pattern: `.*(^arn:(aws)|(aws-cn)|(aws-us-gov):s3:::)([/a-zA-Z0-9_-]+$).*`

Required: Yes

See Also

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

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

S3SourceConfiguration

The S3 destination source configuration.

Contents

location

The S3 destination source configuration location.

Type: String

Pattern: `.*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([a-zA-Z0-9_-]+)\/(
[/.a-zA-Z0-9_-]+$).*`

Required: Yes

See Also

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

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

SceneError

The scene error.

Contents

code

The SceneError code.

Type: String

Valid Values: MATTERPORT_ERROR

Required: No

message

The SceneError message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

SceneSummary

An object that contains information about a scene.

Contents

arn

The ARN of the scene.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

Required: Yes

contentLocation

The relative path that specifies the location of the content definition file.

Type: String

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

Pattern: `[sS]3://[A-Za-z0-9._/-]+`

Required: Yes

creationDateTime

The date and time when the scene was created.

Type: Timestamp

Required: Yes

sceneId

The ID of the scene.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

Required: Yes

description

The scene description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

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

SourceConfiguration

The source configuration.

Contents

type

The source configuration type.

Type: String

Valid Values: `s3` | `iotsitewise` | `iottwinmaker`

Required: Yes

iotSiteWiseConfiguration

The source configuration IoT SiteWise configuration.

Type: [iotSiteWiseSourceConfiguration](#) object

Required: No

iotTwinMakerConfiguration

The source configuration IoT TwinMaker configuration.

Type: [iotTwinMakerSourceConfiguration](#) object

Required: No

s3Configuration

The source configuration S3 configuration.

Type: [s3SourceConfiguration](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Status

An object that represents the status of an entity, component, component type, or workspace.

Contents

error

The error message.

Type: [ErrorDetails](#) object

Required: No

state

The current state of the entity, component, component type, or workspace.

Type: String

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

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

SyncJobStatus

The SyncJob status.

Contents

error

The SyncJob error.

Type: [ErrorDetails](#) object

Required: No

state

The SyncJob status state.

Type: String

Valid Values: CREATING | INITIALIZING | ACTIVE | DELETING | ERROR

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

SyncJobSummary

The SyncJob summary.

Contents

arn

The SyncJob summary ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

Required: No

creationDateTime

The creation date and time.

Type: Timestamp

Required: No

status

The SyncJob summaries status.

Type: [SyncJobStatus](#) object

Required: No

syncSource

The sync source.

Type: String

Pattern: `[a-zA-Z_0-9]+`

Required: No

updateDateTime

The update date and time.

Type: Timestamp

Required: No

workspaceId

The ID of the workspace that contains the sync job.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

See Also

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

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

SyncResourceFilter

The sync resource filter.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

externalId

The external ID.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceId

The sync resource filter resource ID.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceType

The sync resource filter resource type

Type: String

Valid Values: ENTITY | COMPONENT_TYPE

Required: No

state

The sync resource filter's state.

Type: String

Valid Values: INITIALIZING | PROCESSING | DELETED | IN_SYNC | ERROR

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

SyncResourceStatus

The sync resource status.

Contents

error

The status error.

Type: [ErrorDetails](#) object

Required: No

state

The sync resource status state.

Type: String

Valid Values: INITIALIZING | PROCESSING | DELETED | IN_SYNC | ERROR

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

SyncResourceSummary

The sync resource summary.

Contents

externalId

The external ID.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceId

The resource ID.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceType

The resource type.

Type: String

Valid Values: ENTITY | COMPONENT_TYPE

Required: No

status

The sync resource summary status.

Type: [SyncResourceStatus](#) object

Required: No

updateDateTime

The update date and time.

Type: Timestamp

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

TabularConditions

The tabular conditions.

Contents

orderBy

Filter criteria that orders the output. It can be sorted in ascending or descending order.

Type: Array of [OrderBy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

propertyFilters

You can filter the request using various logical operators and a key-value format. For example:

```
{"key": "serverType", "value": "webServer"}
```

Type: Array of [PropertyFilter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

WorkspaceSummary

An object that contains information about a workspace.

Contents

arn

The ARN of the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\a-zA-Z0-9_\-\.\:]+`

Required: Yes

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

Required: Yes

updateDateTime

The date and time when the workspace was last updated.

Type: Timestamp

Required: Yes

workspaceId

The ID of the workspace.

Type: String

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

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

description

The description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*

Required: No

linkedServices

A list of services that are linked to the workspace.

Type: Array of strings

Pattern: [a-zA-Z_0-9]+

Required: No

See Also

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

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

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400