



API Reference

# Amazon IoT TwinMaker



API Version 2021-11-29

# Amazon IoT TwinMaker: API Reference

# 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
GetPropertyValues .....	99
Request Syntax .....	99
URI Request Parameters .....	100
Request Body .....	100
Response Syntax .....	103
Response Elements .....	104
Errors .....	105
See Also .....	106
GetPropertyValuesHistory .....	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

<b>Data Types .....</b>	<b>213</b>
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
IoTSiteWiseSourceConfiguration .....	267
Contents .....	267
See Also .....	267
IoTSiteWiseSourceConfigurationFilter .....	268
Contents .....	268
See Also .....	268
IoTTwinMakerDestinationConfiguration .....	269
Contents .....	269
See Also .....	269
IoTTwinMakerSourceConfiguration .....	270
Contents .....	270
See Also .....	270
IoTTwinMakerSourceConfigurationFilter .....	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
<b>Common Parameters .....</b>	<b>331</b>
<b>Common Errors .....</b>	<b>334</b>

# Welcome

Amazon IoT TwinMaker is a service with which you can build operational digital twins of physical systems. Amazon 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 July 3, 2025.

# 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.

### [workspaceld](#)

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 Errors](#).

### **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 Amazon SDKs, see the following:

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

# 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-zA-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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **ConflictException**

A conflict occurred.

HTTP Status Code: 409

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# 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"
    }
  },
  "descriptionstring",
  "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"
},
"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,
"isRequiredExternally": 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-zA-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 Errors](#).

### **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 Amazon SDKs, see the following:

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

# 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": {
                "targetComponentName": "string",
                "targetEntityId": "string"
              }
            }
          }
        }
      }
    }
  }
}
```

```
        "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"
    }
}
}
},
"compositeComponents": {
    "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": {
            "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: \\$R00T|^[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-zA-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 Errors](#).

### **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 Amazon SDKs, see the following:

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

# 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-zA-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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **ConflictException**

A conflict occurred.

HTTP Status Code: 409

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# CreateScene

Creates a scene.

## Request Syntax

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

{
  "capabilitiescontentLocationdescriptionsceneIdsceneMetadatatags
```

## 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

{
  "arncreationDateTime
```

## 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-zA-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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### ConflictException

A conflict occurred.

HTTP Status Code: 409

## **InternalServerException**

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 Amazon SDKs, see the following:

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



# 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 syncSoource 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-zA-Z0-9-]+:[0-9]{12}:[\\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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

## ConflictException

A conflict occurred.

HTTP Status Code: 409

## InternalServerException

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 Amazon SDKs, see the following:

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

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

# CreateWorkspace

Creates a workplace.

## Request Syntax

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

{
  "descriptionroles3Locationtags
```

## 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: .<sup>\*</sup>

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/.<sup>\*</sup>

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\_-]+\$).<sup>\*</sup>

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

{
  "arncreationDateTime
```

## 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-zA-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 Errors](#).

## AccessDeniedException

Access is denied.

HTTP Status Code: 403

## ConflictException

A conflict occurred.

HTTP Status Code: 409

## InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# 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 Errors](#).

### **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 Amazon SDKs, see the following:

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

# DeleteScene

Deletes a scene.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### scenId

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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)

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

# 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# ExecuteQuery

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

## Note

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

## Request Syntax

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

{
    "maxResultsnextTokenqueryStatementworkspaceId
```

## 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"
    }
  ]
}
```

```
        "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 Errors](#).

## AccessDeniedException

Access is denied.

HTTP Status Code: 403

## InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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-zA-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]+

### [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\_\-\d]+

### [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\_\-\d]\*[a-zA-Z0-9]+

## Errors

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

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

## **InternalServerException**

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 Amazon SDKs, see the following:

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



# 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\_\-\.\:]\*[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
Content-type: application/json

{
```

```
"areAllComponentsReturned": boolean,  
"arnstring",  
"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": [  
                            {  
                                "value": "string",  
                                "order": integer  
                            }  
                        ]  
                    }  
                }  
            }  
        }  
    }  
}
```

```
        "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-zA-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: \\$R00T|[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 Errors](#).

### 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 Amazon SDKs, see the following:

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

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

# 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-zA-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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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 Errors](#).

### **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 Amazon SDKs, see the following:

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

# GetPropertyValues

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.

### [workspaceld](#)

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\_\-\@-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 Errors](#).

### **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

### **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 Amazon SDKs, see the following:

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

# GetPropertyValuesHistory

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\_\-\d/]+

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\_\.\-\d:]+

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

{
  "nextTokenpropertyValuesentityPropertyReferencecomponentNamecomponentPathentityIdexternalIdPropertypropertyNamevaluestimetimestampvaluebooleanValuedoubleValueexpressionintegerValuelistValueDataValue"
            ],
            "longValuemapValueDataValue"
            },
            "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 Errors](#).

### **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

## InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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-zA-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

### workspaceld

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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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-zA-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

### [workspaceld](#)

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 Errors](#).

## AccessDeniedException

Access is denied.

HTTP Status Code: 403

## InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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-zA-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

{
    "arncreationDateTimedescriptionlinkedServicesroles3Location
```

```
"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-zA-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 Errors](#).

## **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 Amazon SDKs, see the following:

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

# 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

{
  "componentPathmaxResultsnextToken
```

## 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-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.

## [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\_\-\d/]+

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": [
    {
      "id": "string",
      "name": "string",
      "type": "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"  
},  
...  
,  
"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 Errors](#).

### 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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)

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

# ListComponentTypes

Lists all component types in a workspace.

## Request Syntax

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

{
  "filtersmaxResultsnumber,
  "nextTokenstring"
}
```

## 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": [
    {
      "arncomponentTypeIdcomponentTypeNamecreationDateTimedescriptionstatuserrorcodemessage
```

```
        "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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

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

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

# ListEntities

Lists all entities in a workspace.

## Request Syntax

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

{
  "filtersmaxResultsnumber,
  "nextTokenstring"
}
```

## 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 Errors](#).

## InternalServerException

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 Amazon SDKs, see the following:

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

# ListMetadataTransferJobs

Lists the metadata transfer jobs.

## Request Syntax

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

{
  "destinationTypefiltersmaxResultsnextTokensourceType
```

## 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": [
    {
      "arnstring",
```

```
  "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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

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

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

# 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# ListScenes

Lists all scenes in a workspace.

## Request Syntax

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

{
  "maxResultsnumber,
  "nextTokenstring"
}
```

## 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 Errors](#).

### **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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)

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

# ListSyncJobs

List all SyncJobs.

## Request Syntax

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

{
  "maxResultsnumber,
  "nextTokenstring"
}
```

## 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

{
  "nextTokensyncJobSummariesarncreationDateTimestatuserrorcodemessagestatesyncSourceupdateDateTimeworkspaceId
```

## 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **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 Amazon SDKs, see the following:

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

# ListSyncResources

Lists the sync resources.

## Request Syntax

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

```
{  
    "filters        { ... }  
    ],  
    "maxResultsnumber,  
    "nextTokenstring"  
}
```

## 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

{
  "nextTokensyncResourcesexternalIdresourceIdresourceTypestatuserrorcodemessagestateupdateDateTime
```

## 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 Errors](#).

### AccessDeniedException

Access is denied.

HTTP Status Code: 403

### InternalServerException

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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)

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

# 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-zA-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 Errors](#).

### **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 Amazon SDKs, see the following:

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

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

# ListWorkspaces

Retrieves information about workspaces in the current account.

## Request Syntax

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

{
    "maxResultsnumber,
    "nextTokenstring"
}
```

## 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 Errors](#).

### **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 Amazon SDKs, see the following:

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

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

# 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-zA-Z0-9-]+:[0-9]{12}:[\wA-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 Errors](#).

### 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 Amazon SDKs, see the following:

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

# 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 Errors](#).

### 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 Amazon SDKs, see the following:

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

- [Amazon SDK for Ruby V3](#)

# 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,  
                        "stringValue": "string"  
                    }  
                ]  
            }  
        }  
    }  
}
```

```
        "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
    }
},
"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-zA-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

## workspaceld

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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# 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",  
                    "targetEntityName": "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"
                            }
                        ]
                    }
                }
            }
        }
    }
}
```

```
        "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,
"isNewTimeSeries": 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\_\-\.\:]\*[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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **ConflictException**

A conflict occurred.

HTTP Status Code: 409

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# UpdatePricingPlan

Update the pricing plan.

## Request Syntax

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

{
    "bundleNamespricingMode
```

## 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)

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

# UpdateScene

Updates a scene.

## Request Syntax

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

{
  "capabilitiesstring" ],
  "contentLocationstring",
  "descriptionstring",
  "sceneMetadatastring": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### scenId

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 Errors](#).

### [AccessDeniedException](#)

Access is denied.

HTTP Status Code: 403

## InternalServerException

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 Amazon SDKs, see the following:

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



# UpdateWorkspace

Updates a workspace.

## Request Syntax

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

{
  "descriptionroles3Location
```

## 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 Errors](#).

### **AccessDeniedException**

Access is denied.

HTTP Status Code: 403

### **InternalServerException**

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 Amazon SDKs, see the following:

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

# Data Types

The Amazon IoT 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](#)
- [IoTSiteWiseSourceConfiguration](#)
- [IoTSiteWiseSourceConfigurationFilter](#)
- [IoTTwinMakerDestinationConfiguration](#)
- [IoTTwinMakerSourceConfiguration](#)
- [IoTTwinMakerSourceConfigurationFilter](#)
- [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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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\_\-\@\-\d]+

Required: Yes

## See Also

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

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

- [Amazon SDK for Ruby V3](#)

# 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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\_\-\d]+

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\_\.\-\d:]+

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\_\-\d]+

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\_\-\d]+

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\_\-\d]+

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\d]+

Required: No

## See Also

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

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

# 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\_\-\d]+

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\_\.\-\d:]+

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-Z0-9-]+:[0-9]{12}:[\w-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:]<sup>+</sup>

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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:]<sup>+</sup>

Required: No

## See Also

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

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

# 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:]<sup>+</sup>

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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: .<sup>\*</sup>

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 Amazon SDKs, see the following:

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

# DataConnector

The data connector.

## Contents

### isNative

A Boolean value that specifies whether the data connector is native to Amazon 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 Amazon SDKs, see the following:

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

# DataType

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon IoT TwinMaker configuration.

Type: [IoT TwinMaker Destination Configuration](#) object

Required: No

### s3Configuration

The metadata transfer job S3 configuration. [need to add S3 entity]

Type: [S3 Destination Configuration](#) object

Required: No

## See Also

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

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

# 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\_\-\d]+

Required: Yes

### componentName

The name of the component.

Type: String

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

Pattern: [a-zA-Z\_\-\d]+

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\_\-\d/]+

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-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-Z0-9_\-.:]*[\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\_\-\-\-\.\:\:]^\*[a-zA-Z0-9]+

Required: No

### **See Also**

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

- Amazon SDK for C++
  - Amazon SDK for Java V2
  - Amazon SDK for Ruby V3

# 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 Amazon SDKs, see the following:

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

# FilterByAsset

Filter by asset. You can include multiple filters when you export your Amazon IoT SiteWise content. See [Export metadata examples](#) in the Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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:]<sup>+</sup>

Required: Yes

## See Also

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

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

# 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\_\-\-\d\.\:]\*[a-zA-Z0-9]+

Required: Yes

## See Also

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

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

# 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\_\-\@-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 Amazon SDKs, see the following:

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

- [Amazon 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\_\-\d]+

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

# IoTSiteWiseSourceConfiguration

The metadata transfer job Amazon IoT SiteWise source configuration.

## Contents

### filters

The Amazon IoT SiteWise source configuration filters.

Type: Array of [IoTSiteWiseSourceConfigurationFilter](#) objects

Required: No

## See Also

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

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

# IoTSiteWiseSourceConfigurationFilter

The Amazon 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 Amazon SDKs, see the following:

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

# IotTwinMakerDestinationConfiguration

The metadata transfer job Amazon 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-zA-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 Amazon SDKs, see the following:

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

# IotTwinMakerSourceConfiguration

The metadata transfer job Amazon 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)):iot:twins:[a-zA-Z0-9-]+:[0-9]{12}:[\wA-Z0-9_\-\.\:]+`

Required: Yes

### **filters**

The metadata transfer job Amazon IoT TwinMaker source configuration filters.

Type: Array of [IotTwinMakerSourceConfigurationFilter](#) objects

Required: No

## See Also

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

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

# IotTwinMakerSourceConfigurationFilter

The metadata transfer job Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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\_-]\*|[a-zA-Z0-9]+

Required: No

## See Also

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

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

# 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

#### **workspaceld**

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 Amazon SDKs, see the following:

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

- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-Z0-9-]+:[0-9]{12}:[\\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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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\_\-\d]+

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

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

- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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[.SSSSSSSS][Z/±HH:mm]`.

- `[YYYY]`: year
- `[MM]`: month
- `[DD]`: day
- `[hh]`: hour
- `[mm]`: minute
- `[ss]`: seconds
- `[.SSSSSSSS]`: additional precision, where precedence is maintained. For example: `[.573123]` is equal to 573123000 nanoseconds.
- Z: default timezone UTC
- $\pm HH:mm$ : 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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)):iot:twins:[a-zA-Z0-9-]+:[0-9]{12}:[\w+\.\-]+

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

## sceneld

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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: [IoT SiteWise Source Configuration](#) object

Required: No

### iotTwinMakerConfiguration

The source configuration IoT TwinMaker configuration.

Type: [IoT TwinMaker Source Configuration](#) object

Required: No

### s3Configuration

The source configuration S3 configuration.

Type: [S3 Source Configuration](#) object

Required: No

## See Also

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

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

# 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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-zA-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 Amazon SDKs, see the following:

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing Amazon API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request").

The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed Amazon API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

#### X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

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

Type: string

Required: Conditional

#### X-Amz-Security-Token

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

Condition: If you're using temporary security credentials from Amazon STS, you must include the security token.

Type: string

Required: Conditional

#### X-Amz-Signature

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

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

Type: string

Required: Conditional

### X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed Amazon API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to Amazon standards.

HTTP Status Code: 403

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

The X.509 certificate or Amazon access key ID provided does not exist in our records.

HTTP Status Code: 403

## **UnknownOperationException**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

## **ValidationException**

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

HTTP Status Code: 400