API Reference

AWS IoT TwinMaker

API Version 2021-11-29

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AWS IoT TwinMaker: API Reference

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Welcome

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

This document was last published on April 23, 2024.

Actions

The following actions are supported:

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

- ListProperties
- ListScenes
- ListSyncJobs
- ListSyncResources
- ListTagsForResource
- ListWorkspaces
- TagResource
- UntagResource
- UpdateComponentType
- UpdateEntity
- UpdatePricingPlan
- UpdateScene
- UpdateWorkspace

BatchPutPropertyValues

Sets values for multiple time series properties.

Request Syntax

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

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

```
            }
         ]
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

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

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

entries

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

Type: Array of PropertyValueEntry objects

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

Required: Yes

Response Syntax

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

{
   "errorEntries": [
```

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

```
}
```

Response Elements

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

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

errorEntries

Entries that caused errors in the batch put operation.

Type: Array of BatchPutPropertyErrorEntry objects

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

Errors

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

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CancelMetadataTransferJob

Cancels the metadata transfer job.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

metadataTransferJobId

The metadata transfer job Id.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

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

Response Elements

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

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

arn

The metadata transfer job ARN.

Type: String

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

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

metadataTransferJobId

The metadata transfer job Id.

Type: String

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

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

progress

The metadata transfer job's progress.

Type: MetadataTransferJobProgress object

status

The metadata transfer job's status.

Type: MetadataTransferJobStatus object

updateDateTime

Used to update the DateTime property.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
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- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateComponentType

Creates a component type.

Request Syntax

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

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

```
                "listValue": [
                   "DataValue"
                ],
                "longValue": number,
                "mapValue": {
                   "string" : "DataValue"
                },
                "relationshipValue": {
                   "targetComponentName": "string",
                   "targetEntityId": "string"
                },
                "stringValue": "string"
             }
          ],
          "nestedType": "DataType",
          "relationship": {
             "relationshipType": "string",
             "targetComponentTypeId": "string"
          },
          "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" ]
         }
      },
      "tags": {
         "string" : "string"
      }
}
```

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentTypeName

A friendly name for the component type.

Type: String

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

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

Required: No

compositeComponentTypes

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

Type: String to CompositeComponentTypeRequest object map

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

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

Required: No

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

extendsFrom

Specifies the parent component type to extend.

Type: Array of strings

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

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

Required: No

functions

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

Type: String to FunctionRequest object map

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

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

Required: No

isSingleton

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

Type: Boolean

Required: No

propertyDefinitions

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

Type: String to PropertyDefinitionRequest object map

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

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

Required: No

propertyGroups

Type: String to PropertyGroupRequest object map

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

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

Required: No

tags

Metadata that you can use to manage the component type.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

arn

The ARN of the component type.

Type: String

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

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

creationDateTime

The date and time when the entity was created.

Type: Timestamp

state

The current state of the component type.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS 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": {
```

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

Required: No

tags

Metadata that you can use to manage the entity.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

arn

The ARN of the entity.

Type: String

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

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

creationDateTime

The date and time when the entity was created.

Type: Timestamp

entityId

The ID of the entity.

Type: String

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

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

state

The current state of the entity.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS 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-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 AWS SDKs, see the following:

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- AWS SDK for .NET
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateScene

Creates a scene.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the scene.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

capabilities

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

Type: Array of strings

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

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

Pattern: `.*`

Required: No

contentLocation

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

Type: String

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

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

Required: Yes

description

The description for this scene.

Type: String

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

Pattern: `.*`

Required: No

sceneId

The ID of the scene.

Type: String

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

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

Required: Yes

sceneMetadata

The request metadata.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

tags

Metadata that you can use to manage the scene.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

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

Response Elements

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

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

arn

The ARN of the scene.

Type: String

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

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

creationDateTime

The date and time when the scene was created.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateSyncJob

This action creates a SyncJob.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

> **Note**
>
> Currently the only supported 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-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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

CreateWorkspace

Creates a workplace.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the workspace.

Type: String

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

Pattern: `.*`

Required: No

role

The ARN of the execution role associated with the workspace.

Type: String

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

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

Required: No

s3Location

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

Type: String

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

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

Required: No

tags

Metadata that you can use to manage the workspace

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

arn

The ARN of the workspace.

Type: String

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

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

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteComponentType

Deletes a component type.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type to delete.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "state": "string"
}
```

Response Elements

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

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

state

The current state of the component type to be deleted.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteEntity

Deletes an entity.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity to delete.

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

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

Required: Yes

isRecursive

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

workspaceId

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

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "state": "string"
}
```

Response Elements

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

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

state

The current state of the deleted entity.

Type: String

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

Errors

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

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteScene

Deletes a scene.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene to delete.

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

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

Required: Yes

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSyncJob

Delete the SyncJob.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

> **Note**
>
> Currently the only supported syncSource is `SITEWISE` .

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

Required: Yes

workspaceId

The workspace ID.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "state": "string"
}
```

Response Elements

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

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

state

The SyncJob response state.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteWorkspace

Deletes a workspace.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace to delete.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "message": "string"
}
```

Response Elements

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

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

message

The string that specifies the delete result for the workspace.

Type: String

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

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ExecuteQuery

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

> **Note**
>
> The ExecuteQuery action only works with AWS Java SDK2. ExecuteQuery will not work with any AWS Java SDK version < 2.x.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

queryStatement

The query statement.

Type: String

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

Pattern: `[\s\S]+`

Required: Yes

workspaceId

The ID of the workspace.

Type: String

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

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

Required: Yes

Response Syntax

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

{
   "columnDescriptions": [
      {
```

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

Response Elements

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

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

columnDescriptions

A list of ColumnDescription objects.

Type: Array of ColumnDescription objects

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

rows

Represents a single row in the query results.

Type: Array of Row objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetComponentType

Retrieves information about a component type.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

componentTypeId

The ID of the component type.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the component type.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

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

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

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

Response Elements

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

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

arn

The ARN of the component type.

Type: String

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

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

componentTypeId

The ID of the component type.

Type: String

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

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

componentTypeName

The component type name.

Type: String

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

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

compositeComponentTypes

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

Type: String to CompositeComponentTypeResponse object map

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

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

creationDateTime

The date and time when the component type was created.

Type: Timestamp

description

The description of the component type.

Type: String

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

Pattern: `.*`

extendsFrom

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

Type: Array of strings

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

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

functions

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

Type: String to FunctionResponse object map

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

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

isAbstract

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

Type: Boolean

isSchemaInitialized

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

Type: Boolean

isSingleton

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

Type: Boolean

propertyDefinitions

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

Type: String to PropertyDefinitionResponse object map

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

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

propertyGroups

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

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

Type: String to PropertyGroupResponse object map

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

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

status

The current status of the component type.

Type: Status object

syncSource

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

Type: String

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

updateDateTime

The date and time when the component was last updated.

Type: Timestamp

workspaceId

The ID of the workspace that contains the component type.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetEntity

Retrieves information about an entity.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity.

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

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

Required: Yes

workspaceId

The ID of the workspace.

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

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

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

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

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

Response Elements

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

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

areAllComponentsReturned

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

Type: Boolean

arn

The ARN of the entity.

Type: String

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

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

components

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

Type: String to ComponentResponse object map

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

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

creationDateTime

The date and time when the entity was created.

Type: Timestamp

description

The description of the entity.

Type: String

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

Pattern: `.*`

entityId

The ID of the entity.

Type: String

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

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

entityName

The name of the entity.

Type: String

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

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

hasChildEntities

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

Type: Boolean

parentEntityId

The ID of the parent entity for this entity.

Type: String

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

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

status

The current status of the entity.

Type: Status object

syncSource

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

Type: String

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

updateDateTime

The date and time when the entity was last updated.

Type: Timestamp

workspaceId

The ID of the workspace.

Type: String

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

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

Errors

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

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

GetMetadataTransferJob

Retrieves information about a metadata transfer job.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

metadataTransferJobId

The metadata transfer job Id.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

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

Response Elements

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

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

arn

The metadata transfer job ARN.

Type: String

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

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

creationDateTime

The metadata transfer job's creation DateTime property.

Type: Timestamp

description

The metadata transfer job description.

Type: String

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

Pattern: `.*`

destination

The metadata transfer job's destination.

Type: DestinationConfiguration object

metadataTransferJobId

The metadata transfer job Id.

Type: String

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

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

metadataTransferJobRole

The metadata transfer job's role.

Type: String

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

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

progress

The metadata transfer job's progress.

Type: MetadataTransferJobProgress object

reportUrl

The metadata transfer job's report URL.

Type: String

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

Pattern: `.*`

sources

The metadata transfer job's sources.

Type: Array of SourceConfiguration objects

Array Members: Fixed number of 1 item.

status

The metadata transfer job's status.

Type: MetadataTransferJobStatus object

updateDateTime

The metadata transfer job's update DateTime property.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

GetPricingPlan

Gets the pricing plan.

Request Syntax

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

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

```
        "updateDateTime": number,
        "updateReason": "string"
    }
}
```

Response Elements

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

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

currentPricingPlan

The chosen pricing plan for the current billing cycle.

Type: PricingPlan object

pendingPricingPlan

The pending pricing plan.

Type: PricingPlan object

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPropertyValue

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

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

Request Syntax

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

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace whose values the operation returns.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

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

Type: String

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

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

Required: No

componentPath

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

Type: String

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

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

Required: No

componentTypeId

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

Type: String

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

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

Required: No

entityId

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

Type: String

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

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

Required: No

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

propertyGroupName

The property group name.

Type: String

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

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

Required: No

selectedProperties

The properties whose values the operation returns.

Type: Array of strings

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

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

Pattern: `.*`

Required: Yes

tabularConditions

The tabular conditions.

Type: TabularConditions object

Required: No

Response Syntax

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

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

propertyValues

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

Type: String to PropertyLatestValue object map

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

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

tabularPropertyValues

A table of property values.

Type: Array of arrays of string to DataValue object maps

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPropertyValueHistory

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

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

Request Syntax

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

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

The name of the component.

Type: String

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

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

Required: No

componentPath

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

Type: String

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

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

Required: No

componentTypeId

The ID of the component type.

Type: String

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

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

Required: No

endDateTime

This parameter has been deprecated.

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

Type: Timestamp

Required: No

endTime

The ISO8601 DateTime of the latest property value to return.

For more information about the ISO8601 DateTime format, see the data type PropertyValue.

Type: String

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

Required: No

entityId

The ID of the entity.

Type: String

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

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

Required: No

interpolation

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

Type: InterpolationParameters object

Required: No

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

orderByTime

The time direction to use in the result order.

Type: String

Valid Values: `ASCENDING | DESCENDING`

Required: No

propertyFilters

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

Type: Array of PropertyFilter objects

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

Required: No

selectedProperties

A list of properties whose value histories the request retrieves.

Type: Array of strings

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

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

Pattern: `.*`

Required: Yes

startDateTime

This parameter has been deprecated.

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

Type: Timestamp

Required: No

startTime

The ISO8601 DateTime of the earliest property value to return.

For more information about the ISO8601 DateTime format, see the data type PropertyValue.

Type: String

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

Required: No

Response Syntax

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

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

propertyValues

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

Type: Array of PropertyValueHistory objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetScene

Retrieves information about a scene.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the scene.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

arn

The ARN of the scene.

Type: String

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

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

capabilities

A list of capabilities that the scene uses to render.

Type: Array of strings

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

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

Pattern: `.*`

contentLocation

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

Type: String

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

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

creationDateTime

The date and time when the scene was created.

Type: Timestamp

description

The description of the scene.

Type: String

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

Pattern: `.*`

error

The SceneResponse error.

Type: SceneError object

generatedSceneMetadata

The generated scene metadata.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

sceneId

The ID of the scene.

Type: String

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

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

sceneMetadata

The response metadata.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

workspaceId

The ID of the workspace that contains the scene.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

GetSyncJob

Gets the SyncJob.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

> **Note**
>
> Currently the only supported syncSource is `SITEWISE` .

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

Required: Yes

workspaceId

The workspace ID.

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

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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

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

Response Elements

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

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

arn

The sync job ARN.

Type: String

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

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

creationDateTime

The creation date and time.

Type: Timestamp

status

The SyncJob response status.

Type: SyncJobStatus object

syncRole

The sync IAM role.

Type: String

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

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

syncSource

The sync source.

> **Note**
>
> Currently the only supported syncSource is `SITEWISE`.

Type: String

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

updateDateTime

The update date and time.

Type: Timestamp

workspaceId

The ID of the workspace that contains the sync job.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetWorkspace

Retrieves information about a workspace.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

```
    "updateDateTime": number,
    "workspaceId": "string"
}
```

Response Elements

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

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

arn

The ARN of the workspace.

Type: String

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

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

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

description

The description of the workspace.

Type: String

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

Pattern: `.*`

linkedServices

A list of services that are linked to the workspace.

Type: Array of strings

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

role

The ARN of the execution role associated with the workspace.

Type: String

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

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

s3Location

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

Type: String

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

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

updateDateTime

The date and time when the workspace was last updated.

Type: Timestamp

workspaceId

The ID of the workspace.

Type: String

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

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

Errors

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

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListComponents

This API lists the components of an entity.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

entityId

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

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

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

Required: Yes

workspaceId

The workspace ID.

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

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

Required: No

maxResults

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

{
   "componentSummaries": [
      {
```

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

Response Elements

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

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

componentSummaries

A list of objects that contain information about the components.

Type: Array of ComponentSummary objects

nextToken

The string that specifies the next page of component results.

Type: String

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

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListComponentTypes

Lists all component types in a workspace.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

Type: Array of ListComponentTypesFilter objects

Required: No

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

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

Response Elements

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

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

componentTypeSummaries

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

Type: Array of ComponentTypeSummary objects

maxResults

Specifies the maximum number of results to display.

Type: Integer

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

workspaceId

The ID of the workspace.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListEntities

Lists all entities in a workspace.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

> **Note**
>
> Only one object is accepted as a valid input.

Type: Array of ListEntitiesFilter objects

Required: No

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

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

Response Elements

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

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

entitySummaries

A list of objects that contain information about the entities.

Type: Array of EntitySummary objects

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListMetadataTransferJobs

Lists the metadata transfer jobs.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationType

The metadata transfer job's destination type.

Type: String

Valid Values: `s3 | iotsitewise | iottwinmaker`

Required: Yes

filters

An object that filters metadata transfer jobs.

Type: Array of ListMetadataTransferJobsFilter objects

Required: No

maxResults

The maximum number of results to return at one time.

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

sourceType

The metadata transfer job's source type.

Type: String

Valid Values: `s3 | iotsitewise | iottwinmaker`

Required: Yes

Response Syntax

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

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

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

Response Elements

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

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

metadataTransferJobSummaries

The metadata transfer job summaries.

Type: Array of MetadataTransferJobSummary objects

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

ListProperties

This API lists the properties of a component.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The workspace ID.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentName

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

Type: String

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

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

Required: No

componentPath

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

Type: String

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

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

Required: No

entityId

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

Type: String

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

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

Required: Yes

maxResults

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of property results.

Type: String

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

Pattern: `.*`

propertySummaries

A list of objects that contain information about the properties.

Type: Array of PropertySummary objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListScenes

Lists all scenes in a workspace.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the scenes.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

Specifies the maximum number of results to display.

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

sceneSummaries

A list of objects that contain information about the scenes.

Type: Array of SceneSummary objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSyncJobs

List all SyncJobs.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace that contains the sync job.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

syncJobSummaries

The listed SyncJob summaries.

Type: Array of SyncJobSummary objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListSyncResources

Lists the sync resources.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

syncSource

The sync source.

> **Note**
>
> Currently the only supported syncSource is `SITEWISE` .

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

Required: Yes

workspaceId

The ID of the workspace that contains the sync job.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

filters

A list of objects that filter the request.

The following filter combinations are supported:

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

Type: Array of SyncResourceFilter objects

Required: No

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

syncResources

The sync resources.

Type: Array of SyncResourceSummary objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

Lists all tags associated with a resource.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

resourceARN

The ARN of the resource.

Type: String

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

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

Required: Yes

Response Syntax

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

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

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

tags

Metadata that you can use to manage a resource.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

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

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListWorkspaces

Retrieves information about workspaces in the current account.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

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

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

Type: Integer

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

Required: No

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "workspaceSummaries": [
      {
         "arn": "string",
         "creationDateTime": number,
         "description": "string",
         "linkedServices": [ "string" ],
         "updateDateTime": number,
         "workspaceId": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The string that specifies the next page of results.

Type: String

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

Pattern: `.*`

workspaceSummaries

A list of objects that contain information about the workspaces.

Type: Array of WorkspaceSummary objects

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

TagResource

Adds tags to a resource.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceARN

The ARN of the resource.

Type: String

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

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

Required: Yes

tags

Metadata to add to this resource.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Removes tags from a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceARN

The ARN of the resource.

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

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

Required: Yes

tagKeys

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

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

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateComponentType

Updates information in a component type.

Request Syntax

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

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

```
                "listValue": [
                   "DataValue"
                ],
                "longValue": number,
                "mapValue": {
                   "string" : "DataValue"
                },
                "relationshipValue": {
                   "targetComponentName": "string",
                   "targetEntityId": "string"
                },
                "stringValue": "string"
             }
          ],
          "nestedType": "DataType",
          "relationship": {
             "relationshipType": "string",
             "targetComponentTypeId": "string"
          },
          "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-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

componentTypeId

The ID of the component type.

Type: String

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

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

state

The current state of the component type.

Type: String

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

workspaceId

The ID of the workspace that contains the component type.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateEntity

Updates an entity.

Request Syntax

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

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

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

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

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

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

URI Request Parameters

The request uses the following URI parameters.

entityId

The ID of the entity.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the entity.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

componentUpdates

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

Type: String to ComponentUpdateRequest object map

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

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

Required: No

compositeComponentUpdates

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

Type: String to CompositeComponentUpdateRequest object map

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

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

Required: No

description

The description of the entity.

Type: String

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

Pattern: `.*`

Required: No

entityName

The name of the entity.

Type: String

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

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

Required: No

parentEntityUpdate

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

Type: ParentEntityUpdateRequest object

Required: No

Response Syntax

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

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

Response Elements

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

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

state

The current state of the entity update.

Type: String

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

updateDateTime

The date and time when the entity was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
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- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdatePricingPlan

Update the pricing plan.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

bundleNames

The bundle names.

Type: Array of strings

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

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

Pattern: `.*`

Required: No

pricingMode

The pricing mode.

Type: String

Valid Values: `BASIC | STANDARD | TIERED_BUNDLE`

Required: Yes

Response Syntax

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

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

Response Elements

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

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

currentPricingPlan

Update the current pricing plan.

Type: PricingPlan object

pendingPricingPlan

Update the pending pricing plan.

Type: PricingPlan object

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateScene

Updates a scene.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

sceneId

The ID of the scene.

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

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

Required: Yes

workspaceId

The ID of the workspace that contains the scene.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

capabilities

A list of capabilities that the scene uses to render.

Type: Array of strings

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

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

Pattern: `.*`

Required: No

contentLocation

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

Type: String

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

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

Required: No

description

The description of this scene.

Type: String

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

Pattern: `.*`

Required: No

sceneMetadata

The scene metadata.

Type: String to string map

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

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

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

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

Value Pattern: `.*`

Required: No

Response Syntax

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

{
   "updateDateTime": number
}
```

Response Elements

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

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

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateWorkspace

Updates a workspace.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the workspace.

Type: String

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

Pattern: `.*`

Required: No

role

The ARN of the execution role associated with the workspace.

Type: String

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

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

Required: No

s3Location

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

Type: String

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

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

Required: No

Response Syntax

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

{
   "updateDateTime": number
}
```

Response Elements

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

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

updateDateTime

The date and time of the current update.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see Common 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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS IoT TwinMaker API contains several data types that various actions use. This section describes each data type in detail.

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

The following data types are supported:

- BatchPutPropertyError
- BatchPutPropertyErrorEntry
- BundleInformation
- ColumnDescription
- ComponentPropertyGroupRequest
- ComponentPropertyGroupResponse
- ComponentRequest
- ComponentResponse
- ComponentSummary
- ComponentTypeSummary
- ComponentUpdateRequest
- CompositeComponentRequest
- CompositeComponentTypeRequest
- CompositeComponentTypeResponse
- CompositeComponentUpdateRequest
- DataConnector
- DataType
- DataValue
- DestinationConfiguration
- EntityPropertyReference

- EntitySummary
- ErrorDetails
- FilterByAsset
- FilterByAssetModel
- FilterByComponentType
- FilterByEntity
- FunctionRequest
- FunctionResponse
- InterpolationParameters
- 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 AWS SDKs, see the following:

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

BatchPutPropertyErrorEntry

An object that contains information about errors returned by the `BatchPutProperty` action.

Contents

errors

A list of objects that contain information about errors returned by the `BatchPutProperty` action.

Type: Array of BatchPutPropertyError objects

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

Required: Yes

See Also

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

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

BundleInformation

Information about the pricing bundle.

Contents

bundleNames

The bundle names.

Type: Array of strings

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

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

Pattern: `.*`

Required: Yes

pricingTier

The pricing tier.

Type: String

Valid Values: `TIER_1 | TIER_2 | TIER_3 | TIER_4`

Required: No

See Also

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

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

ColumnDescription

A description of the column in the query results.

Contents

name

The name of the column description.

Type: String

Pattern: `.*`

Required: No

type

The type of the column description.

Type: String

Valid Values: `NODE | EDGE | VALUE`

Required: No

See Also

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

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

ComponentPropertyGroupRequest

The component property group request.

Contents

groupType

The group type.

Type: String

Valid Values: `TABULAR`

Required: No

propertyNames

The property names.

Type: Array of strings

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

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

Required: No

updateType

The update type.

Type: String

Valid Values: `UPDATE | DELETE | CREATE`

Required: No

See Also

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

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

ComponentPropertyGroupResponse

The component property group response.

Contents

groupType

The group type.

Type: String

Valid Values: TABULAR

Required: Yes

isInherited

A Boolean value that specifies whether the property group is inherited from a parent entity

Type: Boolean

Required: Yes

propertyNames

The names of properties

Type: Array of strings

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

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ComponentRequest

An object that sets information about a component type create or update request.

Contents

componentTypeId

The ID of the component type.

Type: String

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

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

Required: No

description

The description of the component request.

Type: String

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

Pattern: `.*`

Required: No

properties

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

Type: String to PropertyRequest object map

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

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

Required: No

propertyGroups

The property groups.

Type: String to ComponentPropertyGroupRequest object map

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

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

Required: No

See Also

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

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

ComponentResponse

An object that returns information about a component type create or update request.

Contents

areAllCompositeComponentsReturned

This flag notes whether all `compositeComponents` are returned in the API response.

Type: Boolean

Required: No

areAllPropertiesReturned

This flag notes whether all properties of the component are returned in the API response. The maximum number of properties returned is 800.

Type: Boolean

Required: No

componentName

The name of the component.

Type: String

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

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

Required: No

componentTypeId

The ID of the component type.

Type: String

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

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

Required: No

compositeComponents

This lists objects that contain information about the `compositeComponents`.

Type: String to ComponentSummary object map

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

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

Required: No

definedIn

The name of the property definition set in the request.

Type: String

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

Pattern: `.*`

Required: No

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

properties

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

Type: String to PropertyResponse object map

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

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

Required: No

propertyGroups

The property groups.

Type: String to ComponentPropertyGroupResponse object map

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

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

Required: No

status

The status of the component type.

Type: Status object

Required: No

syncSource

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

Type: String

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

Required: No

See Also

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

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

ComponentSummary

An object that returns information about a component summary.

Contents

componentName

The name of the component.

Type: String

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

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

Required: Yes

componentTypeId

The ID of the component type.

Type: String

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

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

Required: Yes

status

The status of the component type.

Type: Status object

Required: Yes

componentPath

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

Type: String

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

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

Required: No

definedIn

The name of the property definition set in the request.

Type: String

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

Pattern: `.*`

Required: No

description

The description of the component request.

Type: String

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

Pattern: `.*`

Required: No

propertyGroups

The property groups.

Type: String to ComponentPropertyGroupResponse object map

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

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

Required: No

syncSource

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

Type: String

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

Required: No

See Also

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

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

ComponentTypeSummary

An object that contains information about a component type.

Contents

arn

The ARN of the component type.

Type: String

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

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

Required: Yes

componentTypeId

The ID of the component type.

Type: String

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

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

Required: Yes

creationDateTime

The date and time when the component type was created.

Type: Timestamp

Required: Yes

updateDateTime

The date and time when the component type was last updated.

Type: Timestamp

Required: Yes

componentTypeName

The component type name.

Type: String

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

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

Required: No

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

status

The current status of the component type.

Type: Status object

Required: No

See Also

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

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

ComponentUpdateRequest

The component update request.

Contents

componentTypeId

The ID of the component type.

Type: String

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

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

Required: No

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

propertyGroupUpdates

The property group updates.

Type: String to ComponentPropertyGroupRequest object map

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

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

Required: No

propertyUpdates

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

Type: String to PropertyRequest object map

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

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

Required: No

updateType

The update type of the component update request.

Type: String

Valid Values: `CREATE | UPDATE | DELETE`

Required: No

See Also

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

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

CompositeComponentRequest

An object that sets information about the composite component update request.

Contents

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

properties

This is an object that maps strings to the properties to set in the component type. Each string in the mapping must be unique to this object.

Type: String to PropertyRequest object map

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

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

Required: No

propertyGroups

The property groups.

Type: String to ComponentPropertyGroupRequest object map

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

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

Required: No

See Also

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

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

CompositeComponentTypeRequest

An object that sets information about the composite component types of a component type.

Contents

componentTypeId

This is the `componentTypeId` that the `compositeComponentType` refers to.

Type: String

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

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

Required: No

See Also

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

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

CompositeComponentTypeResponse

An object that returns information about the composite component types of a component type.

Contents

componentTypeId

This is the `componentTypeId` that this `compositeComponentType` refers to.

Type: String

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

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

Required: No

isInherited

This boolean indicates whether this `compositeComponentType` is inherited from its parent.

Type: Boolean

Required: No

See Also

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

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

CompositeComponentUpdateRequest

An object that sets information about the composite component update request.

Contents

description

The description of the component type.

Type: String

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

Pattern: `.*`

Required: No

propertyGroupUpdates

The property group updates.

Type: String to ComponentPropertyGroupRequest object map

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

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

Required: No

propertyUpdates

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

Type: String to PropertyRequest object map

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

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

Required: No

updateType

The update type of the component update request.

Type: String

Valid Values: `CREATE | UPDATE | DELETE`

Required: No

See Also

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

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

DataConnector

The data connector.

Contents

isNative

A Boolean value that specifies whether the data connector is native to AWS IoT TwinMaker.

Type: Boolean

Required: No

lambda

The Lambda function associated with this data connector.

Type: LambdaFunction object

Required: No

See Also

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

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

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 AWS SDKs, see the following:

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

DataValue

An object that specifies a value for a property.

Contents

booleanValue

A Boolean value.

Type: Boolean

Required: No

doubleValue

A double value.

Type: Double

Required: No

expression

An expression that produces the value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 316.

Pattern: `(^\$\{Parameters\.[a-zA-z]+([a-zA-z_0-9]*)}$)`

Required: No

integerValue

An integer value.

Type: Integer

Required: No

listValue

A list of multiple values.

Type: Array of DataValue objects

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

Required: No

longValue

A long value.

Type: Long

Required: No

mapValue

An object that maps strings to multiple `DataValue` objects.

Type: String to DataValue object map

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

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

Key Pattern: `.*`

Required: No

relationshipValue

A value that relates a component to another component.

Type: RelationshipValue object

Required: No

stringValue

A string value.

Type: String

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

Pattern: `.*`

Required: No

See Also

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

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

DestinationConfiguration

The [link to action] metadata transfer job destination configuration.

Contents

type

The destination type.

Type: String

Valid Values: `s3 | iotsitewise | iottwinmaker`

Required: Yes

iotTwinMakerConfiguration

The metadata transfer job AWS IoT TwinMaker configuration.

Type: IotTwinMakerDestinationConfiguration object

Required: No

s3Configuration

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

Type: S3DestinationConfiguration object

Required: No

See Also

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

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

EntityPropertyReference

An object that uniquely identifies an entity property.

Contents

propertyName

The name of the property.

Type: String

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

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

Required: Yes

componentName

The name of the component.

Type: String

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

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

Required: No

componentPath

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

Type: String

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

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

Required: No

entityId

The ID of the entity.

Type: String

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

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

Required: No

externalIdProperty

A mapping of external IDs to property names. External IDs uniquely identify properties from external data stores.

Type: String to string map

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

Key Pattern: `.*`

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

Value Pattern: `.*`

Required: No

See Also

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

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

EntitySummary

An object that contains information about an entity.

Contents

arn

The ARN of the entity.

Type: String

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

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

Required: Yes

creationDateTime

The date and time when the entity was created.

Type: Timestamp

Required: Yes

entityId

The ID of the entity.

Type: String

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

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

Required: Yes

entityName

The name of the entity.

Type: String

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

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

Required: Yes

status

The current status of the entity.

Type: Status object

Required: Yes

updateDateTime

The last date and time when the entity was updated.

Type: Timestamp

Required: Yes

description

The description of the entity.

Type: String

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

Pattern: `.*`

Required: No

hasChildEntities

An **eventual** Boolean value that specifies whether the entity has child entities or not.

Type: Boolean

Required: No

parentEntityId

The ID of the parent entity.

Type: String

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

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

Required: No

See Also

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

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

ErrorDetails

The error details.

Contents

code

The error code.

Type: String

Valid Values: `VALIDATION_ERROR | INTERNAL_FAILURE | SYNC_INITIALIZING_ERROR | SYNC_CREATING_ERROR | SYNC_PROCESSING_ERROR | SYNC_DELETING_ERROR | PROCESSING_ERROR | COMPOSITE_COMPONENT_FAILURE`

Required: No

message

The error message.

Type: String

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

Required: No

See Also

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

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

FilterByAsset

Filter by asset. You can include multiple filters when you export your AWS IoT SiteWise content. See Export metadata examples in the AWS IoT SiteWise User Guide.

Contents

assetExternalId

The external-Id property of an asset.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 128.

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

Required: No

assetId

Filter by asset Id.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

includeAssetModel

Set to true to include the asset model that the specified asset uses.

Type: Boolean

Required: No

includeOffspring

Set to true to include all associated asset models in the hierarchy of the specified asset model.

Type: Boolean

Required: No

See Also

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

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

FilterByAssetModel

Filter by asset model.

Contents

assetModelExternalId

The external-Id property of an asset model.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 128.

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

Required: No

assetModelId

The asset model Id.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

includeAssets

Set to true to include all assets that use the specified asset model.

Type: Boolean

Required: No

includeOffspring

Set to true to include all associated asset models in the hierarchy of the specified asset model.

Type: Boolean

Required: No

See Also

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

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

FilterByComponentType

Filter by component type.

Contents

componentTypeId

The component type Id.

Type: String

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

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

Required: Yes

See Also

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

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

FilterByEntity

Filter by entity.

Contents

entityId

The entity Id.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

FunctionRequest

The function request body.

Contents

implementedBy

The data connector.

Type: DataConnector object

Required: No

requiredProperties

The required properties of the function.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

scope

The scope of the function.

Type: String

Valid Values: `ENTITY | WORKSPACE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

FunctionResponse

The function response.

Contents

implementedBy

The data connector.

Type: DataConnector object

Required: No

isInherited

Indicates whether this function is inherited.

Type: Boolean

Required: No

requiredProperties

The required properties of the function.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

scope

The scope of the function.

Type: String

Valid Values: `ENTITY | WORKSPACE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InterpolationParameters

An object that specifies how to interpolate data in a list.

Contents

interpolationType

The interpolation type.

Type: String

Valid Values: `LINEAR`

Required: No

intervalInSeconds

The interpolation time interval in seconds.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IotSiteWiseSourceConfiguration

The metadata transfer job AWS IoT SiteWise source configuration.

Contents

filters

The AWS 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 AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IotSiteWiseSourceConfigurationFilter

The AWS IoT SiteWise source configuration filter.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

filterByAsset

Filter by asset.

Type: FilterByAsset object

Required: No

filterByAssetModel

Filter by asset model.

Type: FilterByAssetModel object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IotTwinMakerDestinationConfiguration

The metadata transfer job AWS IoT TwinMaker destination configuration.

Contents

workspace

The IoT TwinMaker workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IotTwinMakerSourceConfiguration

The metadata transfer job AWS IoT TwinMaker source configuration.

Contents

workspace

The IoT TwinMaker workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: Yes

filters

The metadata transfer job AWS 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 AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

IotTwinMakerSourceConfigurationFilter

The metadata transfer job AWS IoT TwinMaker source configuration filter.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

filterByComponentType

Filter by component type.

Type: FilterByComponentType object

Required: No

filterByEntity

Filter by entity.

Type: FilterByEntity object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LambdaFunction

The Lambda function.

Contents

arn

The ARN of the Lambda function.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):lambda:[a-z0-9-]+:[0-9]{12}:function:[\/a-zA-Z0-9_-]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ListComponentTypesFilter

An object that filters items in a list of component types.

> **Note**
>
> Only one object is accepted as a valid input.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

extendsFrom

The component type that the component types in the list extend.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

isAbstract

A Boolean value that specifies whether the component types in the list are abstract.

Type: Boolean

Required: No

namespace

The namespace to which the component types in the list belong.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ListEntitiesFilter

An object that filters items in a list of entities.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

componentTypeId

The ID of the component type in the entities in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

externalId

The external-Id property of a component. The external-Id property is the primary key of an external storage system.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

parentEntityId

The parent of the entities in the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ListMetadataTransferJobsFilter

The ListMetadataTransferJobs filter.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

state

The filter state.

Type: String

Valid Values: `VALIDATING | PENDING | RUNNING | CANCELLING | ERROR | COMPLETED | CANCELLED`

Required: No

workspaceId

The workspace Id.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetadataTransferJobProgress

The metadata transfer job's progress.

Contents

failedCount

The count of assets that failed during the process.

Type: Integer

Required: No

skippedCount

The count of assets that were skipped during the process.

Type: Integer

Required: No

succeededCount

The count of assets successfully transferred.

Type: Integer

Required: No

totalCount

The total count of assets in the transfer process.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetadataTransferJobStatus

The metadata transfer job status.

Contents

error

The metadata transfer job error.

Type: ErrorDetails object

Required: No

queuedPosition

The queued position.

Type: Integer

Required: No

state

The metadata transfer job state.

Type: String

Valid Values: `VALIDATING | PENDING | RUNNING | CANCELLING | ERROR | COMPLETED | CANCELLED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MetadataTransferJobSummary

The metadata transfer job summary.

Contents

arn

The metadata transfer job summary ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: Yes

creationDateTime

The metadata transfer job summary creation DateTime object.

Type: Timestamp

Required: Yes

metadataTransferJobId

The metadata transfer job summary Id.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

status

The metadata transfer job summary status.

Type: MetadataTransferJobStatus object

Required: Yes

updateDateTime

The metadata transfer job summary update DateTime object

Type: Timestamp

Required: Yes

progress

The metadata transfer job summary progress.

Type: MetadataTransferJobProgress object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

OrderBy

Filter criteria that orders the return output. It can be sorted in ascending or descending order.

Contents

propertyName

The property name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: Yes

order

The set order that filters results.

Type: String

Valid Values: `ASCENDING | DESCENDING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ParentEntityUpdateRequest

The parent entity update request.

Contents

updateType

The type of the update.

Type: String

Valid Values: `UPDATE | DELETE`

Required: Yes

parentEntityId

The ID of the parent entity.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `\$ROOT|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PricingPlan

The pricing plan.

Contents

effectiveDateTime

The effective date and time of the pricing plan.

Type: Timestamp

Required: Yes

pricingMode

The pricing mode.

Type: String

Valid Values: `BASIC | STANDARD | TIERED_BUNDLE`

Required: Yes

updateDateTime

The set date and time for updating a pricing plan.

Type: Timestamp

Required: Yes

updateReason

The update reason for changing a pricing plan.

Type: String

Valid Values: `DEFAULT | PRICING_TIER_UPDATE | ENTITY_COUNT_UPDATE | PRICING_MODE_UPDATE | OVERWRITTEN`

Required: Yes

billableEntityCount

The billable entity count.

Type: Long

Required: No

bundleInformation

The pricing plan's bundle information.

Type: BundleInformation object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyDefinitionRequest

An object that sets information about a property.

Contents

configuration

A mapping that specifies configuration information about the property. Use this field to specify information that you read from and write to an external source.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Pattern: `.*`

Required: No

dataType

An object that contains information about the data type.

Type: DataType object

Required: No

defaultValue

An object that contains the default value.

Type: DataValue object

Required: No

displayName

A friendly name for the property.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

isExternalId

A Boolean value that specifies whether the property ID comes from an external data store.

Type: Boolean

Required: No

isRequiredInEntity

A Boolean value that specifies whether the property is required.

Type: Boolean

Required: No

isStoredExternally

A Boolean value that specifies whether the property is stored externally.

Type: Boolean

Required: No

isTimeSeries

A Boolean value that specifies whether the property consists of time series data.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyDefinitionResponse

An object that contains response data from a property definition request.

Contents

dataType

An object that contains information about the data type.

Type: DataType object

Required: Yes

isExternalId

A Boolean value that specifies whether the property ID comes from an external data store.

Type: Boolean

Required: Yes

isFinal

A Boolean value that specifies whether the property definition can be updated.

Type: Boolean

Required: Yes

isImported

A Boolean value that specifies whether the property definition is imported from an external data store.

Type: Boolean

Required: Yes

isInherited

A Boolean value that specifies whether the property definition is inherited from a parent entity.

Type: Boolean

Required: Yes

isRequiredInEntity

A Boolean value that specifies whether the property is required in an entity.

Type: Boolean

Required: Yes

isStoredExternally

A Boolean value that specifies whether the property is stored externally.

Type: Boolean

Required: Yes

isTimeSeries

A Boolean value that specifies whether the property consists of time series data.

Type: Boolean

Required: Yes

configuration

A mapping that specifies configuration information about the property.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[a-zA-Z_\-0-9]+`

Value Pattern: `.*`

Required: No

defaultValue

An object that contains the default value.

Type: DataValue object

Required: No

displayName

A friendly name for the property.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `.*[^\u0000-\u001F\u007F]*.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyFilter

An object that filters items returned by a property request.

Contents

operator

The operator associated with this property filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

propertyName

The property name associated with this property filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

value

The value associated with this property filter.

Type: DataValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyGroupRequest

Contents

groupType

The group type.

Type: String

Valid Values: TABULAR

Required: No

propertyNames

The names of properties.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyGroupResponse

The property group response

Contents

groupType

The group types.

Type: String

Valid Values: TABULAR

Required: Yes

isInherited

A Boolean value that specifies whether the property group is inherited from a parent entity

Type: Boolean

Required: Yes

propertyNames

The names of properties.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

PropertyLatestValue

The latest value of the property.

Contents

propertyReference

An object that specifies information about a property.

Type: EntityPropertyReference object

Required: Yes

propertyValue

The value of the property.

Type: DataValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyRequest

An object that sets information about a property.

Contents

definition

An object that specifies information about a property.

Type: PropertyDefinitionRequest object

Required: No

updateType

The update type of the update property request.

Type: String

Valid Values: `UPDATE | DELETE | CREATE`

Required: No

value

The value of the property.

Type: DataValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyResponse

An object that contains information about a property response.

Contents

areAllPropertyValuesReturned

This flag notes whether all values of a list or map type property are returned in the API response. The maximum number of values per property returned is 50.

Type: Boolean

Required: No

definition

An object that specifies information about a property.

Type: PropertyDefinitionResponse object

Required: No

value

The value of the property.

Type: DataValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertySummary

This is an object that contains the information of a property.

Contents

propertyName

This is the name of the property.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: Yes

areAllPropertyValuesReturned

This flag notes whether all values of a list or map type property are returned in the API response. The maximum number of values per property returned is 50.

Type: Boolean

Required: No

definition

This is the schema for the property.

Type: PropertyDefinitionResponse object

Required: No

value

This is the value for the property.

Type: DataValue object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyValue

An object that contains information about a value for a time series property.

Contents

value

An object that specifies a value for a time series property.

Type: DataValue object

Required: Yes

time

ISO8601 DateTime of a value for a time series property.

The time for when the property value was recorded in ISO 8601 format: *YYYY-MM-DDThh:mm:ss[.SSSSSSSSS][Z/±HH:mm]*.

- *[YYYY]*: year
- *[MM]*: month
- *[DD]*: day
- *[hh]*: hour
- *[mm]*: minute
- *[ss]*: seconds
- *[.SSSSSSSSS]*: additional precision, where precedence is maintained. For example: [.573123] is equal to 573123000 nanoseconds.
- *Z*: default timezone UTC
- *± HH:mm*: time zone offset in Hours and Minutes.

Required sub-fields: YYYY-MM-DDThh:mm:ss and [Z/±HH:mm]

Type: String

Length Constraints: Minimum length of 20. Maximum length of 35.

Required: No

timestamp

This member has been deprecated.

The timestamp of a value for a time series property.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyValueEntry

An object that specifies information about time series property values. This object is used and consumed by the BatchPutPropertyValues action.

Contents

entityPropertyReference

An object that contains information about the entity that has the property.

Type: EntityPropertyReference object

Required: Yes

propertyValues

A list of objects that specify time series property values.

Type: Array of PropertyValue objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PropertyValueHistory

The history of values for a time series property.

Contents

entityPropertyReference

An object that uniquely identifies an entity property.

Type: EntityPropertyReference object

Required: Yes

values

A list of objects that contain information about the values in the history of a time series property.

Type: Array of PropertyValue objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Relationship

An object that specifies a relationship with another component type.

Contents

relationshipType

The type of the relationship.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

targetComponentTypeId

The ID of the target component type associated with this relationship.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\.\-0-9:]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelationshipValue

A value that associates a component and an entity.

Contents

targetComponentName

The name of the target component associated with the relationship value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z_\-0-9]+`

Required: No

targetEntityId

The ID of the target entity associated with this relationship value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}|^[a-zA-Z0-9][a-zA-Z_\-0-9.:]*[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Row

Represents a single row in the query results.

Contents

rowData

The data in a row of query results.

Type: Array of JSON values

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3DestinationConfiguration

The S3 destination configuration.

Contents

location

The S3 destination configuration location.

Type: String

Pattern: `.*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([/a-zA-Z0-9_-]+$).*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

S3SourceConfiguration

The S3 destination source configuration.

Contents

location

The S3 destination source configuration location.

Type: String

Pattern: `.*(^arn:((aws)|(aws-cn)|(aws-us-gov)):s3:::)([a-zA-Z0-9_-]+)\/([/.a-zA-Z0-9_-]+$).*`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SceneError

The scene error.

Contents

code

The SceneError code.

Type: String

Valid Values: `MATTERPORT_ERROR`

Required: No

message

The SceneError message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SceneSummary

An object that contains information about a scene.

Contents

arn

The ARN of the scene.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: Yes

contentLocation

The relative path that specifies the location of the content definition file.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[sS]3://[A-Za-z0-9._/-]+`

Required: Yes

creationDateTime

The date and time when the scene was created.

Type: Timestamp

Required: Yes

sceneId

The ID of the scene.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

updateDateTime

The date and time when the scene was last updated.

Type: Timestamp

Required: Yes

description

The scene description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SourceConfiguration

The source configuration.

Contents

type

The source configuration type.

Type: String

Valid Values: `s3 | iotsitewise | iottwinmaker`

Required: Yes

iotSiteWiseConfiguration

The source configuration IoT SiteWise configuration.

Type: IotSiteWiseSourceConfiguration object

Required: No

iotTwinMakerConfiguration

The source configuration IoT TwinMaker configuration.

Type: IotTwinMakerSourceConfiguration object

Required: No

s3Configuration

The source configuration S3 configuration.

Type: S3SourceConfiguration object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Status

An object that represents the status of an entity, component, component type, or workspace.

Contents

error

The error message.

Type: ErrorDetails object

Required: No

state

The current state of the entity, component, component type, or workspace.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyncJobStatus

The SyncJob status.

Contents

error

The SyncJob error.

Type: ErrorDetails object

Required: No

state

The SyncJob status state.

Type: String

Valid Values: `CREATING | INITIALIZING | ACTIVE | DELETING | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyncJobSummary

The SyncJob summary.

Contents

arn

The SyncJob summary ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: No

creationDateTime

The creation date and time.

Type: Timestamp

Required: No

status

The SyncJob summaries status.

Type: SyncJobStatus object

Required: No

syncSource

The sync source.

Type: String

Pattern: `[a-zA-Z_0-9]+`

Required: No

updateDateTime

The update date and time.

Type: Timestamp

Required: No

workspaceId

The ID of the workspace that contains the sync job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyncResourceFilter

The sync resource filter.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

externalId

The external ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceId

The sync resource filter resource ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceType

The sync resource filter resource type

Type: String

Valid Values: `ENTITY | COMPONENT_TYPE`

Required: No

state

The sync resource filter's state.

Type: String

Valid Values: `INITIALIZING | PROCESSING | DELETED | IN_SYNC | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyncResourceStatus

The sync resource status.

Contents

error

The status error.

Type: ErrorDetails object

Required: No

state

The sync resource status state.

Type: String

Valid Values: `INITIALIZING | PROCESSING | DELETED | IN_SYNC | ERROR`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SyncResourceSummary

The sync resource summary.

Contents

externalId

The external ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceId

The resource ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: No

resourceType

The resource type.

Type: String

Valid Values: `ENTITY | COMPONENT_TYPE`

Required: No

status

The sync resource summary status.

Type: SyncResourceStatus object

Required: No

updateDateTime

The update date and time.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TabularConditions

The tabular conditions.

Contents

orderBy

Filter criteria that orders the output. It can be sorted in ascending or descending order.

Type: Array of OrderBy objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

propertyFilters

You can filter the request using various logical operators and a key-value format. For example:

```
{"key": "serverType", "value": "webServer"}
```

Type: Array of PropertyFilter objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

WorkspaceSummary

An object that contains information about a workspace.

Contents

arn

The ARN of the workspace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:((aws)|(aws-cn)|(aws-us-gov)):iottwinmaker:[a-z0-9-]+:[0-9]{12}:[\/a-zA-Z0-9_\-\.:]+`

Required: Yes

creationDateTime

The date and time when the workspace was created.

Type: Timestamp

Required: Yes

updateDateTime

The date and time when the workspace was last updated.

Type: Timestamp

Required: Yes

workspaceId

The ID of the workspace.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z_0-9][a-zA-Z_\-0-9]*[a-zA-Z0-9]+`

Required: Yes

description

The description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*`

Required: No

linkedServices

A list of services that are linked to the workspace.

Type: Array of strings

Pattern: `[a-zA-Z_0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

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 AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS 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 AWS 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 AWS 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

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400