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API Tutorial for SAP Asset Strategy and Performance Management

API Tutorial

Content

- 1 Introduction. 14**
- 2 Alert Types. 15**
 - 2.1 Creating Alert Types. 15
- 3 Alert Type Group. 16**
 - 3.1 Alert Type Assignment to Group. 16
- 4 Announcements. 17**
 - 4.1 Creating an Announcement. 17
 - 4.2 Viewing an Announcement. 18
 - 4.3 Updating an Announcement. 19
 - 4.4 Viewing the Announcement Count. 20
 - 4.5 Assigning a Model to an Announcement. 20
 - 4.6 Deleting an Announcement. 21
 - 4.7 Viewing All Models Assigned to an Announcement. 22
 - 4.8 Mass Publishing of Announcements. 22
 - 4.9 Additional Information. 23
- 5 Causes and Effect. 27**
 - 5.1 Creating an Effect. 27
 - 5.2 Viewing an Effect. 28
 - 5.3 Updating an Effect. 28
 - 5.4 Deleting an Effect. 29
 - 5.5 Viewing the Details of Effect Categories. 29
 - 5.6 Viewing the Details of Failure Mode Types. 30
 - 5.7 Creating a Cause. 31
 - 5.8 Viewing All Causes. 31
 - 5.9 Deleting Causes. 32
 - 5.10 Viewing the Details of a Cause. 32
 - 5.11 Updating a Cause. 33
 - 5.12 Assigning Failure Modes to a Cause. 34
 - 5.13 Viewing Details of Patterns. 34
 - 5.14 Viewing All Effects. 35
 - 5.15 Viewing Options. 35
- 6 Company Profile. 37**
 - 6.1 Viewing the Company Profile. 37

6.2	Viewing Locations of the Company.	38
6.3	Viewing Subsidiaries of the Company.	38
6.4	View Users of Logged in Organization.	39
6.5	Modify User Name.	39
6.6	Create an User.	40
6.7	Delete User.	41
6.8	View Organizations Based on Role.	41
7	Documents.	43
7.1	Uploading a Document.	43
	Uploading a VDS Document.	45
	Uploading Language Versions of a Document.	47
7.2	Downloading a Document.	48
	Downloading a Document.	49
7.3	Updating Document Properties.	49
	Updating a VDS Document.	50
	Updating Language Versions of a Document.	51
7.4	Deleting a Document.	52
	Deleting Language Versions of a Document.	52
7.5	Assigning a Model to a Document.	53
7.6	Assigning an Announcement to a Document.	54
7.7	Assigning Steps to a Document.	54
7.8	Assigning Equipment to a Document.	55
7.9	Assigning a Functional Location to a Document.	55
7.10	Assigning an Improvement Case to a Document.	56
7.11	Assigning Spare Part to a Document.	57
7.12	Assigning System to a Document.	57
7.13	Unassigning a Model from a Document.	58
7.14	Unassigning an Announcement from a Document.	59
7.15	Unassigning Steps from a Document.	59
7.16	Unassigning Equipment from a Document.	60
7.17	Unassigning a Functional Location from a Document.	61
7.18	Unassigning an Improvement Case from a Document.	61
7.19	Unassigning a Spare Part from a Document.	62
7.20	Unassigning a System from a Document.	63
7.21	Uploading Images Without Phase and Category.	63
7.22	Search for Documents.	64
7.23	Additional Information.	64
8	Equipment.	70
8.1	Creating an Item of Equipment.	70
8.2	Viewing Items of Equipment Based on the Filter.	71

8.3	Viewing the Equipment Count.	72
8.4	Viewing Equipment Header Information.	72
8.5	Updating Header Information of an Item of Equipment.	73
8.6	Deleting an Item of Equipment.	74
8.7	Publishing Multiple Items of Equipment.	74
8.8	Revising an Item of Equipment.	75
8.9	Publishing an Item of Equipment.	76
8.10	Updating Lifecycle of an Item of Equipment.	76
8.11	Viewing Templates Associated with an Equipment.	78
8.12	Modifying the List of Templates Associated with an Equipment.	78
8.13	Viewing Equipment Attribute Values.	79
8.14	Updating Equipment Values.	80
8.15	Viewing Equipment Components.	81
8.16	Updating Equipment Components.	82
8.17	Viewing Documents of an Equipment.	82
8.18	Assigning Documents to an Equipment.	83
8.19	Viewing Equipment Timeline.	84
8.20	Viewing Instructions of an Equipment.	84
8.21	Viewing Spare Parts Assigned to Equipment.	85
8.22	Viewing Work Orders.	85
8.23	Assigning or Unassigning an Equipment Instruction.	86
8.24	Update Spare Parts of Equipment.	87
8.25	Creating Future Events Associated with Equipment.	88
8.26	Finding Organizations Relevant to the Equipment.	88
8.27	Viewing Organizations with Specific Role Relevant to the Equipment.	89
8.28	Viewing Enumerations for an Item of Equipment.	89
8.29	Viewing Enumeration Values.	91
8.30	Search of Equipment Based on Attribute Values.	92
8.31	Configure Indicators Assigned to Equipment.	93
8.32	View Configuration Details for an Indicator.	93
8.33	Updating Configuration of an Indicator.	94
8.34	Post Values to Indicator Assigned to Equipment.	94
8.35	View Values for an Indicator of an Equipment.	95
8.36	Update Values Already Posted to Indicator.	96
8.37	Delete Indicator Value.	96
8.38	Viewing List of Indicator Values for an Equipment and its Associated Model.	97
8.39	Reset the Value of Indicators Associated with an Item of Equipment.	98
8.40	Creating Work Orders.	98
8.41	Updating Work Orders.	99
8.42	Viewing Work Orders based on Filter Parameter.	99
8.43	Creating Notifications	100

8.44	Updating Notifications.	101
8.45	Viewing Notifications.	101
8.46	Viewing Notifications without External ID.	102
9	Failure Modes.	103
9.1	Viewing all Failure Modes.	103
9.2	Create a Failure Mode.	103
9.3	Updating a Failure Mode.	104
9.4	Publishing a Failure mode.	105
9.5	Deleting a Failure Mode.	105
9.6	Retrieving Details of a Failure Mode.	106
9.7	Viewing the RAMS Figures of a Failure Mode.	106
9.8	Updating the RAMS Figures of a Failure Mode.	107
9.9	Viewing Business Objects Assigned to a Failure Mode.	108
9.10	Creating a New Revision of a Failure Mode.	108
9.11	Create a Copy of Failure Mode.	109
9.12	Dissociate Object from Failure Mode.	110
9.13	Assigning a Business Object to a Failure Mode.	110
9.14	Creating a Cause for a Failure Mode.	111
9.15	View Details of Failure Mode Detection Methods.	111
9.16	Updating Failure Mode Detection Methods.	112
9.17	Viewing Failure Modes Assigned to an Object.	113
9.18	Assigning Failure Mode to an Object.	113
9.19	Dissociate Failure Mode from Object.	114
9.20	Failure Mode Instance API.	114
	Viewing Failure Modes Instance.	115
	Publishing a Failure Mode Instance.	115
	View details of Detection Methods at Failure Mode Instance Level.	116
	Updating Detection Methods at Failure Mode Instance Level.	116
	Viewing the Components of Failure Mode Associated with an Object.	117
	Assigning Effect to Failure Mode Instance for an Object.	118
	Dissociate Effect from Failure Mode Instance for an Object.	118
	View Detection Methods and Relevance of the Failure Mode Associated with an Object.	119
	Mark anInherited Failure Mode as Relevant or Not relevant.	120
10	Groups.	121
10.1	Creating a Group.	121
10.2	Updating a Group.	122
10.3	Deleting a Group.	123
10.4	Assigning a Business Object to a Group.	123
10.5	Removing a Business Object from a Group.	124
10.6	Viewing Business Objects Assigned to a Group.	125

10.7	Viewing Group Types Supported for a Group.	125
10.8	Viewing a Group.	126
10.9	Viewing Group Types.	127
10.10	Mass Publishing of Groups.	127
10.11	Copying a Group.	128
10.12	Revising a Group.	129
10.13	Viewing Groups for a Business Object.	129
10.14	Assigning a Business Object to Multiple Groups.	130
10.15	Removing a Business Object from Multiple Groups.	131
10.16	Additional Information.	131
11	Instructions.	134
11.1	Creating an Instruction.	134
11.2	Updating an Instruction.	135
11.3	Viewing Multiple Instructions.	136
11.4	Deleting an Instruction.	136
11.5	Mass Publishing of Instructions.	137
11.6	Viewing an Instruction.	138
11.7	Viewing Assigned Announcements for an Instruction.	139
11.8	Viewing Assigned Models for an Instruction.	139
11.9	Viewing Assigned Equipment for an Instruction.	140
11.10	Assigning Models to an Instruction.	141
11.11	Assigning Equipment to an Instruction.	141
11.12	Additional Information.	142
12	Locations.	149
12.1	Creating a Location.	149
12.2	Updating a Location.	150
12.3	Adding or Removing Templates to a Location.	150
12.4	Viewing a Location.	151
12.5	Deleting a Location.	152
12.6	Viewing Attachments of a Location.	152
12.7	Assigning Attachments to a Location.	153
12.8	View Hierarchy of a Given Location Object.	154
12.9	Updating Location Values.	154
12.10	Viewing Location Values.	155
12.11	Publishing a Location.	156
12.12	Revising a Location.	156
12.13	Assign or Unassign Tags.	157
12.14	View All Tags Assigned to a Location.	158
12.15	Viewing Location Templates for a Location.	158
12.16	Assign or Unassign Equipment to a Location.	159

12.17	Update Installation Location of a Functional Location.	160
12.18	View Installation Location Details of a Functional Location.	160
12.19	Publishing Multiple Locations.	161
12.20	Creating Work Orders.	162
12.21	Updating Work Orders.	162
12.22	Viewing Work Orders based on Filter Parameter.	163
12.23	Viewing Notifications.	163
12.24	Viewing Notifications without External ID.	164
12.25	Creating Notifications	165
12.26	Updating Notifications.	165
13	Model Requests.	167
13.1	Creating a Model Request.	167
13.2	Viewing Model Requests.	167
13.3	Updating a Model Request.	168
13.4	Viewing Basic Details of a Model Request.	169
13.5	Deleting a Model Request.	169
13.6	View Equipment Assigned to a Model Request.	170
13.7	View Documents Assigned to a Model Request.	170
14	Models.	172
14.1	Creating a Model Header.	172
14.2	Viewing a List of Models Based on the Filters.	173
14.3	Viewing the Model Count.	174
14.4	Viewing a Model Header.	174
14.5	Updating a Model Header.	175
14.6	Deleting a Model.	176
14.7	Publishing Multiple Models.	176
14.8	Revising a Model.	177
14.9	Publishing a Model.	178
14.10	Viewing Model Attribute Values.	179
14.11	Updating Model Attribute Values.	179
14.12	Viewing Documents of a Model.	180
14.13	Assigning Documents to a Model.	181
14.14	Viewing Instructions of a Model.	182
14.15	Assigning an Instruction to a Model.	182
14.16	Viewing Announcements of a Model.	183
14.17	Viewing Spare Parts of a Model.	184
14.18	Updating Spare Parts of a Model.	185
14.19	Viewing Model Components.	185
14.20	Updating Model Components.	186
14.21	Finding the Manufacturer of a Model.	187

14.22	Viewing Enumerations for a Model.	187
14.23	Viewing Enumeration Values.	189
14.24	Search of Models Based on Attribute Values.	190
14.25	Configure an Indicator to a Model.	190
14.26	Viewing Configuration Details of an Indicator Assigned to a Model.	191
14.27	Updating an Indicator.	192
14.28	Post Values to Indicator.	192
14.29	View Indicator Values for a Model.	193
14.30	Update Value of an Indicator.	194
14.31	Deleting an Indicator Value.	194
14.32	View List of Indicators Associated with a Model.	195
14.33	Modify the List of Templates Assigned to a Model.	196
14.34	Reset the Value of Indicators.	196
15	Network Authorizations.	198
15.1	Creating an Authorization Group.	198
15.2	Update Header Information of an Authorization Group.	198
15.3	View Details of an Authorization Group.	199
15.4	Add or Remove Business Partners to an Authorization Group.	200
15.5	View Objects Assigned to an Authorization Group.	200
15.6	Update Objects Assigned to an Authorization Group.	201
15.7	Update Dependent Object to an Authorization Group.	201
15.8	Deleting an Authorization Group.	202
16	Performance Improvement.	203
16.1	Creating an Improvement Request.	203
16.2	Viewing the List of Improvement Requests.	204
16.3	Viewing an Improvement Request.	204
16.4	Updating an Improvement Request.	205
16.5	Deleting an Improvement Request.	206
16.6	Viewing the Improvement Request Count.	206
16.7	Viewing Equipment Attached to an Improvement Request.	207
16.8	Viewing Instructions Assigned to an Improvement Request.	207
16.9	Viewing Documents Attached to an Improvement Request.	208
16.10	Additional Information.	209
17	Spare Parts.	214
17.1	Creating a Spare Part.	214
17.2	Viewing all Spare Parts.	215
17.3	Updating a Spare Part.	215
17.4	Deleting Spare Parts.	216
17.5	Viewing Enumeration Details of Spare Parts.	216

17.6	Assigning Documents to a Spare Part.	217
17.7	Viewing a Spare Part.	218
17.8	Viewing Models Related to a Spare part.	218
17.9	Viewing Steps Assigned to a Spare Part.	219
17.10	Assigning Templates to a Spare Part.	219
17.11	Assigning Attribute Values to a Spare Part.	220
17.12	Viewing all Documents Assigned to a Spare Part.	221
17.13	Viewing all Equipment Assigned to a Spare Part.	221
17.14	Changing Operating Status for a Spare Part.	222
17.15	Assigning Successors to a Spare Part.	222
17.16	View Predecessor of a Spare Part.	223
18	Systems.	224
18.1	Viewing all Systems.	224
18.2	Creating a System.	225
18.3	Viewing the System Count.	225
18.4	Viewing System Header Information.	226
18.5	Updating a System.	227
18.6	Deleting a System.	227
18.7	Configure Items of Equipment with Ports and Interfaces.	228
18.8	Create Connections for the Equipment.	229
18.9	Publishing Multiple Systems.	229
18.10	Revising a System.	230
18.11	Publishing a System.	231
18.12	Updating Lifecycle of a System.	231
18.13	Viewing System Templates for a System.	232
18.14	Updating Templates Associated with a System.	233
18.15	Viewing Equipment Components.	234
18.16	Updating System Components.	235
18.17	Viewing Documents of a System.	235
18.18	Assigning Documents to a System.	236
18.19	Viewing Instructions of a System.	237
18.20	Assigning or Unassigning System Instructions.	237
18.21	Viewing Locations Derived from Component Equipments of a System.	238
18.22	Viewing System Timeline.	239
19	Templates.	240
19.1	Creating an Attribute.	240
19.2	View Attributes Based on Filter Conditions.	241
19.3	Viewing All Attributes.	241
19.4	Viewing an Attribute.	242
19.5	Updating an Attribute.	243

19.6	Deleting an Attribute.	244
19.7	Viewing all the Equipment Where Attribute is Used.	244
19.8	Creating an Indicator.	245
19.9	View Indicator Based on Filters.	246
19.10	Viewing Indicator Count.	247
19.11	Viewing an Indicator.	247
19.12	Updating an Indicator.	248
19.13	Deleting an Indicator.	249
19.14	Creating an Attribute Group.	249
19.15	View All Attribute Groups Based on Filters.	250
19.16	View Attribute Group Count.	251
19.17	Viewing an Attribute Group.	252
19.18	Updating an Attribute Group.	252
19.19	Deleting an Attribute Group.	253
19.20	Creating Indicator Group.	254
19.21	View All Indicator Groups Based on Filters.	254
19.22	View Indicator Group Count.	255
19.23	Viewing an Indicator Group.	256
19.24	Updating an Indicator Group.	256
19.25	Deleting an Indicator Group.	257
19.26	Creating a Codelist.	258
19.27	View All Codelists Based on Filters.	258
19.28	View Codelist Count.	259
19.29	Viewing a Codelist.	260
19.30	Updating a Codelist.	260
19.31	Deleting Codelist.	261
19.32	Creating a Template.	262
19.33	Viewing all Templates.	263
19.34	Deleting Templates.	263
19.35	Viewing a Template.	264
19.36	Updating a Template.	265
19.37	Deleting a Template.	265
19.38	Viewing Industry Standards Assigned to a Template.	266
19.39	Adding Industry Standard to an Existing Template.	267
19.40	Deleting Industry Standard of Specified ID.	268
19.41	Viewing Industry Standards for a Template.	268
19.42	Viewing Template Type Details.	269
19.43	Additional Information.	270
20	Searching Objects in SAP Asset Strategy and Performance Management.	277
21	User Authorization.	278

21.1	Creating an Organizational Unit.	278
21.2	Updating Header Information of an Organizational Unit.	279
21.3	Viewing Header Information of an Organizational Unit.	279
21.4	Deleting an Organizational Unit.	280
21.5	Viewing the Organizational Unit Structure.	280
21.6	Add or Remove Business Objects from an Organizational Unit.	281
21.7	Add, Remove, or Update Users in an Organizational Unit.	282
22	Unit of Measure Conversion.	283
22.1	Master List of Unit of Measures.	283
22.2	SAP Delivered Unit Systems.	294
22.3	Viewing all Dimensions.	296
22.4	Viewing all Dimensions by ID.	297
22.5	Viewing List of Unit Systems.	297
22.6	Viewing Details of Unit System.	298
22.7	Viewing Details of Unit System with Filters.	298
22.8	View Target Units.	299
22.9	Converting Values to Unit System.	299
23	OData Services.	301
23.1	Using OData Services.	302
23.2	Reading Data from Business Objects for OData Services.	302
23.3	Configuring a Connection for OData Services in SAP Analytics Cloud.	304
23.4	Creating a Model Against OData Services in SAP Analytics Cloud.	305
24	Impacts.	307
24.1	Creating an Impact.	307
24.2	Viewing List of Existing Impacts.	308
24.3	Retrieving Impact Categories	308
24.4	Updating an Impact.	309
24.5	Deleting an Impact.	309
24.6	Publishing an Impact.	310
25	Dimensions.	311
25.1	Viewing List of Existing Dimensions.	311
25.2	Creating a Dimension.	312
25.3	Updating an Unpublished Dimension.	312
25.4	Deleting a Dimension.	313
26	Scales.	314
26.1	Creating a Scale.	314
26.2	Viewing List of Existing Scales.	315
26.3	Deleting a Scale.	315

26.4	Updating a Scale.	316
26.5	Retrieving Scale Details.	316
26.6	Publishing a Scale.	317
27	Assessment Template.	318
27.1	Retrieving Assessment Templates.	318
27.2	Creating an Assessment Template.	319
27.3	Retrieving List of Asset Central Foundation Objects.	319
27.4	Updating an Assessment Template.	320
27.5	View Main Details of an Assessment Template.	320
27.6	Retrieving List of Roles Assigned to an Assessment Template.	321
27.7	Updating Roles Assigned to an Assessment Template.	322
27.8	View Thresholds Assigned to an Assessment Template.	322
27.9	Update Thresholds Assigned to an Assessment Template.	323
27.10	Publishing an Assessment Template.	324
27.11	Create New Revision of a Published Assessment Template.	324
27.12	View Impacts and Dimensions.	325
27.13	Update Impacts Assigned to an Assessment Template.	326
27.14	Update Dimensions.	326
27.15	View Asset Central Foundation Templates.	327
27.16	Update Asset Central Foundation Templates.	328
27.17	View Dimension Graph.	328
27.18	Update Dimension Graph.	329
27.19	View List of Checklist Templates Assigned to Object.	330
28	Assessment	331
28.1	Viewing List of Existing Assessments	331
28.2	Creating an Assessment of Type Risk and Criticality.	332
28.3	Viewing Risk Assessments for an Object.	332
28.4	Retrieving Risk Types.	333
28.5	Updating Header Information of an Unpublished Assessment.	334
28.6	Deleting an Unpublished Assessment.	334
28.7	Retrieving Assigned Objects of an Assessment.	335
28.8	Assigning a Business Object to an Assessment.	336
28.9	Unassigning Objects From an Assessment.	336
28.10	Retrieving Questionnaire.	337
28.11	Updating Question and Answer Information of an Impact.	338
28.12	Publishing an Assessment.	338
28.13	Retrieving Users Assigned to Roles.	339
28.14	Assigning Users to Roles.	340
28.15	Retrieving Descriptions.	340
28.16	Updating Descriptions.	341

28.17	Retrieving Failure Modes, Causes and Effects for an Object.	342
28.18	Retrieving Activities at Both Object and Cause Levels.	342
28.19	Retrieving UoMs of the FMEA Assessment.	343
28.20	Retrieving Dimensions and Scale Options for Effects.	344
28.21	Retrieve Dimensions and Scale for a Cause.	344
28.22	Retrieving RPN and Activity Count.	345
28.23	Updating Causes.	346
28.24	Updating Activities.	346
28.25	Assign Activities.	347
28.26	Unassign Activities.	347
28.27	Updating Effect's scale options.	348
29	Checklist Assessment.	349
29.1	View List of Checklist Assessments.	349
29.2	Create a Checklist Assessment.	349
29.3	Update Header Information of an Unpublished Checklist Assessment.	350
29.4	Deleting an Unpublished Checklist Assessment.	351
29.5	Publishing a Checklist Assessment.	351
29.6	Assign Users to Roles Specified in Assessment Template.	352
29.7	Retrieving Users Assigned to Roles of Assessment.	353
29.8	Retrieving Assigned Objects of Checklist Assessment.	353
29.9	Assign Objects to an Unpublished Checklist Assessment.	354
29.10	Unassigning Objects From a Checklist Assessment.	355
29.11	Retrieving All Attribute Values for a Checklist Assessment.	355
29.12	Update Attribute Values for a Checklist Assessment.. . . .	356
29.13	Retrieving All Indicator Values for a Checklist Assessment.	356
29.14	Add Indicator Values to a Checklist Assessment.	357
29.15	Update Individual Indicator Value for a Checklist Assessment.	358

1 Introduction

The API tutorial guides you in using APIs provided by the SAP Asset Strategy and Performance Management.

Steps to Fetch Application URL

Prerequisite

You must have access to SAP Cloud Platform cockpit for your account.

Steps

1. Log in to SAP Cloud Platform cockpit and navigate to your Global Account.
2. Select your *Subaccount* in the *Global Account*.
3. In your *Subaccount* navigate to ► *Applications* ► *Subscriptions* ▾.
4. In *Subscriptions* tab, you will find table of **Subscribed Java Applications**.
5. Click on **ain** application from the table.
6. In *Overview* tab, you will find the **Application URLs** section.

Application URL will be of the format **https://ain<>-<>.hana.ondemand.com/ain**.

2 Alert Types

2.1 Creating Alert Types

You use this API to mass create alert types.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/alerttypes/mass
- *Authorization:* You must have the roles EQUIPMENT_READ and EVENT.C (in SAP IoT Application Enablement).
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/3c269262a09c4e72922a9adf237990bb/1902/en-US/Alerttype.html#alerttypes_mass_post file.

Response

- On successful execution, the system returns the list of created alert types.
- If not, response is empty.
For more information, see https://help.sap.com/doc/3c269262a09c4e72922a9adf237990bb/1902/en-US/Alerttype.html#alerttypes_mass_post.

3 Alert Type Group

3.1 Alert Type Assignment to Group

This API allows you to define associations between alert type group and alert types.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/alerttypegroups
- *Authorization:* You must have the roles EQUIPMENT_READ and EVENT.C (in SAP IoT Application Enablement).
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/d449a511d7d24f89a08bd7e75e413fd8/1902/en-US/AlertTypeGroup.html#alerttypegroups_put file.

Response

- If the mapping between an alert type group and alert types is successful, the system returns the details of the alert type group with the updated alert types information.
- If the systems cannot create the mapping successfully, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/d449a511d7d24f89a08bd7e75e413fd8/1902/en-US/AlertTypeGroup.html#alerttypegroups_put.

4 Announcements

An announcement is the information that a manufacturer communicates to an operator about an asset. For example, a change in an existing instruction, or an update to the spare parts of an item of equipment. SAP Asset Strategy and Performance Management allows you to create the following types of instructions:

- **Instruction change:** An announcement type communicated by the manufacturer when an instruction related to a model undergoes a change.
- **Service Bulletin:** An announcement type communicated by the manufacturer to indicate a change to the model due to safety, performance, or statutory reasons. The change is carried out by the operator. Example: change a part that has caused.
- **New Policy:** An announcement type communicated by the manufacturer that specifies a recommendation, or a guidance by the manufacturer to use an item of equipment or a model within a company.
- **New Model:** An announcement type communicated by the manufacturer to communicate availability of new, or improved models.
- **Attachment Change:** An announcement type communicated by the manufacturer to communicate when any documents, or drawings related to a model undergoes a change.
- **Spare Parts Change:** An announcement type communicated by the manufacturer when any spare parts related to the model undergoes a change. Example: manufacturer part number changed.
- **Model Information Change:** An announcement type communicated by the manufacturer when a model undergoes a change in its specification, or any relevant metadata of a model.

For simplicity, the following sections deal with an Instruction change announcement.

4.1 Creating an Announcement

As a manufacturer, you create an announcement to help the operator use this information to maintain the item of an equipment efficiently.

Request

- **HTTP Method:** POST
- **Example URL:** Application_URL/services/api/v1/announcements
- **Authorization:** You must have the roles ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_post file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 23\]](#).

Response

- If the system creates an announcement successfully, system returns the details of announcement in the response payload.
- If the systems cannot create an announcement successfully, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_post.

4.2 Viewing an Announcement

As a manufacturer, you would want to view an announcement that is either in a draft (unpublished) state, published state, or in an in revision state.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/announcements({id})?status=2
- *Query parameters:*
Status: allows you to specify the state of the announcement. The following list contains the possible values: If an announcement with the specified announcement ID and the status exists, system returns the announcement and the relevant details.
 - 1- specifies the announcement is in unpublished state
 - 2- specifies the announcement is in published state
 - 3- specifies the announcement is in In Revision state
- *Example URL:* Application_URL/services/api/v1/announcements(DA6FE883FF0A424194F8B463C770C162)?status=2
- *Authorization:* You must have the roles ANNOUNCEMENT_READ or ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_id_get.
- If an announcement with the specified announcement ID and the status exists, If the announcement with the specified announcement ID and the status does not exist, system returns an error code.
For more information on error codes that the system returns, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_id_get.

4.3 Updating an Announcement

As a manufacturer, you want to update information related to an announcement that is either incorrect, or add to the existing information of an announcement.

Prerequisite

You have created an announcement (see [Creating an Announcement \[page 17\]](#).)

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/announcements
- *Authorization:* You must have the roles ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 23\]](#).

i Note

When you create an announcement you can specify the status code for the announcement as 1 (Unpublished State), or 2 (Published State). You can update the status of the announcement from 1 (unpublished state) to 2 (published state) by specifying the status as 2. To create a new revision of the published announcement, you can specify the state as 3 (In revision). To change between the Published state and the In Revision state specify the state as 3. To change between the In Revision and Published state specify the state as 2.

Response

- If the system updates an announcement successfully, system returns the details of the updated announcement along with the appropriate status code.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_put.
- If the system cannot update an announcement successfully, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_put.

4.4 Viewing the Announcement Count

You use this API to view the number of announcements based on your query parameter.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/announcements/\$count
- *Query parameters:* \$filter
\$filter: allows you to specify a search text using which you can filter the announcements
- *Authorization:* You must have the roles ANNOUNCEMENT_READ or ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more announcements exist that match the filter criteria, the system returns the announcement count. Otherwise, the system returns count as 0.

For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements__count_get.

4.5 Assigning a Model to an Announcement

As a manufacturer, you can assign a model to an announcement so that the operator can get the most of the item of equipment which is based on the model.

Prerequisite

You have created a model (see [Creating a Model Header \[page 172\]](#))

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/ announcements

- *Authorization:* You must have the roles ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_put file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 23\]](#).

Response

- If the system assigns a model to an announcement successfully, system returns the details of the updated announcement along with the model details in the response payload.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_put.
- If a model has been assigned to a published instruction, the model gets assigned to the instruction and the version of the instruction is incremented automatically.

4.6 Deleting an Announcement

You can use this API to delete Announcements according to announcement IDs provided in payload.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/announcements/delete`
- *Authorization:* You must have the roles ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_delete_post file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 23\]](#).

Response

- If the system deletes an announcement successfully, system returns the deleted announcement ID in the response payload.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_delete_post.

4.7 Viewing All Models Assigned to an Announcement

You use this API to view all the models assigned to an announcement.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/announcements({id})/models
- *Example URL:* Application_URL/services/api/v1/announcements(DA6FE883FF0A424194F8B463C770C162)/models
- *Authorization:* You must have any of the following roles assigned to your user ID ANNOUNCEMENT_READ, ANNOUNCEMENT_EDIT, or ANNOUNCEMENT_DELETE.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements__id__models_get file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 23\]](#).

Response

- If models have been assigned for the announcement with the specified announcement ID, system returns the models information and the relevant details.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements__id__models_get.
- If models have not been assigned for the announcement with the specified announcement ID, system returns an empty array.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements__id__models_get.

4.8 Mass Publishing of Announcements

As a manufacturer, if you have many Unpublished instructions, or instructions in In Revision state, you can use this service to publish them at once.

Request

- *HTTP Method:* PUT

- **Example URL:** Application_URL/services/api/v1/announcements/publish
- **Authorization:** You must have any of the following roles assigned to your user ID ANNOUNCEMENT_EDIT or ANNOUNCEMENT_DELETE.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_publish_put file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 23\]](#).

Response

- If the system publishes the list of announcements successfully, the published announcement IDs are returned in the response payload.
For more information, see https://help.sap.com/doc/f8b8910be13b4c378bd2e39749b90bed/1902/en-US/Announcement.html#announcements_publish_put.

4.9 Additional Information

The following table provides information about the fields of the request payload, along with the corresponding data types, and the data type descriptions:

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
announcementName (Mandatory)	string	Specifies the name of the announcement.
announcementDescription (Optional)	string	Specifies the description for the announcement.
announcementTypeCode (Mandatory)	number	Specifies the type code for the type of an announcement. For more information on announcement type codes, see the Announcement Type Codes table.
source (Optional)	String	Specifies the name of the business partner who created the announcement.

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
priorityCode (Mandatory)	Number	Specifies the importance of the announcement. The following list contains the possible values and their descriptions: <ul style="list-style-type: none"> • 1- Low • 2- Medium • 3 - High
publishedDate (Optional)	Date	Specifies the date when the announcement was published.
statusCode (Mandatory)	Number	Specifies the status of the announcement. The following list contains the possible values and their descriptions: <ul style="list-style-type: none"> • 1- Unpublished • 2 - Published • 3 - In Revision
modelIDs (Optional)	Array	Specifies the list of model IDs that you can assign to an announcement.
modelID (Optional)	String	Specifies the model ID that you can assign to an announcement. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>i Note</p> <p>The model ID is a unique ID generated by the system when you create a model. (see Creating a Model)</p> </div>
documentIDs (Optional)	Array	Specifies the list of document IDs that you can assign to an announcement.
documentID (Optional)	String	Specifies the document ID that you can assign to an announcement. <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>i Note</p> <p>The document ID is a unique ID generated by the system when you upload a document. (see Uploading an Attachment)</p> </div>
instructionIDs (Optional)	Array	Specifies the list of instruction IDs that you can assign to an announcement.

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
instructionID (Optional)	String	Specifies the instruction ID that you can assign to an announcement. i Note The instruction ID is a unique ID generated by the system when you create an instruction. (see Creating an Instruction)
assignUnassignFlag (Optional)	String	A flag that specifies if you can assign a model, instruction, or a document. Possible values include 'a' for assign and 'ua' for unassign.
isDefault (Optional)	String	A flag that specifies if the assigned instruction to the announcement is a default one. Possible values: 1- default 0 - not default i Note Additionally, this flag is set to 1 when you create an announcement using the Instructions app.

Announcement Type Codes

Announcement Type Code	Description
1	Instruction Change
2	Service Bulletin
3	Recall
4	New Policy
5	New Model
6	Attachment Change
7	Spare Parts Change
8	Model Information Change

The following table provides information related to the fields of the response payload along with the corresponding data types, and descriptions. To avoid repetition, fields that are common with the request payload are excluded in the following table:

Field Name	Data Type	Description and Possible Values
title, name	String	Specifies the name or a title of the document.
phase	String	Specifies the phase in the lifecycle of a model or an item of equipment that the document is relevant for. For more information on possible values, see the Phase Codes and Category Codes table.
category	String	Specifies the category for a phase in the lifecycle of a model, or an item of equipment that the document is relevant for. For more information on possible values, see the Phase Codes and Category Codes table.
fileSize	Integer	Specifies the size of a document.
fileSizeUnit	Integer	Specifies the unit used to measure the file size.
mimeType	String	Specifies the mimetype of the document.

5 Causes and Effect

This API allows you to create, update, retrieve, and delete effects and causes.

Cause is the specific reason for the failure. An effect is the consequence of the failure on the system or end user.

5.1 Creating an Effect

You can use this API to create an effect.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/failuremodes/meta/effects
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the Additional Information to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_post file.

Response

- If the system creates an effect successfully, system returns the details of the effect in the response payload.
- If the systems cannot create an effect successfully, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_post.

5.2 Viewing an Effect

You can use this API to view the details of an effect.

Request

- *HTTP Method*: GET
- *URL*: `Application_URL/services/api/v1/failuremodes/meta/effects/effectId`
- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If an effect with the specified effect ID exists, system returns the effect and the relevant details.
- If the effect with the specified group ID does not exist, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_effectid_get.

5.3 Updating an Effect

You can use this API to update an effect.

Request

- *HTTP Method*: PUT
- *Example URL*: `Application_URL/services/api/v1/failuremodes/meta/effects/effectId`
- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_effectid_put file.

Response

If the system updates an effect successfully, system returns the details of the updated effect. For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_effectid_put.

5.4 Deleting an Effect

You can use this API to delete a effect.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/failuremodes/meta/effects/delete
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_delete_put file.

Response

- If the system deletes an effect successfully, the system returns the appropriate status code.
- If the system cannot delete an effect successfully, the system returns appropriate error codes. For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_delete_put.

5.5 Viewing the Details of Effect Categories

You can use this API to view the details of effect categories.

Request

- *HTTP Method*:GET

- *Example URL*: Application_URL/services/api/v1/failuremodes/meta/effects/categories
- *Authorization*: You must have the roles FAILURE_MODE_READ or FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_categories_get file.

Response

- If the effect categories does not exist, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_effects_categories_get.

5.6 Viewing the Details of Failure Mode Types

You can use this API to view the details of the failure mode types.

Request

- *HTTP Method*: GET
- *Example URL*: Application_URL/services/api/v1/failuremodes/meta/types
- *Authorization*: You must have the roles FAILURE_MODE_READ or FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_types_get file.

Response

- For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_types_get.

5.7 Creating a Cause

You can use this API to create a cause.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/failuremodes/meta/causes
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the Additional Information to the request schema in the in the SAP Cloud Platform account https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes_post file.

Response

- in the SAP Cloud Platform If the system creates a cause successfully, system returns the details of the cause in the response payload.
- If the systems cannot create a cause successfully, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes_post.

5.8 Viewing All Causes

You can use this API to view a list of all causes.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/failuremodes/meta/causes
- *Authorization:* You must have the roles FAILURE_MODE_READ or FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes_get file.

Response

- For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta-causes_get.

5.9 Deleting Causes

You can use this API to delete one or more causes.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/failuremodes/meta/causes/delete
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta-causes_delete_put file.

Response

- If the system deletes one or more causes successfully, the system returns the appropriate status code.
- If the system cannot delete one or more causes successfully, the system returns appropriate error codes. For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta-causes_delete_put.

5.10 Viewing the Details of a Cause

You can use this API to view the details of a cause.

Request

- *HTTP Method*:GET

- *URL*: Application_URL/services/api/v1/failuremodes/meta/causes/{causeId}
- *URI Parameter*: causeId
- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a cause with the specified effect ID exists, system returns the cause and the relevant details.
- If the cause with the specified group ID does not exist, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes__causeid__get.

5.11 Updating a Cause

You can use this API to update a cause.

Request

- *HTTP Method*: PUT
- *Example URL*: Application_URL/services/api/v1/failuremodes/meta/causes/{causeId}
- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *URI Parameter*: causeId
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes__causeid__put file.

Response

If the system updates a cause successfully, system returns the details of the updated cause. For more information, see https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes__causeid__put.

5.12 Assigning Failure Modes to a Cause

You can use this API to assign failure mode to a cause.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/failuremodes/meta/causes/{causeId}/map?type=<TYPE>
- *URI Parameter*: *causeId*
- *Query parameters*: type
type: allows you to specify the type of operation - assign/dissociate
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user IDhttps://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes__causeid__map_put file.

Response

- If the failure mode does not exist, system returns an error code.
For more information on error codes the system returns, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_meta_causes__causeid__map_put.

5.13 Viewing Details of Patterns

You can use this API to view the details of patterns.

Request

- *HTTP Method*:GET
- *URL*:Application_URL/services/api/v1/failuremodes/enum/patterns
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- For more information, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_enum_patterns_get.

5.14 Viewing All Effects

You can use this API to view a list of all the effects.

Request

- *HTTP Method*: GET
- *Example URL*: Application_URL/services/api/v1/failuremodes/enum/effects
- *Authorization*: You must have the roles FAILURE_MODE_READ or FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_enum_effects_get file.

Response

- For more information, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_enum_effects_get.

5.15 Viewing Options

You can use this API to view details of options.

Request

- *HTTP Method*: GET
- *Example URL*: Application_URL/services/api/v1/failuremodes/enum/options?type=<TYPE>

- *Query parameters:* type
type: allows you to specify the KPI code, for example, MTTR.
- *Authorization:* You must have the roles FAILURE_MODE_READ or FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_enum_options_get file.

Response

- For more information, see response payload in https://help.sap.com/doc/ad2df3197a374c8da30355db67b04b53/1902/en-US/CausesEffects.html#failuremodes_enum_options_get.

6 Company Profile

You can view the details of an organization, its locations, and subsidiaries that are in SAP Asset Strategy and Performance Management.

6.1 Viewing the Company Profile

This API allows you to view the profile of an organization in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/company/profile(orgId)`
- *Authorization:* You must have the roles `COMPANYPROFILE_READ`, `COMPANYPROFILE_EDIT` or `COMPANYPROFILE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_profile_orgId__get file.

Response

- On successful execution, the system returns the detailed information about the organization. For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_profile_orgId__get.

6.2 Viewing Locations of the Company

This API allows you to view the locations of an organization in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/company/profile(orgId)/locations
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_profile_orgId__locations_get file.

Response

- On successful execution, the system returns the location information of the organization. For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_profile_orgId__locations_get.

6.3 Viewing Subsidiaries of the Company

This API allows you to view the subsidiaries of your organization in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/company/profile(orgId)/subsidiaries
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system returns the subsidiary companies of the organization.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_profile_orgld__subsidiaries_get.

6.4 View Users of Logged in Organization

This API allows you to view users of logged in organization and its invitee users in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/company/users
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system returns the list of users of logged in organization and its invitee users.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_users_get.

6.5 Modify User Name

This API allows you to modify lastname and firstname of an user in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* PUT

- *Example URL:* Application_URL/services/api/v1/company/users
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system update the user details.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_users_put.

6.6 Create an User

This API allows you to create an user of logged in organization or user for an invitee of logged in organization in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/company/users
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system creates a user.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_users_post.

6.7 Delete User

This API allows you to inactivate a user in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/company/users(businessPartnerId)
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system deletes the user.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#company_users_businessPartnerId_delete.

6.8 View Organizations Based on Role

This API allows you to view the organizations present based on their role in SAP Asset Strategy and Performance Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/organizations/byrole
- *Query Parameter:* roleid
- *Authorization:* You must have the roles COMPANYPROFILE_READ, COMPANYPROFILE_EDIT or COMPANYPROFILE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the file.

Response

On successful execution, the system returns a list of organizations present based on their role.

For more information, see https://help.sap.com/doc/61c826ebab134c019b60d18fe747ed1f/1902/en-US/companyprofile.html#organizations_byrole_get.

7 Documents

A document contains information about a specific phases in the life cycle of a model, an item of equipment, an instruction, or an announcement.

7.1 Uploading a Document

As a manufacturer, you must upload documents like images, word files, external documents and so on into SAP Asset Strategy and Performance Management, and then assign them to a model, an item of equipment, an instruction, or an announcement to ensure the business objects have sufficient documentation.

This API allows you to upload a document its language version in formats other than VDS. For example: docx, png, pdf, html, to name a few.

Prerequisite

You have identified the document that you want to upload.

Request

1. This request is for uploading documents in formats like PDF, text, image, word and so on.
 - *HTTP Method*: POST using form data.
 - *Example URL*: Application_URL/services/api/v1/documents
 - *Authorization*: You must have the roles DOCUMENT_EDIT and DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
 - *Schema*: You must use a form data to upload a new document rather than using a JSON schema. The fields of the form data are described in the table below:

Parameters used in the Form Data

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file (Mandatory)	File	Specifies the file that you want to upload.

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file-data (Mandatory)	JSON	<p><code>phaseCode</code> Specifies the phases for which the document is relevant to in the lifecycle of a business object such as a model, an equipment, or a business entity such as an instruction, or an announcement.</p> <p>The possible values for the phases are provided in the table Phase Codes and Category Codes.</p> <p><code>categoryCode</code> Specifies category code that corresponds to a phase code. For the possible values of <code>categoryCode</code>, see Table Phase Codes and Category Codes.</p> <p><code>description</code> Specifies the description of the document.</p> <p><code>languageCode</code> Specifies the language of the document. The possible values for the phase are provided in the table Language Codes.</p> <p><code>fileName</code> Specifies the name of the file.</p> <p><code>confidentiality</code> specifies if the document is visible to everyone or is only for internal use.</p>

2. This request is used upload link documents.
 - *HTTP Method*: POST
 - *Example URL*: `Application_URL/services/api/v1/documents`
 - *Authorization*: You must have the roles DOCUMENT_EDIT and DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
 - *Schema*: You must use a JSON schema to upload a new document. For more information on the request schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_post.

Response

The system generates a unique document ID after the successful execution of the service. For more information on the response schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_post.

7.1.1 Uploading a VDS Document

This API allows you to upload documents in VDS format.

Request

- *HTTP Method*: POST using form data
- *Example URL*: Application_URL/services/api/v1/documents/vds
- *Authorization*: You must have the roles DOCUMENT_EDIT and DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
- *Schema*: You must use a form data to upload a new document rather than using a JSON schema. The fields of the form data are described in the table below:

Parameters used in the Form Data

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file (Mandatory)	File	Specifies the file that you want to upload.

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file-data (Mandatory)	JSON	<p><code>name</code>: Name of the image to create corresponding to the VDS file. <code>file</code>: Converted data of the image.</p> <p><code>phaseCode</code> Specifies the phases for which the document is relevant to in the lifecycle of a business object such as a model, an equipment, or a business entity such as an instruction, or an announcement.</p> <p>The possible values for the phases are provided in the table Phase Codes and Category Codes.</p> <p><code>categoryCode</code> Specifies category-code that corresponds to a phasecode. For the possible values of category-Code, see Table Phase Codes and Category Codes.</p> <p><code>description</code> Specifies the description of the document.</p> <p><code>language</code> Specifies the language of the document. The possible values for the phase are provided in the table Language Codes.</p> <p><code>fileName</code> Specifies the name of the file.</p> <p><code>confidentiality</code> specifies if the document is visible to everyone or is only for internal use.</p> <p><code>dataSensitivity</code> specifies if any sensitive information is available in the document</p> <p><code>encodedSnapshotImage</code> the Base64 encoded image of the VDS, to uploaded as a snapshot for the VDS.</p>

Response

The system generates a unique document ID after the successful execution of the service. For more information on the response schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_vds_post.

7.1.2 Uploading Language Versions of a Document

You can upload different language versions of document.

Request

1. This request is for uploading different language versions of documents in formats like PDF, text, image, word and so on.
 - *HTTP Method*: POST using form data.
 - *Example URL*: `Application_URL/services/api/v1/documents/{documentId}/language`
 - *Authorization*: You must have the roles DOCUMENT_EDIT and DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
 - *Schema*: You must use a form data to upload a new document rather than using a JSON schema. The fields of the form data are described in the table below:

Parameters used in the Form Data

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file (Mandatory)	File	Specifies the file that you want to upload.
file-data (Mandatory)	JSON	<code>description</code> Description of the document. <code>lang</code> : Language of the document. <code>documentId</code> Specifies the document ID the system generates for a document for which you want to upload different version of languages. <code>fileName</code> Specifies the name of the file.

2. This request is used upload different language versions of link documents.
 - *HTTP Method*: POST
 - *Example URL*: `Application_URL/services/api/v1/documents/{documentId}/language`
 - *Authorization*: You must have the roles DOCUMENT_EDIT and DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
 - *Schema*: You must use a JSON schema to upload a new document. For more information on the request schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentId__language_post.

Response

The system generates a unique document ID after the successful execution of the service. For more information on the response schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentId__language__post.

7.2 Downloading a Document

You use this API to download a document based on document ID and language to view information pertaining to the model or item of equipment.

i Note

This endpoint has been deprecated, please refer to [Downloading a Document \[page 49\]](#) as the new endpoint for the same purpose.

Prerequisite

You have identified the document that you want to download.

Request

- *HTTP Method*: GET
- *Example URL*: Application_URL/services/api/v1/documents/{documentID}
- *Query Parameter*: language
- *URI Parameter*: documentID
- *Authorization*: You must have the roles DOCUMENT_READ, DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
- *Schema*: Not applicable.

Response

The system returns the file as a stream. For more information, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentID__get.

7.2.1 Downloading a Document

You use this API to download a document to view information pertaining to the model or item of equipment.

Prerequisite

1. *Query Parameter*: Language
2. *Path Parameter*: DocumentID
3. *HTTP Method*: GET
4. *Example URL*: Application_URL/services/api/v1/document/<DocumentID>?lang=<language>
5. *Authorization*: You must have the roles DOCUMENT_READ, DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
6. *Schema*: Not applicable

7.3 Updating Document Properties

You can update the properties of a document such as phaseCode, categoryCode, data sensitivity and confidentiality properties associated with a document. In Addition to this, you will also be able to maintain short descriptions and long descriptions for images and visual design stream document. This ensures proper classification and identification of the documents in SAP Asset Strategy and Performance Management.

Prerequisite

You have identified the document that you want to update.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/documents/information
- *Authorization*:SAP Asset Intelligence NetworkYou must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user IDin the SAP Cloud Platform account.
- *Schema*:To understand the allowed fields to be used in a request payload, refer to the request schema in the Documents.html file. For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 64\]](#).

Response

For more information about the response schema and relevant status codes, see the RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_information_put.

7.3.1 Updating a VDS Document

This API allows you to update the content of the VDS document.

Request

- *HTTP Method*: PUT
- *Example URL*: `Application_URL/services/api/v1/documents/vds/{vdsDocumentId}`
- *Authorization*: You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
- *Schema*: You must use a form data to upload a new attachment rather than using a JSON schema. The fields of the form data are described in the table below:

Parameters used in the Form Data

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file (Mandatory)	File	Specifies the file that you want to upload.
file-data (Mandatory)	JSON	<code>file</code> : Converted data of the image. <code>vdsDocumentId</code> Specifies the document ID the system generates for a document for which you want to update. <code>fileName</code> Specifies the name of the file. <code>encodedSnapshotImage</code> the Base64 encoded image of the VDS, to uploaded as a snapshot for the VDS.

Response

The system generates a unique document ID after the successful execution of the service. For more information on the response schema and the corresponding status codes, see RAML definitions at <https://>

help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_vds__vdsDocumentId__put.

7.3.2 Updating Language Versions of a Document

This API allows you to update language dependent documents like word files, external documents and so on.

Request

- **HTTP Method:** PUT
- **URL:** `Application_URL/services/api/v1/documents/{documentId}/language/{language}`
- **Authorization:** You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID. Example URL: in the SAP Cloud Platform account.
- **Schema:** You must use a form data to upload a new document rather than using a JSON schema. The fields of the form data are described in the table below:

Parameters used in the Form Data

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
file (Mandatory)	File	Specifies the file that you want to upload.
file-data (Mandatory)	JSON	<code>description</code> Description of the document. <code>short description</code> Example: short description of the document. <code>languageCode</code> : Language of the document. The possible values for the phase are provided in the table Language Codes . <code>id</code> Specifies the document ID the system generates for a document for which you want to update. <code>fileName</code> Specifies the name of the file.

Response

The system generates a unique document ID after the successful execution of the service. For more information on the response schema and the corresponding status codes, see RAML definitions at <https://>

help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentId__language__language__put.

7.4 Deleting a Document

You can delete the documents with all its language dependent documents that you do not want on the network.

Request

- *HTTP Method*:DELETE
- *Example URL*:Application_URL/services/api/v1/documents
- *Authorization*:You must have the roles COMPANYPROFILE_DELETE or DOCUMENT_DELETE assigned to your user IDin the SAP Cloud Platform account.
- *Schema*:For information about allowed fields to be used in a request payload, refer to the request schema in the https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_delete file.

Response

Upon successful deletion, the system returns a code "200".

For more information on the response schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_delete.

7.4.1 Deleting Language Versions of a Document

You can delete language versions of the documents you do not want on the network.

Request

- *HTTP Method*:DELETE
- *Example URL*:Application_URL/services/api/v1/documents/{documentId}/language
- *Authorization*:You must have the roles COMPANYPROFILE_DELETE or DOCUMENT_DELETE assigned to your user IDin the SAP Cloud Platform account.

- *Schema*: For information about allowed fields to be used in a request payload, refer to the request schema in the https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentId__language_delete file.

Response

Upon successful deletion, the system returns a code "200".

For more information on the response schema and the corresponding status codes, see RAML definitions at https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents__documentId__language_delete.

7.5 Assigning a Model to a Document

You use this API to assign a model to a document.

Request

- *HTTP Method*: POST
- *URL*: `Application_URL/services/api/v1/documents/assign/model`
- *Authorization*: You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema*: To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_model_post.

Response

If you have assigned the model successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_model_post.

7.6 Assigning an Announcement to a Document

You use this API to assign an announcement to a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/assign/announcement
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_announcement_post.

Response

If you have assigned the announcement successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_announcement_post.

7.7 Assigning Steps to a Document

You use this API to assign an announcement to a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/assign/steps
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_steps_post.

Response

If you have assigned the steps successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_steps_post.

7.8 Assigning Equipment to a Document

You use this API to assign an item of equipment to a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/assign/equipment
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_equipment_post.

Response

If you have assigned the item of equipment successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_equipment_post.

7.9 Assigning a Functional Location to a Document

You use this API to assign a functional location to a document.

Request

- *HTTP Method:* POST

- **URL:** Application_URL/services/api/v1/documents/assign/functionallocation
- **Authorization:** You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Schema:** To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_functionallocation_post.

Response

If you have assigned the functional location successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_functionallocation_post.

7.10 Assigning an Improvement Case to a Document

You use this API to assign an improvement case to a document.

Request

- **HTTP Method:** POST
- **URL:** Application_URL/services/api/v1/documents/assign/improvementcase
- **Authorization:** You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Schema:** To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_improvementcase_post.

Response

If you have assigned the improvement request successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_improvementcase_post.

7.11 Assigning Spare Part to a Document

You use this API to assign a spare part to a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/assign/sparepart
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_sparepart_post.

Response

If you have assigned the spare part successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_sparepart_post.

7.12 Assigning System to a Document

You use this API to assign a spare part to a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/assign/system
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_system_post.

Response

If you have assigned the spare part successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_assign_system_post.

7.13 Unassigning a Model from a Document

You use this API to unassign a model from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/model
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP HANA Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_model_post.

Response

If you have unassigned the model successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_model_post.

7.14 Unassigning an Announcement from a Document

You use this API to unassign an announcement from a document.

Request

- *HTTP Method:* POST
- *URL:* `Application_URL/services/api/v1/documents/unassign/announcement`
- *Authorization:* You must have the roles `DOCUMENT_EDIT` or `DOCUMENT_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_announcement_post.

Response

If you have unassigned the announcement successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_announcement_post.

7.15 Unassigning Steps from a Document

You use this API to unassign step from a document.

Request

- *HTTP Method:* POST
- *URL:* `Application_URL/services/api/v1/documents/unassign/steps`
- *Authorization:* You must have the roles `DOCUMENT_EDIT` or `DOCUMENT_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_steps_post.

Response

If you have unassigned the steps successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_steps_post.

7.16 Unassigning Equipment from a Document

You use this API to unassign an item of equipment from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/equipment
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_equipment_post.

Response

If you have unassigned the equipment successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_equipment_post.

7.17 Unassigning a Functional Location from a Document

You use this API to unassign a functional location from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/functionallocation
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_functionallocation_post.

Response

If you have unassigned the functional location successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_functionallocation_post.

7.18 Unassigning an Improvement Case from a Document

You use this API to unassign an improvement case from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/improvementcase
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_improvementcase_post.

Response

If you have unassigned the improvement request successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_improvementcase_post.

7.19 Unassigning a Spare Part from a Document

You use this API to unassign a spare part from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/sparepart
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_sparepart_post.

Response

If you have unassigned the spare part successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_sparepart_post.

7.20 Unassigning a System from a Document

You use this API to unassign a system from a document.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/unassign/system
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_system_post.

Response

If you have unassigned the system successfully, the system sends a status code of 204. Otherwise, the system returns appropriate error codes. For more information on the response schema and the corresponding status codes, see https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_unassign_system_post.

7.21 Uploading Images Without Phase and Category

You use this API to upload images which do not hold phase and category.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/documents/images
- *Authorization:* You must have the roles DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns uploads the images without valid phases and categories . For more information on the response schema https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_images_post.

7.22 Search for Documents

You can use this API to search for documents based on filter query parameter.

Prerequisite

You have identified the document for which you want to find the metadata.

Request

- *HTTP Method*: GET
- *Example URL*: Application_URL/services/api/v1/documents
- *Authorization*: You must have the roles DOCUMENT_READ, DOCUMENT_EDIT or DOCUMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Schema*: Not applicable.
For more information, refer to the request schema in the https://help.sap.com/doc/c8af652c31a6435baf13e424539276d4/1902/en-US/documents.html#documents_get file.

7.23 Additional Information

The following table provides information about the fields of the request payload, along with the corresponding data types, and the data type descriptions:

Field Name	Data Type	Description and Possible Values
documentId (Mandatory)	String	Specifies the document ID the system generates for a document.

Field Name	Data Type	Description and Possible Values
phaseCode (Mandatory)	Integer	Specifies the phaseCode for multiple phases. For more information on possible values, see Table Phase Codes and Category Codes.
categoryCode (Mandatory)	Integer	Specifies categorycode that corresponds to a phasecode. For more information on possible values, see Table Phase Codes and Category Codes.
Description (Optional)	String	Specifies the description of the document.
fileName	String	Specifies the name of the file with extension.

The following table provides information about the fields of the response payload, the corresponding data types, and the data type descriptions. To avoid repetition, fields that are also included in the request payload are excluded from the table.

Field Name	Data Type	Description and Possible Values
title, name	String	Specifies the name or a title of the document.
Phase	String	Specifies the phase in the lifecycle of a model or an equipment that the document is relevant for. For more information on possible values, see Table Phase Codes and Category Codes
Category	String	Specifies the category that corresponds to a phase in the lifecycle of a model or an equipment that the document is relevant for. For more information on possible values, see the Phase Codes and Category Codes table.
fileSize	Integer	Specifies the size of a document.
fileSizeUnit	Integer	Specifies the unit used to measure the file size.
mimeType	String	Specifies the mimetype of the document.

Category Codes

Category Code	Category
1	Identification
2	Technical Specification
3	Drawings/Schemes
4	Bills of Materials
5	Certificates
6	Installation/Dismantling
7	Operation
8	Safety
9	Inspection/Preventive Maintenance/Testing/Calibration
10	Corrective Maintenance/Repair
11	Commercial Documents
12	Others
14	Decommissioning Plan
15	Decommissioning Checklist
16	Decommissioning Report
17	Dismantling Guide

Phase Codes

Phase Code	Phase
1	Design
2	Acquisition
3	Installation
4	Operation
5	Maintenance
6	Decommissioning
7	Dismantle
8	Disposal

Supported MIME Types for Documents

File Extension	MIME Type
.txt	text/plain
.jpg	image/jpeg
.jpeg	image/jpeg
.jpe	image/jpeg
.jfif	image/jpeg
.jpg	image/pjpeg
.doc	application/msword
.pdf	application/pdf
.png	image/png
.bmp	image/bmp
.dib	image/bmp
.bmp	image/x-windows-bmp
.gif	image/gif
.tif	image/tiff
.tiff	image/tiff
.ppt	application/mspowerpoint
.ppt	application/powerpoint
.docx	application/vnd.openxmlformats-officedocument.wordprocessingml.document
.docm	application/vnd.ms-word.document.macroenabled.12
.dotx	application/vnd.openxmlformats-officedocument.wordprocessingml.template
.odt	application/vnd.oasis.opendocument.text
.rtf	application/msword
.xps	application/vnd.ms-xpsdocument
.pptx	application/vnd.openxmlformats-officedocument.presentationml.presentation

File Extension	MIME Type
.vds	application/octet-stream
.dif	application/octet-stream
.prn	application/octet-stream
.csv	application/vnd.ms-excel
.slk	application/vnd.ms-excel
.xlsb	application/vnd.ms-excel.sheet.binary.macroenabled.12
.xlsm	application/vnd.ms-excel.sheet.macroenabled.12
.xltx	application/vnd.openxmlformats-officedocument.spreadsheetml.template
.ods	application/vnd.oasis.opendocument.spreadsheet
.xls	application/excel
.xlsx	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
.html	text/html
.htm	text/html
.avi	video/avi
.mp4	video/mp4
.wav	audio/wav
.mp3	audio/mpeg3
.mp3	audio/mp3
.xml	text/xml
.odp	application/vnd.oasis.opendocument.presentation
.dwg	application/acad
.dwg	application/x-acad
.dwg	application/autocad_dwg
.dwg	image/x-dwg, application/dwg
.dwg	application/x-dwg

File Extension	MIME Type
.dwg	application/x-autocad
.dwg	image/vnd.dwg
.dwg	drawing/dwg
.dwg	application/octet-stream
.dxf	application/dxf
.dxf	application/x-autocad
.dxf	application/x-dxf
.dxf	drawing/x-dxf
.dxf	image/vnd.dxf
.dxf	image/x-autocad
.dxf	image/x-dxf
.dxf	zz-application/zz-winassoc-dxf
.dxf	application/octet-stream
.sat	application/x-sat
.sat	image/x-sat
.sat	application/octet-stream
.stp	application/step
.stp	application/x-step
.stp	application/octet-stream
.aml	application/octet-stream

8 Equipment

An item of an equipment is a physical instance of a model.

In SAP Asset Strategy and Performance Management, an item of equipment comprises of the following information:

- **Attributes:** Properties of the item of equipment.
- **Components:** Detachable objects of an item of equipment.
- **Assignments:** Objects assigned to the item of equipment such as instructions, documents, to name a few.
Header: Primary information which describes an item of equipment such as name, description, installation information, to name a few.
Public APIs are available for each of these specific sections of the item of equipment.

An item of equipment can be in the following states:

- Unpublished
- In Revision
- Published

i Note

To edit an item of equipment, you must move it to the In Revision state.

8.1 Creating an Item of Equipment

Request

- **HTTP Method:** POST
- **Example URL:** `Application_URL/services/api/v1/equipment`
- **Authorization:** You must have the roles `EQUIPMENT_EDIT` or `EQUIPMENT_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment_post file.

Response

- If the system creates an item of an equipment successfully, the system returns the details of the created item of an equipment along with auto-generated ID for the item of an equipment.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment_post.
 - If the systems cannot create an item of equipment successfully, system returns appropriate error codes in the response payload.

8.2 Viewing Items of Equipment Based on the Filter

You use this API to view the list of all equipment that you have access for. Additionally, you can also search for equipment based on equipment fields with the required filter query parameters.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment?\$filter=substringof(<FILTER_VALUE>, <PROPERTY_NAME>)
- *Query parameter:* \$filter
\$filter: allows you to specify a search text using which you can filter the items of equipment
Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <PROPERTY_NAME> is the attribute that contains the text.
For filters, this API follows ODATA URI conventions. For more information, see <http://www.odata.org/documentation/odata-version-3-0/url-conventions> .
- *Example URL:* Application_URL/services/api/v1/ equipment?\$filter=substringof('Sample equipment',Name)
- *Authorization:* You must have the roles EQUIPMENT_READ or EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If an item of equipment exists, and you have appropriate authorizations to view an item of equipment, system returns the array of equipment item details. Otherwise, system returns an empty array of equipment item details.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment_get.

8.3 Viewing the Equipment Count

You use this API to get a count of all equipment that you have access for.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment/\$count?\$filter substringof(<FILTER_VALUE>, <PROPERTY_NAME>)
- *Query parameters:* \$filter
\$filter: allows you to specify a search text using which you can filter the items of equipment
Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <PROPERTY_NAME> is the attribute that contains the text.
- *Example URL:* Application_URL/services/api/v1/equipment/\$count?\$filter=substringof('Sample equipment',Name)
- *Authorization:* You must have the roles EQUIPMENT_READ or EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more items of equipment exist that match the filter criteria, the system returns the equipment count. Otherwise, the system returns count as 0.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__count_get.

8.4 Viewing Equipment Header Information

You use this API to view the header information of an equipment by providing the equipment ID and equipment status.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/header?status=<STATUS>
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the /ain/services/api/v1/equipment({equipment ID})/header?status=<STATUS> **Unpublished** version, 2 gets the **Published** version and 3 gets the **Revision** version.

- *Example URL:* Application_URL/services/api/v1/equipment (E0B15BE85E2B41FBA06069B8D61CEB09)/header?status= 2
- *Authorization:* You must have the roles EQUIPMENT_READ, EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If an item of equipment with specified equipment ID exists, and you have necessary authorizations to view it, system returns the details of an item of equipment.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__header_get.
- If an item of equipment with the specified equipment ID does not exist, or you do not have appropriate authorizations to view it, system returns an error message.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__header_get.

8.5 Updating Header Information of an Item of Equipment

You use this API to update the header information of an item of equipment.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/header
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/header
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__header_put.

Response

- If the system updates an item of equipment successfully, system returns the details of the updated item of equipment in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__header_put.

- If the system cannot update the item of equipment successfully, system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__header_put.

8.6 Deleting an Item of Equipment

You use this API to delete an item of equipment with the specified ID.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/equipment({equipment ID})
- *Example URL:* Application_URL/services/api/v1/equipment (EOB15BE85E2B41FBA06069B8D61CEB09)
- *Authorization:* You must have the roles EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the equipment successfully, system returns code "204 No Content" in the response payload.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentID__delete.

8.7 Publishing Multiple Items of Equipment

You use this API to publish multiple items of equipment in a single API call.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment/publish
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment_publish_put.

Response

- If equipment with specified IDs exist, and you have appropriate authorizations, system publishes the given equipment and returns a status code "204" in the response.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment_publish_put.
- If equipment with specified IDs do not exist, or you do not have appropriate authorizations, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment_publish_put.

8.8 Revising an Item of Equipment

You use this API to move the item of equipment to **In Revision** state.

You move the item of equipment to In Revision state when you need to create a new version of the equipment and edit the equipment information.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/revise
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/revise
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If an item of equipment with specified ID exists, and you have appropriate authorizations, system creates a new revision of the equipment and returns the equipment details.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__revise_put.
- If an item of equipment with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__revise_put.

8.9 Publishing an Item of Equipment

You use this API to publish an item of equipment.

When you create an equipment, it is in the unpublished state. You must publish the equipment for further utility. You use this API to publish an equipment by providing the equipment ID.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/publish
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/publish
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If an item of equipment with specified ID exists and you have appropriate authorizations to publish it, system publishes the equipment and returns the equipment details.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__publish_put.
- If an item of equipment with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__publish_put.

8.10 Updating Lifecycle of an Item of Equipment

While creating a piece of equipment you have option to create it in either 'Planned', 'Fully Operational', 'Partially Operational', or 'Not Operational' state. You create a piece of equipment in **Planned** state when you do not have the physical instance of equipment.

You update the lifecycle of the equipment from **Planned** to other states when you receive the physical instance of the equipment.

You use this API to update the equipment lifecycle. The lifecycle phase changes for a piece of equipment are as follows:

- **Planned** → **Fully Operational** or **Partially Operational**
- **Fully Operational** → **Partially Operational** or **Not Operational**
- **Partially Operational** → **Fully Operational** or **Not Operational**
- **Not Operational** → **Fully Operational**, **Partially Operational**, **Dispose**, **Retire**, or **Sold**
- **Dispose** → **Fully Operational** or **Partially Operational** or **Retire**
- **Retire** → **Sold**

Request

- *HTTP Method:* PUT
- *URL:* `Application_URL/services/api/v1/equipment({equipmentId})/changelifecycle?lifecycle=<LIFECYCLE>`
- *Query Parameter:* lifecycle
lifecycle: specifies the value of the lifecycle that you want to change to. Possible value is 2.
- *Example URL:* `Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/changelifecycle?lifecycle=2`
- *Authorization:* You must have the roles `EQUIPMENT_EDIT` or `EQUIPMENT_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__changelifecycle_put file.

Response

- If the system updates the lifecycle of the item of equipment successfully, system returns the details of the updated equipment in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__changelifecycle_put.
- If the system cannot update the item of equipment successfully, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__changelifecycle_put.

8.11 Viewing Templates Associated with an Equipment

You use this API to view details of templates associated with specified equipment Id.

Request

- **HTTP Method:** GET
- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/templates?version=<VERSION>
- **Query Parameter:** version
version: Refers to version of the equipment for which you want to fetch equipment templates.
- **Example URL:** Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/templates?version=2
- **Authorization:** You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If an equipment with the specified equipment ID exists, system returns the details of the templates that are assigned to the equipment along with attribute group and attributes assigned to the template.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__equipmentId__templates_get.
- If the equipment with the specified ID does not exist, or you do not have appropriate authorizations to view the equipment templates, system returns an error message.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__equipmentId__templates_get.

8.12 Modifying the List of Templates Associated with an Equipment

This API allows you to modify the list of templates associated with the equipment of specified id.

Request

- **HTTP Method:** PUT
- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/templates
- **Example URL:** Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/templates

- **Authorization:** You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__templates_put.

Response

If the equipment ID and templates are valid and you have the necessary authorizations, the system returns the equipment templates for the specified equipment ID and version.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__templates_put.

If the equipment with the specified ID does not exist, or you do not have appropriate authorizations to update the equipment templates, the system returns an error message.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__templates_put.

8.13 Viewing Equipment Attribute Values

You use this API to view the attribute values for an equipment. These values are based on the underlying equipment templates.

Request

- **HTTP Method:** GET
- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/values?status=1, 2, or 3<STATUS>
- **Query Parameter:** status
Description: Use the URL with status 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- **Example URL:** Application_URL/services/api/v1/equipmentvalue(E0B15BE85E2B41FBA06069B8D61CEB09)/values?status=2
- **Authorization:** You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If the equipment with specified equipment ID exists and you have appropriate authorizations to view it, system returns the attribute value of the equipment..

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__values_get.

- If the equipment with specified equipment ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error codes.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__values_get.

8.14 Updating Equipment Values

You use this API to update attribute values for an equipment. These values are based on the underlying equipment templates.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/values
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/values
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__values_put file.

Response

- If the system updates the attribute value successfully, the system returns the updated attribute values in the response payload. Otherwise, the system returns appropriate error codes.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__values_put.

8.15 Viewing Equipment Components

You use this API to view the components of an equipment.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/components?status={status}<STATUS>&immediate=<IMMEDIATE>
- *Query Parameters:* status and immediate
Description: Use the URL with STATUS of the equipment and the IMMEDIATE Boolean flag. Possible values for immediate flag are 'true', 'false'. When the **immediate** flag is 'true', the API returns only the immediate children of the equipment. If it is 'false', the API returns the complete hierarchy.

i Note

Version as a query parameter is deprecated.

- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/components?status=2
- *Authorization:* You must have the roles EQUIPMENT_READ, EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns the equipment components for the specified equipment ID and status.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__equipmentId__components_get.

If the equipment with the specified ID does not exist, or you do not have appropriate authorizations to view the equipment components, system returns an error message.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__equipmentId__components_get.

8.16 Updating Equipment Components

This API allows you to update components of an equipment. You can add or remove only immediate child components to an equipment.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/components
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/components
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__components_put.

Response

If the equipment ID and components are valid and you have the necessary authorizations, the system returns the equipment components for the specified equipment ID and version.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__components_put.

If the equipment with the specified ID does not exist, or you do not have appropriate authorizations to update the equipment components, the system returns an error message.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__components_put.

8.17 Viewing Documents of an Equipment

Documents provide information that is required to use and maintain an item of equipment efficiently. You use this API to view one or more documents that are assigned to an item of equipment.

Prerequisites

You have assigned one or more documents to an equipment.

Request

- *HTTP Method:* GET

- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/documents?status=<STATUS>
- **Query Parameter:** status
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- **Example URL:** Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/documents?status=2
- **Authorization:** You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more documents are assigned to the equipment with the given equipment ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__documents_get.

8.18 Assigning Documents to an Equipment

This API allows you to assign documents to an equipment.

Request

- **HTTP Method:** POST
- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/documents
- **Example URL:** Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/documents
- **Authorization:** You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the equipment ID and document IDs are valid and you have necessary authorization, system assigns documents and returns the document details.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__documents_post.

8.19 Viewing Equipment Timeline

You use this API to view the timeline for an equipment.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/equipment({equipmentId})/timeline?status=1, where status is the status of the equipment.
- *Authorization:* You must have the roles EQUIPMENT_READ, EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__timeline_get file.

Response

- On successful execution, the system returns the timeline of the equipment.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__timeline_get.

8.20 Viewing Instructions of an Equipment

You use this API to get the list of instructions assigned to the item of equipment.

Prerequisites

You have assigned one or more instructions to an equipment.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/instructions
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/instructions
- *Authorization:* You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more instructions are assigned to the equipment with the given equipment ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__instructions_get.

8.21 Viewing Spare Parts Assigned to Equipment

You use this API to get the list of spare parts assigned to the item of equipment.

Prerequisites

You have assigned one or more spare parts to an equipment.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/spareparts
- *Example URL:* Application_URL/services/api/v1/equipment(E0B15BE85E2B41FBA06069B8D61CEB09)/spareparts
- *Authorization:* You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more instructions are assigned to the equipment with the given equipment ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#equipment__equipmentId__spareparts_get.

8.22 Viewing Work Orders

You use this API to view the list of work orders related to an equipment or location.

Request

- *HTTP Method:* GET

- **URL:** Application_URL/services/api/v1/equipment({equipmentId})/workorders
- **Query parameter:** \$filter
\$filter: allows you to specify a search text using which you can filter the items of equipment or location
 Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <PROPERTY_NAME> is the attribute that contains the text.
 For filters, this API follows ODATA URI conventions. For more information, see <http://www.odata.org/documentation/odata-version-3-0/url-conventions> .
- **Example URL:** Application_URL/ain/services/api/v1/equipment({equipmentId})/workorders ? \$filter=substringof('Sample Workorder',internalID)
- **Authorization:** You must have the roles EQUIPMENT_READ assigned to your user ID in the SAP HANA Cloud Platform account.

Response

If work orders exist for an equipment or location, and you have appropriate authorizations to view the work orders, system returns the array of work order details. Otherwise, system returns an empty array.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__workorders_get.

8.23 Assigning or Unassigning an Equipment Instruction

You use this API to assign multiple instructions to multiple items of equipment. You also use this API to remove instructions from items of equipment.

Prerequisites

- You have created an item of equipment.
- You have created the instruction you want to assign.

Request

- **HTTP Method:**PUT
- **Example URL:**Application_URL/services/api/v1/equipment/instructions
- **Authorization:**You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:**To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_instructions_put file.

Response

- If the system assigns instructions to equipment successfully, the system returns the HTTP status code as “204”.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_instructions_put.

8.24 Update Spare Parts of Equipment

This API allows you to add/remove/update the quantities of multiple parts to an equipment.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/equipment/spareparts
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_spareparts_put.

Response

If spare parts exist and you have the necessary authorizations, the system returns the updated list of equipment spare parts for the specified equipment ID and version.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_spareparts_put.

If the equipment does not exist, or you do not have appropriate authorizations to update the equipment spare parts, the system returns an error message.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_spareparts_put.

8.25 Creating Future Events Associated with Equipment

You use this API to create future events associated with the equipment.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/equipment({equipmentID})/futureEvent
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment assigned to your user ID in the SAP Cloud Platform account.

Response

If the future event is created successfully, the system returns the future event details. Otherwise, the system returns an empty array.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfbf13c/1902/en-US/equipment.html#equipment__equipmentID__futureEvent_post file.

8.26 Finding Organizations Relevant to the Equipment

Use this API to find a list of organizations relevant to the equipment, comprising of the manufacturer, service provider, dealer, regulator and insurer.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/organizations
- *Example URL:* Application_URL/services/api/v1/organizations
- *Authorization:* You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns the list of organizations.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#organizations_get.

8.27 Viewing Organizations with Specific Role Relevant to the Equipment

Use this API to view list of organizations with specific role relevant to the equipment, comprising of the manufacturer, service provider, dealer, regulator and insurer.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/organizations/byrole
- *Authorization:* You must have the roles EQUIPMENT_EDIT, EQUIPMENT_READ or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns the list of organizations with the specified role.

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#organizations_byrole_get.

8.28 Viewing Enumerations for an Item of Equipment

You use this API to view different types of enumerations required to create an item of equipment.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/enumeration?type=<ENUMERATION_TYPE>
- *Query Parameter:* type
type: Refers to the enumeration type.
Description: Use this API to get the required enumerations while creating equipment by specifying the appropriate enumeration type.

i Note

You can specify multiple enumeration types in the query parameters to get multiple enumerations.

- **Example URL:** Application_URL/services/api/v1/enumeration?type=EquipmentSafetyRisk&type=SourceBPRole
- **Authorization:** You must have the roles EQUIPMENT_READ, EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Following are the allowed enumeration types:

- DurationUnit
- StepRole
- Tools
- InstructionStatus
- Source
- RiskCategory
- LanguageISOCode
- StoredOn
- DocumentCategory
- FileSize
- DocumentPhaseCode
- InstructionType
- Criticality
- Priority
- ManufacturerAnnouncement
- OperatorAnnouncement
- AnnouncementType
- RegistrationStatus
- OperatorAnnouncementStatus
- EquipmentStatus
- EquipmentSafetyRisk
- DocumentCategoryOption
- AccountType
- AnnouncementSourceProcessingStatus
- AnnouncementNonSourceProcessingStatus
- AttributeType
- AttributeOption
- BusinessPartnerType
- EquipmentTracking
- SourceBPRole
- AttributeDimension
- ImprovementCaseStatus
- ImprovementCaseEvent
- ImprovementCaseType
- ImprovementCaseRole
- ProjectType
- EquipmentLifeCycle

- ComputedDurationUnit
- AttributeDataType
- TemplateType
- ExpiryDate
- ObjectPermission
- ImprovementCaseOrgConfig
- ImprovementCaseConnectionConfig
- DuplicateReasonCode
- LocationType
- AccessPrivilege
- ExternalSystemStatus
- ExternalSystemType
- MimeGroup
- OrgScope
- ExtensionStatus
- AnnouncementPhase
- AnnouncementAvailability

Response

- On successful execution, the system returns enumerations values. Otherwise, the system returns an empty object.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#enumeration_get.

8.29 Viewing Enumeration Values

You use this API to view enumeration values of an equipment for a particular code.

Request

- **HTTP Method:** GET
- **URL:** `Application_URL/services/api/v1/enumerationvalue?type=<ENUMERATION_TYPE>&code=<CODE>`
- **Query Parameter:** type, code
type: Refers to the enumeration type.
code: Refers to the code of the enumeration value
Description: Use this API to get a particular code value of an enumeration.
- **Example URL:** `Application_URL/services/api/v1/enumeration?type=EquipmentTracking&code=1`
- **Authorization:** You must have the roles EQUIPMENT_READ, EQUIPMENT_EDIT or EQUIPMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- On successful execution, the system returns enumerations values. Otherwise, the system returns an empty object.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#enumerationvalue_get.

8.30 Search of Equipment Based on Attribute Values

This API will allow you to search a equipment based on its attributes values.

It accepts a key value, where `<Key>` is the internal attribute ID and the value is the *String Value* or *Enum Value* depending on the attribute type. It will accept multiple pairs of attribute ID and Values seperated by **and** operator. Currently only **AND** operation is supported. For example, `/attributeSearch?$filter=CEC3DFF4634C492788AF479894AE4113 eq '266'`.

Request

- *HTTP Method*: GET
- *Example URL*: `Application_URL/services/api/v1/equipment/attributeSearch`
- *Authorization*: You must have the roles `EQUIPMENT_EDIT` or `EQUIPMENT_DELETE` or `EQUIPMENT_READ` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in as request URI parameters, refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_attributeSearch_get file.

Response

On successful execution, the system gives the list of relevant equipment. For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment_attributeSearch_get.

8.31 Configure Indicators Assigned to Equipment

This API allows you to configure indicator with thresholds and other properties to an equipment.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/equipment({id})/indicatorconfiguration`
- *Authorization:* You must have the roles EQUIPMENT_READ or EQUIPMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__id__indicatorconfiguration_post file.

Response

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__id__indicatorconfiguration_post.

8.32 View Configuration Details for an Indicator

This API allows you to view configuration details of an indicator assigned to the equipment.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/indicatorconfiguration`
- *Authorization:* You must have the roles INDICATOR_READ, EQUIPMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorconfiguration_get file.

Response

For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorconfiguration_get.

8.33 Updating Configuration of an Indicator

You use this API to edit the configured indicator of an indicator at the equipment level.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/indicatorconfiguration({id})
- *Authorization:* You must have the roles INDICATOR_EDIT, EQUIPMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#indicatorconfiguration__id__put.

Response

- If the system updates the indicator successfully, the system returns the details of the updated indicator in the response payload.
For more information, see https://help.sap.com/doc/7d8af69173014f9d95b84778778b37bd/1811/en-US/equipment.html#indicatorconfiguration__id__put.
- If the system cannot update the indicator successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcfb13c/1902/en-US/equipment.html#indicatorconfiguration__id__put.

8.34 Post Values to Indicator Assigned to Equipment

You use this API to post values to indicator assigned to the equipment.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/indicatorvalues
- *Authorization:* You must have the roles INDICATOR_EDIT, EQUIPMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_post.

Response

- If the system post values to the indicator successfully, the system returns the details of the updated indicator in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_post.
- If the system cannot post values to the indicator successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_post.

8.35 View Values for an Indicator of an Equipment

You can use this API to view values for an indicator of an equipment from various sources.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/indicatorvalues
- *Authorization:* You must have the roles INDICATOR_READ, EQUIPMENT_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_get.

Response

- On successful execution, the system returns a list of indicator values for an item of equipment with the specified ID.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_get.
- If the equipment with the specified ID does not exist, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalues_get.

8.36 Update Values Already Posted to Indicator

You can use this API to update value which is already posted to indicator.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/indicatorvalue({id})
- *Authorization:* You must have the roles INDICATOR_EDIT, EQUIPMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__put.

Response

- If the system updates the value posted to the indicator successfully, the system returns the details of the updated indicator in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__put.
- If the system cannot update the value posted to the indicator successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__put.

8.37 Delete Indicator Value

You can use this API to delete the indicator value.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/indicatorvalue({id})
- *Authorization:* You must have the roles EQUIPMENT_DELETE, INDICATOR_DELETE assigned to your user ID.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the SAP Cloud Platform account https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__delete.

Response

- On successful execution, the system deletes the indicator value.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__delete.
- If the system cannot delete the indicator value, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#indicatorvalue__id__delete.

8.38 Viewing List of Indicator Values for an Equipment and its Associated Model

You can use this API to view list of indicators associated with specified Equipment ID.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/equipment({id})/indicatorvalues`
- *Authorization:* You must have the roles INDICATOR_EDIT or EQUIPMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__id__indicatorvalues_get.

Response

- If the model with the specified ID exists, the system returns the details of the indicators assigned to the equipment in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__id__indicatorvalues_get.
- If the equipment with the specified ID exists, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__id__indicatorvalues_get.

8.39 Reset the Value of Indicators Associated with an Item of Equipment

You can use this API to reset the value of indicators associated with a equipment for which reset is possible.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/equipment({equipmentId})/reset/indicatorvalues`
- *Authorization:* You must have the roles INDICATOR_EDIT, EQUIPMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__reset_indicatorvalues_put.

Response

- On successful execution, the system resets the indicator values for an item of equipment with the specified ID.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__reset_indicatorvalues_put.
- If the equipment with the specified ID does not exist, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/040d5297b6804c3b903ee307cfcbf13c/1902/en-US/equipment.html#equipment__equipmentId__reset_indicatorvalues_put.

8.40 Creating Work Orders

You use this API to create work orders related to an equipment or location.

Request

- *HTTP Method:* POST
- *URL:* `Application_URL/services/api/v1/workorder`
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exist for an equipment or location, and you have appropriate authorizations to view the work orders, the system returns the array of work order details. Otherwise, the system returns an empty array.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorder_post file.

8.41 Updating Work Orders

You use this API to update work orders related to an equipment or location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/workorder
- *Authorization:* You must have the role EQUIPMENT_EDIT for equipment and FUNCTIONAL_LOCATION_EDIT for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exist for an equipment or location, and you have appropriate authorizations to update the work orders, the system updates the work order details. Otherwise, the system returns an error.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorder_put file.

8.42 Viewing Work Orders based on Filter Parameter

This API allows you to search for workorder based on filter query parameter.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/workorders

- **Authorization:** You must have the roles EQUIPMENT_READ or EQUIPMENT_EDIT for equipment and FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_EDIT for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exist for an equipment or location, and the appropriate filter parameters are used, the system will display the list of work orders. Otherwise, the system returns an error.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorders_get file.

8.43 Creating Notifications

You use this API to create notifications associated with an equipment or location.

Request

- **HTTP Method:** POST
- **URL:** Application_URL/services/api/v1/notification
- **Authorization:** You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP HANA Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_post file.

Response

- If the system creates a notification successfully, the system returns the details of the created notification of an equipment or location along with auto-generated ID for the notification. For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_post.
- If the system cannot create a notification successfully, the system returns appropriate error codes in the response payload.

8.44 Updating Notifications

You use this API to update notifications of an equipment or location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/notification
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP HANA Cloud Platform account.

Response

- If a notification for equipment or location exists and you have appropriate authorizations, the system updates the detail of notification.
For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_put.
- If a notification for equipment or location does not exist, or you do not have appropriate authorizations, the system returns an appropriate error message.
For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_put.

8.45 Viewing Notifications

You use this API to view notifications associated with an equipment or location.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/notification
- *Authorization:* You must have the roles EQUIPMENT_READ for equipment and FUNCTIONAL_LOCATION_READ for locations assigned to your user ID in the SAP HANA Cloud Platform account.
- *Request Schema* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_get file.

Response

If notifications exist and you have appropriate authorizations to view the notifications, system returns the array of notifications. Otherwise, system returns an empty array.

For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_get.

8.46 Viewing Notifications without External ID

You use this API to view notifications created in SAP Predictive Maintenance and Service.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/notificationswithoutexternalid
- *Authorization:* You must have the roles EQUIPMENT_READ for equipment and FUNCTIONAL_LOCATION_READ for locations assigned to your user ID in the SAP HANA Cloud Platform account.
- *Request Schema* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notificationswithoutexternalid_get file.

Response

If notifications exist without external ID and you have appropriate authorizations to view the notifications, system returns the array of notifications. Otherwise, system returns an empty array.

For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notificationswithoutexternalid_get.

9 Failure Modes

A failure mode is the manner in which the item or operation potentially fails to meet or deliver the intended function and associated requirements.

9.1 Viewing all Failure Modes

You use this API to view the list of failure modes.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes
- *Authorization:* You must have the roles FAILURE_MODE_READ assigned to your user ID in the SAP HANA Cloud Platform account.

Response

If one or more failure modes exist that match the filter criteria, system returns an array of failure modes. Otherwise, system returns a blank array of models.

For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_get.

9.2 Create a Failure Mode

This API allows you to create a new failure mode.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/failuremodes

- *Authorization:*
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_post file.

Response

On successful execution, the system creates a new failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_post.

9.3 Updating a Failure Mode

This API allows you to update the specified failure mode.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/failuremodes
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_put file.

Response

On successful execution, the system updates the specified failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_put.

9.4 Publishing a Failure mode

This API allows you to publish a failure mode.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/failuremodes/publish
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_publish_put file.

Response

On successful execution, the system publishes the specified failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_publish_put.

9.5 Deleting a Failure Mode

This API allows you to delete a failure mode.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/failuremodes/delete
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_delete_delete file.

Response

On successful execution, the system deletes the specified failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes_delete_delete.

9.6 Retrieving Details of a Failure Mode

This API allows you to get the details of a failure mode.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/failuremodes/{failureModeld}
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__get file.

Response

On successful execution, the system gets the details of the failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__get.

9.7 Viewing the RAMS Figures of a Failure Mode

You use this API to view the RAMS figures of a failure mode.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes/{failureModeld}/figures

- **Authorization:** You must have the roles FAILURE_MODE_READ assigned to your user ID in the SAP HANA Cloud Platform account.

Response

If one or more failure modes exist that match ID, system returns the RAMS figures for the failure mode.

For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__figures_get.

9.8 Updating the RAMS Figures of a Failure Mode

This API allows you to update the RAMS figures of a failure mode.

Request

- **HTTP Method:** PUT
- **Example URL:** Application_URL/services/api/v1/failuremodes/{failureModeId}/figures
- **Authorization:** You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ assigned to your user ID.
- **Request Schema:** Refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__figures_put file.

Response

On successful execution, the system publishes the RAMS figures for the specified failure mode. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__figures_put.

9.9 Viewing Business Objects Assigned to a Failure Mode

You can view all business objects assigned to a failure mode.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes/{failureModeId}/objects
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If there are business objects assigned for a specified failure mode ID, system returns the list of business object and other relevant failure mode details.

For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__objects_get.

9.10 Creating a New Revision of a Failure Mode

You use this API to move the failure mode to In Revision state.

You move the failure mode to In Revision state when you need to create a new version of the failure mode and edit the failure mode information.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/failuremodes/{failureModeId}/revise
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID .

Response

- If a failure mode with specified ID exists, and you have appropriate authorizations, system creates a new revision of the failure mode and returns the failure mode details in the SAP Cloud Platform account. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__revise_put.
- If a failure mode with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__revise_put.

9.11 Create a Copy of Failure Mode

You use this API to make a copy of failure mode.

You can create a new failure mode as a copy of an existing one.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/failuremodes/{failureModeId}/copy
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a failure mode with specified ID exists, and you have appropriate authorizations, system creates a new failure mode as a copy of the failure mode and returns the failure mode details. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__copy_post.
- If a failure mode with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__copy_post.

9.12 Dissociate Object from Failure Mode

You use this API to dissociate object from Failure mode.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/failuremodes/{failureModelId}/dissociate
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a failure mode with specified ID exists, and you have appropriate authorizations, system dissociates the object from the failure mode.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__dissociate_put.
- If a failure mode with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__dissociate_put.

9.13 Assigning a Business Object to a Failure Mode

You can assign a business object to a failure mode.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/failuremodes/{failureModelId}/assign
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__assign_put file.

Response

- If the failure mode ID is valid, then the system assigns a business object to a failure mode.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__assign_put.

9.14 Creating a Cause for a Failure Mode

You can use this API to create a cause for a failure mode.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/failuremodes/{failureModeId}/causes
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__causes_put file.

Response

- If the failure mode ID is valid, then the system creates a cause for a failure mode.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__causes_put.

9.15 View Details of Failure Mode Detection Methods

This API allows you to view the details of failure mode detection methods.

Request

- *HTTP Method*:GET
- *Example URL*:Application_URL/services/api/v1/failuremodes/{failureModeId}/detections

- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__detections_get file.

Response

- If the failure mode ID is valid, then the system returns the details of the failure mode detection methods. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__detections_get.

9.16 Updating Failure Mode Detection Methods

This API allows you to update the details of failure mode detection methods.

Request

- *HTTP Method*: PUT
- *Example URL*: Application_URL/services/api/v1/failuremodes/{failureModeId}/detections
- *Authorization*: You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__detections_put file.

Response

- If the failure mode ID is valid, then the system returns the details of the failure mode detection methods. For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#failuremodes__failuremodeid__detections_put.

9.17 Viewing Failure Modes Assigned to an Object

You use this API to get the list of failure modes assigned to an object.

Prerequisites

You have assigned one or more failure modes to an object.

Request

- **HTTP Method:** GET
- **URL:** Application_URL/services/api/v1/objects/{objectType}/{objectId}/failuremodes
- **Authorization:** You must have the roles ORG_DATA_READ, ORG_ADMIN or in the SAP Cloud Platform account.

Response

If one or more failure modes are assigned to the object with the given object type and ID, system returns an array of failure mode details. Otherwise, system returns a blank array. You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID

For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#objects__objecttype__objectid__failuremodes_get .

9.18 Assigning Failure Mode to an Object

You use this API to assign a failure mode to an object.

Prerequisites

- You have created the object.
- You have created the failure mode you want to assign.

Request

- **HTTP Method:** PUT
- **URL:** Application_URL/services/api/v1/objects/{objectID}/assign?type=<TYPE>
- **Query Parameter:** type
Description: type of object to associate, for example EQU

- **Authorization:** You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more failure modes are assigned to the object with the given object type and ID, system returns an array of failure mode details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#objects__objectid__assign_put.

9.19 Dissociate Failure Mode from Object

You use this API to dissociate failure mode from an object.

Request

- **HTTP Method:** PUT
- **URL:** Application_URL/services/api/v1/objects/{objectID}/dissociate
- **Authorization:** You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID in the SAP Cloud Platform account.

Response

- If a object with specified ID exists, and you have appropriate authorizations, system dissociates the failure mode from the object.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#objects__objectid__dissociate_put.
- If a object with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/deb9b20fc4544669b0b408d33f3435a4/1902/en-US/FailureModes.html#objects__objectid__dissociate_put.

9.20 Failure Mode Instance API

9.20.1 Viewing Failure Modes Instance

You use this API to view the details of a failure mode.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes/{failuremodesID}/figures
- *URI Parameter:*
 - failuremodesID: required (string)
- *Authorization:* You must have the roles FAILURE_MODE_READ assigned to your user ID in the SAP HANA Cloud Platform account.

Response

For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__figures_get

9.20.2 Publishing a Failure Mode Instance

This API allows you to publish a failure mode for that instance.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1//failuremodes/{failuremodesID}/figures
- *URI Parameters:*
 - failuremodesID: required (string)
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__figures_put file.

Response

On successful execution, the system publishes the specified failure mode for that instance. For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__figures_put.

9.20.3 View details of Detection Methods at Failure Mode Instance Level

This API allows you to view the details of detection methods at the failure mode instance level.

Request

- *HTTP Method*:GET
- *Example URL*:Application_URL/services/api/v1/failuremodes/{failuremodesID}/detections
- *Authorization*:You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__detections_get file.

Response

- If the failure mode ID is valid, then the system returns the details of the failure mode detection methods. For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__detections_get.

9.20.4 Updating Detection Methods at Failure Mode Instance Level

This API allows you to update the details of detection methods for the failure mode instance.

Request

- *HTTP Method*:PUT

- *Example URL:* Application_URL/services/api/v1 /failuremodes/{failuremodesID}/detections
- *Authorization:* You must have the roles FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__detections_put file.

Response

- If the failure mode ID is valid, then the system returns the details of the failure mode detection methods. For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__detections_put.

9.20.5 Viewing the Components of Failure Mode Associated with an Object

You use this API to view the components of failure mode associated with an object.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes/{failuremodesID}/{objectType}/{objectID}?type=<type of component>
- *Query Parameters:* type
type: allows you to specify the type of component CAUSE/EFFECT
- *Authorization:* You must have the roles FAILURE_MODE_READ, FAILURE_MODE_EDIT, or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- The system returns the component in a failure mode associated with a object.
- If the failure mode does not have any components assigned, the system returns an empty list. For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__get.

9.20.6 Assigning Effect to Failure Mode Instance for an Object

You use this API to assign effect to failure mode instance for an object.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/failuremodes/{failuremodesID}/{objectType}/{objectID}/assign
- *Authorization:* You must have the roles FAILURE_MODE_READ, FAILURE_MODE_EDIT or FAILURE_MODE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__assign_put.

9.20.7 Dissociate Effect from Failure Mode Instance for an Object

You use this API to dissociate failure mode from an object.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/failuremodes/{failuremodesID}/{objectType}/{objectID}/dissociate
- *Authorization:* You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID in the SAP Cloud Platform account.

Response

- If a object or failure mode with specified ID exists, and you have appropriate authorizations, system dissociates the failure mode from the object.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__dissociate_put.

- If a object or failure mode with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__dissociate_put.

9.20.8 View Detection Methods and Relevance of the Failure Mode Associated with an Object

You use this API to view details of detection methods and relevance of the failure mode associated with the object.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/failuremodes/{failuremodesID}/{objectType}/{objectID}/header
- *Authorization:* You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID in the SAP Cloud Platform account.

Response

- If a object or failure mode with specified ID exists, and you have appropriate authorizations, system returns the details of the detection method and relevance.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__header_get.
- If a object or failure mode with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#failuremodes__failuremodesid__objecttype__objectid__header_get.

9.20.9 Mark an Inherited Failure Mode as Relevant or Not relevant

You use this API to make an inherited FM as relevant/not relevant.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/objects/{objectId}/failuremodes/{relevance}
- *Authorization:* You must have the roles ORG_DATA_READ, ORG_ADMIN or ORG_DATA_EXPERT assigned to your user ID in the SAP Cloud Platform account.

Response

- If a object with specified ID exists, and you have appropriate authorizations, system marks the failure mode.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#objects__objectid__failuremodes__relevance__put.
- If a object with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/ee41a5f5f1d143c0891674123795c702/1902/en-US/FailureModesInstance.html#objects__objectid__failuremodes__relevance__put.

10 Groups

10.1 Creating a Group

You create a group when you want to club together a set of business objects. You can perform certain actions on the groups that would be applicable for all the business objects assigned to the group.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/groups
- *Authorization:* You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the Additional Information to the request schema in the https://help.sap.com/doc/e9b806e72fb24c58ac919dab1a0d47d2/1811/en-US/Groups.html#groups_post file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 131\]](#).

Response

- If the system creates a group successfully, system returns the details of group in the response payload. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_post.
- If the systems cannot create a group successfully, system returns appropriate error codes in the response payload. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_post.

10.2 Updating a Group

You want to update information related to a group that is either incorrect, or add to the existing information of a group.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/groups
- *Authorization:* You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* You must have the roles GROUP_EDIT or GROUP_DELETE assigned. To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_put file. For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 131\]](#).

i Note

When you create a group you can specify the status code for the instruction as 1 (Unpublished State), or 2 (Published State). You can update the status of the group from 1 (unpublished state) to 2 (published state) by specifying the status as 2. To create a new revision of the published group, you can specify the state as 3 (In revision). To change between the Published state and the In Revision state specify the state as 3. To change between the In Revision and Published state specify the state as 2.

Response

If the system updates a group successfully, system returns the details of the updated group. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_put.

10.3 Deleting a Group

You can use this API to delete one or more groups.

Request

- *HTTP Method*:DELETE
- *Example URL*:Application_URL/services/api/v1/groups
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 131\]](#).

Response

- If the system deletes a group successfully, the system returns status code 204. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_delete.
- If the system cannot delete a group successfully, the system returns appropriate error codes. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_delete.

10.4 Assigning a Business Object to a Group

You can assign a business object to a group.

Request

- *HTTP Method*:POST
- *Example URL*:Application_URL/services/api/v1/groups/{groupId}/assign
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__assign_postfile.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 131\]](#).

Response

- If the system assigns a business object to a group successfully, the system returns no content.
For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__assign_post.

10.5 Removing a Business Object from a Group

You can remove a business object from a group.

Request

- *HTTP Method*: PUT
- *Example URL*: `Application_URL/services/api/v1/groups/{groupid}/dissociate`
- *Authorization*: You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__dissociate_putfile.

Response

- If the system removes a business object from a group successfully, the system returns no content.
For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__dissociate_put.

10.6 Viewing Business Objects Assigned to a Group

You can view all business objects assigned to a group.

Request

- *HTTP Method*:GET
- *URL*:Application_URL/services/api/v1/groups/{groupId}/businessobjects
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_READ or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If there are business objects assigned for a specified group ID, system returns the list of business object and other relevant group details.

For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupId__businessobjects_get.

For more information about the response payload fields, their descriptions, and possible values, see [Additional Information \[page 131\]](#).

10.7 Viewing Group Types Supported for a Group

You can view all the valid group types supported for a group.

Request

- *HTTP Method*:GET
- *URL*:Application_URL/services/api/v1/enumeration?type=GroupType
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_READ or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#enumeration_type_GroupType_get.

For more information about the response payload fields, their descriptions, and possible values, see [Additional Information \[page 131\]](#).

10.8 Viewing a Group

You would want to view a group that is either in a draft (unpublished) state, published state, or in an in revision state.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/services/api/v1/groups/{groupId}
- *Authorization*: You must have the roles GROUP_EDIT or GROUP_READ or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a group with the specified group ID exists, system returns the group and the relevant details.
For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupId_get.
- If the group with the specified group ID does not exist, system returns an error code.
For more information on error codes the system returns, see response payload in https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupId_get.

10.9 Viewing Group Types

You can use this API to view all the valid group types.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/enumeration?type=GroupType
- *Authorization:* You must have the roles GROUP_EDIT or GROUP_READ or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a group type exists, system returns the group and the relevant details.
For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#enumeration_type_GroupType_get.
- If the group type does not exist, system returns an error code.
For more information on error codes the system returns, see response payload in https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#enumeration_type_GroupType_get.

10.10 Mass Publishing of Groups

If you have many Unpublished groups, or groups in In Revision state, you can use this service to publish one or more groups.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/groups/publish
- *Authorization:* You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_publish_put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 131\]](#).

Response

- If the system updates the status of the specified group successfully, the system returns status code 204. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_publish_put.
- If the system cannot update the status of the specified group, the system returns appropriate error codes.

For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups_publish_put.

10.11 Copying a Group

You can use this API to copy a group.

Request

- *HTTP Method*: POST
- *URL*: `Application_URL/services/api/v1/groups/{groupId}/copy`
- *Authorization*: You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a group with the specified ID exists, system copies the group and the relevant details. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__copy_post.
- If the group with the specified ID does not exist, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupid__copy_post.

10.12 Revising a Group

You can use this API to create a new revision of a group that is already published.

Request

- *HTTP Method*:PUT
- *URL*:Application_URL/services/api/v1/groups/{groupId}/revise
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a group with the specified ID exists and is already published, system creates a new revision of the group. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupId__revise_put.
- If the group with the specified ID does not exist, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#groups__groupId__revise_put.

10.13 Viewing Groups for a Business Object

You can use this API to view all the valid groups for a business object.

Request

- *HTTP Method*:GET
- *URL*:Application_URL/services/api/v1/objects/{businessObjectId}/groups
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_READ or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a group for the specified business object ID exists, system returns the group and the relevant details. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#objects__businessObjectId__groups_get.
- If the group does not exist for the specified business object ID, system returns an error code. For more information on error codes the system returns, see response payload in https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#objects__businessObjectId__groups_get.

10.14 Assigning a Business Object to Multiple Groups

You can use this API to assign a business object to multiple groups.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/businessobjects/{businessObjectId}/assign?botype={boType}`
- *Authorization:* You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#businessobjects__businessObjectId__assign_botype__boType__post file.

Response

- If the system assigns a business object to multiple groups successfully, the system returns no content. For more information, see https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#businessobjects__businessObjectId__assign_botype__boType__post.

10.15 Removing a Business Object from Multiple Groups

You can use this API to remove a business object from multiple groups.

Request

- *HTTP Method*:PUT
- *Example URL*:`Application_URL/services/api/v1/objects/{businessObjectID}/unassign?botype={boType}`
- *Authorization*:You must have the roles GROUP_EDIT or GROUP_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#objects__businessObjectID__unassign_botype__boType__put file.

Response

- If the system removes a business object from multiple groups successfully, the system returns no content. For more information, seehttps://help.sap.com/doc/6b92d6402ede4542b1a46c85ee2091d6/1902/en-US/Groups.html#objects__businessObjectID__unassign_botype__boType__put .

10.16 Additional Information

The following table provides information about the fields of the request payload, along with the corresponding group types, codes, thier relevant descriptions and business objects that can be assigned to each group type:

1. Group Type: There can be various group types.

Group Type Code	Description
VAR	Variant
CA	Criticality Assessment
FMEA	FMEA
FLEET	Fleet
GEN	Training

Group Type Code	Description
ORG	Organization
PRO	Project
HC	Handover and Commissioning

2. BusinessObjectTypes: All 8 business object types are supported in groups. The codes and types of business objects that are being used in the payload:

Business Object Type Code	Description
EQU	Equipment
FL	Location
PRT	Spare Part
MOD	Model
CAT	Template
INS	Instruction
ANN	Announcement
DOC	Documents

3. Group Type and Business Objects Mapping: Specific business Object types can be a part of a group type. The mapping is as follows:

Group Type	Business Objects
Criticality Assessment	Equipment, Locations
FMEA	Equipment, Locations
Handover and Commissioning	All - Equipment, Locations, Documents, Instructions, Models, Spare Parts, Announcement, Templates
Training	All - Equipment, Locations, Documents, Instructions, Models, Spare Parts, Announcement, Templates
Project	All - Equipment, Locations, Documents, Instructions, Models, Spare Parts, Announcement, Templates
Organization	All - Equipment, Locations, Documents, Instructions, Models, Spare Parts, Announcement, Templates

Group Type	Business Objects
Fleet	Equipment
Variant	Model, Spare Parts
Organization	Equipment, Locations

11 Instructions

An instruction is a set of steps that help you to carry out a specific task. In SAP Asset Strategy and Performance Management, a manufacturer shares instructions with an operator. The instructions help the operator to get the most from an item of equipment.

SAP Asset Strategy and Performance Management allows you to create the following types of instructions:

- Planned maintenance
- Breakdown
- Installation
- Operations
- Disposal

For simplicity, the following sections deal with a planned maintenance instruction.

11.1 Creating an Instruction

As a manufacturer, you create an instruction to help the operator get the most from an item of equipment.

Request

- *HTTP Method*:POST
- *Example URL*:Application_URL/services/api/v1/instructions
- *Authorization*:You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_post file.

For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 142\]](#).

Response

If the system updates an instruction successfully, system returns the details of the updated instruction. For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_post.

11.2 Updating an Instruction

You can use this API to update information related to an instruction that is either incorrect, or add to the existing information of an instruction.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/instructions
- *Authorization:* You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_put file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 142\]](#).

i Note

When you create an instruction you can specify the status code for the instruction as 1 (Unpublished State), or 2 (Published State). You can update the status of the instruction from 1 (unpublished state) to 2 (published state) by specifying the status as 2. To create a new revision of the published instruction, you can specify the state as 3 (In revision). To change between the Published state and the In Revision state specify the state as 3. To change between the In Revision and Published state specify the state as 2.

Response

If the system updates an instruction successfully, system returns the details of the updated instruction. For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_put.

11.3 Viewing Multiple Instructions

You can view single/multiple instructions that is either in a draft (unpublished) state, published state, or in an in revision state.

Request

- *HTTP Method*:GET
- *URL*:Application_URL/services/api/v1/instructions
- *Query parameters*:filter: apply search on retrieved data, Count: get count of records fetched
Status:allows you to specify the state of the instruction. It can take the following values:
 - 1- specifies the instruction is in unpublished sate
 - 2- specifies the instruction is In published state
 - 3-specifies the instruction is in In Revision state
- *Authorization*:You must have the roles INSTRUCTION_EDIT or INSTRUCTION_READ or INSTRUCTION_DELETE assigned to your user IDin the SAP Cloud Platform account.

Response

- If instructions exist, system returns the instruction and the relevant details.
For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_get.
- If the instructions do not exist, system returns an error code.
For more information on error codes the system returns, see response payload in https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_get.

11.4 Deleting an Instruction

Request

- *HTTP Method*:DELETE
- *Example URL*:Application_URL/services/api/v1/instructions
- *Authorization*:You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user IDin the SAP Cloud Platform account.

- **Request Schema:** https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 142\]](#).

Response

- If the system deletes an instruction successfully, the system returns status code 204. For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_delete.
- If the system cannot delete an instruction successfully, the system returns appropriate error codes. For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_delete.

11.5 Mass Publishing of Instructions

If you have many Unpublished instructions, or instructions in In Revision state, you can use this service to publish them at once.

Request

- **HTTP Method:** PUT
- **Example URL:** `Application_URL/services/api/v1/instructions/publish`
- **Authorization:** You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_publish_put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 142\]](#).

Response

- If the system updates the status of the specified instruction successfully, the system returns status code 204.
For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_publish_put.
- If the system cannot update the status of the specified instruction, the system returns appropriate error codes.

For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_publish_put.

11.6 Viewing an Instruction

You can view an instruction that is either in a draft (unpublished) state, published state, or in an in revision state.

Request

- *HTTP Method*: GET
- *URL*: `Application_URL/services/api/v1/instructions(<instruction ID>)?status=2`
- *Query parameters*:
 - Status*: allows you to specify the state of the instruction. It can take the following values:
 - 1- specifies the instruction is in unpublished state
 - 2- specifies the instruction is in published state
 - 3- specifies the instruction is in In Revision state
- *Example URL*: `Application_URL/services/api/v1/instructions(E0B15BE85E2B41FBA06069B8D61CEB09)?status=2`
- *Authorization*: You must have the roles INSTRUCTION_EDIT or INSTRUCTION_READ or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions__instructionId__get.
- If the instruction with the specified instruction ID and the status does not exist, system returns an error code. If an instruction with the specified instruction ID and the specified status exists, system returns the instruction and the relevant details.
For more information on error codes the system returns, see response payload in https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions__instructionId__get.

11.7 Viewing Assigned Announcements for an Instruction

You can use this API to view the list of all assigned announcements to an instruction.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/services/api/v1/instructions({instruction ID})/announcements
- *Example URL*: Application_URL/services/api/v1/instructions(E0B15BE85E2B41FBA06069B8D61CEB09)/announcements
- *Authorization*: You must have the roles INSTRUCTION_EDIT or INSTRUCTION_READ or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If there are announcements assigned for a specified instruction ID, system returns the list of announcements and other relevant instruction details.

For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions__instructionId__announcements_get.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 142\]](#).

11.8 Viewing Assigned Models for an Instruction

You can use this API to view all assigned models to an instruction.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/services/api/v1/instructions({instructionId})/models
- *Example URL*: Application_URL/services/api/v1/instructions(E0B15BE85E2B41FBA06069B8D61CEB09)/models
- *Authorization*: You must have the roles INSTRUCTION_EDIT or INSTRUCTION_READ or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If there are models assigned for a specified instruction ID, system returns the list of models and other relevant instruction details.

For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions__instructionId__models_get.

For more information about the response payload fields, their descriptions, and possible values, see [Additional Information \[page 142\]](#).

11.9 Viewing Assigned Equipment for an Instruction

You can use this API to view all assigned equipment to an instruction.

Request

- *HTTP Method*: GET
- *URL*: `Application_URL/services/api/v1/instructions({instructionId})/equipments`
- *Example URL*: `Application_URL/services/api/v1/instructions(E0B15BE85E2B41FBA06069B8D61CEB09)/equipments`
- *Authorization*: You must have the roles INSTRUCTION_EDIT or INSTRUCTION_READ or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If there are equipment assigned for a specified instruction ID, system returns the list of equipment and other relevant instruction details.

For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions__instructionId__equipments_get.

For more information about the response payload fields, their descriptions, and possible values, see [Additional Information \[page 142\]](#).

11.10 Assigning Models to an Instruction

You can use this API to assign models to an instruction.

Prerequisite

You have created a model (see [Creating a Model Header \[page 172\]](#))

Request

- *HTTP Method*: POST
- *Example URL*: Application_URL/services/api/v1/instructions/models/assign
- *Authorization*: You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_models_assign_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 142\]](#).

Response

- If the system assigns a model to an instruction successfully, the system returns no content.
For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_models_assign_post.
- If a model has been assigned to a published instruction, the model gets assigned to the instruction successfully.

11.11 Assigning Equipment to an Instruction

You can use this API to assign an equipment to an instruction.

Prerequisite

You have created an equipment.

Request

- *HTTP Method*:POST
- *Example URL*:Application_URL/services/api/v1/instructions/equipments/assign
- *Authorization*:You must have the roles INSTRUCTION_EDIT or INSTRUCTION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_equipments_assign_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 142\]](#).

Response

- If the system assigns an equipment to an instruction successfully, the system returns no content.
For more information, see https://help.sap.com/doc/2292e8c9ed864adc92140273035a0c0f/1902/en-US/instruction.html#instructions_equipments_assign_post.
- If an equipment has been assigned to a published instruction, the equipment gets assigned to the instruction successfully.

11.12 Additional Information

The following table provides information about the fields of the request payload, along with the corresponding data types, and the data type descriptions:

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
instructionType (Mandatory)	String	Specifies the type of instruction. You can create five types of instructions. The following list provides the types of instructions and the corresponding codes: <ul style="list-style-type: none">• Planned Maintenance - 1• Breakdown - 2• Installation - 3• Operations - 4• Disposal - 5

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
subClass (Mandatory)	String	Specifies the subclass that the instruction belongs to. <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 5px;"> <p>i Note</p> <p>If you want to assign the instruction to a model, the model must belong to the same subclass as that of an instruction.</p> </div>
status (Mandatory)	String	Specifies the status of an instruction. The following list provides the list of statuses and the corresponding status codes: <ul style="list-style-type: none"> • Unpublished - 1 • Published - 2 • In revision - 3
activityCode (Mandatory)	String	Specifies an activity code for a primary action performed as part of the instruction. For more information, see the Activity Codes table.
Title (Mandatory)	String	Specifies the title of an instruction.
instructionDescription (Optional)	String	Specifies a detailed description for an instruction.
duration (Mandatory)	Double	Specifies the expected time required to execute an instruction. You can use this field when you create a planned maintenance instruction.
durationUnit (Mandatory)	String	Specifies the unit of time for the duration. You can use this field when you create a planned maintenance instruction. For more information, see the Duration Unit and Codes table.
peopleRequired (Optional)	Integer	Specifies the number of people required to execute the instruction.

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
documentID in documentIDList at the instructionHeader level (Optional)	String	<p>Specifies the document ID that you can assign at the instruction header level.</p> <p>For a list of supported MIME types, see the Supported MIME Types for Attachments table.</p> <div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p>i Note</p> <p>The document ID is a unique ID generated by the system when you upload a document. (see Uploading a Document [page 43])</p> </div>
documentID in vdsDocumentIDList at the instructionHeader level (Optional)	String	<p>Specifies the document ID of a 3D visual file that you want to assign at an instruction header level.</p> <div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p>i Note</p> <p>The document ID is a unique ID generated by the system when you upload a document. (see Uploading a Document [page 43])</p> </div>
documentID in documentIDList at the steps level (Optional)	String	<p>Specifies the document ID of an image file or a 3D visual that you want to assign at an instruction header level.</p> <div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p>i Note</p> <p>The document ID is a unique ID generated by the system when you upload a document. (see Uploading a Document [page 43])</p> </div>
documentID at the steps level (Optional)	String	<p>Specifies the document ID that you want to assign to a step.</p> <p>For a list of supported mime types, see Table Supported MIME Types for Attachments.</p> <div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p>i Note</p> <p>The document ID is a unique ID generated by the system when you upload a document. (see Uploading a Document [page 43])</p> </div>

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
failureCode (Mandatory)	String	<p>Specifies failure codes that define different methods in which an item of equipment, or a model might break-down. These codes are based on ISO standards and you can use them when you create a breakdown instruction.</p> <p>For more information on various failure mode codes, see the Failure Codes table.</p>
frequency (Mandatory)	Integer	Specifies the frequency at which the instruction must be executed. You can use this field when you create a planned maintenance instruction.
frequencyUnit (Mandatory)	String	Specifies the unit of time for the frequency
criticality (Mandatory)	String	Specifies how important an instruction is for the general maintenance and reliability of an item of equipment. You can use this field when you create a planned maintenance instruction.
postCheckDescription (Optional)	String	Specifies the post checks to be performed after executing an instruction.
ruleCode (Optional)	String	<p>Specifies the safety rule code that you can assign to an instruction.</p> <p>For more information, see the Safety Rule Codes table.</p>
stepName (Mandatory)	String	Specifies the name of a step in an instruction.
stepDescription (Optional)	String	Specifies the step description for an instruction.
riskCategory (Optional)	String	<p>Specifies the level of potential harm to the environment or injury to the user when you carry out a step in an instruction. The following list contains the list of risk categories and the corresponding codes:</p> <ul style="list-style-type: none"> • Low - 1 • Medium - 2 • High - 3

Field Name (Mandatory or Optional)	Data Type	Description and Possible Values
riskDescription(Optional)	String	Specifies a risk description.
roleCode (Optional)	String	Specifies the role code that corresponds to the role that you require to execute a step in an instruction. For more information, see the Role Codes table.
sparePartID (Optional)	String	Specifies the spare part ID.
quantity (Optional)	Double	Specifies the quantity for a spare part.
toolName (Optional)	String	Specifies the name of the tool required to perform an instruction.
modelID (optional)	String	Specifies the ID of the model assigned to the instruction.
<div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p>i Note</p> <p>The model ID is a unique ID generated by the system when you create a model. (see Creating a Model Header [page 172])</p> </div>		
updateDeleteFlag	String	Specifies if you can update or delete the steps, preconditions, attachments, or post checks in an instruction. Possible values include 'u' for update and 'd' for delete.
assignUnassignFlag	String	Specifies whether you can assign a model to an instruction or remove an assignment of a model from an instruction. Also, specifies whether you can assign an attachment to a step in an instruction, or remove an assignment of a step in an instruction. Possible values include 'a' for assign and 'ua' for removing an assignment.

Duration Unit and Codes

Field	Code	Description
durationUnit	1	Minutes
	2	Hours

Field	Code	Description
	3	Days
	4	Weeks
	5	Months
	6	Years

Role Codes

Field	Code	Description
roleCode	1	Heavy Equipment Technician
	2	Maintenance Technician
	3	Electrical Technician
	4	Electric Line Worker
	5	Maintenance Helper
	6	Welder-Fitter
	7	Diver
	8	Crane Operator
	9	Heavy Equipment Operator
	10	Health and Safety Advisor
	11	Instrument Technician
	12	Maintenance Supervisor
	13	Marine Engineer
	14	Painter/Coater
	15	Pipe Fitter
	16	Scaffolder
	17	Pipeline Inspector
	18	Mechanical Inspector
	19	Electrical Inspector
	20	Instrumentation Inspector

Safety Rule Codes

Field	Code	Description
ruleCode	1	Wear a safety helmet
	2	Read the safety manual
	3	Wear safety overalls
	4	Ground connection is required
	5	Wear ear protection
	6	Wear eye protection
	7	Wear safety boots
	8	Wear safety gloves

Failure Codes

Field	Code	Description
failureCode	FTF	Fail to function
	FTO	Fail to open
	FTC	Fail to close
	DOP	Operation delay
	HIO	Output is high
	LOO	Output is low

12 Locations

12.1 Creating a Location

This API allows you to create a location for an equipment. As a prerequisite, you must create a functional unit and then create the functional location under the functional location.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/location`
- *Authorization:* You must have the roles `FUNCTIONAL_LOCATION_EDIT` or `FUNCTIONAL_LOCATION_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_post file.

Response

- If the system creates a location successfully, the system returns the details of the created location with an auto-generated ID.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_post.
- If the system cannot create the location successfully, system returns appropriate error codes in the response payload.

12.2 Updating a Location

You can use this API to update locations.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/location
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_put file.

Response

- If the system updates the location successfully, system returns the details of the updated location in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_put.
- If the system cannot update the location successfully, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_put.

12.3 Adding or Removing Templates to a Location

You can use this API to add or remove templates to a location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/location/templates
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If the system updates the template change successfully, the system returns the details of the updated location in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_templates_put.
- If the system cannot update the template successfully, the system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_templates_put.

12.4 Viewing a Location

You can use this API to view a location with the specified ID.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/location({id})?status=1, 2 or 3
Description: Use the URL with status 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)?status= 2
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_READ, FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a location with specified location ID exists, and you have necessary authorizations to view it, system returns the details of the location.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_id__get.
- If location with the specified location ID does not exist, or you do not have appropriate authorizations to view it, system returns an error code.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location_id__get.

12.5 Deleting a Location

You use this API to delete a location.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/location({id})
- *Example URL:* Application_URL/services/api/v1/location (E0B15BE85E2B41FBA06069B8D61CEB09)
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the location successfully, system returns code "204 No Content" in the response payload.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__delete.

12.6 Viewing Attachments of a Location

This API allows you to view attachments of a location.

Prerequisites

You have assigned one or more attachments to a location.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/location({id})/attachments?status=1, 2 or 3
- *Query Parameter:* status
Description: Use the URL with status 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/attachments?status=2
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT, FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_DELETE or DOCUMENT_READ assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more attachments are assigned to the location with the given location ID, system returns an array of attachment details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__attachments_get.

12.7 Assigning Attachments to a Location

You can use this API to assign attachments to a location.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/location({id})/attachments
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/attachments
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE or DOCUMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

The API returns the document details assigned to the location.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__attachments_post.

12.8 View Hierarchy of a Given Location Object

This API allows you to view the hierarchy of given location object.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/location({id})/components
- *Query Parameter:* Status, Immediate, Version
Version: version of the location
Status Description: Use the URL with status 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
Immediate: Flag to indicate whether to fetch immediate component or all components of the location object. Possible values are "true" or "false".
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT, FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_DELETE or DOCUMENT_READ assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more attachments are assigned to the location with the given location ID, system returns an array of attachment details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__components_get.

12.9 Updating Location Values

This API allows you to update location values for a location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/location({id})/values
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__values_put.

Response

If the system updates the location value change successfully, the system returns the details of the updated location value in the response payload. Otherwise, the system returns appropriate error codes.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__values_put.

12.10 Viewing Location Values

This API allows you to view location values for a location.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/services/api/v1/location({id})/values?status=1, 2, or 3
- *Query Parameter*: status
Description: Use the URL with status 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL*: Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/values?status=2
- *Authorization*: You must have the roles FUNCTIONAL_LOCATION_EDIT, FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If the location with specified location ID exists and you have appropriate authorizations to view it, system returns the location value details.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__values_get.
- If the location with specified location ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__values_get.

12.11 Publishing a Location

You can use this API to you to change the status of location to publish.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/location({id})/publish
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/publish
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a location with specified ID exists and you have appropriate authorizations to publish it, system publishes the location and returns the location details
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__publish_put.
- If a location with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__publish_put.

12.12 Revising a Location

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/location({id})/revise
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/revise
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If the location with specified ID exists, and you have appropriate authorizations, system creates a location in **In Revision** state and returns the location details.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__revise_put.
- If the location with the specified ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__revise_put.

12.13 Assign or Unassign Tags

You can use this API to assign or unassign tags.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/location({id})/tags
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE or DOCUMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

The API returns the tags assigned to the location.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__tags_put.

12.14 View All Tags Assigned to a Location

You can use this API to view all the tags assigned to location.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/location({id})/tags
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE or DOCUMENT_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

The API returns the tags assigned to the location.

For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__tags_get.

12.15 Viewing Location Templates for a Location

As an operator, you can view the location templates for a location.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/location({id})/templates?version={version}
- *Query Parameter:* version
Refers to version of the location for which you want to view the location templates.
- *Example URL:* Application_URL/services/api/v1/location(E0B15BE85E2B41FBA06069B8D61CEB09)/templates?version=2
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT, FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a location with the specified location ID exists, system returns the details of the templates that are assigned to the location along with attribute group and attributes assigned to the template.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__templates_get.
- If the location with the specified ID does not exist, or you do not have appropriate authorizations to view the location templates, system returns an error message.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__templates_get.

12.16 Assign or Unassign Equipment to a Location

You can use this API to assign or unassign items of equipment to a location.

Request

- *HTTP Method:* PATCH
- *URL:* Application_URL/services/api/v1/location({id})/equipment
- *Authorization:* You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__equipment_patch.
- If the system cannot update the location successfully, the system returns appropriate error code in the response payload. If the system updates the location change successfully, the system returns the details of the updated location in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__equipment_patch.

12.17 Update Installation Location of a Functional Location

You can use this API to update installation location section of functional location.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/location({id})/installationlocation`
- *Authorization:* You must have the roles `FUNCTIONAL_LOCATION_EDIT` or `FUNCTIONAL_LOCATION_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_put file.

Response

- If the system updates the location successfully, system returns the details of the updated location in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_put.
- If the system cannot update the location successfully, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_put.

12.18 View Installation Location Details of a Functional Location

You can use this API to view installation location details of functional location.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/location({id})/installationlocation`
- *Authorization:* You must have the roles `FUNCTIONAL_LOCATION_EDIT` or `FUNCTIONAL_LOCATION_DELETE` assigned to your user ID in the SAP Cloud Platform account.

- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_get file.

Response

- If the system updates the location successfully, system returns the details of the updated location in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_get.
- If the system cannot update the location successfully, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#location__id__installationlocation_get.

12.19 Publishing Multiple Locations

You can use this API to publish the list of location that you have specified.

Request

- **HTTP Method:** PUT
- **URL:** Application_URL/services/api/v1/locations/publish
- **Authorization:** You must have the roles FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a location with specified ID exists, and you have appropriate authorizations, system returns a status code "204" in the response.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#locations_publish_put.
- If a location with specified IDs do not exist, or you do not have appropriate authorizations, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/8e4a4828fc76493483b6c9fc1b8828b9/1902/en-US/location.html#locations_publish_put.

12.20 Creating Work Orders

You use this API to create work orders related to an equipment or location.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/workorder
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exist for an equipment or location, and you have appropriate authorizations to view the work orders, the system returns the array of work order details. Otherwise, the system returns an empty array.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorder_post file.

12.21 Updating Work Orders

You use this API to update work orders related to an equipment or location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/workorder
- *Authorization:* You must have the role EQUIPMENT_EDIT for equipment and FUNCTIONAL_LOCATION_EDIT for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exist for an equipment or location, and you have appropriate authorizations to update the work orders, the system updates the work order details. Otherwise, the system returns an error.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorder_put file.

12.22 Viewing Work Orders based on Filter Parameter

This API allows you to search for workorder based on filter query parameter.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/equipment({equipmentId})/workorders
- *Authorization:* You must have the roles EQUIPMENT_READ or EQUIPMENT_EDIT for equipment and FUNCTIONAL_LOCATION_READ or FUNCTIONAL_LOCATION_EDIT for locations assigned to your user ID in the SAP Cloud Platform account.

Response

If work orders exists for an equipment or location, and the appropriate filter parameters are used, the system will display the list of work orders. Otherwise, the system returns an error.

For more information, see https://help.sap.com/doc/3268df574c93456ea8fb959e8d518f28/1902/en-US/workOrder.html#workorders_get file.

12.23 Viewing Notifications

You use this API to view notifications associated with an equipment or location.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/notification
- *Authorization:* You must have the roles EQUIPMENT_READ for equipment and FUNCTIONAL_LOCATION_READ for locations assigned to your user ID in the SAP HANA Cloud Platform account.

- *Request Schema* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_get file.

Response

If notifications exist and you have appropriate authorizations to view the notifications, system returns the array of notifications. Otherwise, system returns an empty array.

For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_get.

12.24 Viewing Notifications without External ID

You use this API to view notifications created in SAP Predictive Maintenance and Service.

Request

- *HTTP Method*: GET
- *URL*: `Application_URL/services/api/v1/notificationswithoutexternalid`
- *Authorization*: You must have the roles `EQUIPMENT_READ` for equipment and `FUNCTIONAL_LOCATION_READ` for locations assigned to your user ID in the SAP HANA Cloud Platform account.
- *Request Schema* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notificationswithoutexternalid_get file.

Response

If notifications exist without external ID and you have appropriate authorizations to view the notifications, system returns the array of notifications. Otherwise, system returns an empty array.

For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notificationswithoutexternalid_get.

12.25 Creating Notifications

You use this API to create notifications associated with an equipment or location.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/notification
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP HANA Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_post file.

Response

- If the system creates a notification successfully, the system returns the details of the created notification of an equipment or location along with auto-generated ID for the notification. For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_post.
- If the systems cannot create a notification successfully, system returns appropriate error codes in the response payload.

12.26 Updating Notifications

You use this API to update notifications of an equipment or location.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/notification
- *Authorization:* You must have the roles EQUIPMENT_EDIT or EQUIPMENT_DELETE for equipment and FUNCTIONAL_LOCATION_EDIT or FUNCTIONAL_LOCATION_DELETE for locations assigned to your user ID in the SAP HANA Cloud Platform account.

Response

- If a notification for equipment or location exists and you have appropriate authorizations, the system updates the detail of notification.
For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_put.
- If a notification for equipment or location does not exist, or you do not have appropriate authorizations, the system returns an appropriate error message.
For more information, see https://help.sap.com/doc/7f578cf90bfe4f868abe0ee100a3762a/1902/en-US/notifications.html#notification_put.

13 Model Requests

13.1 Creating a Model Request

This API allows you to create a model request with the given details.

Request

- *HTTP Method*:POST
- *Example URL*:Application_URL/services/api/v1/modelrequests
- *Authorization*:You must have the roles MODEL_REQUEST_EDIT or MODEL_REQUEST_DELETE assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in thehttps://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests_post file.

Response

The system successfully creates a model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests_post.

13.2 Viewing Model Requests

This API allows you to view number of model requests based on query parameters.

Request

- *HTTP Method*:GET
- *Example URL*:Application_URL/services/api/v1/modelrequests
- *Query Parameter*:filter

- *Authorization*: You must have the roles MODEL_REQUEST_EDIT or MODEL_REQUEST_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests_get file.

Response

If the system successfully returns the model request details based on the query parameter. For more information, see To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests_get.

13.3 Updating a Model Request

This API allows you to update a model request of specified ID.

Request

- *HTTP Method*: PUT
- *Example URL*: `Application_URL/services/api/v1/modelrequests/{modelrequestId}`
- *Authorization*: You must have the roles MODEL_REQUEST_EDIT or MODEL_REQUEST_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__put file.

Response

If a model request with the specified ID exists, the system successfully updates the model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__put.

13.4 Viewing Basic Details of a Model Request

This API allows you view basic details of a model request for a given ID.

Request

- *HTTP Method*: GET
- *Example URL*: `Application_URL/services/api/v1/modelrequests/{modelrequestId}`
- *Authorization*: You must have the roles MODEL_REQUEST_READ or MODEL_REQUEST_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__get file.

Response

If a model request with the specified ID exists, system successfully returns the basic details of the model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__get.

13.5 Deleting a Model Request

This API allows you to delete a model request of specified ID.

Request

- *HTTP Method*: DELETE
- *Example URL*: `Application_URL/services/api/v1/modelrequests/{modelrequestId}`
- *Authorization*: You must have the roles MODEL_REQUEST_EDIT or MODEL_REQUEST_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__delete file.

Response

If a model request with the specified ID exists, system successfully deleted the model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestsId__delete.

13.6 View Equipment Assigned to a Model Request

This API allows you view all equipments that are assigned to a particular model request.

Request

- *HTTP Method*:GET
- *Example URL*:Application_URL/services/api/v1/modelrequests/{modelrequestsId}/equipments
- *Authorization*:You must have the roles MODEL_REQUEST_READ or MODEL_REQUEST_EDIT assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestsId__equipments_get file.

Response

If a model request with the specified ID exists, system successfully returns the list of equipments assigned to the model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestsId__equipments_get.

13.7 View Documents Assigned to a Model Request

This API allows you view all documents that are assigned to a particular model request.

Request

- *HTTP Method*:GET

- *Example URL*: Application_URL/services/api/v1 /modelrequests/{modelrequestId}/documents
- *Authorization*: You must have the roles MODEL_REQUEST_READ or MODEL_REQUEST_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__documents_get file.

Response

If a model request with the specified ID exists, system successfully returns the list of documents assigned to the model request. For more information, see https://help.sap.com/doc/e0c52141987a4bb9bff8e9b89484a194/1902/en-US/ModelRequest.html#modelrequests__modelrequestId__documents_get.

14 Models

A model is an abstract representation from the manufacturer that defines all maintenance and specification information related to a new or existing product. A physical equipment is an instance of a model.

A model comprises of the following information:

- **Header:** Primary information that describes a model such as name, description, to name a few.
- **Attributes:** Properties of a model.
- **Components:** Detachable objects of a model.
- **Assignments:** Objects that are associated with a model such as instructions, documents, to name a few.

Public APIs are available for each of these specific sections of a model.

14.1 Creating a Model Header

A model header pertains to the model information such as class, subclass, and model template names.

Additionally, a model header also specifies other key information for a model using parameters such as equipment tracking, service date, expiry date, and model generation.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/models`
- *Authorization:* You must have the roles MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_post.

Response

- If a model is created successfully, system auto generates a model ID and returns the details of the model header in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_post.

i Note

System creates a model header and saves the model in an unpublished state. You can change the state of the model to a published state.

For more information, see [Publishing a Model \[page 178\]](#).

- If the system cannot create a model header, system returns appropriate error codes in the response payload. For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_post.

14.2 Viewing a List of Models Based on the Filters

You can view a list of all models that match a search criteria. Additionally, you can also use this API to search for models based on model fields with the required filter query parameters.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models
- *Query parameters:* \$filter
\$filter: allows you to specify a search text using which you can filter the models
- *Example URL:* Application_URL/services/api/v1/models?\$filter=substringof(<FILTER VALUE>, <HEADER PROPERTIES>)
Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <HEADER_PROPERTIES> is the attribute that contains the text.
For filters, this API follows ODATA URI conventions. For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_get.
- *Authorization:* You must have the roles MODEL_DELETE or MODEL_EDIT or MODEL_READ assigned to your user ID in the SAP Cloud Platform account.

Response

- If one or more models exist that match the filter criteria, system returns an array of models. Otherwise, system returns a blank array of models.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_get.
- If system cannot retrieve models that match the filter criteria, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_get.

14.3 Viewing the Model Count

You use this API to get a count of all models that you have access for. You also use this API to get the count of filtered count by filtering the data.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models/\$count
- *Query Parameter:* \$filter
\$filter: allows you to specify a search text using which you can filter the models.
- *Example URL:* Application_URL/services/api/v1/models/\$count?\$filter=substringof('Sample model',Name)
- *Authorization:* You must have the roles MODEL_DELETE, MODEL_EDIT, or MODEL_READ assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more models exist that match the filter criteria, system returns the count of models. Otherwise, system returns the count as 0.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__count_get.

14.4 Viewing a Model Header

You can view details of a model header before you publish, or before you update the details of a model header.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})header?status=<STATUS>
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)header?status=2
- *Authorization:* You must have the roles MODEL_DELETE, MODEL_EDIT, or MODEL_READ assigned to your user ID in the SAP Cloud Platform account.

Response

If the model exists with the given status, the system returns model header information. Otherwise, system returns an appropriate error message.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__header_get.

14.5 Updating a Model Header

You use this API to update the header information of a model.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/models({modelId})/header`
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__header_put.

Response

- If the system updates the model header successfully, the system returns the details of the updated model header in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__header_put.
- If the system cannot update the model header successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__header_put.

14.6 Deleting a Model

You use this API to delete a model.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/models({modelId})
- *Example URL:* Application_URL/services/api/v1/models(EOB15BE85E2B41FBA06069B8D61CEB09)
- *Authorization:* You must have the roles MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the model header successfully, system returns the code "204 No Content" in the response payload.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__delete.

14.7 Publishing Multiple Models

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models/publish
- *Example URL:* Application_URL/services/api/v1/models/publish
- *Authorization:* You must have the roles MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If the models with specified ID exists, and you have appropriate authorizations, system returns a status code "204" in the response.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_publish_put.

- If the models with specified IDs do not exist, or you do not have appropriate authorizations, system returns appropriate error codes.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_publish_put.

14.8 Revising a Model

You change the status of a model from Published to In Revision when you need to update model information such as header, attribute values, etc. The In Revision version of the model is accessible to users with edit access to the model.

Prerequisite

You have created a model and the model is in Published state.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models({modelId})/revise
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/revise
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

- If the model with specified ID exists, and you have appropriate authorizations, system creates a model in In Revision state and returns the model details.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__revise_put.
- If the model with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error codes.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__revise_put.

14.9 Publishing a Model

You can publish a model so that the users of your organization can use to view model information or create an item of equipment.

Prerequisite

You have created a model and the model is in the <Unpublished> or <In Revision> state.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models({modelId})/publish
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/publish
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

- If the model with a specified ID exists and you have appropriate authorizations to publish it, system publishes the model and returns the model details.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__publish_put.
- If the model with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns appropriate error message.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__publish_put.

14.10 Viewing Model Attribute Values

You use this API to view the attribute values of a model. These values are based on the underlying class templates, subclass templates, and model templates.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})/values/?<STATUS>=1, 2, or 3
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/values?status=2
- *Authorization:* You must have the roles MODEL_READ, MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

- If the model with specified model ID exists and you have appropriate authorizations to view it, system returns the attribute values of the specified model.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__values_get.
- If the model with specified model ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__values_get.

14.11 Updating Model Attribute Values

You use this API to update the attribute values of a model. These values are based on the underlying class templates, subclass templates, and model templates.

i Note

You can update a model only when no item of an equipment uses the model.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models({modelId})/values
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__values_put.

Response

- If the system updates the attribute values successfully, the system returns the updated attribute value in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__values_put.
- If the system cannot update the model value successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__values_put.

14.12 Viewing Documents of a Model

Documents provide information that is required to use and maintain an item of equipment efficiently. You can view one or more documents that are assigned to a model.

Prerequisite

You have assigned one or more documents to a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})/documents?status=<STATUS>
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/documents?status=2

- **Authorization:** You must have the roles MODEL_READ, MODEL_EDIT or MODEL_DELETE, or DOCUMENT_READ assigned to your user ID in the SAP Cloud Platform account.

Response

- If the model has a list of documents, the system returns an array of documents. Otherwise, system returns a blank array.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__documents_get.

14.13 Assigning Documents to a Model

You use this API to assign documents to a model.

Request

- **HTTP Method:** POST
- **URL:** Application_URL/services/api/v1/models({modelId})/documents
- **Example URL:** Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/documents
- **Authorization:** You must have the roles MODEL_DELETE or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__documents_post.

Response

- If the models with specified ID exists, and you have appropriate authorizations, system assigns the documents to the model and returns the document details.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__documents_post.
- If the models with specified IDs do not exist, or you do not have appropriate authorizations, system returns appropriate error message.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__documents_post.

14.14 Viewing Instructions of a Model

Instructions help the operator to get the best out of an item of equipment. As a manufacturer, you can view the list of all instructions that you have assigned for a model.

Prerequisite

You have assigned one or more instructions to a model.

For more information, see [Assigning Models to an Instruction \[page 141\]](#).

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})/instructions
- *Query parameters:* \$count
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/instructions.
- *Authorization:* You must have the roles MODEL_READ, MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

- The system returns all the instructions assigned to the model.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__instructions_get.

14.15 Assigning an Instruction to a Model

Using this API, you can assign or remove multiple instructions to multiple models..

Prerequisite

You have created an instruction. For more information, see [Creating an Instruction \[page 134\]](#)

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models/instructions
- *Authorization:* You must have the roles MODEL_EDIT or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_instructions_put file.

Response

- If the system assigns instructions to models successfully, the system returns the status code 204. For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_instructions_put.

14.16 Viewing Announcements of a Model

Announcements provide single source of information for collaborators who are using the model and are assigned by the manufacturer. You can view the list of all announcements for a model using this service.

Prerequisite

You have assigned one or more announcements to a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})/announcements
- *Example URL:* Application_URL/services/api/v1/models/(E0B15BE85E2B41FBA06069B8D61CEB09)/announcements
- *Authorization:* You must have the roles MODEL_READ, MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

If the model with the specified ID exists, the system returns an array of announcements assigned to the model.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__announcements_get.

14.17 Viewing Spare Parts of a Model

You use this API to view the spare parts of a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/models({modelId})/spareparts?status=<STATUS>&\$filter=substringof(<FILTER_VALUE>, <PROPERTY_NAME>)>
- *Query Parameters:* Status and \$filter
\$filter: allows you to specify a search text using which you can filter the models
Description: Use the URL with STATUS of the model to get the spare parts assigned. You can also use this API to filter the results using \$filter.
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/spareparts?status=2
- *Authorization:* You must have the roles MODEL_READ, MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- The system returns the spare parts assigned to the model for the specified model ID and version.
- If the model does not have any spare parts assigned, the system returns an empty list.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__spareparts_get.

14.18 Updating Spare Parts of a Model

You use this API to add or remove the spare parts to or from a model.

Request

- *HTTP Method:* PUT
- *URL:* `Application_URL/services/api/v1/models/spareparts`
- *Authorization:* You must have the roles MODEL_EDIT or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_spareparts_put.

Response

The system returns the updated spare parts for the specified model ID.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_spareparts_put.

14.19 Viewing Model Components

You use this API to view the components of a model.

Request

- *HTTP Method:* GET
- *URL:* `Application_URL/services/api/v1/models({modelId})/components?version=<VERSION>&immediate=<IMMEDIATE>`
- *Query Parameters:* version and immediate
Description: Use the URL with VERSION of the model and the IMMEDIATE Boolean flag. Possible values for immediate flag is `true`, `false`. If the immediate flag is true, the API returns only the immediate children of the model. If the immediate flag is false, the API returns the complete hierarchy.
- *Example URL:* `Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/components?version=&immediate=true`
- *Authorization:* You must have the roles MODEL_READ, MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- The system returns the model components for the specified model ID and version.
- If the model components with specified IDs and version do not exist, or you do not have appropriate authorizations, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__components_get.

14.20 Updating Model Components

This API allows you to update the components of a model. The components you add or remove should be the immediate child components of the model. The API does not support partial update of data.

For example, if you have a component A assigned to model B and you want to assign a new component C to B, then you must send both A and C in the request payload. The API removes the components that are not present in the request payload.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/models({modelId})/components
- *Example URL:* Application_URL/services/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/components
- *Authorization:* You must have the roles MODEL_EDIT or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__components_put.

Response

- The system returns the updated model components for the specified model id.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__components_put.

14.21 Finding the Manufacturer of a Model

This API provides a list of manufacturers from which you can populate the manufacturer field while creating or updating a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/organizations
- *Authorization:* You must have the roles MODEL_READ, MODEL_EDIT or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns a list of manufacturers.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#organizations_get.

14.22 Viewing Enumerations for a Model

You use this API to view the different types of enumerations that are required to create a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/enumeration?type=<ENUMERATION_TYPE>
- *Query Parameters:* type
Description: Use this API to get the required enumerations while creating a model by specifying the appropriate enumeration type. You can specify multiple enumeration types in the query parameters to get multiple enumerations.
- *Example URL:* Application_URL/services/api/v1/enumeration?type=EquipmentTracking&type=SourceBPRole
- *Authorization:* You must have the roles MODEL_READ, MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
The following are the allowed enumeration types:
 - DurationUnit

- StepRole
- Tools
- InstructionStatus
- Source
- RiskCategory
- LanguageISOCode
- StoredOn
- DocumentCategory
- FileSize
- DocumentPhaseCode
- InstructionType
- Criticality
- Priority
- ManufacturerAnnouncement
- OperatorAnnouncement
- AnnouncementType
- RegistrationStatus
- OperatorAnnouncementStatus
- EquipmentStatus
- EquipmentSafetyRisk
- DocumentCategoryOption
- AccountType
- AnnouncementSourceProcessingStatus
- AnnouncementNonSourceProcessingStatus
- AttributeType
- AttributeOption
- BusinessPartnerType
- EquipmentTracking
- SourceBPRole
- AttributeDimension
- ImprovementCaseStatus
- ImprovementCaseEvent
- ImprovementCaseType
- ImprovementCaseRole
- ProjectType
- EquipmentLifeCycle
- ComputedDurationUnit
- AttributeDataType
- TemplateType
- ExpiryDate
- ObjectPermission
- ImprovementCaseOrgConfig
- ImprovementCaseConnectionConfig
- DuplicateReasonCode
- LocationType

- AccessPrivilege
- ExternalSystemStatus
- ExternalSystemType
- MimeGroup
- OrgScope
- ExtensionStatus
- AnnouncementPhase
- AnnouncementAvailability

Response

The system returns the enumeration values if they exist. Otherwise, the system returns an empty object. For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#enumeration_get.

14.23 Viewing Enumeration Values

You use this API to view the enumeration values for a particular code.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/enumerationvalue?type=<ENUMERATION_TYPE>&code=<CODE>
- *Query Parameters:* type and code
 type: the type of enumeration.
 code: code of the enumeration value
 Description: Use this API to get a particular code value of an enumeration.
- *Example URL:* Application_URL/services/api/v1/enumeration?type=EquipmentTracking&code=1
- *Authorization:* You must have the roles MODEL_READ, MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- The system returns the model components for the specified model ID and version.
- If the model components with specified IDs and version do not exist, or you do not have appropriate authorizations, system returns an appropriate error message.
 For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#enumerationvalue_get.

14.24 Search of Models Based on Attribute Values

This API will allow you to search a model based on its attributes values.

It accepts a key value, where *Key* is the internal attribute ID and the value is the *String Value* or *Enum Value* depending on the attribute type. It will accept multiple pairs of attribute ID and Values separated by **and** operator. Currently only **AND** operation is supported. For example, `/attributeSearch?$filter=CEC3DFF4634C492788AF479894AE4113 eq '266'`.

Request

- *HTTP Method*: GET
- *Example URL*: `Application_URL/services/api/v1/models/attributeSearch`
- *Authorization*: You must have the roles MODEL_EDIT or MODEL_DELETE or MODEL_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in as request URI parameters, refer to the request schema in the https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_attributeSearch_get.

Response

On successful execution, the system gives the list of relevant equipment. For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models_attributeSearch_get.

14.25 Configure an Indicator to a Model

You use this API to configure indicator with thresholds and other properties to a model.

Request

- *HTTP Method*: POST
- *Example URL*: `Application_URL/services/api/v1/model({id})/indicatorconfiguration`
- *Authorization*: You must have the roles MODEL_EDIT, or MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id___indicatorconfiguration_post.

Response

- If an indicator is created successfully, system displays a confirmation message.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id__indicatorconfiguration_post.
- If the system cannot create an indicator, system returns appropriate error codes in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id__indicatorconfiguration_post.

14.26 Viewing Configuration Details of an Indicator Assigned to a Model

You can use this API to view the configurations details of an indicator assigned to a model.

Prerequisite

You have configured one or more indicators to a model.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/indicatorconfiguration
- *Authorization:* You must have the roles MODEL_READ, MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

Response

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorconfiguration_get.

14.27 Updating an Indicator

You use this API to edit the configured indicator.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/indicatorconfiguration({id})`
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorconfiguration__id__put.

Response

- If the system updates the indicator successfully, the system returns the details of the updated error code in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorconfiguration__id__put.
- If the system cannot update the indicator successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorconfiguration__id__put.

14.28 Post Values to Indicator

You use this API to post values to indicator.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/indicatorvalues`
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_post.

Response

- If the system post values to the indicator instances successfully, the system returns the details of the updated indicator in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_post.
- If the system cannot post values to the indicator instances successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_post.

14.29 View Indicator Values for a Model

You can use this API to view all the values of an indicator from various sources for a model.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/indicatorvalues
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_get.

Response

- If the model with the specified ID exists, the system returns the details of the indicators assigned to the model in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_get.
- If the model with the specified ID exists, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalues_get.

14.30 Update Value of an Indicator

You use this API to update indicator value which is already posted.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/indicatorvalue({id})
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalue__id__put.

Response

- If the system updates the indicator successfully, the system returns the details of the updated indicator in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalue__id__put.
- If the system cannot update the indicator successfully, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalue__id__put.

14.31 Deleting an Indicator Value

You use this API to delete the indicator value.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/indicatorvalue({id})
- *Authorization:* You must have the roles MODEL_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the error code successfully, system returns the appropriate error code in the response payload.

For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#indicatorvalue__id__delete.

14.32 View List of Indicators Associated with a Model

You can use this API to view list of indicators associated with specified model Id.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/model({id})/indicatorvalues
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id__indicatorvalues_get.

Response

- If the model with the specified ID exists, the system returns the details of the indicators assigned to the model in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id__indicatorvalues_get.
- If the model with the specified ID exists, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__id__indicatorvalues_get.

14.33 Modify the List of Templates Assigned to a Model

You can use this API to modify the list of templates associated with the model of specified id.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/models({modelId})/templates`
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__templates_put.

Response

- If the model with the specified ID exists, the system returns the details of the indicators assigned to the model in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__templates_put.
- If the model with the specified ID exists, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#models__modelId__templates_put.

14.34 Reset the Value of Indicators

You can use this API to reset the value of indicators associated with a model for which reset value is maintained.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/model({modelId})/reset/indicatorvalues`
- *Authorization:* You must have the roles MODEL_DELETE, or MODEL_EDIT assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__modelId__reset_indicatorvalues_put.

Response

- If the model with the specified ID exists, the system returns the details of the indicators assigned to the model in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__modelId__reset_indicatorvalues_put.
- If the model with the specified ID exists, the system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/e8d1e2658da546de98ef9a6038474334/1902/en-US/model.html#model__modelId__reset_indicatorvalues_put.

15 Network Authorizations

15.1 Creating an Authorization Group

This API allows you create an instruction to help the operator get the most from an item of equipment.

Request

- *HTTP Method*:POST
- *Example URL*:Application_URL/services/api/v1/authorization/groups
- *Authorization*:You must have the roles SHARING_EDIT or SHARING_DELETE assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in thehttps://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups_post file.

Response

If the system successfully creates an authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups_post.

15.2 Update Header Information of an Authorization Group

This API allows you to update header information of an authorization group.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1 /authorization/groups({groupId})/header

- *Authorization*: You must have the roles SHARING_EDIT or SHARING_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__header_put file.

Response

If the system updates an authorization group successfully, system returns the details of the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__header_put.

15.3 View Details of an Authorization Group

This API allows you to view header information of an authorization group.

Request

- *HTTP Method*: GET
- *Example URL*: `Application_URL/services/api/v1 /authorization/groups({groupId})/header`
- *Authorization*: You must have the roles SHARING_EDIT or SHARING_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__header_get file.

Response

The system returns the details of the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__header_get.

15.4 Add or Remove Business Partners to an Authorization Group

This API allows you to add/remove business partners to an authorization group.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/authorization/groups({groupId})/members
- *Authorization*:You must have the roles SHARING_EDIT or SHARING_DELETE assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in thehttps://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups_groupId__members_put file.

Response

The system returns the update the business partners for the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups_groupId__members_put.

15.5 View Objects Assigned to an Authorization Group

This API allows you to view objects assigned to an authorization group.

Request

- *HTTP Method*:GET
- *Example URL*:Application_URL/services/api/v1/authorization/groups({groupId})/objects
- *Authorization*:You must have the roles SHARING_EDIT or SHARING_READ assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in thehttps://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups_groupId__objects_get file.

Response

The system returns the objects assigned to the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__objects_get.

15.6 Update Objects Assigned to an Authorization Group

This API allows you to update objects to an authorization group.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/authorization/groups({groupId})/objects
- *Authorization*:You must have the roles SHARING_EDIT or SHAINING_READ assigned to your user IDin the SAP Cloud Platform account.
- *Request Schema*:To know about fields that you can use in a request payload, refer to the request schema in thehttps://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__objects_put file.

Response

The system returns the updated object list assigned to the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__objects_put.

15.7 Update Dependent Object to an Authorization Group

This API allows you to update dependent objects to an authorization group.

Request

- *HTTP Method*:PUT
- *Example URL*:Application_URL/services/api/v1/authorization/groups({groupId})/objects/dependent

- *Authorization*: You must have the roles SHARING_EDIT or SHAIING_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__objects_dependent_put file.

Response

The system returns the updated dependent object list assigned to the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__objects_dependent_put.

15.8 Deleting an Authorization Group

This API allows you to delete an authorization group.

Request

- *HTTP Method*: DELETE
- *Example URL*: `Application_URL/services/api/v1/authorization/groups({groupId})`
- *Authorization*: You must have the roles SHARING_EDIT or SHAIING_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__delete file.

Response

The system deletes the authorization group. For more information, see https://help.sap.com/doc/8a8ab5b43e264e73b4978d180d602aa8/1902/en-US/NetworkAuthorization.html#authorization_groups__groupId__delete.

16 Performance Improvement

When in a problem with the product or process, trigger a workflow that brings together the relevant stakeholders of your asset. These stakeholders collaborate and help you resolve your case by giving a solution or recommendation.

16.1 Creating an Improvement Request

You create an improvement request when you face an issue with a product or process.

By creating an improvement request, parties relevant to this case collaborate and provide you with a suggestion or a solution.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/services/api/v1/improvementrequests
- *Authorization:* You must have the roles IMPROVEMENT_EDIT or IMPROVEMENT_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to [Additional Information \[page 209\]](#) and the request schema in the https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests_post file.

Response

If the service executes successfully, an improvement request is created. Otherwise, the system returns appropriate error code. For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests_post.

16.2 Viewing the List of Improvement Requests

You use this API to view those improvement requests where you are added as the processor.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/improvementrequests
- *Authorization:* You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Query Parameter:* For details about the query parameter, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests_get.

Response

Based on the query parameters, the system returns the details of a list of improvement requests.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests_get.

16.3 Viewing an Improvement Request

As a reviewer or requestor, you can view an improvement request to validate it before sending the case to the recommendation provider. You use this API to view the improvement request of the ID you specify.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/improvementcase/{improvementCaseId}
- *Authorization:* You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Query Parameter:* For details about the query parameter, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaseId__get.

Response

Based on the query parameters, the system returns the details of the specified improvement request.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaselId__get.

16.4 Updating an Improvement Request

You use this API to update an improvement request by specifying the improvement request ID.

Request

- *HTTP Method:* PUT
- *URL:* `Application_URL/services/api/v1/improvementcase/{improvementCaselId}`
- *Authorization:* You must have the roles IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaselId__put and the [Additional Information \[page 209\]](#) section.

Response

- The system returns the updated request information in the response payload.
For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaselId__put.
- If the system cannot update the improvement request successfully, system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaselId__put.

16.5 Deleting an Improvement Request

As a requestor or reviewer, you use this API to delete an improvement request .

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/improvementcase/{improvementCaseId}
- *Authorization:* You must have the role IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the improvement request successfully, system returns code "200" in the response payload.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaseId__delete.

16.6 Viewing the Improvement Request Count

You use this API to view the number of improvement requests in which you were added as the processor or based on the query parameters you use for filtering the improvement request count.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/improvementrequests/\$count
- *Authorization:* You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Query Parameter:* For details about the query parameter, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests__count_get.

Response

Based on the query parameters, the system returns the details of number of improvement requests based on your specified parameters.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementrequests__count_get.

16.7 Viewing Equipment Attached to an Improvement Request

You use this API to view the equipment that were assigned to the improvement request.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/improvementcase/{improvementCaseId}/equipments
- *Authorization:* You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

Based on the URI parameters, the system returns the details of documents attached to the improvement request. For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaseId__equipments_get.

16.8 Viewing Instructions Assigned to an Improvement Request

You use this API to view the instructions that were assigned to the improvement request.

Request

- *HTTP Method:* GET

- **URL:** Application_URL/services/api/v1 /improvementcase/{improvementCaseId}/instructions
- **Authorization:** You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **URI Parameter:** For details about the URI parameter, see [Additional Information \[page 209\]](#)

Response

Based on the URI parameters, the system returns the details of instructions assigned to the improvement request.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaseId__instructions_get.

16.9 Viewing Documents Attached to an Improvement Request

You use this API to view the documents that were assigned to the improvement request.

Request

- **HTTP Method:** GET
- **URL:** Application_URL/services/api/v1/improvementcase/{improvementCaseId}/documents
- **Authorization:** You must have the roles IMPROVEMENTCASE_READ, IMPROVEMENTCASE_EDIT or IMPROVEMENTCASE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **URI Parameter:** For details about the URI parameter, see [Additional Information \[page 209\]](#)

Response

Based on the URI parameters, the system returns the details of documents attached to the improvement request.

For more information, see https://help.sap.com/doc/296dc3fb4aac440a811cb94aaa99dc9e/1902/en-US/ImprovementRequest.html#improvementcase__improvementCaseId__documents_get.

16.10 Additional Information

Request Payload Information

Field Name	Data Type	Description and Possible Values
caseName (mandatory)	String	Specifies the name of the improvement request.
caseType (mandatory)	String	Specifies the improvement request. Possible values are: 1-Product Improvement 2-Process improvement 3-Maintenance improvement
priority (mandatory)	String	Specifies the case priority. Possible values are: 1-Low 2-Medium 3-High
commercialImpact (optional)	Integer	Commercial risk involved due to the performance issue. Possible values: 0 to 5
safetyImpact	Integer	Safety risk. Possible values: 0 to 5
environmentalImpact	Integer	Possible values: 0 to 5
operationalImpact	Integer	Possible values: 0 to 5
urgency	Integer	Possible values: 0 to 5
referenceObjectId (mandatory)	String	Specifies the affected Object ID
id (mandatory)	String	Specifies the ID of the improvement case that has to be addressed
finalRecommendation(mandatory/ optional based on the improvement case status)	String	Specify a recommendation. It is mandatory when the improvement case is in the Submitted or In Process states.
requestDescription	String	Specify the nature of the problem.

Field Name	Data Type	Description and Possible Values
equipmentList	List of JSON Objects	<p>List of equipment IDs that have a problem.</p> <p>assigneeld: Equipment ID</p> <p>isAdded: Flag to determine if equipment is being added or deleted.</p> <p>If true then equipment was added to case, if false the equipment was deleted from the case.</p> <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 10px; margin-top: 10px;"> <p>i Note</p> <ul style="list-style-type: none"> • A requestor can add/delete when the case is in Created, Author Action, Recommendation Provided, or Rejected states. • A reviewer can add/delete when the case is in Author Action, Recommendation Provided, Rejected, or In Review states. </div>

Field Name	Data Type	Description and Possible Values
instructionList	List of JSON Objects	<p>List of instruction IDs that are associated with this improvement case.</p> <p>assigneeId: Instruction ID</p> <p>isAdded: Flag to determine if instruction is being added or deleted.</p> <p>If true, then the instruction is being added to the case. If false, then the instruction is being deleted from the case.</p> <p>assigneeType: Determines the section of this instruction that is being added.</p> <p>10: If Request section</p> <p>11: If Recommendation section</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i Note</p> <ul style="list-style-type: none"> • A requestor can add/delete in the Request section when the case is in Created, Author Action, Recommendation Provided, or Rejected states. • A reviewer can add/delete a Request section when the case is in Author Action, Recommendation Provided, Rejected, or In Review states. • A recommendation provider can add/delete the Recommendation section when the case is in In Process or Submitted states. </div>

Field Name	Data Type	Description and Possible Values
documentList	List of JSON Objects	<p>List of document IDs that are associated with this improvement case.</p> <p>assigneeId: Improvement case ID</p> <p>documentID: ID of the document you want to assign</p> <p>assignUnassignFlag: Flag to determine if the document is being added or deleted.</p> <p>If true, then the document is being added to the case. If false, then the document is being deleted from the case.</p> <p>assigneeType: Determines the section to this document that is being added.</p> <p>10: If Request section</p> <p>11: If Recommendation section</p> <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p>i Note</p> <ul style="list-style-type: none"> • A requestor can add/delete in the Request section when the case is in Created, Author Action, Recommendation Provided, or Rejected states. • A reviewer can add/delete a Request section when the case is in Author Action, Recommendation Provided, Rejected, or In Review states. • A recommendation provider can add/delete the Recommendation section when the case is in In Process or Submitted states. </div>
requestorId (mandatory)	String	ID of the Improvement requestor.
reviewerId (mandatory)	String	ID of the Improvement Reviewer.
processorId (mandatory)	String	ID of the Recommendation Provider

Field Name	Data Type	Description and Possible Values
requestType	String	Specifies the type of the Request <div style="background-color: #f0f0f0; padding: 5px;"> <p>i Note</p> <p>For Improvement Request, it will always be 1.</p> </div>
dueDate	String	Specifies the approximate date by which the request needs to be handled
referenceObjectType (mandatory)	String	Specifies the type of affected object <div style="background-color: #f0f0f0; padding: 5px;"> <p>i Note</p> <p>Following are types supported:</p> <ul style="list-style-type: none"> • MOD : Model • EQU : Equipment • FL : Function Location </div>

17 Spare Parts

Spare parts are components that are kept in your inventory as spare. With SAP Asset Strategy and Performance Management, you can record a spare part's manufacturing information, dimensions, quantity, shelf life, to name a few. A spare part inherits attributes from a subclass. You can assign a spare part to a model.

Public APIs are available for creating, updating, viewing and deleting spare parts. You can also view steps and models assigned to a part using APIs.

17.1 Creating a Spare Part

You use this API to create a spare part and view details of the created spare part.

Request

- *HTTP Method:* POST
- *URL:* Application_URL/rest/api/v1/parts
- *Authorization:* You must have the roles PART_EDIT or PART_DELETE assigned to your user ID.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_post file.

Response

- If the system creates the spare part successfully, system returns the details of the spare part in the response payload.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_post.
- If the system cannot create a spare part successfully, appropriate error code is returned in the response payload.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_post.

17.2 Viewing all Spare Parts

You use this API to view the list of spare parts that you have created.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts
- *Authorization:* You must have the roles PART_EDIT or PART_DELETE assigned to your user ID.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_get file.

Response

- The system returns the list of spare parts in the response payload.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_get.

17.3 Updating a Spare Part

You use this API to update a spare part and add additional information.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/rest/api/v1/parts
- *Authorization:* You must have the organization administrator roles or PART_EDIT or PART_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_put.

Response

If the service executes successfully, the system updates the spare part. For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_put.

17.4 Deleting Spare Parts

You use this API to delete one or more spare parts.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/rest/api/v1/parts/remove
- *Authorization:* You must have the organization administrator roles or PART_EDIT or PART_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_remove_put.

Response

If the service executes successfully, the system deletes the spare parts. For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_remove_put.

17.5 Viewing Enumeration Details of Spare Parts

You use this API to view the enumeration details of a spare part such as subclass, manufacturer details, to name a few.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts/enumerations
- *Authorization:* You must have the roles PART_EDIT or PART_DELETE assigned to your user ID.

Response

- The system retrieves the enumeration details of the spare part.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_enumerations_get.

17.6 Assigning Documents to a Spare Part

You use this API to assign and unassign documents for a part. For assigning documents use 'operation' as 'add' and for unassigning documents use 'operation' as 'remove' in payload.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/rest/api/v1/parts/documents
- *Example URL:* Application_URL/rest/api/v1/models(E0B15BE85E2B41FBA06069B8D61CEB09)/documents
- *Authorization:* You must have the roles PART_DELETE or PART_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_documents_put.

Response

- The system assigns the documents to the spare part.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_documents_put.

17.7 Viewing a Spare Part

You use this API to view the details of a particular spare part.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts({partid})
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)
- *Authorization:* You must have the roles PART_EDIT or PART_DELETE assigned to your user ID.
- *Query Parameter:* partid.
partid: Specify the spare part ID.

Response

- If you have specified a valid spare part ID, the system returns the details of the spare part. Otherwise, the system returns appropriate error code.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__get.

17.8 Viewing Models Related to a Spare part

You use this API to view all the models where the particular sparepart is assigned.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts({partid})/models
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/models
- *Authorization:* You must have the roles PART_EDIT or PART_DELETE assigned to your user ID.
- *Query Parameter:* partid.
partid: Specify the spare part ID.

Response

- If you have specified a valid spare part ID, the system returns the details of the spare part. Otherwise, the system returns appropriate error code.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__models_get.

17.9 Viewing Steps Assigned to a Spare Part

You use this API to view the steps assigned to a spare part.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts({partid})/steps
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/steps
- *Authorization:* You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.
- *URI Parameter:* partid.
partid: Specify the spare part ID.

Response

The system retrieves the list of steps assigned to the spare part.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__steps_get.

17.10 Assigning Templates to a Spare Part

You use this API to assign templates to the spare part.

Request

- *HTTP Method:* PUT

- *URL:* Application_URL/rest/api/v1/parts({partid})/templates
- *Example URL:* Application_URL/rest/api/v1/parts(E0B15BE85E2B41FBA06069B8D61CEB09)/templates
- *Authorization:* You must have the roles PART_DELETE or PART_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__templates_put.

Response

- The system assigns templates to the spare part.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__templates_put.

17.11 Assigning Attribute Values to a Spare Part

You use this API to assign attribute values to the spare part.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/rest/api/v1/parts({partid})/values
- *Example URL:* Application_URL/rest/api/v1/parts(E0B15BE85E2B41FBA06069B8D61CEB09)/values
- *Authorization:* You must have the roles PART_DELETE or PART_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__values_put.

Response

- The system assigns the attribute values to the spare part.
For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__values_put.

17.12 Viewing all Documents Assigned to a Spare Part

You use this API to view all the documents assigned to a sparepart.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts({partid})/documents
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/documents
- *Authorization:* You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.
- *URI Parameter:* partid.
partid: Specify the spare part ID.

Response

The system retrieves all the documents assigned to a sparepart.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts_partid_documents_get .

17.13 Viewing all Equipment Assigned to a Spare Part

You use this API to view all the equipment assigned to a sparepart.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/rest/api/v1/parts({partid})/equipment
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/equipment
- *Authorization:* You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.
- *URI Parameter:* partid.
partid: Specify the spare part ID.

Response

The system retrieves all the equipment assigned to a sparepart.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__equipment_get.

17.14 Changing Operating Status for a Spare Part

You can use this API to change the operating status for a sparepart.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/rest/api/v1/parts({partid})/phase
- *Example URL:* Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/phase
- *Authorization:* You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.
- *Query Parameter:* phase
Phase(Operating status) code that sparepart needs to be changed. Specify 1 for Planned, 4 for Released and 7 for Obsolete

Response

The system retrieves all the equipment assigned to a sparepart.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__phase_put.

17.15 Assigning Successors to a Spare Part

You can use this API to assign successors to the spare part.

Request

- *HTTP Method:* PUT

- *URL*: Application_URL/rest/api/v1/parts({partid})/successors
- *Example URL*: Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/successors
- *Authorization*: You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.

Response

The system assigns successors to the sparepart.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__successors_put.

17.16 View Predecessor of a Spare Part

You can use this API to view predecessor to the spare part.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/rest/api/v1/parts({partid})/predecessor
- *Example URL*: Application_URL/rest/api/v1/parts(E42B20A6E0A34E388D40E8B39879D95A)/predecessor
- *Authorization*: You must have the roles PART_READ, PART_EDIT or PART_DELETE assigned to your user ID.

Response

The system assigns successors to the sparepart.

For more information, see https://help.sap.com/doc/b20aaa6c214a40d38776caf710271f60/1902/en-US/parts.html#parts__partid__predecessor_get.

18 Systems

Systems enable you to manage a composition of equipment together which have a certain function to perform.

System Topology

System Topology enables you to create Industrial network topology, defining ports and interfaces and connections between them

This API allows you to configure equipment with ports and interfaces and create connections between the ports of equipment.

18.1 Viewing all Systems

You use this API to view the list of systems that you have access for.

Request

- **HTTP Method:** GET
- **URL:** Application_URL/services/api/v1/systems?\$filter=substringof(<FILTER_VALUE>, <PROPERTY_NAME>)
- **Query parameter:** \$filter
\$filter: allows you to specify a search text using which you can filter the system.
Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <PROPERTY_NAME> is the attribute that contains the text.
For filters, this API follows ODATA URI conventions. For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_get.
- **Example URL:** Application_URL/services/api/v1/systems?\$filter=substringof('Sample system',Name)
- **Authorization:** You must have the roles SYSTEM_READ or SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If a system exists, and you have appropriate authorizations to view the system, system returns the array of system details. Otherwise, system returns an empty array of system details.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_get.

18.2 Creating a System

This APIs allows you to create a system.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/systems
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_post file.

Response

- On successful execution, a system is created. For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_post.

18.3 Viewing the System Count

You use this API to get a count of all authorized systems that you have access for.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/systems/\$count?\$filter substringof(<FILTER_VALUE>, <PROPERTY_NAME>)
- *Query parameters:* \$filter
\$filter: allows you to specify a search text using which you can filter the systems
Description: Where FILTER_VALUE is the parameter to search the text or a substring of the text and <PROPERTY_NAME> is the attribute that contains the text.
- *Example URL:* Application_URL/services/api/v1/systems/\$count?\$filter=substringof('Sample system',Name)
- *Authorization:* You must have the roles SYSTEM_READ or SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more systems exist that match the filter criteria, the system returns the system count. Otherwise, the system returns count as 0.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__count_get.

18.4 Viewing System Header Information

You use this API to view the header information of a system by providing the system ID and system status.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/systems(systemId)/header
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version
- *Example URL:* Application_URK/services/api/v1/systems (E0B15BE85E2B41FBA06069B8D61CEB09)/header?status= 2
- *Authorization:* You must have the roles SYSTEM_READ, SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a system with specified system ID exists, and you have necessary authorizations to view it, system returns the details of the system.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__header_get.
- If an item of equipment with the specified equipment ID does not exist, or you do not have appropriate authorizations to view it, system returns an error message.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__header_get.

18.5 Updating a System

You can use this API to edit a system.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/systems({systemId})/header
- *Example URL:* Application_URL/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/header
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__header_put.

Response

- If the system updates an System data successfully, system returns the details of the updated System in the response payload.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__header_put.
- If the system cannot update the System data successfully, system returns appropriate error message in the response payload.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__header_put.

18.6 Deleting a System

You use this API to delete a system.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1/systems({systemId})
- *Example URL:* Application_URL/services/api/v1/systems (E0B15BE85E2B41FBA06069B8D61CEB09)

- *Authorization:* You must have the roles SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system deletes the System successfully, system returns code "204 No Content" in the response payload.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__delete.

18.7 Configure Items of Equipment with Ports and Interfaces

This API allows you to configure one or more equipment with ports and interfaces against a particular system.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/systems(systemId)/topologyConfiguration
- *Authorization:* You must have the roles SYSTEM_DELETE or SYSTEM_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId_topologyConfiguration_post file.

Response

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId_topologyConfiguration_post.

18.8 Create Connections for the Equipment

This API allows you to create connections for the equipment that are configured ports and interfaces for a given system.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/systems(systemId)/topologyConnections
- *Authorization:* You must have the roles SYSTEM_DELETE or SYSTEM_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__topologyConnections_post file.

Response

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_systemId__topologyConnections_post.

18.9 Publishing Multiple Systems

You use this API to publish multiple systems in a single API call.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/ain/services/api/v1/systems/publish
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_publish_put.

Response

- If system with specified IDs exist, and you have appropriate authorizations, system publishes the given System and returns a status code "204" in the response.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_publish_put.
- If system with specified IDs do not exist, or you do not have appropriate authorizations, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems_publish_put.

18.10 Revising a System

You use this API to move the system to In Revision state.

You move the system to In Revision state when you need to create a new version of the system and edit the system information.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/ain/services/api/v1/systems({systemId})/revise
- *Example URL:* Application_URL/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/revise
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a system with specified ID exists, and you have appropriate authorizations, system creates a new revision of the system and returns the system details.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__revise_put.
 - If a system with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__revise_put.

18.11 Publishing a System

You use this API to publish a system.

When you create a system, it is in the unpublished state. You must publish the system for further utility. You use this API to publish a system by providing the system ID.

Request

- *HTTP Method:* PUT
- *URL:* Application_URL/services/api/v1/systems({systemId})/publish
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/publish
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a system with specified ID exists and you have appropriate authorizations to publish it, system publishes the System and returns the System details.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__publish_put.
- If an item of equipment with specified ID does not exist, or you do not have appropriate authorizations to view it, system returns an appropriate error message.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__publish_put.

18.12 Updating Lifecycle of a System

While creating a system you have option to create it in either 'Planned', 'Fully Operational', 'Partially Operational', or 'Not Operational' state. You create a system in **Planned** state when you do not have the physical instance of system.

You update the lifecycle of the system from **Planned** to other states when you receive the physical instance of the system.

You use this API to update the system lifecycle. The lifecycle phase changes for a system are as follows:

- **Planned** → **Fully Operational** or **Partially Operational**
- **Fully Operational** → **Partially Operational** or **Not Operational**
- **Partially Operational** → **Fully Operational** or **Not Operational**

- **Not Operational** → **Fully Operational**, **Partially Operational**, **Dispose**, **Retire**, or **Sold**
- **Dispose** → **Fully Operational** or **Partially Operational** or **Retire**
- **Retire** → **Sold**

Request

- *HTTP Method*: PUT
- *URL*: Application_URL/services/api/v1/systems({systemId})/lifecycle?lifecycle=<LIFECYCLE>
- *Query Parameter*: lifecycle
lifecycle: specifies the value of the lifecycle that you want to change to. Possible value is 2.
- *Example URL*: application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/lifecycle?lifecycle=2
- *Authorization*: You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__lifecycle_put file.

Response

- If the system updates the lifecycle of the system successfully, system returns the details of the updated system in the response payload.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__lifecycle_put.
- If the system cannot update the system successfully, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__lifecycle_put.

18.13 Viewing System Templates for a System

You use this API to view details of system templates.

Request

- *HTTP Method*: GET
- *URL*: Application_URL/services/api/v1/systems({systemId})/templates?version=<VERSION>
- *Query Parameter*: version

version: Refers to version of the system for which you want to fetch system templates.

- **Example URL:** Application URL/services/api/v1/system(E0B15BE85E2B41FBA06069B8D61CEB09)/templates?version=2
- **Authorization:** You must have the roles SYSTEM_EDIT, SYSTEM_READ or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If a system with the specified system ID exists, system returns the details of the templates that are assigned to the system along with attribute group and attributes assigned to the template. For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__templates_get.
- If the system with the specified ID does not exist, or you do not have appropriate authorizations to view the system templates, system returns an error message. For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__templates_get.

18.14 Updating Templates Associated with a System

You can use this API to modify the list of templates associated with the system of specified ID.

Request

- **HTTP Method:** PUT
- **URL:** Application URL/services/api/v1/systems({systemId})/templates
- **Example URL:** Application URL/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/templates
- **Authorization:** You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__templates_put file.

Response

- If the system updates the attribute value successfully, the system returns the updated attribute values in the response payload. Otherwise, the system returns appropriate error codes. For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__templates_put.

18.15 Viewing Equipment Components

You use this API to view the components of a system.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/systems({systemId})/components?status={status}<STATUS>&immediate=<IMMEDIATE>
- *Query Parameters:* status and immediate
Description: Use the URL with STATUS of the system and the IMMEDIATE Boolean flag. Possible values for immediate flag are 'true', 'false'. When the **immediate** flag is 'true', the API returns only the immediate children of the equipment. If it is 'false', the API returns the complete hierarchy.
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/components?status=2
- *Authorization:* You must have the roles SYSTEM_READ, SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

The system returns the system components for the specified system ID and status.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__components_get.

If the system with the specified ID does not exist, or you do not have appropriate authorizations to view the system components, system returns an error message.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__components_get.

18.16 Updating System Components

This API allows you to update components of a system. You can add or remove only immediate child components to a system.

Request

- *HTTP Method:* PUT
- *URL:* Application URL/ain/services/api/v1/systems({systemId})/components?type=<TYPE>
- *Query Parameter:* type
type: Allowed values are EQU or SYS. You can assign only one type of objects to system at a time. If you are assigning the equipments then provide EQU and if you are assigning systems then provide SYS.
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/components?type=SYS
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__components_put.

Response

If the system ID and components are valid and you have the necessary authorizations, the system returns the system components for the specified system ID and version.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__components_put.

If the system with the specified ID does not exist, or you do not have appropriate authorizations to update the system components, the system returns an error message.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__components_put.

18.17 Viewing Documents of a System

Documents provide information that is required to use and maintain a system efficiently. You use this API to view one or more documents that are assigned to a system.

Prerequisites

You have assigned one or more documents to a system.

Request

- *HTTP Method:* GET
- *URL:* Application URL/services/api/v1/systems({systemId})/documents?status=<STATUS>
- *Query Parameter:* status
Description: Use the URL with STATUS 1, 2, or 3; where 1 gets the **Unpublished** version, 2 gets the **Published** version and 3 gets the **In Revision** version.
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/documents?status=2
- *Authorization:* You must have the roles SYSTEM_EDIT, SYSTEM_READ or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more documents are assigned to the equipment with the given equipment ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__documents_get.

18.18 Assigning Documents to a System

This API allows you to assign documents to a system.

Request

- *HTTP Method:* POST
- *URL:* Application URL/ain/services/api/v1/systems({systemId})/documents
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/documents
- *Authorization:* You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If the system ID and document IDs are valid and you have necessary authorization, system assigns documents and returns the document details.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__documents_post.

18.19 Viewing Instructions of a System

You use this API to get the list of instructions assigned to the system.

Prerequisites

You have assigned one or more instructions to a system.

Request

- *HTTP Method:* GET
- *URL:* Application URL/services/api/v1/systems({systemId})/instructions
- *Example URL:* application URI/ain/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/instructions
- *Authorization:* You must have the roles SYSTEM_EDIT, SYSTEM_READ or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more instructions are assigned to the system with the given system ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__instructions_get.

18.20 Assigning or Unassigning System Instructions

You use this API to assign multiple instructions to multiple systems. You also use this API to remove instructions from systems.

Prerequisites

- You have created a system.
- You have created the instruction you want to assign.

Request

- *HTTP Method:* PUT
- *Example URL:* Application URL/services/api/v1/systems/instructions

- **Authorization:** You must have the roles SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__instructions_get file.

Response

- If the system assigns instructions to a system successfully, the system returns the HTTP status code as "204".
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__instructions_get.

18.21 Viewing Locations Derived from Component Equipments of a System

You use this API to get the list of locations derived from the equipments which are assigned as components.

Prerequisites

You have assigned one or more instructions to a component equipment of the system.

Request

- **HTTP Method:** GET
- **URL:** Application URL/services/api/v1/systems({systemId})/locations
- **Example URL:** Application URL/services/api/v1/systems(E0B15BE85E2B41FBA06069B8D61CEB09)/locations
- **Authorization:** You must have the roles SYSTEM_EDIT, SYSTEM_READ or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

If one or more locations are assigned to the equipment component of a system with the given equipment ID, system returns an array of document details. Otherwise, system returns a blank array.

For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__locations_get.

18.22 Viewing System Timeline

You use this API to view the timeline for a system.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/systems({systemId})/timeline?status=1, where status is the status of the equipment.
- *Authorization:* You must have the roles SYSTEM_READ, SYSTEM_EDIT or SYSTEM_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__timeline_get file.

Response

- On successful execution, the system returns the timeline of the system.
For more information, see https://help.sap.com/doc/85c7e55a3d214e05843cb996a3ba1700/1902/en-US/systems.html#systems__systemId__timeline_get.

19 Templates

A model template is a format created by the manufacturer to maintain metadata related to an equipment.

It inherits a subclass template and has additional attribute groups and attributes. A template inherits the structure from a subclass template that is provided by SAP Asset Strategy and Performance Management and is based on ISO/DIS standards such as 14224.

19.1 Creating an Attribute

You can create an attribute that can be assigned to an attribute group. Additionally, you can assign an attribute group to an industry standard.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/attributes`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT`, or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_post file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attribute is created successfully, system auto generates an attribute ID in the response payload. For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_post.
- If an attribute cannot be created, system returns appropriate error code in the response payload. For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_post.

19.2 View Attributes Based on Filter Conditions

You can view all the attributes based on filter conditions or gets count of all the attributes depending upon the query paramters used.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/attributes
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attribute based on the filter conditions exists, system auto generates an attribute ID in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_get.
- If an attribute does not exist, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes_get.

19.3 Viewing All Attributes

You can view number of all attributes or the number of attributes retrieved based on the text provided in the filter parameter.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/attributes/\$count

- **Authorization:** You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__count_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attributes based on the filter conditions exists, system returns a list of attributes in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__count_get.
- If an attribute does not exist, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__count_get.

19.4 Viewing an Attribute

You can view attribute of the specified ID

Request

- **HTTP Method:** GET
- **Example URL:** Application_URL/services/api/v1/attributes/{attributeID}
- **Authorization:** You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attributes with the specified ID exists, system returns the attribute in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID_get.

- If an attribute with the specified ID does not exist, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__get.

19.5 Updating an Attribute

You perform this activity while updating an existing attribute with new information.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/attributes/{attributeID}
- *Authorization:* You must have the roles TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system updates the attribute successfully, system returns the details of the updated attribute in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__put.
- If the system cannot update the attribute, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__put.

19.6 Deleting an Attribute

You perform this activity to delete an attribute of a specified ID.

Request

- *HTTP Method:* DELETE
- *Example URL:* `Application_URL/services/api/v1/attributes/{attributeID}`
- *Authorization:* You must have the roles `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attribute with the specified ID exists, the system deleted the attribute.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__delete.
- If the system cannot update the attribute, the system returns an appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__delete.

19.7 Viewing all the Equipment Where Attribute is Used

You can view all the equipments where this attribute is used and filled out.

Request

- *HTTP Method:* GET
- `Application_URL/services/api/v1/attributes/{attributeID}/equipment`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT`, or `TEMPLATE_DELETE` assigned to your user ID. Example URL: in the SAP Cloud Platform account.

- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__equipment_get file.
Example URL: For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attributes with the specified ID exists, system returns all the equipment where the attribute is used in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__equipment_get.
- If an attribute with the specified ID does not exist, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributes__attributeID__equipment_get.

19.8 Creating an Indicator

You can create an indicator that can be assigned to an indicator group.

Request

- **HTTP Method:** POST
- **Example URL:** `Application_URL/services/api/v1/indicators`
- **Authorization:** You must have the roles INDICATOR_READ, INDICATOR_EDIT, or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators_post file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attribute is created successfully, system auto generates an attribute ID in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators_post.

- If an attribute cannot be created, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators_post.

19.9 View Indicator Based on Filters

You can view all the indicators based on filter conditions or retrieve count of all the indicators depending upon the query parameters used.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/indicators
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of indicators in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators_get.

19.10 Viewing Indicator Count

You can view the number of all Indicators or the number of Indicators retrieved based on the text provided in the filter parameter.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/indicators/$count`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT`, or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__count_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of indicators based on the filter condition in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__count_get.

19.11 Viewing an Indicator

You can view indicator of the specified ID.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/indicators/{indicatorID}`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT`, or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of indicators in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__get.

19.12 Updating an Indicator

You perform this activity while updating an existing indicator with new information.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/indicators/{indicatorID}
- *Authorization:* You must have the roles INDICATOR_EDIT or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system updates the attribute group successfully, system returns the details of the updated attribute group in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__put.
- If the system cannot update the template, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__put.

19.13 Deleting an Indicator

This API allows you to delete indicator of specified id.

Request

- *HTTP Method:* DELETE
- *Example URL:* `Application_URL/services/api/v1/indicators/{indicatorID}`
- *Authorization:* You must have the roles INDICATOR_EDIT or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system deletes the indicator.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicators__indicatorID__delete.

19.14 Creating an Attribute Group

You can create an attribute group within a template or assign an attribute within an attribute group.

Prerequisite

If you want to assign an attribute to an attribute group, you must have created one already. (see [Creating an Attribute \[page 240\]](#))

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/attributegroups
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 270\]](#).

Response

- If an attribute group is created successfully, system auto generates an attribute group ID in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups_post.
- If an attribute group cannot be created, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups_post.

19.15 View All Attribute Groups Based on Filters

You can view all the attribute groups based on filter conditions or retrieve count of all the attribute groups depending upon the query parameters used.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/attributegroups
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of attribute groups in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups_get.

19.16 View Attribute Group Count

You can view the number of all attribute groups or the number of attribute groups retrieved based on the text provided in the filter parameter.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/attributegroups/\$count
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__count_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of attribute groups based on the filter condition in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__count_get.

19.17 Viewing an Attribute Group

You can view attribute group of the specified ID

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/attributegroups/{attributeGroupID}`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT`, or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, system returns the attribute group in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__get.

19.18 Updating an Attribute Group

This API allows you to update attribute group of specified id and retrieve the updated attribute group.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/attributegroups/{attributeGroupID}`
- *Authorization:* You must have the roles `INDICATOR_EDIT` or `INDICATOR_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__attributeGroupID__put file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- on successful completion, system returns the details of the updated attribute group in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__attributeGroupID__put.

19.19 Deleting an Attribute Group

You perform this activity to delete attribute group of specified id.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/attributegroups/{attributeGroupID}
- *Authorization:* You must have the roles TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__attributeGroupID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an attribute group with the specified ID exists, the system deleted the attribute group.
- If the system cannot update the attribute group, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#attributegroups__attributeGroupID__delete.

19.20 Creating Indicator Group

You can create an indicator group within a template or assign an indicator within an indicator group.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/indicatorgroups
- *Authorization:* You must have the roles INDICATOR_EDIT or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 270\]](#).

Response

- If an indicator group is created successfully, system auto generates an indicator group ID in the response payload.
- If an indicator group cannot be created, system returns appropriate error code in the response payload. For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups_post.

19.21 View All Indicator Groups Based on Filters

You can view all the indicator groups based on filter conditions or retrieve count of all the indicator groups depending upon the query parameters used.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/indicatorgroups
- *Authorization:* You must have the roles INDICATOR_EDIT, or INDICATOR_READ assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of indicator groups in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups_get.

19.22 View Indicator Group Count

You can view the number of all indicator groups or the number of indicator groups retrieved based on the text provided in the filter parameter.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/indicatorgroups/\$count
- *Authorization:* You must have the roles INDICATOR_EDIT, or INDICATOR_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__count_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of indicator groups based on the filter condition in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__count_get.

19.23 Viewing an Indicator Group

You can view indicator group of the specified ID

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/indicatorgroups/{indicatorGroupID}`
- *Authorization:* You must have the roles INDICATOR_EDIT, or INDICATOR_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, system returns the indicator group in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__get.

19.24 Updating an Indicator Group

This API allows you to update indicator group of specified id and retrieve the updated indicator group.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/indicatorgroups/{indicatorGroupID}`
- *Authorization:* You must have the roles INDICATOR_EDIT or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__put file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful completion, system returns the details of the updated indicator group in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__put.

19.25 Deleting an Indicator Group

You perform this activity to delete indicator group of specified id.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/indicatorgroups/{indicatorGroupID}
- *Authorization:* You must have the roles INDICATOR_EDIT or INDICATOR_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If an indicator group with the specified ID exists, the system deleted the indicator group.
- If the system cannot update the indicator group, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#indicatorgroups__indicatorGroupID__delete.

19.26 Creating a Codelist

You can create a codelist using a template.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/codelists
- *Authorization:* You must have the roles TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 270\]](#).

Response

- If a codelist is created successfully, system auto generates a codelist ID in the response payload.
- If the codelist cannot be created, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists_post.

19.27 View All Codelists Based on Filters

You can view all the codelists based on filter conditions or retrieve count of all the codelists depending upon the query parameters used.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/codelists
- *Authorization:* You must have the roles TEMPLATE_EDIT, or TEMPLATE_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists_get file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of codelists in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists_get.

19.28 View Codelist Count

You can view the number of all codelists or the number of codelists retrieved based on the text provided in the filter parameter.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/codelists/\$count
- *Authorization:* You must have the roles TEMPLATE_EDIT, or TEMPLATE_READ assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__count_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system returns a list of codelists based on the filter condition in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__count_get.

19.29 Viewing a Codelist

You can view codelist of the specified ID

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/codelists/{codelistID}`
- *Authorization:* You must have the roles `TEMPLATE_EDIT`, or `TEMPLATE_READ` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, system returns the codelist in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__get.

19.30 Updating a Codelist

This API allows you to update codelist of specified id and retrieve the updated codelist.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/codelists/{codelistID}`
- *Authorization:* You must have the roles `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__put file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful completion, system returns the details of the updated codelist in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__put.

19.31 Deleting Codelist

You perform this activity to delete the codelist of specified id.

Request

- *HTTP Method:* DELETE
- *Example URL:* `Application_URL/services/api/v1/codelists/{codelistID}`
- *Authorization:* You must have the roles `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the codelist with the specified ID exists, the system deleted the codelist.
- If the system cannot update the codelist, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#codelists__codelistID__delete.

19.32 Creating a Template

You can create a model template using either a subclass template provided by SAP Asset Strategy and Performance Management, or any model template that is available for you.

Prerequisite

If you want to assign an attribute group to the template, you must have created one already. (see [Creating an Attribute Group \[page 249\]](#))

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/templates
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT, or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates_post file.
For more information about the request payload fields, their descriptions, and possible values, refer to [Additional Information \[page 270\]](#).

Response

- If a template is created successfully, system auto generates a template id and returns the details in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates_post.
- If the template cannot be created, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates_post.

19.33 Viewing all Templates

You can view details of a list of templates that share common parameters such as statuses.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/template/\$count
- *Query parameters:* \$filter
\$filter: allows you to specify the the condition on which you want filter the templates
- *Example URL:* Application_URL/services/api/v1/template/\$count?\$filter=substringof('Sample template',Name)
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.

Response

- If one or more templates exist as per the filter criteria, system returns the list of templates.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__count_get.
- If the filtering criteria is incorrect, system returns an error code.
For more information on error codes, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__count_get.

19.34 Deleting Templates

This API allows you to delete the list of templates.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/templates
- *Authorization:* You must have the roles TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates_delete file.

For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system deletes the templates.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates_delete.

19.35 Viewing a Template

You can view details of a template before you publish, or before you update the details of a template.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/template{template ID}
- *Example URL:* Application_URL/services/api/v1/template(E0B15BE85E2B41FBA06069B8D61CEB09)
- *Authorization:* You must have any of the following roles assigned to your user ID TEMPLATE_READ or TEMPLATE_EDIT or TEMPLATE_DELETE.

Response

- If a template with the specified template ID exists, system returns the details of the template along with attribute group and attributes assigned to the template.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__get.
- If the template with the specified ID does not exist, or you do not have appropriate authorizations to view the template, system returns an error code.
For more information on error codes, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__get.

19.36 Updating a Template

You can either update an existing template with new information, or update an existing template that has incorrect information.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/templates/{templateID}`
- *Authorization:* You must have the roles `TEMPLATE_READ` or `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system updates the template successfully, system returns the details of the updated template in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__put.
- If the system cannot update the template, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__put.

19.37 Deleting a Template

You perform this activity when you want to delete a template containing incorrect information.

Request

- *HTTP Method:* Delete
- *Example URL:* `Application_URL/services/api/v1/templates/{templateID}`
- *Authorization:* You must have the roles `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.

- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 23\]](#).

Response

- If the system deletes the template successfully, system returns 200.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__delete.
- If the system cannot update the template, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__delete.

19.38 Viewing Industry Standards Assigned to a Template

You use this API to retrieve the industry standards assigned to a template.

Request

- *HTTP Method:* GET
- *URL:* `Application_URL/services/api/v1/templates/{templateID}/industrystandards`
- *Authorization:* You must have the roles `TEMPLATE_READ`, `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system retrieves the template successfully, system returns the details of the template in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_get.
- If the system cannot retrieve the template, system returns appropriate error code in the response payload.

For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_get.

19.39 Adding Industry Standard to an Existing Template

You use this API to add an industry standard to an existing template.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/templates/{templateID}/industrystandards`
- *Authorization:* You must have the roles `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_put file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system updates the template successfully, system returns the details of the updated template in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_put.
- If the system cannot update the template, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_put.

19.40 Deleting Industry Standard of Specified ID

You use this API to removes industry standard of specified id.

Request

- *HTTP Method:* DELETE
- *URL:* Application_URL/services/api/v1 /templates/{templateID}/industrystandards
- *Authorization:* You must have the roles TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_delete file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, the system deletes the industry standard.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_delete.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templates__templateID__industrystandards_delete.

19.41 Viewing Industry Standards for a Template

You use this API to retrieve all the industry standard codes that can be assigned to templates or attributes.

Request

- *HTTP Method:* GET
- *URL:* Application_URL/services/api/v1/industrystandards
- *Authorization:* You must have the roles TEMPLATE_READ, TEMPLATE_EDIT or TEMPLATE_DELETE assigned to your user ID in the SAP Cloud Platform account.

- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#industrystandards_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- If the system retrieves the industry standards successfully, system returns the details of the industry standards in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#industrystandards_get.
- If the system cannot retrieve the industry standards, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#industrystandards_get.

19.42 Viewing Template Type Details

This API allows you to view all the types and their description for template types.

Request

- **HTTP Method:** GET
- **Example URL:** `Application_URL/services/api/v1/templatetypes`
- **Authorization:** You must have the roles `TEMPLATE_EDIT` or `TEMPLATE_DELETE` assigned to your user ID in the SAP Cloud Platform account.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templatetypes_get file.
For more information about the request payload fields, their descriptions, and possible values, see [Additional Information \[page 270\]](#).

Response

- On successful execution, system returns the details of template type in the response payload.
- If not, system returns appropriate error code in the response payload.
For more information, see https://help.sap.com/doc/6003315aca474ad9962d53c53c5d0297/1902/en-US/Template.html#templatetypes_get.

19.43 Additional Information

Attribute Request Payload Parameters

Field (Mandatory or Optional)	Data Type	Description
<code><internalId></code> (Mandatory)	String	a mandatory field that defines a unique ID for the attribute.
<div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p>i Note</p> <p><code><name></code> has been deprecated.</p> </div>		
<code><Id></code>	String	a unique identifier generated by the system for an attribute.
<code><Description></code>	String	<p>a description for an attribute. It has the following subfields:</p> <ul style="list-style-type: none"> • <code><Id></code>: unique identifier that is system generated for an attribute • <code><short></code>: defines a short description for an attribute • <code><long></code>: defines a long description for an attribute
<code><dataType></code>	String	<p>Defines the kind of data types that can be assigned for an attribute.</p> <p>List of supported data types are:</p> <ul style="list-style-type: none"> • boolean • string • numeric • date • enum • picture <p>For more information on using the data types and defining additional properties for these data types, see Defining Additional Properties for a Data Type</p>
dimension1	String	<p>a field that defines a unit of measurement for an numeric attribute</p> <p>For more information on supported dimensions, refer the list provided in dimension2 description.</p>

Field (Mandatory or Optional)	Data Type	Description
dimension2	String	<p>a field that defines additional unit of measurement for an numeric attribute.</p> <p>List of supported dimensions are:</p> <ul style="list-style-type: none"> • weight • length • time • force • mass • pressure • current • energy • power • acceleration • electric current • temperature
<enumValues>	array	Allows you to specify an array of values which serves as an enumeration for enum attribute.
unitOfMeasure1	array	Specifies the allowed values for dimension1
unitOfMeasure2	array	Specifies the allowed values for dimension2
<isMultivalued>	boolean	Specifies if the enum attribute can support multiple values.
<isLanguage>	boolean	Specifies if the value supported by a string attribute is language-dependent or not.
<isRange>	boolean	Specifies if the numeric attribute can support a range.

Field (Mandatory or Optional)	Data Type	Description
<code><industryStandards></code>	array	<p>Specifies the supported industry standards at the attribute level. Possible values:</p> <ul style="list-style-type: none"> • ISO 15926 • IEC 60050 • ISO 14224 • IO-LINK • MIMOSA <p>It has the following sub fields:</p> <ul style="list-style-type: none"> ◦ <code>industryStandard</code>: specifies the name of the industry standard. ◦ <code>standard ID</code>: a unique identifier corresponding to an industry standard specified by the user.

<code><hasNormalValue></code>	boolean	Specifies if the numeric attribute can support a normal value. This flag can be used only if <code><isRange></code> is set to true.
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<code>optionCode</code>	Integer	Specifies the priority - Optional, Mandatory or Recommended
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Attribute Group Fields

Field (Mandatory or Optional)	Data Type	Description
<code><internalId></code> (Mandatory)	String	a mandatory field that defines a unique ID for the attribute group.

i Note
`<name>` has been deprecated.

<code><Id></code>	String	a unique identifier for an attribute group that is generated by the system.
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<code><Description></code>	String	<p>a description for an attribute group. It has the following subfields:</p> <p><code>Id</code>: unique identifier for an attribute group</p> <p><code>short</code>: defines a short description for an attribute group</p> <p><code>long</code>: defines a long description for an attribute group</p>
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Field (Mandatory or Optional)	Data Type	Description
<code><attributes></code>	array	An array of IDs that uniquely identifies each attribute.
Template Attributes		
Field (Mandatory or Optional)	Data Type	Description
<code><internalId>(Mandatory)</code>	String	a mandatory field and defines a unique ID for the template.
<div style="background-color: #f0f0f0; padding: 5px;"> <p>i Note <code><name></code> has been deprecated.</p> </div>		
<code><Id (Optional)></code>	String	a system generated unique identifier for a template.
<code><description (Optional)></code>	String	Defines a description for a template. It has the following subfields: <ul style="list-style-type: none"> • <code><Id></code>: unique identifier for the template • <code><short></code>: defines a short description for a template • <code><long></code>: defines a long description for a template.
<code><parentId (Optional)></code>	String	a unique identifier of a parent template.
<code><isAbstract (Optional)></code>	boolean	a flag that identifies if a template is abstract or non-abstract.

Field (Mandatory or Optional)	Data Type	Description
<code><type (Mandatory)></code>	String	<p>a mandatory field that defines the type of a template. It can take any of the following three values:</p> <ul style="list-style-type: none"> class (1): A class template is a base template. subclass (2): A subclass template inherits from a class template. model template (3): A model template inherits either from a subclass template or another model template. equipment template (4): An equipment template is independent of class or subclass. It can have separate attributes of its own. location template (5): A location template contains location-specific attributes and attribute groups related to a location.
<code><attributeGroups (Optional)></code>	array	An array of IDs that uniquely identifies each attribute group.
<code><changedOn (Optional)></code>	String	Specifies the date when the template was last updated.

Indicators

Field (Mandatory or Optional)	Data Type	Description
<code><internalId>(Mandatory)</code>	String	a mandatory field and defines a unique ID for the indicator.
<div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p>i Note <code><name></code> has been deprecated.</p> </div>		
<code><description></code>	String	<p>Defines a description for a template. It has the following subfields:</p> <ul style="list-style-type: none"> <code><short></code> (Mandatory): defines a short description for an indicator <code><long></code>: defines a long description for an indicator

Field (Mandatory or Optional)	Data Type	Description
<code><descriptions></code>	Sstring	Specifies the list of descriptions of the object in various languages. This takes priority over <code><description></code> field <ul style="list-style-type: none"> • <code><language></code>: Defines a language for the description object. • <code><short></code> (Mandatory): defines a short description for an indicator • <code><long></code>: defines a long description for an indicator
<code><dataType></code> (Mandatory)	String	Defines the kind of data types that can be assigned for an indicator.
<code><aggregationConcept></code> (Mandatory)	String	The aggregation concept used to show the indicator values.
<code><indicatorGroup></code>	String	
<code><isInstantiationRequired></code>	array	An array of IDs that uniquely identifies each attribute group.
<code><scale></code>	Integer	Reserves the number of significant places after decimal.
<code><precision></code>	Integer	Specifies the maximum number of digits numeric flexible value can have including decimal places.
<code><hasThreshold></code>	Boolean	To be set if user wants to specify threshold as Min/Max/Normal. Should be used along with <code>isRange</code> .
<code><dimension1></code>	String	Dimension 1 of the indicator in case of numeric data type only.
<code><expectedBehaviour></code>	String	The expected behaviour of the indicator.

Indicator Groups

Field (Mandatory or Optional)	Data Type	Description
<code><description (Optional)></code>	String	Specifies the list of descriptions of the object in various languages. This takes priority over <code><description></code> field <ul style="list-style-type: none"> • <code><short></code>: defines a short description for a template • <code><long></code>: defines a long description for a template. • <code><language></code>: unique identifier for the template
<code><internalId></code>	String	A mandatory field that defines a unique internal ID for the indicator group.
<code><indicators></code>	String	List of IDs of attributes which are to be added to the indicator group.

Code Lists

Field (Mandatory or Optional)	Data Type	Description
<code><internalId>(Mandatory)</code>	String	A mandatory field that defines a unique internal ID for a codelist.
<code><dataType></code>	String	Defines the kind of data types that can be assigned for a codelist.
<code><description (Optional)></code>	String	Defines a description for a template. It has the following subfields: <ul style="list-style-type: none"> • <code><language></code>: unique identifier for the template • <code><short></code>: defines a short description for a template • <code><long></code>: defines a long description for a template.
<code><items></code>	array	Specifies the list of descriptions of the codes.
<code><industryStandards></code>	String	The list of industry standards the code list is complaint to.

20 Searching Objects in SAP Asset Strategy and Performance Management

You use this API to search objects in SAP Asset Strategy and Performance Management such as models, equipment, subclass, and templates. Since the search is fault-tolerant, you can search using terms that might not be a perfect match with the object.

You can also narrow down your search by using the following:

Path Parameter	Objects
MOD	Models
EQU	Equipment
TEM	Model templates, equipment templates and location templates
CAT	Subclass
ALL	Models, Equipment, Model Templates, Equipment Templates, Location Templates and Subclass

Request

- *HTTP Method:* GET
- *URL:* `Application_URL/services/api/v1/searchObject/<path parameter>?searchText=<Provide space-separated search terms which can be Manufacturer name, Manufacturer ID, Industry group name, Object name, description, Class name, Subclass name, Template name, Operator name, Source name>`
- *Query Parameters:* For details about the query parameter, see

Response

Based on the query parameters, the system returns the objects you searched for.

<https://help.sap.com/http.svc/rc/b7b5a3bbe4564f3b8b06566da64a4534/1702/en-US/fuzzysearch.html>

For more information, see <https://help.sap.com/http.svc/rc/b7b5a3bbe4564f3b8b06566da64a4534/1702/en-US/fuzzysearch.html>.

21 User Authorization

You use this feature to define a more granular access to asset modeling business objects for users within your organization.

i Note

User Authorization is an optional feature, which can be used in addition to the existing [Network Authorizations](#).

All the users assigned to a node in the organizational hierarchy have access to:

- The business objects and groups assigned to the relevant node in the hierarchy.
- The business objects and groups assigned to the subnodes of a relevant parent node in the organizational hierarchy.

This API allows you to create, update, retrieve, delete organizational hierarchy.

21.1 Creating an Organizational Unit

This API allows you to create an organizational unit.

Request

- *HTTP Method:* POST
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units`
- *Authorization:* You must have the roles `USER_AUTH_DELETE` or `USER_AUTH_EDIT` assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_post file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_post.

21.2 Updating Header Information of an Organizational Unit

This API allows you to update header information of an organizational unit.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units({groupId})/header`
- *Authorization:* You must have the roles `USER_AUTH_DELETE` or `USER_AUTH_EDIT` assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__header_put file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__header_put.

21.3 Viewing Header Information of an Organizational Unit

This API allows you to update header information of an organizational unit.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units({groupId})/header`
- *Authorization:* You must have the roles `USER_AUTH_READ` or `USER_AUTH_EDIT` assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__header_get file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_groupId__header_get.

21.4 Deleting an Organizational Unit

This API allows you to delete an organizational unit.

Request

- *HTTP Method:* DELETE
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units({groupId})`
- *Authorization:* You must have the roles USER_AUTH_DELETE or USER_AUTH_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_groupId__delete file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_groupId__delete.

21.5 Viewing the Organizational Unit Structure

This API allows you to view organizational unit structure.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units/structure`
- *Authorization:* You must have the roles USER_AUTH_READ or USER_AUTH_EDIT assigned to your user ID.

- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_structure_get file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units_structure_get.

21.6 Add or Remove Business Objects from an Organizational Unit

This API allows you to add or remove business objects from an organizational unit.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/user-auth/organization/units({groupId})/objects`
- *Authorization:* You must have the roles USER_AUTH_DELETE or USER_AUTH_EDIT assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__objects_put file.

Response

For more information, see https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__objects_put.

21.7 Add, Remove, or Update Users in an Organizational Unit

This API allows you to add, remove, or update users in an organization unit.

Request

- *HTTP Method*: PUT
- *Example URL*: `Application_URL/services/api/v1/user-auth/organization/units({groupId})/members`
- *Authorization*: You must have the roles `USER_AUTH_DELETE` or `USER_AUTH_EDIT` assigned to your user ID in the SAP Cloud Platform account.
- *Request Schema*: Refer to the request schema in the following file:
 - For SAP Cloud Platform - Neo environment: https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__members_put
 - For SAP Cloud Platform - Cloud Foundry environment: https://help.sap.com/doc/69e595ec8e454b7a8b23eb2604dec3ed/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__members_put

Response

For more information, see:

- For SAP Cloud Platform - Neo environment: https://help.sap.com/doc/3ed6749e0443440282b56e69f12ab1e7/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__members_put
- For SAP Cloud Platform - Cloud Foundry environment: https://help.sap.com/doc/69e595ec8e454b7a8b23eb2604dec3ed/1902/en-US/UserAuthorization.html#user_auth_organization_units__groupId__members_put

22 Unit of Measure Conversion

Unit of Measure (UoM) conversion deals with various conversions across units within a dimension. The unit system defines a source unit that must be converted to a target unit. For example, if the unit system is metric and dimension is length, any source unit (miles) must be converted to target unit, (kms).

By default, unit systems, metric (selected) and imperial are available. You can personalize the unit system using the Fiori launchpad.

22.1 Master List of Unit of Measures

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
NODMNSN	(no dimensions)	DZN		(2)
NODMNSN	(no dimensions)	EE		(EU)
NODMNSN	(no dimensions)	LE	C62	Activity unit (AU)
NODMNSN	(no dimensions)	BAG	BG	Bag (Bag)
NODMNSN	(no dimensions)	BOT	BO	Bottle (Bt.)
NODMNSN	(no dimensions)	BU	BU	Bushel (BU)
NODMNSN	(no dimensions)	KAN	CA	Canister (Can)
NODMNSN	(no dimensions)	KAR	CT	Carton (Car)
NODMNSN	(no dimensions)	CS	CS	Case (Case)
NODMNSN	(no dimensions)	KI	BX	Crate (Crate)
NODMNSN	(no dimensions)	DEG	DD	Degree (deg)
NODMNSN	(no dimensions)	DZ	DZN	Dozen (dz)
NODMNSN	(no dimensions)	DR	DR	Drum (Dr)
NODMNSN	(no dimensions)	EML	EML	Enzyme Units / Millili- ter (EU/ml)
NODMNSN	(no dimensions)	G/T	G/T	Gram Active Ingredi- ent/To (gai/To)
NODMNSN	(no dimensions)	GAU	GAU	Gram Gold (GAU)
NODMNSN	(no dimensions)	GAG	GAG	Gram Silver (GAG)
NODMNSN	(no dimensions)	GW	A90	Gram act. ingr. (gai)
NODMNSN	(no dimensions)	GRO	GRO	Gross (gro)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
NODMNSN	(no dimensions)	PCT	PCT	Group proportion (PrC)
NODMNSN	(no dimensions)	IU	IU	International Unit (IU)
NODMNSN	(no dimensions)	KGW	KGW	Kilogram act. ingr. (kgai)
NODMNSN	(no dimensions)	MBL	MIL	MBL (MBL)
NODMNSN	(no dimensions)	MLW	MLW	Milliliter act. ingr. (mlai)
NODMNSN	(no dimensions)	YTM	YTM	Moisture (Tonnes) (YTM)
NODMNSN	(no dimensions)	NJ	4P	NJ Test (NJ)
NODMNSN	(no dimensions)	PRS	IE	Number of Persons (PRS)
NODMNSN	(no dimensions)	PC	PC	PEICES (PC)
NODMNSN	(no dimensions)	PAK	PK	Pack (PAK)
NODMNSN	(no dimensions)	PAA	PR	Pair (PAIR)
NODMNSN	(no dimensions)	PAL	PF	Pallet (PAL)
NODMNSN	(no dimensions)	ST	PCE	Pices (EA) (EA)
NODMNSN	(no dimensions)	PCE	PCE	Pieces (PCE)
NODMNSN	(no dimensions)	ROL	RO	Role (ROL)
NODMNSN	(no dimensions)	SCM	SCM	SCM (SCM)
NODMNSN	(no dimensions)	TH	MIL	Thousands (thou)
NODMNSN	(no dimensions)	TCU	TCU	Ton Copper (TCU)
NODMNSN	(no dimensions)	TAS	TAS	Tonne Arsenic (TAS)
NODMNSN	(no dimensions)	YTA	YTA	Tonne Ash (YTA)
NODMNSN	(no dimensions)	YTD	YTD	Tonne Dry (YTDr)
NODMNSN	(no dimensions)	TOZ	TOZ	Troy OncesTonne (Toz)
NODMNSN	(no dimensions)	TOT	TOT	Troy Oz / Tonne (Tot)
NODMNSN	(no dimensions)	VAL	VAL	Value-only material (val)
NODMNSN	(no dimensions)	EA	EA	each (ST) (ST)
NODMNSN	(no dimensions)	G/L	G/L	gram act.ingrd / liter (gai/l)
NODMNSN	(no dimensions)	KWK	KWK	kg act.ingrd. / kg (kai/kg)
ACCEL	Acceleration	MS2	MSK	Meter/second squared (m/s2)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
ACBAC	Acid/Base capacity	V02	C36	Millimol per liter (mMol/l)
ACBAC	Acid/Base capacity	C36	C36	Mol per cubic meter (mol/m3)
ACBAC	Acid/Base capacity	C38	C38	Mol per liter (Mol/l)
SURFAC	Area	PTS	PTS	(9)
SURFAC	Area	ACR	ACR	Acre (acre)
SURFAC	Area	GLM		Gallons per mile (US) (GPM US)
SURFAC	Area	HAR	HAR	Hectare (Hectar)
SURFAC	Area	LHK	LHK	Liter per 100 km (l/hkm)
SURFAC	Area	YD2	YDK	Square Yard (yd2)
SURFAC	Area	CM2	CMK	Square centimeter (cm2)
SURFAC	Area	FT2	FTK	Square foot (ft2)
SURFAC	Area	IN2	INK	Square inch (Inch2)
SURFAC	Area	KM2	KMK	Square kilometer (km2)
SURFAC	Area	M2	MTK	Square meter (m2)
SURFAC	Area	MI2	MIK	Square mile (Mile2)
SURFAC	Area	MM2	MMK	Square millimeter (mm2)
CONDOC	Conductivity	V01	G42	Microsiemens per centimeter (μ S/cm)
CONDOC	Conductivity	D10	D10	Siemens per meter (S/m)
DENSI	Density	O19	KMK	(10)
DENSI	Density	A93	A93	Gram/Cubic meter (g/m3)
DENSI	Density	RHO	23	Gram/cubic centimeter (g/cm3)
DENSI	Density	GLI	GL	Gram/liter (g/l)
DENSI	Density	kgs		Kilogram/Standard Cubic Foot (kg/scf)
DENSI	Density	kgb	kgb	Kilogram/US Barrel (kg/bbl)
DENSI	Density	B34	B34	Kilogram/cubic decimeter (kg/dm3)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
DENSI	Density	KGV	KMQ	Kilogram/cubic meter (kg/m ³)
DENSI	Density	GQ	GQ	Microgram/cubic meter (µg/m ³)
DENSI	Density	UGL	H29	Microgram/liter (µg/l)
DENSI	Density	MGQ	GP	Milligram/cubic meter (mg/m ³)
DENSI	Density	MGL	M1	Milligram/liter (mg/l)
DENSI	Density	D41	D41	Ton/Cubic meter (t/m ³)
DENSI	Density	tm3		Tonne/1000 Cubic Meters (t/tm ³)
DENSI	Density	tbl	tbl	Tonne/US Barrel (t/bbl)
DENSI	Density	lbs	87	US Pound/Standard Cubic Foot (lb/scf)
DENSI	Density	lbg	GE	US Pound/US Gallon (lb/gal)
DENSI	Density	tgl	tgl	US Tonne/US Gallon (ton/gl)
STEXKZ	Dust explosion ratio	MBZ	MBZ	Meterbar/second (m.b_/s)
STEXKZ	Dust explosion ratio	MPZ	MPZ	Meterpascal/second (m.Pa/s)
VISDYN	Dynamic viscosity	MPS	C24	Millipascal seconds (mPa.s)
VISDYN	Dynamic viscosity	PAS	C65	Pascal second (Pas)
RESIST	Elec. Resistance	A87	A87	Gigaohm (GOhm)
RESIST	Elec. Resistance	KOH	B49	Kiloohm (kOhm)
RESIST	Elec. Resistance	B75	B75	Megohm (MOhm)
RESIST	Elec. Resistance	OHM	OHM	Ohm (Ohm)
ECURR	Electr. Current	A	AMP	Ampere (A)
ECURR	Electr. Current	KA	B22	Kiloampere (kA)
ECURR	Electr. Current	B84	B84	Microampere (µA)
ECURR	Electr. Current	MA	4K	Milliampere (mA)
ECURR	Electr. Current	C39	C39	Nanoampere (nA)
VOLTAG	Electr. Tension	KV	KVT	Kilovolt (kV)
VOLTAG	Electr. Tension	B78	B78	Megavolt (MV)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
VOLTAG	Electr. Tension	MV	2Z	Millivolt (mV)
VOLTAG	Electr. Tension	V	VLT	Volt (V)
CAPACI	Electr. capacity	F	FAR	Farad (F)
CAPACI	Electr. capacity	4O	4O	Microfarad (μ F)
CAPACI	Electr. capacity	C10	C10	Millifarad (mF)
CAPACI	Electr. capacity	C41	C41	Nanofarad (nF)
CAPACI	Electr. capacity	4T	4T	Pikofarad (pF)
ENERGY	Energy	MBT		(8)
ENERGY	Energy	GJ	GV	Gigajoule (GJ)
ENERGY	Energy	J	JOU	Joule (J)
ENERGY	Energy	KJ	KJO	Kilojoule (kJ)
ENERGY	Energy	KWH	KWH	Kilowatt hours (kwh)
ENERGY	Energy	MEJ	3B	Megajoule (MJ)
ENERGY	Energy	MWH	MWH	Megawatt hour (MWh)
ENERGY	Energy	MJ	C15	Millijoule (mJ)
ENERGY	Energy	CAL	3B	kilocalories (KCAL)
FORCE	Force	B47	B47	Kilonewton (ND)
FORCE	Force	B73	B73	Meganewton (MN)
FORCE	Force	N	NEW	Newton (N)
FREQU	Frequency	PMI	PMI	1/minute (1/min)
FREQU	Frequency	BPM	BPM	Bottles per minute (BPM)
FREQU	Frequency	HZ	HTZ	Hertz (1/second) (Hz)
FREQU	Frequency	KHZ	KHZ	Kilohertz (kHz)
FREQU	Frequency	MHZ	MHZ	Megahertz (MHz)
FREQU	Frequency	RPM	RPM	RPM (RPM)
THCOND	Heat Conductivity	WMK	D53	Heat Conductivity (W/ mk)
HYDROL	Hydrolysis rate	LMS	LMS	Liter/Molsecond (l/ m_s)
SURINV	Inverse area	M2I	M2I	1 / square meter (1/ M2)
SURINV	Inverse area	MPG	MPG	Miles per gallon (US) (MPG US)
VISKIN	Kinematic viscosity	M2S	S4	Square meter/second (m2/s)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
VISKIN	Kinematic viscosity	22S	C17	Square millimeter/ second (mm ² /s)
LENGTH	Length	CM	CMT	Centimeter (cm)
LENGTH	Length	DM	DMT	Decimeter (dm)
LENGTH	Length	FT	FOT	Foot (Foot)
LENGTH	Length	IN	INH	Inch (")
LENGTH	Length	KM	KMT	Kilometer (km)
LENGTH	Length	M	M	Meter (m)
LENGTH	Length	MIM	4H	Micrometer (μm)
LENGTH	Length	MI	SMI	Mile (mile)
LENGTH	Length	MM	MMT	Millimeter (mm)
LENGTH	Length	NAM	C45	Nanometer (nm)
LENGTH	Length	YD	YRD	Yards (yd)
LIGHT	Luminous intensity	CD	CDL	Candela (cd)
MAGNFD	Magnet. field dens.	MTE	C29	Millitesla (mT)
MAGNFD	Magnet. field dens.	TES	D33	Tesla (T)
MASS	Mass	G	GRM	Gram (g)
MASS	Mass	ZE	3H	Kilogram (ZE)
MASS	Mass	KT	KTN	Kilotonne (kt)
MASS	Mass	MG	MGM	Milligram (mg)
MASS	Mass	OZ	ONZ	Ounce (oz)
MASS	Mass	TO	TNE	Tonne (t)
MASS	Mass	LB	LBR	US pound (lb)
MASS	Mass	TON	STN	US ton (ton)
MASS	Mass	KG	KGM	kg (KG)
MASSBD	Mass coverage	GM2	GM	Gram/square meter (g/m ²)
MASSBD	Mass coverage	KGF	28	Kilogram/Square me- ter (kg/m ²)
MASSBD	Mass coverage	MGF	H63	Milligram/Square cen- timeter (mg/cm ²)
MASFLO	Mass flow	KGS	KGS	Kilogram/second (kg/s)
MAPER	Mass per Energy	kgj	kgj	Kilogram/Joule (kg/J)
MAPER	Mass per Energy	kgm		Kilogram/Million BTU (kg/MB)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
MAPER	Mass per Energy	tbt	tbt	Tonne/British Thermal Unit (t/Btu)
MAPER	Mass per Energy	tjl	tjl	Tonne/Joule (t/Joul)
MAPER	Mass per Energy	ttj	ttj	Tonne/Terajoule (t/TJ)
MAPER	Mass per Energy	lbb	lbb	US Pound/British Thermal Unit (lb/Btu)
MAPER	Mass per Energy	lbn	lbn	US Pound/Million BTU (lb/MB)
MPROPO	Mass proportion	GHG	GHG	Gram/hectogram (g/hg)
MPROPO	Mass proportion	GKG	GKG	Gram/kilogram (g/kg)
MPROPO	Mass proportion	KGK	M29	Kilogram/Kilogram (kg/kg)
MPROPO	Mass proportion	kgt	kgt	Kilogram/US Tonne (kg/ton)
MPROPO	Mass proportion	MPB	MPB	Mass parts per billion (ppb(m))
MPROPO	Mass proportion	MPM	MPM	Mass parts per million (ppm(m))
MPROPO	Mass proportion	MPT	MPT	Mass parts per trillion (ppt(m))
MPROPO	Mass proportion	MGG	MGG	Milligram/gram (mg/g)
MPROPO	Mass proportion	MGK	NA	Milligram/kilogram (mg/kg)
MPROPO	Mass proportion	M%	M%	Percent mass (%(m))
MPROPO	Mass proportion	M%O	M%O	Per mille mass (%O(m))
MPROPO	Mass proportion	tt	tt	Tonne/Tonne (t/t)
MPROPO	Mass proportion	lbt	lbt	US Pound/US Tonne (lb/ton)
MOENER	Molar energy	JMO	B15	Joule/Mol (J/mol)
MOENER	Molar energy	KJM	B44	Kilojoule/Mol (KJ/mol)
MOLMAS	Mole mass	GM		Gram/Mol (g/mol)
MOLMAS	Mole mass	kml	kml	Kilogram/Kilogram Mole (kg/kgm)
MOLMAS	Mole mass	KGM		Kilogram/Mol (kg/mol)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
MOLMAS	Mole mass	lbl	lbl	US Pound/US Pound Mole (lb/lbm)
MOLQU	Mole quantity	B45	B45	Kilomol (kmol)
MOLQU	Mole quantity	MMO	C18	Millimol (mmol)
MOLQU	Mole quantity	MOL	C34	Mol (mol)
TKONZ	Particle concentrat.	TC3	TC3	1/cubic centimeter (1/cm ³)
TKONZ	Particle concentrat.	TM3		1/cubic meter (1/m ³)
PERMEA	Permeability	PRM	PRM	Permeation Rate (ug/c ² m)
PERMEA	Permeability	PMR	PMR	Permeation Rate SI (kg/m ² s)
POINTS	Points	P	P	Points (P)
POWER	Power	KVA	KVA	Kilovoltampere (kVA)
POWER	Power	KW	KWT	Kilowatt (KW)
POWER	Power	MVA	MVA	Megavoltampere (MVA)
POWER	Power	MGW	MAW	Megawatt (VA)
POWER	Power	MW	C31	Milliwatt (mW)
POWER	Power	D46	D46	Voltampere (VAM)
POWER	Power	W	WTT	Watt (W)
PRESS	Pressure	bft	B0	British Thermal Unit/ Cubic Ft (Bt/ft ³)
PRESS	Pressure	bbl	bbl	British Thermal Unit/US Barrel (Bt/bbl)
PRESS	Pressure	bgl	bgl	British Thermal Unit/US Gallon (Bt/gal)
PRESS	Pressure	gj3	gj3	Gigajoule/1000 Cubic Meters (GJ/tm ³)
PRESS	Pressure	gjm	gjm	Gigajoule/Cubic Meter (GJ/m ³)
PRESS	Pressure	HPA	A97	Hectopascal (hPa)
PRESS	Pressure	jm3	JM3	Joule/Cubic Meter (J/m ³)
PRESS	Pressure	KPA	KPA	Kilopascal (kPa)
PRESS	Pressure	MPA	MPA	Megapascal (MPa)
PRESS	Pressure	MBA	MBR	Millibar (mbar)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
PRESS	Pressure	mbb	mbb	Million BTU/US Barrel (MB/bbl)
PRESS	Pressure	C56	C56	Newton/Square millimeter (N/mm2)
PRESS	Pressure	PA	PAL	Pascal (Pa)
PRESS	Pressure	BAR	BAR	bar (bar)
PROPOR	Proportion	1	C62	One (One)
PROPOR	Proportion	PPB	PPB	Parts per billion (ppb)
PROPOR	Proportion	PPM	59	Parts per million (ppm)
PROPOR	Proportion	PPT	PPT	Parts per trillion (ppt)
PROPOR	Proportion	%O		Per mille (%O)
PROPOR	Proportion	%	P1	Percentage (%)
TEMPRT	Rate of temp. change	KMN	F11	Kelvin/Minute (K/min)
TEMPRT	Rate of temp. change	KMS	F12	Kelvin/Second (K/s)
SPREST	Sp. Elec. Resistance	OCM	C60	Spec. Elec. Resistance (Ohcm)
SPREST	Sp. Elec. Resistance	OM	C61	Spec. Elec. Resistance (Ohmm)
SPHCAP	Spec. Heat Capacity	JKK	B11	Spec. Heat Capacity (J/kgK)
SPAEQU	Spec. equivalent	MMG	H68	Millimol/gram (mmol/g)
SPAEQU	Spec. equivalent	MMK	D87	Millimol/kilogram (m_/kg)
SPAEQU	Spec. equivalent	MOK	C19	Mol/kilogram (mol/kg)
SPARAD	Spec.act.radioac.sub	BQK	A18	Becquerel/kilogram (Bq/kg)
SPARAD	Spec.act.radioac.sub	KBK	B25	Kilobecquerel/kilogram (kBq/kg)
SPENER	Specific energy	btI	btI	British Thermal Unit/US Pound (Btu/lb)
SPENER	Specific energy	gjt	gjt	Gigajoule/US Tonne (GJ/ton)
SPENER	Specific energy	JKG	JKG	Joule/Kilogram (J/kg)
SPENER	Specific energy	KJK	KJK	Kilojoule/kilogram (KJ/kg)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
SPENER	Specific energy	mbt	mbt	Million BTU/US Tonne (MB/ton)
SPEED	Speed	CMH		Centimeter/hour (cm/h)
SPEED	Speed	2M	2M	Centimeter/second (cm/s)
SPEED	Speed	KMH	KMH	Kilometer/hour (km/h)
SPEED	Speed	MTS	X03	Meter/Hour (m/h)
SPEED	Speed	2X	2X	Meter/Minute (m/min)
SPEED	Speed	M/S	MTS	Meter/second (m/s)
SPEED	Speed	MMH	H67	Millimeter/hour (mm/h)
SPEED	Speed	MMS	C16	Millimeter/second (mm/s)
SPEED	Speed	MMA	H66	Millimeter/year (mm/a)
SURFTE	Surface tension	MNM	C22	Millinewton/meter (mN/m)
SURFTE	Surface tension	NM	4P	Newton/meter (N/m)
TEMP	Temperature	GC	CEL	Degrees Celsius (°C)
TEMP	Temperature	FA	FAH	Fahrenheit (°F)
TEMP	Temperature	K	KEL	Kelvin (K)
TEST	Test	AA		AA (AAAAAA)
TIME	Time	TST		(1)
TIME	Time	TAG	DAY	Days (Days)
TIME	Time	10	DAY	Days (d)
TIME	Time	H	HUR	Hour (h)
TIME	Time	HR	HR	Hours (HOU)
TIME	Time	STD	HUR	Hours (hrs)
TIME	Time	MIS	B98	Microsecond (µs)
TIME	Time	MS	C26	Millisecond (ms)
TIME	Time	MIN	MIN	Minute (min)
TIME	Time	MON	MON	Months (Months)
TIME	Time	NS	C47	Nanosecond (ns)
TIME	Time	PS	H70	Picosecond (ps)
TIME	Time	S	SEC	Second (s)

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
TIME	Time	WCH	WEE	Weeks (Weeks)
TIME	Time	JHR	ANN	Years (yr)
EVARA	Vaporization Speed	WTL	WTL	Vaporization Speed (kg/sm2)
VOLUME	Volume	BB6		(3)
VOLUME	Volume	BBL		(4)
VOLUME	Volume	BCF		(5)
VOLUME	Volume	BUI		(6)
VOLUME	Volume	BUU		(7)
VOLUME	Volume	CTL	CTL	Centiliter (Cl)
VOLUME	Volume	CCM	CMQ	Cubic centimeter (cm3)
VOLUME	Volume	CDM	DMQ	Cubic decimeter (dm3)
VOLUME	Volume	FT3	FTQ	Cubic foot (ft3)
VOLUME	Volume	IN3	INQ	Cubic inch (Inch3)
VOLUME	Volume	M3	MTQ	Cubic meter (m3)
VOLUME	Volume	MMQ	MMQ	Cubic millimeter (mm3)
VOLUME	Volume	YD3	YDQ	Cubic yard (yd3)
VOLUME	Volume	OZA	OZA	Fluid Ounce US (foz US)
VOLUME	Volume	HL	HLT	Hectoliter (hl)
VOLUME	Volume	L	LTR	Liter (l)
VOLUME	Volume	4G	4G	Microliter (µl)
VOLUME	Volume	ML	MLT	Milliliter (ml)
VOLUME	Volume	PT	PT	Pint, US liquid (pt US)
VOLUME	Volume	QT	QTL	Quart, US liquid (qt US)
VOLUME	Volume	GLL	GLL	US gallon (gal US)
VPROPO	Volume proportion	KMK	X02	Cubic meter/Cubic meter (m3/m3)
VPROPO	Volume proportion	MLK	MLK	Milliliter/cubic meter (ml/m3)
VPROPO	Volume proportion	V%	PV	Percent volume (% (V))
VPROPO	Volume proportion	V%O	VPO	Per mille volume (%O(V))

Dimension Id	Dimension	Unit Id	Unit Isocode	Unit
VPROPO	Volume proportion	VPB	VPB	Volume parts per billion (ppb(V))
VPROPO	Volume proportion	VPM	VPM	Volume parts per million (ppm(V))
VPROPO	Volume proportion	VPT	VPT	Volume parts per trillion (ppt(V))
VOLFLO	Volume rate of flow	C3S	2J	Cubic centimeter/second (cm3/s)
VOLFLO	Volume rate of flow	MQH	MQH	Cubic meter/Hour (m3/h)
VOLFLO	Volume rate of flow	M3D	G52	Cubic meter/day (m3/d)
VOLFLO	Volume rate of flow	M3S	MQS	Cubic meter/second (m3/s)
VOLFLO	Volume rate of flow	GPH	G50	Gallons per hour (US) (GPH US)
VOLFLO	Volume rate of flow	LPH	LPH	Liter per hour (L/hr)
VOLFLO	Volume rate of flow	L2	L2	Liter/Minute (l/min)

22.2 SAP Delivered Unit Systems

Unit System Id	Unit System	Dimension Id	Dimension	Source Unit Id	Source Unit	Target Unit Id	Target Unit
imperial	Imperial System	SURFAC	Area	HAR	Hectare (Hectar)	ACR	Acre (acre)
imperial	Imperial System	SURFAC	Area	CM2	Square centimeter (cm2)	IN2	Square inch (Inch2)
imperial	Imperial System	SURFAC	Area	KM2	Square kilometer (km2)	MI2	Square mile (Mile2)
imperial	Imperial System	SURFAC	Area	M2	Square meter (m2)	YD2	Square Yard (yd2)
imperial	Imperial System	LENGTH	Length	CM	Centimeter (cm)	IN	Inch (")
imperial	Imperial System	LENGTH	Length	DM	Decimeter (dm)	IN	Inch (")
imperial	Imperial System	LENGTH	Length	KM	Kilometer (km)	MI	Mile (mile)

Unit System Id	Unit System	Dimension Id	Dimension	Source Unit Id	Source Unit	Target Unit Id	Target Unit
imperial	Imperial System	LENGTH	Length	M	Meter (m)	YD	Yards (yd)
imperial	Imperial System	LENGTH	Length	MM	Millimeter (mm)	IN	Inch (")
imperial	Imperial System	MASS	Mass	G	Gram (g)	OZ	Ounce (oz)
imperial	Imperial System	MASS	Mass	ZE	Kilogram (ZE)	LB	US pound (lb)
imperial	Imperial System	MASS	Mass	MG	Milligram (mg)	OZ	Ounce (oz)
imperial	Imperial System	MASS	Mass	TO	Tonne (t)	TON	US ton (ton)
imperial	Imperial System	TEMP	Temperature	GC	Degrees Celsius (°C)	FA	Fahrenheit (°F)
imperial	Imperial System	VOLUME	Volume	CCM	Cubic centimeter (cm3)	IN3	Cubic inch (Inch3)
imperial	Imperial System	VOLUME	Volume	CDM	Cubic decimeter (dm3)	FT3	Cubic foot (ft3)
imperial	Imperial System	VOLUME	Volume	M3	Cubic meter (m3)	YD3	Cubic yard (yd3)
imperial	Imperial System	VOLUME	Volume	L	Liter (l)	GLL	US gallon (gal US)
imperial	Imperial System	VOLUME	Volume	ML	Milliliter (ml)	OZA	Fluid Ounce US (foz US)

Unit System Id	Unit System	Dimension Id	Dimension	Source Unit Id	Source Unit	Target Unit Id	Target Unit
metric	Metric System	SURFAC	Area	YD2	Square Yard (yd2)	M2	Square meter (m2)
metric	Metric System	SURFAC	Area	IN2	Square inch (Inch2)	CM2	Square centimeter (cm2)
metric	Metric System	SURFAC	Area	MI2	Square mile (Mile2)	KM2	Square kilometer (km2)
metric	Metric System	LENGTH	Length	FT	Foot (Foot)	M	Meter (m)
metric	Metric System	LENGTH	Length	IN	Inch (")	CM	Centimeter (cm)
metric	Metric System	LENGTH	Length	MI	Mile (mile)	KM	Kilometer (km)
metric	Metric System	LENGTH	Length	YD	Yards (yd)	M	Meter (m)

Unit System Id	Unit System	Dimension Id	Dimension	Source Unit Id	Source Unit	Target Unit Id	Target Unit
metric	Metric System	MASS	Mass	OZ	Ounce (oz)	G	Gram (g)
metric	Metric System	MASS	Mass	LB	US pound (lb)	KG	kg (KG)
metric	Metric System	TEMP	Temperature	FA	Fahrenheit (°F)	GC	Degrees Celsius (°C)
metric	Metric System	VOLUME	Volume	IN3	Cubic inch (Inch3)	CCM	Cubic centimeter (cm3)
metric	Metric System	VOLUME	Volume	YD3	Cubic yard (yd3)	M3	Cubic meter (m3)
metric	Metric System	VOLUME	Volume	OZA	Fluid Ounce US (foz US)	ML	Milliliter (ml)
metric	Metric System	VOLUME	Volume	PT	Pint, US liquid (pt US)	ML	Milliliter (ml)
metric	Metric System	VOLUME	Volume	GLL	US gallon (gal US)	L	Liter (l)

22.3 Viewing all Dimensions

You use this API to view the list of dimensions and units associated with the dimensions.

Request

- **HTTP Method:** GET
- **URL:** APPLICATION_URL/services/api/v1/uom/dimensions
- **Query param:** isFlat (True or false, Optional)
 - If the query parameter is true, this API returns a flat list of units
 - If the query parameter is false, this API returns a hierarchical list of units
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#dimensions_get file.

Response

- If all dimensions exist, the system returns all the dimensions.
For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#dimensions_get.

22.4 Viewing all Dimensions by ID

You use this API to view all units of the dimensions by ID.

Request

- *HTTP Method:* GET
- *URL:* APPLICATION_URL/services/api/v1/uom/dimensions/{dimension id}
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#dimensions__dimensionid__get file.

Response

- If the dimensions exists, the system returns all the unit associated with the dimension.
For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#dimensions__dimensionid__get.

22.5 Viewing List of Unit Systems

You use this API to view list of unit systems.

Request

- *HTTP Method:* GET
- *URL:* APPLICATION_URL/services/api/v1/uom/unitssystem
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitssystem_get file.

Response

- If unit system exists, the system returns the list of unit system.
For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitssystem_get.

22.6 Viewing Details of Unit System

You use this API to view details of unit system.

Request

- *HTTP Method:* GET
- *URL:* APPLICATION_URL/services/api/v1/uom/unitSystems({unitsystem})
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitsystems__unitsystem__get file.

Response

- If details of unit system exist, the system returns the unit system details.
For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitsystems__unitsystem__get.

22.7 Viewing Details of Unit System with Filters

You use this API to view details of unit systems with filter.

Request

- *HTTP Method:* POST
- *URL:* APPLICATION_URL/services/api/v1/uom/unitSystems({unitsystem})
- *Query param:* isoCodeFlag={true/false}
 - If the isoCodeFlag is true, this API consider source units as ISO codes
 - If the isoCodeFlag is false, this API consider source units as unit codes
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitsystems__unitsystem__post file.

Response

- If details of unit system with filters exist, the system returns the unit system details with filters. For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#unitsystems__unitsystem__post.

22.8 View Target Units

You use this API to convert list of source values, source units, and target unit of systems to target values.

Request

- *HTTP Method:* POST
- *URL:* APPLICATION_URL/services/api/v1/uom/targetunits
- *Query param:* unitSystem={unitSystem}&isoCodeFlag={true/false}
 - If the isoCodeFlag is true, this API consider source units as ISO codes
 - If the isoCodeFlag is false, this API consider source units as unit codes
- *Request Schema:* To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#targetunits_post file.

Response

- Based on the unit system, the API provides the list of target units. For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#targetunits_post.

22.9 Converting Values to Unit System

You use this API to convert the list of values to target unit system or target units.

Request

- *HTTP Method:* POST

- **URL:** APPLICATION_URL/services/api/v1/uom/convert
- **Query param:** unitSystem={unitSystem}&isoCodeFlag={true/false}
 - If the isoCodeFlag is true, this API consider source units as ISO codes
 - If the isoCodeFlag is false, this API consider source units as unit codesThe isoCodeflag needs to be set to true, if we are passing ISO codes instead of UoM.
- **Request Schema:** To know about fields that you can use in a request payload, refer to the request schema in the https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#convert_post file.

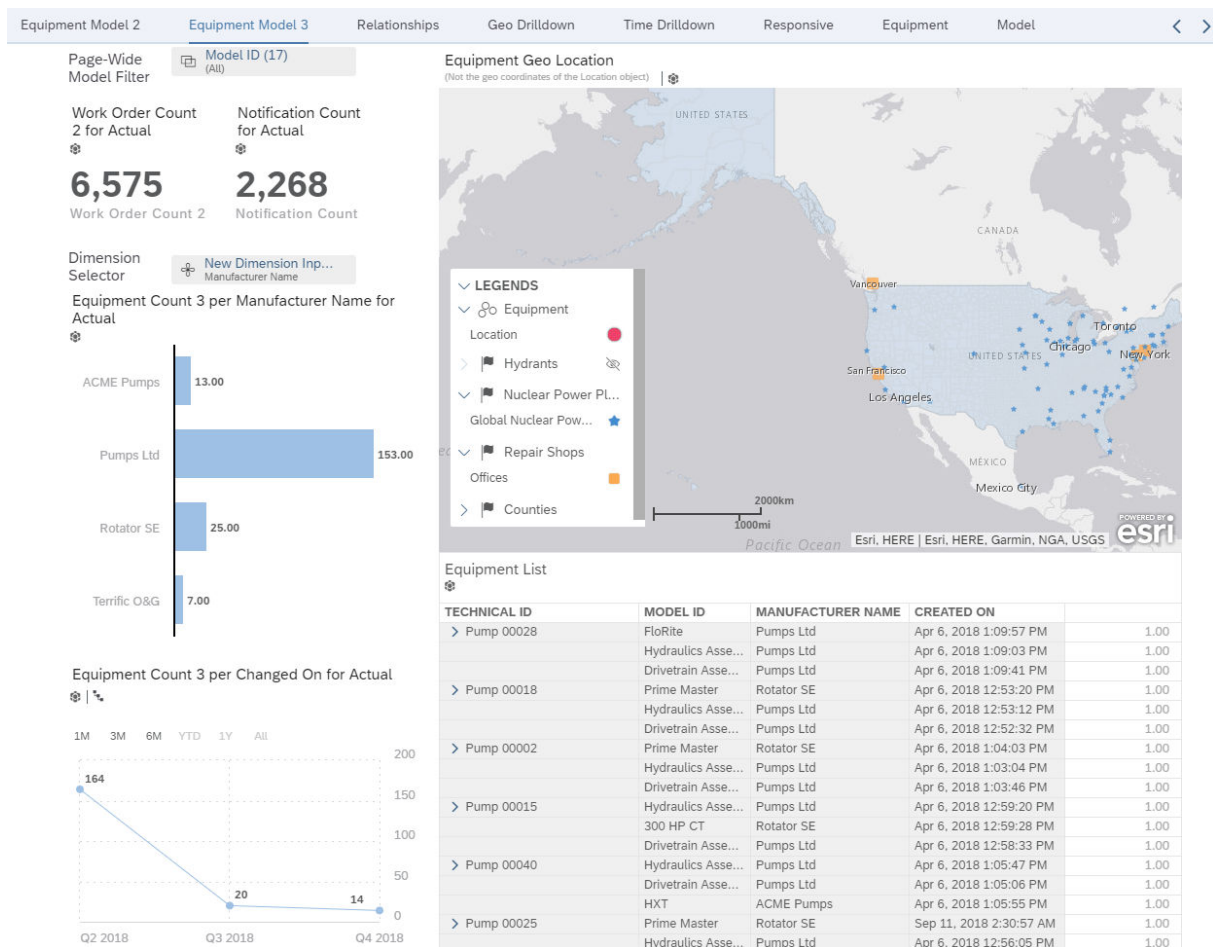
Response

- The system returns the converted values.
For more information, see https://help.sap.com/doc/6da2c2bae7a349feba484033ea61f1c1/1902/en-US/UOM.html#convert_post.

23 OData Services

OData Services enable you to use data from multiple business objects of SAP Asset Strategy and Performance Management to create stories in SAP Analytics Cloud based on this data.

A story is a dashboard that can contain multiple widgets, such as interactive charts and tables, which you can use to analyze your data. The following figure shows an example of a story:



Using OData Services

For more information about using OData Services, including an overview of the available business objects, see [Using OData Services \[page 302\]](#).

23.1 Using OData Services

You can use data from the following business objects of SAP Asset Strategy and Performance Management to create stories in SAP Analytics Cloud:

- Equipment
- Models
- Locations
- Spare parts
- Notifications
- Work orders

The data of the business objects in SAP Analytics Cloud are pulled from delivered APIs. For a list of all APIs, see [Reading Data from Business Objects for OData Services \[page 302\]](#).

Procedure:

1. To use OData Services, you need to set up a connection. For more information, see [Configuring a Connection for OData Services in SAP Analytics Cloud \[page 304\]](#).
2. Once you have set up a connection, you need to create a model to create a story. For more information, see [Creating a Model Against OData Services in SAP Analytics Cloud \[page 305\]](#).
3. Once you have created a model, you can create a story in SAP Analytics Cloud. For more information, see [Creating Your First Story](#) and [Creating a New Story](#).

23.2 Reading Data from Business Objects for OData Services

These APIs allow you to read data from the following business objects:

- Equipment
- Models
- Locations
- Spare parts
- Notifications
- Work orders

Equipment

Request

- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/Equipments`

Models

Request

- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/Models`

Locations

Request

- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/Locations`

Spare Parts

Request

- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/SpareParts`

Notifications

Request

- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/Notifications`

Work Orders

Request





- Format: *XML*
- HTTP Method: *GET*
- URI: `https://<launchpad-url>/ain/ac.odata.svc/api/v1/WorkOrders`

23.3 Configuring a Connection for OData Services in SAP Analytics Cloud

Context

To use OData Services, you must first configure a connection in SAP Analytics Cloud. Proceed as described in the following steps:

Procedure

1. Open *SAP Analytics Cloud*.
2. In the main menu, choose *Connection*.
3. To create a new connection, choose  *Add*.
4. In the main menu, choose  *OData Services*  *Import Data Connection* .

The dialog box **New OData Services Connection** is displayed.

5. Fill in the all required fields:

Field	Description
Connection Name	Name of the connection
Data Service URL	URL of the OData end point
User Name	User name in the target system
Password	Password for that user in the target system

6. For the *<Authentication Type>*, select **Basic Authentication**.
7. Select the checkbox *<Connect to an SAP OData Service>*.
8. Choose *Create*.

Results

The connection is created.

23.4 Creating a Model Against OData Services in SAP Analytics Cloud

Prerequisites

You have configured a connection for OData Services in SAP Analytics Cloud.

Context

To create a story, you need to create a model. Proceed as described in the following steps:

Procedure

1. To create a model, choose ► *Create* ► *Model* ▾ in the main menu.

The options for bringing data into a model are displayed.

2. To get data from an application, choose *Get data from an app*.
3. To get data from an OData Service, choose *OData Services*.

The **Create Model from OData Services** dialog box is displayed.

4. Select the name of the configured connection.
5. Choose *Next*.

SAP Analytics Cloud retrieves data from the OData Service. Once the data is received, the **New Query for OData Services** dialog box is displayed.

6. In the dialog box, select the business object that you want to add and choose *Next*.

The available attributes for the selected business object are displayed.

7. Drag and the drop the attributes that you want to use from the **Available Data** area to the **Selected Data** area.
8. Choose *Create*.

On the top bar of the application, the query for the business object is displayed.

9. Choose the query.

The **Modeler / Data Integration** screen is displayed, where you can modify the model before saving it.

10. Save the model.

Results

You can use the data for the creation of stories on the retrieved data in SAP Analytics Cloud.

24 Impacts

Impacts are used to view the impacts from the conducted risk assessments. For example an event may impact multiple aspects each with its own severity. This is defined as impact(s) for example safety of people and plant, environmental compliance, operational loss, financial impact and so on.

This API allows you to create, update, view, retrieve, publish and delete impacts.

24.1 Creating an Impact

This API allows you to create an impact for an assessment template in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/impacts
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_post file.

Response

On successful execution, the system creates an impact for an assessment template. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_post.

24.2 Viewing List of Existing Impacts

This API allows you to view the existing list of impacts in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/impacts
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_get file.

Response

On successful execution, the system updates the existing impact for an assessment template. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_get.

24.3 Retrieving Impact Categories

This API allows you to retrieve an impact in SAP Asset Performance and Strategy Management based on the value provided.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/impacts/categories
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_categories_get file.

Response

On successful execution, the system retrieves an impact based on the value provided. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts_categories_get.

24.4 Updating an Impact

This API allows you to update an impact for an assessment template in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/impacts/{impactId}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__put file.

Response

On successful execution, the system updates the impact for an assessment template. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__put.

24.5 Deleting an Impact

This API allows you to delete an impact in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* DELETE

- *Example URL:* Application_URL/services/api/v1/aspm/impacts/{impactId}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__delete file.

Response

On successful execution, the system deletes the specified impact. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__delete.

24.6 Publishing an Impact

This API allows you to publish an impact in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/impacts/{impactId}/publish
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__publish_put file.

Response

On successful execution, the system publishes an impact. For more information, see https://help.sap.com/doc/64be25dbf7de4a1ebff0b72e19260106/1902/en-US/ImpactCategory.html#aspm_impacts__impactid__publish_put.

25 Dimensions

Dimensions are used to define assessment template based on which the assessment is done.

This API allows you to create, view, update, and delete dimensions.

25.1 Viewing List of Existing Dimensions

This API allows you to view the existing dimensions in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/dimensions
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT or ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions_get file.

Response

On successful execution, the system provides a list of existing dimensions. For more information, see https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions_get.

25.2 Creating a Dimension

This API allows you to create a dimension in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/dimensions
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions_post file.

Response

On successful execution, the system creates an impact for an assessment template. For more information, see https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions_post.

25.3 Updating an Unpublished Dimension

This API allows you to update an unpublished dimensions in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/dimensions/{id}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions_id_put file.

Response

On successful execution, the system updates the specified unpublished dimension. For more information, see https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions__id__put.

25.4 Deleting a Dimension

This API allows you to delete a dimension in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/aspm/dimensions/{id}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions__id__delete file.

Response

On successful execution, the system deletes the specified unpublished dimension. For more information, see https://help.sap.com/doc/7cd5841cf955474a816e122891cc8b46/1902/en-US/ASPM_Dimension.html#aspm_dimensions__id__delete.

26 Scales

You use this API to define the question and answers based on which the assessment is done. Scale types can be:

- Qualitative
- Quantitative Single
- Quantitative Range

i Note

Scale dimension and UOM need to be specified only if the scale type is Quantitative. It is obtained from the AIN UOM enum service.

This API allows you to create, update, retrieve, and delete a scale.

26.1 Creating a Scale

This API allows you to create a new scale in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/scales
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales_post file.

Response

On successful execution, the system creates a new scale. For more information, see https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales_post.

26.2 Viewing List of Existing Scales

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/scales
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales_get file.

Response

On successful execution, the system gets the list of existing scales. For more information, see https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales_get.

26.3 Deleting a Scale

This API allows you to delete a scale in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/scales/{scaleID}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__delete file.

Response

On successful execution, the system deletes the specified scale. For more information, see https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__delete.

26.4 Updating a Scale

This API allows you to update the specified scale in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/scales/{scaleID}`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__put file.

Response

On successful execution, the system updates the specified scale. For more information, https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__put.

26.5 Retrieving Scale Details

This API allows you to get the details of a scale in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/scales/{scaleID}`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__get file.

Response

On successful execution, the system gets the details of the scale. For more information, see https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__get.

26.6 Publishing a Scale

This API allows you to publish a scale in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/scales/{scaleID}/publish
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_EDIT or o ASSESSMENT_TEMPLATE_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__publish_put file.

Response

On successful execution, the system publishes the specified scale. For more information, see https://help.sap.com/doc/8eb233a021284cdaa4e841c863b3e488/1902/en-US/Scale.html#scales__scaleid__publish_put.

27 Assessment Template

You use this API to create an assessment template and is used for assessing equipment, location and groups.

This can be of the following types:

- Risk and criticality template
- Questionnaire template
- Failure Modes and Effects Analysis template (FMEA)

This API allows you to create, update, retrieve, and delete an assessment template.

27.1 Retrieving Assessment Templates

This API allows you to retrieve a list of all assessment templates in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_get file.

Response

On successful execution, the system retrieves the list of all assessment templates. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_get.

27.2 Creating an Assessment Template

This API allows you to create a new assessment template in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_post file.

Response

On successful execution, the system creates a new assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_post.

27.3 Retrieving List of Asset Central Foundation Objects

This API allows you to retrieve the list of asset central foundation business objects supported by an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/objects
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_objects_get file.

Response

On successful execution, the system retrieves the list of available intents. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates_objects_get.

27.4 Updating an Assessment Template

This API allows you to update the specified assessment template in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateID}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__put file.

Response

On successful execution, the system updates the specified assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__put.

27.5 View Main Details of an Assessment Template

You can view the main details of an assessment template.

Request

- *HTTP Method:* GET

- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/header
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__header_get file.

Response

On successful execution, the system gets the details of the assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__header_get.

27.6 Retrieving List of Roles Assigned to an Assessment Template

This API allows you to retrieve the list of roles assigned to an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/roles
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__roles_get file.

Response

On successful execution, the system retrieves the list of available roles. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__roles_get.

27.7 Updating Roles Assigned to an Assessment Template

You can update roles assigned to an assessment template.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/roles
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__roles_put file.

Response

On successful execution, the system updates the roles assigned to the assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__roles_put.

27.8 View Thresholds Assigned to an Assessment Template

This API retrieves the list of thresholds assigned to an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/thresholds
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__thresholds_get file.

Response

On successful execution, the system retrieves the list of available thresholds for the impact. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__thresholds_get.

27.9 Update Thresholds Assigned to an Assessment Template

This API allows you to update thresholds assigned to an assessment template. Thresholds can be updated only for assessment templates of types Risk and criticality template (CA), Questionnaire template (QUEST), Failure Mode Effect Analysis template (FMEA), Simple Checklist template (CL).

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/thresholds`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__thresholds_put file.

Response

On successful execution, the system update the list of thresholds assigned to the assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__thresholds_put.

27.10 Publishing an Assessment Template

This API allows you to publish an assessment template in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateID}/publish
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__publish_put file.

Response

On successful execution, the system publishes an assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__publish_put.

27.11 Create New Revision of a Published Assessment Template

This API allows you to create a new revision of an already published assessment template.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateID}/revise
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__revise_put file.

Response

On successful execution, the system creates a new revision of the specified assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__revise_put.

27.12 View Impacts and Dimensions

This API allows you to view the impacts and dimensions assigned to an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/impacts`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_DELETE or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts_get file.

Response

On successful execution, the system displays a list of impacts and dimensions assigned to the assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts_get.

27.13 Update Impacts Assigned to an Assessment Template

This API allows you to update impacts assigned to an assessment template.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/impacts`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts_put file.

Response

On successful execution, the system updates the impacts assigned to the assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts_put.

27.14 Update Dimensions

This API allows you to update dimensions assigned to an impact action can be either **assign** or **remove**.

i Note

Impacts and dimensions are not applicable for RCM template.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/impacts/{impactId}/dimensions/{action}`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.

- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts__impactid__dimensions__action__put file.

Response

On successful execution, the system updates the dimensions. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__impacts__impactid__dimensions__action__put.

27.15 View Asset Central Foundation Templates

You can view the asset central foundation templates assigned to an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/templates
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__templates_get file.

Response

On successful execution, the system gets the asset central foundation templates assigned to an assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__templates_get.

27.16 Update Asset Central Foundation Templates

This API allows you to update asset central foundation templates assigned to an assessment template and the action can be either **assign** or **remove**.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/templates/{action}
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__templates__action__put file.

Response

On successful execution, the system update asset central foundation templates assigned to an assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__templates__action__put.

27.17 View Dimension Graph

You can view the dimension graph assigned to an assessment template.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/dimensiongraph
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the <https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/>

[AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__dimensiongraph_get](#) file.

Response

On successful execution, the system gets the asset central foundation templates assigned to an assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__dimensiongraph_get.

27.18 Update Dimension Graph

You can update the dimension graph assigned to an assessment template.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/assessmenttemplates/{assessmentTemplateId}/dimensiongraph`
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__dimensiongraph_put file.

Response

On successful execution, the system updates the asset central foundation templates assigned to an assessment template. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#assessmenttemplates__assessmenttemplateid__dimensiongraph_put.

27.19 View List of Checklist Templates Assigned to Object

You can view the list of checklist templates assigned to object.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/objects/{objectId}/assessmenttemplates
- *Authorization:* You must have the roles ASSESSMENT_TEMPLATE_READ or ASSESSMENT_TEMPLATE_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#objects__objectid__assessmenttemplates_get file.

Response

On successful execution, the system gets the list of checklist templates assigned to object. For more information, see https://help.sap.com/doc/be323ef0c8594b81a9f30df6260a113c/1902/en-US/AssessmentTemplateV2_final.html#objects__objectid__assessmenttemplates_get.

28 Assessment

Assessment is used for assessing and viewing the calculated scores. This assessment can be of the following types:

- Risk and criticality
- Questionnaire
- Failure Modes and Effects Analysis(FMEA)

This API allows you to create, update, retrieve and delete assessments for an Equipment, Functional Locations, Systems and Groups.

28.1 Viewing List of Existing Assessments

This API allows you to view the list of assessments in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments
- *Authorization:* You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_get file.

Response

On successful execution, the system generates a list of existing assessments. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_get.

28.2 Creating an Assessment of Type Risk and Criticality

This API allows you to create an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_post file.

Response

On successful execution, the system creates an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_post.

28.3 Viewing Risk Assessments for an Object

This API allows you to view the list of assessments performed on a given object in SAP Asset Performance and Strategy Management. Objects supported are Systems, Equipment, and Functional Location.

Request

- *HTTP Method:* GET
- Application_URL/services/api/v1/aspm/riskassessments/businessobjects/{objectid}/assessmentlist
- *Authorization:* Example URL: You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_businessobjects__objectid__assessmentlist_get file.

Response

On successful execution, the system generates the list of assessments performed on a given object. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_businessobjects__objectid__assessmentlist_get.

28.4 Retrieving Risk Types

This API allows you to retrieve the list of risk types in SAP Asset Performance and Strategy Management. For example, initial risk, mitigated risk, unmitigated risk.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/risktypes
- *Authorization:* You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_risktypes_get file.

Response

On successful execution, the system retrieves the list of risk types. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_risktypes_get.

28.5 Updating Header Information of an Unpublished Assessment

This API allows you to update the header information of an unpublished assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/header`
- *Authorization:* Example URL: You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_header_put file.

Response

On successful execution, the system updates the header information of an unpublished assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_header_put.

28.6 Deleting an Unpublished Assessment

This API allows you to delete an unpublished assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* DELETE
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/{id}`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments_id_delete file.

Response

On successful execution, the system deletes the specified unpublished assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__delete.

28.7 Retrieving Assigned Objects of an Assessment

This API allows you to retrieve assigned objects (Groups, Equipment, Locations, or Systems) of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/businessobjects
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_get file.

Response

On successful execution, the system gets the assigned objects (Groups, Equipment, Locations or Systems) of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_get.

28.8 Assigning a Business Object to an Assessment

This API allows you to assign a business object (Groups, Equipment, Locations or Systems) to an assessment. This will replace the list of business objects that are already assigned with the given object.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/{id}/businessobjects/assign`
- *Authorization:* You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_assign_put file.

Response

On successful execution, the system assigns the selected business object (group or systems) to an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_assign_put.

28.9 Unassigning Objects From an Assessment

This API allows you to un-assign business objects (Groups, Equipment, Locations or Systems) from an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/{id}/businessobjects/unassign`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_unassign_put file.

Response

On successful execution, the system un-assigns business objects from an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__businessobjects_unassign_put.

28.10 Retrieving Questionnaire

This API allows you to get questions and answer information of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/questionnaire
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__questionnaire_get file.

Response

On successful execution, the system retrieves the question and answer information of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__questionnaire_get.

28.11 Updating Question and Answer Information of an Impact

This API allows you to update questions and answer information of an impact in an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/{id}/questionnaire`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__questionnaire_put file.

Response

On successful execution, the system retrieves the updated question and answer information of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__questionnaire_put.

28.12 Publishing an Assessment

This API allows you to publish an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/riskassessments/{id}/publish`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__publish_put file.

Response

On successful execution, the system publishes an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__publish_put.

28.13 Retrieving Users Assigned to Roles

This API allows you to get users assigned to roles of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/bproles
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__bproles_get file.

Response

On successful execution, the system gets the users assigned to the roles of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__bproles_get.

28.14 Assigning Users to Roles

This API allows you to assign users to roles of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/bproles
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__bproles_put file.

Response

On successful execution, the system assigns the selected to the roles. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__bproles_put.

28.15 Retrieving Descriptions

This API allows you to get the various types of descriptions like scope of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/information
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__information_get file.

Response

On successful execution, the system gets the various types of descriptions like scope of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__information_get.

28.16 Updating Descriptions

This API allows you to update the various types of descriptions like scope of an assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/riskassessments/{id}/information
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__information_put file.

Response

On successful execution, the system updates the various types of descriptions like scope of an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_riskassessments__id__information_put.

28.17 Retrieving Failure Modes, Causes and Effects for an Object

This API allows you to get the list of failuremodes, causes and effects for a particular object in an FMEA assessment.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/{assessmentId}/objects/{objectId}
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__objects__objectid__get file.

Response

On successful execution, the system gets the list of failuremodes, causes and effects for a particular object in an assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__objects__objectid__get.

28.18 Retrieving Activities at Both Object and Cause Levels

This API allows you to get the list of activities at both object and cause levels.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/{assessmentId}/businessobjects/{**bold**}/activities
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the <https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/>

[ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__businessobjects__boid__activities_get](#) file.

Response

On successful execution, the system gets the list of activities at both object and cause levels. in an FMEA assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__businessobjects__boid__activities_get.

28.19 Retrieving UoMs of the FMEA Assessment

This API allows you to get the UoMS of the FMEA assessment.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/assessments/fmea/{assessmentId}/uoms`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__uoms_get file.

Response

On successful execution, the system gets the UOMS of the FMEA assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea__assessmentid__uoms_get.

28.20 Retrieving Dimensions and Scale Options for Effects

This API allows you to get the dimensions and scale options for the effects.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/assessments/fmea/map/{fmeaMapId}/effects/dimensions`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_map__fmeamapid__effects_dimensions_get file.

Response

On successful execution, the system gets the dimensions and scale options for the the object in an FMEA assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_map__fmeamapid__effects_dimensions_get.

28.21 Retrieve Dimensions and Scale for a Cause

This API allows you to get the dimensions and scale options for cause.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/assessments/fmea/map/{fmeaMapId}/causes/dimensions`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_map__fmeamapid__causes_dimensions_get file.

Response

On successful execution, the system gets the dimensions and scale options for the causes assigned to an object in an FMEA assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_map__fmeamapid__causes_dimensions_get.

28.22 Retrieving RPN and Activity Count

This API allows you to get RPN and activity count of the last published FMEA assessment for which the business object is assigned.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/businessobjects/{bold}/activities/counts
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_businessobjects__boid__activities_counts_get file.

Response

On successful execution, the system gets RPN and activity count of the last published FMEA assessment for which the business object is assigned. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_businessobjects__boid__activities_counts_get.

28.23 Updating Causes

This API allows you to update causes for a FMEA assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/causes
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_causes_put file.

Response

On successful execution, the system updates the causes for a FMEA assessment.. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_causes_put.

28.24 Updating Activities

This API allows you to update activities for a FMEA assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/activities
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_put file.

Response

On successful execution, the system updates the activities for a FMEA assessment.. For more information, see https://help.sap.com/doc/52bf3ebcbdd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_put.

28.25 Assign Activities

This API allows you to assign activities for a FMEA assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/activities/assign
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbdd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_assign_put file.

Response

On successful execution, the system assigns the activities for an FMEA assessment.. For more information, see https://help.sap.com/doc/52bf3ebcbdd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_assign_put.

28.26 Unassign Activities

This API allows you to unassign activities for a FMEA assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/assessments/fmea/activities/unassign

- *Authorization*: You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema*: Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_unassign_put file.

Response

On successful execution, the system unassigns the activities for an FMEA assessment.. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_activities_unassign_put.

28.27 Updating Effect's scale options

This API allows you update effect's scale options for a FMEA assessment.

Request

- *HTTP Method*: PUT
- *Example URL*: Application_URL/services/api/v1/aspm/assessments/fmea/effects
- *Authorization*: You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema*: Refer to the request schema in the https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_effects_put file.

Response

On successful execution, the system update effect's scale options for a FMEA assessment. For more information, see https://help.sap.com/doc/52bf3ebcbbd1459498d4262df11108c3/1902/en-US/ASPM_RiskAssessment.html#aspm_assessments_fmea_effects_put.

29 Checklist Assessment

29.1 View List of Checklist Assessments

This API allows you to view the list of checklist assessments in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* Application_URL/services/api/v1/aspm/checklists
- *Authorization:* You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists_get file.

Response

On successful execution, the system generates a list of existing checklist assessments. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists_get.

29.2 Create a Checklist Assessment

This API allows you to create a checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/checklists

- *Authorization*: You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema*: Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists_post file.

Response

On successful execution, the system creates a checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists_post.

29.3 Update Header Information of an Unpublished Checklist Assessment

This API allows you to update the header information of an unpublished checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method*: PUT
- *Example URL* `Application_URL/services/api/v1/aspm/checklists/{checklistId}`
- *Authorization*: Example URL: You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema*: Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__put file.

Response

On successful execution, the system updates the header information of an unpublished checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__put.

29.4 Deleting an Unpublished Checklist Assessment

This API allows you to delete an unpublished checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* DELETE
- *Example URL:* Application_URL/services/api/v1/aspm/checklists/{checklistId}
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__delete file.

Response

On successful execution, the system deletes the specified unpublished checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__delete.

29.5 Publishing a Checklist Assessment

This API allows you to publish a checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/checklists/{checklistId}/publish
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__publish_put file.

Response

On successful execution, the system publishes a checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__publish_put.

29.6 Assign Users to Roles Specified in Assessment Template

This API allows you to assign users to particular roles specified in assessment template of an unpublished assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/checklists/{checklistId}/bproles
- *Authorization:* You must have the roles ASSESSMENT_DELETE or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__bproles_put file.

Response

On successful execution, the system assigns users to the selected roles. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__bproles_put.

29.7 Retrieving Users Assigned to Roles of Assessment

This API allows you to get users assigned to particular roles of assessment.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/checklists/{checklistId}/bproles`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__bproles_get file.

Response

On successful execution, the system gets the users assigned to the roles of a checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__bproles_get.

29.8 Retrieving Assigned Objects of Checklist Assessment

This API allows you to retrieve assigned objects (Groups, Equipment, Locations, or Systems) of a checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/checklists/{checklistId}/businessobjects`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_get file.

Response

On successful execution, the system gets the assigned objects of a checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_get.

29.9 Assign Objects to an Unpublished Checklist Assessment

This API allows you to assign a business object to an unpublished checklist assessment. This will replace the list of business objects that are already assigned with the given object.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/checklists/{checklistId}/businessobjects/assign
- *Authorization:* You must have the roles ASSESSMENT_READ or ASSESSMENT_EDIT assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_assign_put file.

Response

On successful execution, the system assigns the selected business object to the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_assign_put.

29.10 Unassigning Objects From a Checklist Assessment

This API allows you to un-assign business objects from a checklist assessment in SAP Asset Performance and Strategy Management.

Request

- *HTTP Method:* PUT
- *Example URL:* `Application_URL/services/api/v1/aspm/checklists/{checklistId}/businessobjects/unassign`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_DELETE assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_unassign_put file.

Response

On successful execution, the system un-assigns business objects from the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklists__checklistid__businessobjects_unassign_put.

29.11 Retrieving All Attribute Values for a Checklist Assessment

This API allows you to fetch all the attribute values for a checklist assessment.

Request

- *HTTP Method:* GET
- *Example URL:* `Application_URL/services/api/v1/aspm/checklist/{checklistId}/assessment/{id}/values`
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__assessment__id__values_get file.

Response

On successful execution, the system fetches all the attribute values for the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__assessment__id__values_get.

29.12 Update Attribute Values for a Checklist Assessment.

This API allows you update the attribute values for a checklist assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/checklist/{checklistId}/assessment/{id}/values
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__assessment__id__values_put file.

Response

On successful execution, the system updates the attribute values for the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__assessment__id__values_put.

29.13 Retrieving All Indicator Values for a Checklist Assessment

This API allows you to fetch all the indicator values for a checklist assessment.

Request

- *HTTP Method:* GET

- *Example URL:* Application_URL/services/api/v1/aspm/checklist/{checklistId}/indicator/{assessmentId}/values
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__assessmentid__values_get file.

Response

On successful execution, the system fetches all the attribute values for the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__assessmentid__values_get.

29.14 Add Indicator Values to a Checklist Assessment

This API allows you add indicator values to a checklist assessment.

Request

- *HTTP Method:* POST
- *Example URL:* Application_URL/services/api/v1/aspm/checklist/{checklistId}/indicator/{assessmentId}/values
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__assessmentid__values_post file.

Response

On successful execution, the system adds indicator values to the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__assessmentid__values_post.

29.15 Update Individual Indicator Value for a Checklist Assessment

This API allows you to update the individual indicator value for a checklist assessment.

Request

- *HTTP Method:* PUT
- *Example URL:* Application_URL/services/api/v1/aspm/checklist/{checklistId}/indicator/{valueId}/values
- *Authorization:* You must have the roles ASSESSMENT_EDIT or ASSESSMENT_READ assigned to your user ID.
- *Request Schema:* Refer to the request schema in the https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__valueid__values_put file.

Response



On successful execution, the system updates the individual indicator value for the checklist assessment. For more information, see https://help.sap.com/doc/25e941e160e747f39702978d8c81e878/1902/en-US/Checklist.html#checklist__checklistid__indicator__valueid__values_put.

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