GE VERNOVA

Asset Performance Management
On-Premises APM
V5.2.2.0.0

Simple Ingestion API V2

Contents

Copyright Digital, part of GE Vernova

Chapter
2

Overview

Topics:

- Overview

Overview

This API provides the ability to injest records into APM. There are two versions of this API. The v1 only works with the Family Data Loader and is intended to ingest a small number of records into APM creating records and linking them together. The v1 API is a synchronous call, so thus it will not return a response until the transaction is completed or rolled back. The v2 API works with all of the data loaders, allowing users to ingest many types of data through an API. The v2 API is asynchronous, so once the Bundle has been registered, and the data submitted, the response will return with the Bundle ID and the number of tables and rows submitted. An additional API call is needed to get the status of the ingestion.

Chapter
3

Getting Started

Topics:

- Getting Started

Getting Started

This API is subject to all requirements and constraints of the existing WebApi endpoints, specifically, authentication, authorization, localization, globalization, and serialization.

- The records and links being loaded through this API follow the same ingestion logic, as if you were loading the data through the Data Loader UI.
- The body or payload of the request consists of the Description, DataLoaderId, Origin, DaysToLive and list of Tables.

Table 1: Request properties

Property	Description
Description	Freeform description of the data being loaded
DataLoaderId	A value from the below list of valid DataLoaderIds
Origin	SimpleIngestion
DaysToLive	Number of days that the Bundle data and associated logs should remain before they are deleted
Tables	List of Json Table objects

Table 2: List of valid DataLoaderIds

Property	Description
Asset Criticality Analysis (ACA Checklist)	ACACheckListDataLoader
Asset Criticality Analysis (ACA)	ACAMatrixDataLoader
Asset Strategy Implementation (ASI)	AsiDataLoader
Asset Strategy Management (ASM)	AsmDataLoader
Asset Strategy Management (ASM) Template	AsmTemplateDataLoader
Calibration Management	CalibrationBatchDataLoader
Calibration Management - Functional Test	FuncTestCalibrationBatchDataLoader
Equipment and Functional Location Loader	EquipmentFunctionalLocationLoader
Failure Modes and Effects Analysis (FMEA)	FMEAAnalysisDataLoader
Failure Modes and Effects Analysis (FMEA) Analysis Templates	FMEAAnalysisTemplateDataLoader
Failure Modes and Effects Analysis (FMEA) Asset Templates	FMEAAssetTemplateDataLoader
Family Data Loader	FamilyDataLoader
GAA Wind Asset Hierarchy	GAAWindAssetHierarchyDataLoader
GAA Wind Events	GAAWindEventDataloader
GAA Wind Subgroup Capacity	GAAWindSubgroupCapacityDataLoader
Generation Availability Analysis (GAA) Events	GAAEventsDataLoader
Generation Availability Analysis (GAA) GADS Amplification Codes	GAAAmplificationCodeDataLoader

Property	Description
Generation Availability Analysis (GAA) GADS Cause Code	GAACauseCodeDataLoader
GIS Data Loader	GISDataLoader
Hazard Analysis	HazardAnalysisBatchDataLoader
Inspection Management (IM) Assets	IMBatchAssetDataLoader
Inspection Management (IM) Functional Location	IMBatchFLDataLoader
Link TMLs To Inspection Task	TMBatchLinkTMLsToInspectionTask
Policy Instance Data Loader	PolicyInstanceBatchDataLoader
Production Loss Analysis (PLA) 1 – Admin	PLAAdminBatchDataLoader
Production Loss Analysis (PLA) 2 – Event	PLAEventBatchDataLoader
Production Loss Analysis (PLA) 3 – Plan	PLAPlanBatchDataLoader
RBI Components to TML Groups Relationship	RBITMBatchDataLoader
Reliability Centered Maintenance (RCM)	RCMAnalysisDataLoader
Reliability Centered Maintenance (RCM) Analysis Template	RCMAnalysisTemplateDataLoader
Risk Based Inspection (RBI) 580	RBI580BatchDataLoader
Risk Based Inspection (RBI) 581	RBI581BatchDataLoader
Risk Based Inspection (RBI) Corrosion Loop	RBICorrosionLoopBatchDataLoader
Risk Matrix	RiskMatrixDataLoader
Role Data Loader	RolesDataLoader
Root Cause Analysis (RCA)	RCABatchDataLoader
Rounds Allowable Values	AllowableValuesBatchDataLoader
Rounds Pro - Picklist Dataloader	PicklistDataloader
Rounds Pro - Route Master Dataloader	RouteMasterDataloader
Rounds Pro - Step Conditions	StepConditionDataloader
Rounds Pro - Step Dataloader	StepDataloader
Rounds Pro - Step Reading	StepReadingDataloader
Rounds Pro - Step Template	StepTemplateDataloader
Rounds Readings	ReadingsBatchDataLoader
Rounds Routes	RouteBatchDataLoader
Rounds Templates and Template Groups	TemplateBatchDataLoader
Spares Analysis	SpareAnalysisDataLoader
System Reliability Data Loader	SystemReliabilityBatchDataLoader
Taxonomy Data Loader	TaxonomyLoader
Thickness Measurement - Assets	TMBatchThicknessMeasurementAssetsDataloader
Thickness Monitoring (TM) Equipment	TMBatchAssetDataLoader
Thickness Monitoring (TM) Functional Location	TMBatchFLDataLoader
Thickness Monitoring (TM) Piping Equipment	TMBatchPipingAssetDataLoader

Property	Description
Thickness Monitoring (TM) Piping Functional Location	TMBatchPipingFLDataLoader
Work History Loader	WorkHistoryLoader

Below is a sample payload for the FamilyDataLoader, but a similar pattern is followed when loading data through any data loader. You can see that the list of Tables directly coincides with the Worksheets in the source Data Loader Template.

```
{
  "Description": "Load Rotary Pump 76335",
  "DataLoaderId": "FamilyDataLoader",
  "Origin": "SimpleIngestion",
  "DaysToLive": 15,
  "Tables": [
    {
        "Name": "Configuration",
        "Table": [
        {
            "LOAD_DATA_WORKSHEET": "true",
            "DATA_WORKSHEET_ID": "Rotary_Pump",
            "BATCH_SIZE": "100",
            "PRIMARY_FAMILY_ID": "Rotary Pump",
            "PRIMARY_FAMILY_KEY_FIELDS": "ASSET_ID_CHR",
            "FAMILY_TYPE": "Entity",
            "PRED_FAMILY_ID": "<none>",
            "PRED_FAMILY_KEY_FIELDS": "<none>",
            "SUCC_FAMILY_ID": "<none>",
            "SUCC_FAMILY_KEY_FIELDS": "<none>",
            "PRIMARY_ACTION": "ACTION_INSERTUPDATE",
            "PRED_ACTION": "ACTION_NONE",
            "SUCC_ACTION": "ACTION_NONE",
            "OPTION_INSERT_ON_NULL": "true",
            "OPTION_UPDATE_ON_NULL": "true",
            "OPTION_REPLACE_EXISTING_LINK": "false",
            "OPTION_ALLOW_CHANGE_OF_FAMILY": "false",
            "ROW_ID": "3"
        }]
    },
    {
        "Name": "Rotary_Pump",
        "Table": [
        {
            "ASSET_ID_CHR": "RP-IMPELLER-76335",
            "ASSET_DESC_CHR": "Rotary Pump Impellers",
            "ASSET_MANUF_CHR": "Acme",
            "ASSET_CRIT_IND": "True",
            "AROT_FLWRT_NBR": 885.32
        },
        {
            "ASSET_ID_CHR": "RP-POWER-76335",
            "ASSET_DESC_CHR": "Rotary Pump Power Component",
            "ASSET_MANUF_CHR": "Acme",
            "ASSET_CRIT_IND": "False",
            "AROT_FLWRT_NBR": 7899.122
        }]
    }
    ]
}
```

Chapter
4

Base URL

Topics:

- BaseURL

BaseURL

BaseURL for API V1

`/v1/simpleIngest`

BaseURL for API V2

`/v2/simpleIngest`

Chapter
5

Authentication

Topics:

About Authentication

To request for a user token, a POST call to the APM Web API URL with the following URL extension and body must be used. After the Meridium token is retrieved, it is passed as the value to the header key `MeridiumToken`.

POST

Returns a SessionDTO object. From this DTO, `sessionId`, `;` (semicolon), and `timezoneId` are concatenated to produce a Meridium Token value.

You must provide a request header, `meridiumtoken`, with this value on every subsequent API call.

The header `content-type` with value `application/json` is the only other header required by the application.

Request Syntax

```
{{APM_WEB_API_URL}}/api/v1/core/security/login
```

Request Body

```
{"DatasourceId":"APM_DATASOURCE_NAME","Id":"APM User","Password":"APM
Password"}
```

Response

```
Retrieve the Meridium Token from the returned headers
```

Chapter

6

Resources

Topics:

- Create/Update an Entity
- Create/Update a Relationship
- Create/Update an ACA Matrix

Create/Update an Entity

POST

Creates or updates an entity.

Consumes

This API v2 call consumes the `application/json` media types via the Content-Type request header.

Request Syntax

```
POST /v2/simpleIngest
```

Request Body

```
JSON
```

Request Example

```json
{
  "Description": "Create or update two equipment",
  "DataLoaderId": "EquipmentFunctionalLocationLoader",
  "Origin": "SimpleIngestion",
  "DaysToLive": 15,
  "Tables": [
    {
      "Name": "Configuration",
      "Table": [
        {
          "LOAD_DATA_WORKSHEET": "True",
          "DATA_WORKSHEET_ID": "Equipment",
          "BATCH_SIZE": "100",
          "PRIMARY_FAMILY_ID": "MI_EQUIP000",
          "PRIMARY_FAMILY_KEY_FIELDS": "MI_EQUIP000_EQUIP_ID_C|
MI_EQUIP000_SAP_SYSTEM_C",
          "FAMILY_TYPE": "Entity",
          "PRED_FAMILY_ID": "<none>",
          "PRED_FAMILY_KEY_FIELDS": "<none>",
          "SUCC_FAMILY_ID": "<none>",
          "SUCC_FAMILY_KEY_FIELDS": "<none>",
          "PRIMARY_ACTION": "ACTION_INSERTUPDATE",
          "PRED_ACTION": "ACTION_NONE",
          "SUCC_ACTION": "ACTION_NONE",
          "OPTION_INSERT_ON_NULL": "True",
          "OPTION_UPDATE_ON_NULL": "False",
          "OPTION_REPLACE_EXISTING_LINK": "False",
          "OPTION_ALLOW_CHANGE_OF_FAMILY": "False"
        }
      ]
    },
    {
      "Name": "Equipment",
      "Table": [
```

```
            {
              "MI_EQUIP000_EQUIP_ID_C": "CNTPMP-071-0000000000000143171",
              "MI_EQUIP000_EQUIP_TECH_NBR_C": "0000000000000133171",
              "MI_EQUIP000_SAP_SYSTEM_C": "PRF-800",
              "MI_SITE_NAME": "PRF-800",
              "MI_EQUIP000_MAINT_PLANT_C": "0121",
              "MI_EQUIP000_EQUIP_SHRT_DESC_C": "Water recycling system",
              "MI_EQUIP000_PRCH_D": "2015-05-23 09:00:00",
              "MI_EQUIP000_EQUIP_LNG_DESC_T": "",
              "MI_EQUIP000_OBJ_TYP_C": "ROTPMPCNT",
              "MI_EQUIP000_SYS_ST_C": "INST",
              "MI_EQUIP000_MFR_C": "WESTERN SUPPLY",
              "MI_EQUIP000_MOD_NO_C": "",
              "MI_EQUIP000_SN_C": "W-3113-1A-97100000",
              "MI_EQUIP000_ACTIVE_F": "True",
              "MI_EQUIP000_UNIQUE_ID_C": "CNTPMP-071-0000000000000143171"
            },
            {
              "MI_EQUIP000_EQUIP_ID_C": "CNTPMP-071-0000000000000143172",
              "MI_EQUIP000_EQUIP_TECH_NBR_C": "0000000000000133172",
              "MI_EQUIP000_SAP_SYSTEM_C": "PRF-800",
              "MI_SITE_NAME": "PRF-800",
              "MI_EQUIP000_MAINT_PLANT_C": "0121",
              "MI_EQUIP000_EQUIP_SHRT_DESC_C": "Sweet crude for welded
tank",
              "MI_EQUIP000_PRCH_D": "2015-05-23 09:00:00",
              "MI_EQUIP000_EQUIP_LNG_DESC_T": "",
              "MI_EQUIP000_OBJ_TYP_C": "ROTPMPCNT",
              "MI_EQUIP000_SYS_ST_C": "INST",
              "MI_EQUIP000_MFR_C": "WESTERN SUPPLY",
              "MI_EQUIP000_MOD_NO_C": "",
              "MI_EQUIP000_SN_C": "W-3113-1A-97100000",
              "MI_EQUIP000_ACTIVE_F": "True",
              "MI_EQUIP000_UNIQUE_ID_C": "CNTPMP-071-0000000000000143172"
            }
          ]
        }
      ]
    }
```

Return Type

```
200 OK
```

Produces

This API call produces the `application/json` media type according to the Accept request header. The media type will be conveyed by the `Content-Type` response header.

Success Response

```
{
    "bundle": {
        "id": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
        "userId": "MIADMIN",
        "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
        "dataLoaderId": "EquipmentFunctionalLocationLoader",
        "origin": "SimpleIngestion",
```

```
        "created": "2024-08-22T21:11:20.733",
        "expires": "2024-09-06T21:11:20.733",
        "status": "Initial",
        "description": "Create or update two equipment",
        "skipSynchronization": false,
        "manualRun": false
    },
    "submittedTables": 2,
    "submittedRows": 3
}
```

Table 3: Explanation of the response properties

Property	Description
id	Bundle Id which is represented by a GUID
userId	User that ingested the data
datasourceId	Datasource or Tenant where the data is ingested
dataLoaderId	Data Loader used to ingest the data
origin	SimpleIngestion
created	DateTime of when the Bundle was created
expires	DateTime of when the Bundle will be removed from the database
status	(Started, Failed, Completed, CompletedWithRejects, CompletedWithWarnings)
description	Description provided by the user
skipSynchronization	This flag indicates if the Synchronization activity should be skipped. This step
	should not be skipped as it could cause data integrity issues.
manualRun	Is this data being loaded manually? True or False
submittedTables	Number of tables submitted in the SimpleIngest request
submittedRows	Number of rows submitted in the SimpleIngest request for all tables

Given that a v2 API request is made asynchronously, if the user wants to check the status of the bundle ingestion, they will need to make an additional request to the following API, passing in the desired Bundle Id: /v1/bundles/778df65d-9c0d-4ad2-9a00-0046ce2a37aa

Success Response

```
{
    "id": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
    "userId": "MIADMIN",
    "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
    "dataLoaderId": "EquipmentFunctionalLocationLoader",
    "origin": "SimpleIngestion",
    "created": "2024-08-23T01:11:20.733",
    "expires": "2024-09-07T01:11:20.733",
    "status": "Completed",
    "description": "Create or update two equipment",
    "fileName": "Create or update two
equipment_778df65d-9c0d-4ad2-9a00-0046ce2a37aa.zip",
```

```json
      "recipe": {
          "deriveDependencies": false,
          "maxParallelSlices": 10,
          "batchMode": false,
          "synchronizeData": false,
          "sheetRecipes": [
              {
                  "worksheet": "Equipment.csv",
                  "loadWorksheet": true,
                  "gedaFacing": false,
                  "familyType": "ENTITY",
                  "loadOrder": 0,
                  "deleteOrphans": false,
                  "loadRecordsInParallel": false,
                  "allowChangeOfFamily": false,
                  "batchSize": 100,
                  "insertOnNull": true,
                  "replaceExistingLink": false,
                  "updateOnNull": false,
                  "primaryPlan": {
                      "genealogy": "Primary",
                      "action": "ACTION_INSERTUPDATE",
                      "shouldExist": false,
                      "id": "MI_EQUIP000",
                      "keyFieldIds": [
                          "MI_EQUIP000_EQUIP_ID_C",
                          "MI_EQUIP000_SAP_SYSTEM_C"
                      ],
                      "familyType": "ENTITY",
                      "gedaTypeName": "UNIFIED_ASSET__assettype",
                      "gedaTypeNameSetByFramework": true,
                      "gedaFacing": false,
                      "familyIsDerived": false,
                      "familyDerivedColumnId": ""
                  },
                  "primaryFamily": {
                      "genealogy": "Primary",
                      "id": "MI_EQUIP000",
                      "familyType": "ENTITY",
                      "gedaTypeName": "UNIFIED_ASSET__assettype",
                      "gedaFacing": false,
                      "keyFieldIds": [
                          "MI_EQUIP000_EQUIP_ID_C",
                          "MI_EQUIP000_SAP_SYSTEM_C"
                      ],
                      "keyFields": [
                          {
                              "header": "MI_EQUIP000_EQUIP_ID_C",
                              "fieldId": "MI_EQUIP000_EQUIP_ID_C",
                              "label": "Equipment ID",
                              "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_ID_C]",
                              "gedaAttributeName": "",
                              "metaSqlParameterType": "s",
                              "unitOfMeasureFieldId": "",
                              "timeZoneFieldId": "",
                              "fieldType": "String",
                              "isKey": true,
                              "determinesUnitOfMeasure": false,
                              "determinesTimezone": false,
                              "isSystemField": false,
```

```
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                            },
                            {
                                "header": "MI_EQUIP000_SAP_SYSTEM_C",
                                "fieldId": "MI_EQUIP000_SAP_SYSTEM_C",
                                "label": "CMMS System",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_SAP_SYSTEM_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                            }
                        ],
                        "fields": [
                            {
                                "header": "MI_EQUIP000_EQUIP_ID_C",
                                "fieldId": "MI_EQUIP000_EQUIP_ID_C",
                                "label": "Equipment ID",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_ID_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                            },
                            {
                                "header": "MI_EQUIP000_EQUIP_TECH_NBR_C",
                                "fieldId": "MI_EQUIP000_EQUIP_TECH_NBR_C",
                                "label": "Equipment Technical Number",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_TECH_NBR_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": false,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
```

```
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000_SAP_SYSTEM_C",
                            "fieldId": "MI_EQUIP000_SAP_SYSTEM_C",
                            "label": "CMMS System",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_SAP_SYSTEM_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": true,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_SITE_NAME",
                            "fieldId": "MI_SITE_NAME",
                            "label": "Site Name",
                            "metaSqlFieldId": "E.MI_SITE_KEY",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": true,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000_MAINT_PLANT_C",
                            "fieldId": "MI_EQUIP000_MAINT_PLANT_C",
                            "label": "Maintenance Plant",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_MAINT_PLANT_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
```

```
                    "multiValue": false,
                    "readOnly": false,
                    "dynamic": false
                },
                {
                    "header": "MI_EQUIP000_EQUIP_SHRT_DESC_C",
                    "fieldId": "MI_EQUIP000_EQUIP_SHRT_DESC_C",
                    "label": "Equipment Short Description",
                    "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_SHRT_DESC_C]",
                    "gedaAttributeName": "",
                    "metaSqlParameterType": "s",
                    "unitOfMeasureFieldId": "",
                    "timeZoneFieldId": "",
                    "fieldType": "String",
                    "isKey": false,
                    "determinesUnitOfMeasure": false,
                    "determinesTimezone": false,
                    "isSystemField": false,
                    "mandatory": false,
                    "multiValue": false,
                    "readOnly": false,
                    "dynamic": false
                },
                {
                    "header": "MI_EQUIP000_PRCH_D",
                    "fieldId": "MI_EQUIP000_PRCH_D",
                    "label": "Purchase Date",
                    "metaSqlFieldId": "E.[MI_EQUIP000_PRCH_D]",
                    "gedaAttributeName": "",
                    "metaSqlParameterType": "d",
                    "unitOfMeasureFieldId": "",
                    "timeZoneFieldId": "",
                    "fieldType": "Timestamp",
                    "isKey": false,
                    "determinesUnitOfMeasure": false,
                    "determinesTimezone": false,
                    "isSystemField": false,
                    "mandatory": false,
                    "multiValue": false,
                    "readOnly": false,
                    "dynamic": false
                },
                {
                    "header": "MI_EQUIP000_EQUIP_LNG_DESC_T",
                    "fieldId": "MI_EQUIP000_EQUIP_LNG_DESC_T",
                    "label": "Equipment Long Description",
                    "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_LNG_DESC_T]",
                    "gedaAttributeName": "",
                    "metaSqlParameterType": "s",
                    "unitOfMeasureFieldId": "",
                    "timeZoneFieldId": "",
                    "fieldType": "String",
                    "isKey": false,
                    "determinesUnitOfMeasure": false,
                    "determinesTimezone": false,
                    "isSystemField": false,
                    "mandatory": false,
                    "multiValue": false,
                    "readOnly": false,
```

```
                                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000_OBJ_TYP_C",
                            "fieldId": "MI_EQUIP000_OBJ_TYP_C",
                            "label": "Object Type",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_OBJ_TYP_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000_SYS_ST_C",
                            "fieldId": "MI_EQUIP000_SYS_ST_C",
                            "label": "System Status",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_SYS_ST_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000_MFR_C",
                            "fieldId": "MI_EQUIP000_MFR_C",
                            "label": "Manufacturer",
                            "metaSqlFieldId": "E.[MI_EQUIP000_MFR_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
```

```json
                                {
                                        "header": "MI_EQUIP000_MOD_NO_C",
                                        "fieldId": "MI_EQUIP000_MOD_NO_C",
                                        "label": "Model Number",
                                        "metaSqlFieldId": "E.
[MI_EQUIP000_MOD_NO_C]",

                                        "gedaAttributeName": "",
                                        "metaSqlParameterType": "s",
                                        "unitOfMeasureFieldId": "",
                                        "timeZoneFieldId": "",
                                        "fieldType": "String",
                                        "isKey": false,
                                        "determinesUnitOfMeasure": false,
                                        "determinesTimezone": false,
                                        "isSystemField": false,
                                        "mandatory": false,
                                        "multiValue": false,
                                        "readOnly": false,
                                        "dynamic": false
                                },
                                {

                                        "header": "MI_EQUIP000_SN_C",
                                        "fieldId": "MI_EQUIP000_SN_C",
                                        "label": "Equipment Serial Number",
                                        "metaSqlFieldId": "E.[MI_EQUIP000_SN_C]",
                                        "gedaAttributeName": "",
                                        "metaSqlParameterType": "s",
                                        "unitOfMeasureFieldId": "",
                                        "timeZoneFieldId": "",
                                        "fieldType": "String",
                                        "isKey": false,
                                        "determinesUnitOfMeasure": false,
                                        "determinesTimezone": false,
                                        "isSystemField": false,
                                        "mandatory": false,
                                        "multiValue": false,
                                        "readOnly": false,
                                        "dynamic": false
                                },
                                {

                                        "header": "MI_EQUIP000_ACTIVE_F",
                                        "fieldId": "MI_EQUIP000_ACTIVE_F",
                                        "label": "Active",
                                        "metaSqlFieldId": "E.
[MI_EQUIP000_ACTIVE_F]",

                                        "gedaAttributeName": "",
                                        "metaSqlParameterType": "s",
                                        "unitOfMeasureFieldId": "",
                                        "timeZoneFieldId": "",
                                        "fieldType": "Boolean",
                                        "isKey": false,
                                        "determinesUnitOfMeasure": false,
                                        "determinesTimezone": false,
                                        "isSystemField": false,
                                        "mandatory": false,
                                        "multiValue": false,
                                        "readOnly": false,
                                        "dynamic": false
                                },
                                {

                                        "header": "MI_EQUIP000_UNIQUE_ID_C",
```

```
                            "fieldId": "MI_EQUIP000_UNIQUE_ID_C",
                            "label": "Unique ID",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_UNIQUE_ID_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": false,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        }
                    ],
                    "familyKey": "64251784124",
                    "gedaTypeNameSetByFramework": true,
                    "familyIsDerived": false,
                    "familyDerivedColumnId": "",
                    "keyFieldHeaders": [
                        "MI_EQUIP000_EQUIP_ID_C",
                        "MI_EQUIP000_SAP_SYSTEM_C"
                    ]
                },
                "predecessorPlan": {
                    "genealogy": "Predecessor",
                    "action": "ACTION_NONE",
                    "shouldExist": true,
                    "familyType": "ENTITY",
                    "gedaTypeNameSetByFramework": false,
                    "gedaFacing": false,
                    "familyIsDerived": false
                },
                "predecessorFamily": {
                    "genealogy": "Predecessor",
                    "familyType": "ENTITY",
                    "gedaFacing": false,
                    "keyFieldIds": [],
                    "keyFields": [],
                    "fields": [],
                    "gedaTypeNameSetByFramework": false,
                    "familyIsDerived": false,
                    "keyFieldHeaders": []
                },
                "successorPlan": {
                    "genealogy": "Successor",
                    "action": "ACTION_NONE",
                    "shouldExist": true,
                    "familyType": "ENTITY",
                    "gedaTypeNameSetByFramework": false,
                    "gedaFacing": false,
                    "familyIsDerived": false
                },
                "successorFamily": {
                    "genealogy": "Predecessor",
                    "familyType": "ENTITY",
                    "gedaFacing": false,
```

```
                    "keyFieldIds": [],
                    "keyFields": [],
                    "fields": [],
                    "gedaTypeNameSetByFramework": false,
                    "familyIsDerived": false,
                    "keyFieldHeaders": []
                },
                "numberOfRowsToChunk": 0,
                "rowsAreChunked": false
            }
        ],
        "rejectedRows": [],
        "warningRows": [],
        "ingestionConfiguration": {
            "familyFieldsToExclude": [],
            "gedaFieldsToExclude": []
        }
    },
    "sliceCount": 1,
    "latestTimeStamp": "2024-08-23T01:11:27.511",
    "insertedRowCount": 0,
    "updatedRowCount": 2,
    "deletedRowCount": 0,
    "rejectedRowCount": 0,
    "events": [
        {
            "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
            "activity": "Transmit",
            "status": "Started",
            "timeStamp": "2024-08-23T01:11:22.680",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
            "activity": "Normalize",
            "status": "Started",
            "timeStamp": "2024-08-23T01:11:23.624",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
            "activity": "Transmit",
            "status": "Completed",
            "timeStamp": "2024-08-23T01:11:23.993",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
            "activity": "Normalize",
            "status": "Completed",
            "timeStamp": "2024-08-23T01:11:24.204",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
            "activity": "Compile",
            "status": "Started",
            "timeStamp": "2024-08-23T01:11:24.228",
            "progressPercentage": 100.0
        },
        {
```

```
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Compile",
                "status": "Completed",
                "timeStamp": "2024-08-23T01:11:25.856",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Slice",
                "status": "Started",
                "timeStamp": "2024-08-23T01:11:25.875",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Slice",
                "status": "Completed",
                "timeStamp": "2024-08-23T01:11:26.765",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Ingest",
                "status": "Started",
                "timeStamp": "2024-08-23T01:11:26.782",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Ingest",
                "status": "Completed",
                "timeStamp": "2024-08-23T01:11:28.163",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Synchronize",
                "status": "Started",
                "timeStamp": "2024-08-23T01:11:28.182",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "778df65d-9c0d-4ad2-9a00-0046ce2a37aa",
                "activity": "Synchronize",
                "status": "Completed",
                "timeStamp": "2024-08-23T01:11:28.948",
                "progressPercentage": 100.0
        }
    ],
    "skipSynchronization": false,
    "manualRun": false,
    "progressPercentage": 100
```

Create/Update a Relationship

POST

Creates or updates the predecessor, successor and any relationships.

Consumes

This API v2 call consumes the `application/json` media types via the Content-Type request header.

Request Syntax

```
POST /v2/simpleIngest
```

Request Body

```
JSON
```

Request Example

```json
{
  "Description": "Link Functional Locations to Equipment",
  "DataLoaderId": "EquipmentFunctionalLocationLoader",
  "Origin": "SimpleIngestion",
  "DaysToLive": 15,
  "Tables": [
    {
      "Name": "Configuration",
      "Table": [
        {
          "LOAD_DATA_WORKSHEET": "True",
          "DATA_WORKSHEET_ID": "FuncLocsToEquipment",
          "BATCH_SIZE": "100",
          "PRIMARY_FAMILY_ID": "MIR_FLHSEQ",
          "PRIMARY_FAMILY_KEY_FIELDS": "<none>",
          "FAMILY_TYPE": "Relationship",
          "PRED_FAMILY_ID": "MI_FNCLOC00",
          "PRED_FAMILY_KEY_FIELDS": "MI_FNCLOC00_INTERNAL_ID_C|
MI_FNCLOC00_SAP_SYSTEM_C",
          "SUCC_FAMILY_ID": "MI_EQUIP000",
          "SUCC_FAMILY_KEY_FIELDS": "MI_EQUIP000_EQUIP_ID_C|
MI_EQUIP000_SAP_SYSTEM_C",
          "PRIMARY_ACTION": "ACTION_INSERTUPDATE",
          "PRED_ACTION": "ACTION_INSERTUPDATE",
          "SUCC_ACTION": "ACTION_INSERTUPDATE",
          "OPTION_INSERT_ON_NULL": "True",
          "OPTION_UPDATE_ON_NULL": "False",
          "OPTION_REPLACE_EXISTING_LINK": "True",
          "OPTION_ALLOW_CHANGE_OF_FAMILY": "False"
        }
      ]
    },
    {
      "Name": "FuncLocsToEquipment",
      "Table": [
        {
          "MI_FNCLOC00|MI_FNCLOC00_INTERNAL_ID_C":
"IF0000000009056820",
          "MI_FNCLOC00|MI_FNCLOC00_FNC_LOC_C": "REFN-RF997-E0012A-097",
          "MI_FNCLOC00|MI_FNCLOC00_SAP_SYSTEM_C": "PRF-800",
          "MI_FNCLOC00|MI_FNCLOC00_UNIQUE_ID_C": "REFN-RF997-
E0012A-097",
```

```
            "MI_EQUIP000|MI_EQUIP000_EQUIP_ID_C":
"SBX-071-000000000000133174",
            "MI_EQUIP000|MI_EQUIP000_SAP_SYSTEM_C": "PRF-800",
            "MI_EQUIP000|MI_EQUIP000_UNIQUE_ID_C":
"SBX-071-000000000000133174"
        },
        {
            "MI_FNCLOC00|MI_FNCLOC00_INTERNAL_ID_C":
"IF0000000009056820",
            "MI_FNCLOC00|MI_FNCLOC00_FNC_LOC_C": "REFN-RF997-E0012A-097",
            "MI_FNCLOC00|MI_FNCLOC00_SAP_SYSTEM_C": "PRF-800",
            "MI_FNCLOC00|MI_FNCLOC00_UNIQUE_ID_C": "REFN-RF997-
E0012A-097",
            "MI_EQUIP000|MI_EQUIP000_EQUIP_ID_C":
"SBX-071-000000000000134876",
            "MI_EQUIP000|MI_EQUIP000_SAP_SYSTEM_C": "PRF-800",
            "MI_EQUIP000|MI_EQUIP000_UNIQUE_ID_C":
"SBX-071-000000000000134876"
        }
      ]
    }
  ]
}
```

Return Type

```
200 OK
```

Produces

This API call produces the `application/json` media type according to the Accept request header. The media type will be conveyed by the `Content-Type` response header.

Success Response

```
{
    "bundle": {
        "id": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
        "userId": "MIADMIN",
        "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
        "dataLoaderId": " EquipmentFunctionalLocationLoader ",
        "origin": "SimpleIngestion",
        "created": "2024-08-09T18:44:17.326",
        "expires": "2024-08-29T18:44:17.326",
        "status": "Initial",
        "description": " Link Functional Locations to Equipment ",
        "skipSynchronization": false,
        "manualRun": false
    },
    "submittedTables": 2,
    "submittedRows": 3
}
```

Table 4: Explanation of the response properties

Property	Description
id	Bundle Id which is represented by a GUID
userId	User that ingested the data
datasourceId	Datasource or Tenant where the data is ingested
dataLoaderId	Data Loader used to ingest the data
origin	SimpleIngestion
created	DateTime of when the Bundle was created
expires	DateTime of when the Bundle will be removed from the database
status	(Started, Failed, Completed, CompletedWithRejects, CompletedWithWarnings)
description	Description provided by the user
skipSynchronization	This flag indicates if the Synchronization activity should be skipped. This step should not be skipped as it could cause data integrity issues.
manualRun	Is this data being loaded manually? True or False
submittedTables	Number of tables submitted in the SimpleIngest request
submittedRows	Number of rows submitted in the SimpleIngest request for all tables

Given that a v2 API request is made asynchronously, if the user wants to check the status of the bundle ingestion, they will need to make an additional request to the following API, passing in the desired Bundle Id: /v1/bundles/3dcce69e-9038-4cea-bb39-fae88d1f6762

Success Response

```
{
    "id": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
    "userId": "MIADMIN",
    "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
    "dataLoaderId": "EquipmentFunctionalLocationLoader",
    "origin": "SimpleIngestion",
    "created": "2024-08-22T23:36:13.241",
    "expires": "2024-09-06T23:36:13.241",
    "status": "Completed",
    "description": "Link Functional Locations to Equipment",
    "fileName": "Link Functional Locations to
Equipment_3dcce69e-9038-4cea-bb39-fae88d1f6762.zip",
    "recipe": {
        "deriveDependencies": false,
        "maxParallelSlices": 10,
        "batchMode": false,
        "synchronizeData": false,
        "sheetRecipes": [
            {
                "worksheet": "FuncLocsToEquipment.csv",
                "loadWorksheet": true,
                "gedaFacing": false,
                "familyType": "RELATIONSHIP",
                "loadOrder": 0,
```

```
                    "deleteOrphans": false,
                    "loadRecordsInParallel": false,
                    "allowChangeOfFamily": false,
                    "batchSize": 100,
                    "insertOnNull": true,
                    "replaceExistingLink": true,
                    "updateOnNull": false,
                    "primaryPlan": {
                        "genealogy": "Primary",
                        "action": "ACTION_INSERTUPDATE",
                        "shouldExist": false,
                        "id": "MIR_FLHSEQ",
                        "keyFieldIds": [],
                        "familyType": "RELATIONSHIP",
                        "gedaTypeNameSetByFramework": false,
                        "gedaFacing": false,
                        "familyIsDerived": false,
                        "familyDerivedColumnId": ""
                    },
                    "primaryFamily": {
                        "genealogy": "Primary",
                        "id": "MIR_FLHSEQ",
                        "familyType": "RELATIONSHIP",
                        "gedaFacing": false,
                        "keyFieldIds": [],
                        "keyFields": [],
                        "fields": [],
                        "familyKey": "64251800815",
                        "gedaTypeNameSetByFramework": false,
                        "familyIsDerived": false,
                        "familyDerivedColumnId": "",
                        "keyFieldHeaders": []
                    },
                    "predecessorPlan": {
                        "genealogy": "Predecessor",
                        "action": "ACTION_INSERTUPDATE",
                        "shouldExist": false,
                        "id": "MI_FNCLOC00",
                        "keyFieldIds": [
                            "MI_FNCLOC00_INTERNAL_ID_C",
                            "MI_FNCLOC00_SAP_SYSTEM_C"
                        ],
                        "familyType": "ENTITY",
                        "gedaTypeNameSetByFramework": false,
                        "gedaFacing": false,
                        "familyIsDerived": false,
                        "familyDerivedColumnId": ""
                    },
                    "predecessorFamily": {
                        "genealogy": "Predecessor",
                        "id": "MI_FNCLOC00",
                        "familyType": "ENTITY",
                        "gedaFacing": false,
                        "keyFieldIds": [
                            "MI_FNCLOC00_INTERNAL_ID_C",
                            "MI_FNCLOC00_SAP_SYSTEM_C"
                        ],
                        "keyFields": [
                            {
                                "header": "MI_FNCLOC00|
MI_FNCLOC00_INTERNAL_ID_C",
```

```
                                "fieldId": "MI_FNCLOC00_INTERNAL_ID_C",
                                "label": "Functional Location Internal ID",
                                "metaSqlFieldId": "E.
[MI_FNCLOC00_INTERNAL_ID_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                        },
                        {
                                "header": "MI_FNCLOC00|
MI_FNCLOC00_SAP_SYSTEM_C",
                                "fieldId": "MI_FNCLOC00_SAP_SYSTEM_C",
                                "label": "CMMS System",
                                "metaSqlFieldId": "E.
[MI_FNCLOC00_SAP_SYSTEM_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                        }
                ],
                "fields": [
                        {
                                "header": "MI_FNCLOC00|
MI_FNCLOC00_INTERNAL_ID_C",
                                "fieldId": "MI_FNCLOC00_INTERNAL_ID_C",
                                "label": "Functional Location Internal ID",
                                "metaSqlFieldId": "E.
[MI_FNCLOC00_INTERNAL_ID_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
```

```
                                },
                                {
                                    "header": "MI_FNCLOC00|
MI_FNCLOC00_FNC_LOC_C",
                                    "fieldId": "MI_FNCLOC00_FNC_LOC_C",
                                    "label": "Functional Location",
                                    "metaSqlFieldId": "E.
[MI_FNCLOC00_FNC_LOC_C]",
                                    "gedaAttributeName": "",
                                    "metaSqlParameterType": "s",
                                    "unitOfMeasureFieldId": "",
                                    "timeZoneFieldId": "",
                                    "fieldType": "String",
                                    "isKey": false,
                                    "determinesUnitOfMeasure": false,
                                    "determinesTimezone": false,
                                    "isSystemField": false,
                                    "mandatory": false,
                                    "multiValue": false,
                                    "readOnly": false,
                                    "dynamic": false
                                },
                                {
                                    "header": "MI_FNCLOC00|
MI_FNCLOC00_SAP_SYSTEM_C",
                                    "fieldId": "MI_FNCLOC00_SAP_SYSTEM_C",
                                    "label": "CMMS System",
                                    "metaSqlFieldId": "E.
[MI_FNCLOC00_SAP_SYSTEM_C]",
                                    "gedaAttributeName": "",
                                    "metaSqlParameterType": "s",
                                    "unitOfMeasureFieldId": "",
                                    "timeZoneFieldId": "",
                                    "fieldType": "String",
                                    "isKey": true,
                                    "determinesUnitOfMeasure": false,
                                    "determinesTimezone": false,
                                    "isSystemField": false,
                                    "mandatory": false,
                                    "multiValue": false,
                                    "readOnly": false,
                                    "dynamic": false
                                },
                                {
                                    "header": "MI_FNCLOC00|
MI_FNCLOC00_UNIQUE_ID_C",
                                    "fieldId": "MI_FNCLOC00_UNIQUE_ID_C",
                                    "label": "Unique ID",
                                    "metaSqlFieldId": "E.
[MI_FNCLOC00_UNIQUE_ID_C]",
                                    "gedaAttributeName": "",
                                    "metaSqlParameterType": "s",
                                    "unitOfMeasureFieldId": "",
                                    "timeZoneFieldId": "",
                                    "fieldType": "String",
                                    "isKey": false,
                                    "determinesUnitOfMeasure": false,
                                    "determinesTimezone": false,
                                    "isSystemField": false,
                                    "mandatory": false,
                                    "multiValue": false,
```

```
                            "readOnly": false,
                            "dynamic": false
                        }
                    ],
                    "familyKey": "64251789393",
                    "gedaTypeNameSetByFramework": false,
                    "familyIsDerived": false,
                    "familyDerivedColumnId": "",
                    "keyFieldHeaders": [
                        "MI_FNCLOC00|MI_FNCLOC00_INTERNAL_ID_C",
                        "MI_FNCLOC00|MI_FNCLOC00_SAP_SYSTEM_C"
                    ]
                },
                "successorPlan": {
                    "genealogy": "Successor",
                    "action": "ACTION_INSERTUPDATE",
                    "shouldExist": false,
                    "id": "MI_EQUIP000",
                    "keyFieldIds": [
                        "MI_EQUIP000_EQUIP_ID_C",
                        "MI_EQUIP000_SAP_SYSTEM_C"
                    ],
                    "familyType": "ENTITY",
                    "gedaTypeNameSetByFramework": false,
                    "gedaFacing": false,
                    "familyIsDerived": false,
                    "familyDerivedColumnId": ""
                },
                "successorFamily": {
                    "genealogy": "Successor",
                    "id": "MI_EQUIP000",
                    "familyType": "ENTITY",
                    "gedaFacing": false,
                    "keyFieldIds": [
                        "MI_EQUIP000_EQUIP_ID_C",
                        "MI_EQUIP000_SAP_SYSTEM_C"
                    ],
                    "keyFields": [
                        {
                            "header": "MI_EQUIP000|
MI_EQUIP000_EQUIP_ID_C",
                            "fieldId": "MI_EQUIP000_EQUIP_ID_C",
                            "label": "Equipment ID",
                            "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_ID_C]",
                            "gedaAttributeName": "",
                            "metaSqlParameterType": "s",
                            "unitOfMeasureFieldId": "",
                            "timeZoneFieldId": "",
                            "fieldType": "String",
                            "isKey": true,
                            "determinesUnitOfMeasure": false,
                            "determinesTimezone": false,
                            "isSystemField": false,
                            "mandatory": false,
                            "multiValue": false,
                            "readOnly": false,
                            "dynamic": false
                        },
                        {
                            "header": "MI_EQUIP000|
```

```
MI_EQUIP000_SAP_SYSTEM_C",
                                "fieldId": "MI_EQUIP000_SAP_SYSTEM_C",
                                "label": "CMMS System",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_SAP_SYSTEM_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                        }
                ],
                "fields": [
                        {
                                "header": "MI_EQUIP000|
MI_EQUIP000_EQUIP_ID_C",
                                "fieldId": "MI_EQUIP000_EQUIP_ID_C",
                                "label": "Equipment ID",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_EQUIP_ID_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                        },
                        {
                                "header": "MI_EQUIP000|
MI_EQUIP000_SAP_SYSTEM_C",
                                "fieldId": "MI_EQUIP000_SAP_SYSTEM_C",
                                "label": "CMMS System",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_SAP_SYSTEM_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": true,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
```

```
                                "dynamic": false
                            },
                            {
                                "header": "MI_EQUIP000|
MI_EQUIP000_UNIQUE_ID_C",
                                "fieldId": "MI_EQUIP000_UNIQUE_ID_C",
                                "label": "Unique ID",
                                "metaSqlFieldId": "E.
[MI_EQUIP000_UNIQUE_ID_C]",
                                "gedaAttributeName": "",
                                "metaSqlParameterType": "s",
                                "unitOfMeasureFieldId": "",
                                "timeZoneFieldId": "",
                                "fieldType": "String",
                                "isKey": false,
                                "determinesUnitOfMeasure": false,
                                "determinesTimezone": false,
                                "isSystemField": false,
                                "mandatory": false,
                                "multiValue": false,
                                "readOnly": false,
                                "dynamic": false
                            }
                        ],
                        "familyKey": "64251784124",
                        "gedaTypeNameSetByFramework": false,
                        "familyIsDerived": false,
                        "familyDerivedColumnId": "",
                        "keyFieldHeaders": [
                            "MI_EQUIP000|MI_EQUIP000_EQUIP_ID_C",
                            "MI_EQUIP000|MI_EQUIP000_SAP_SYSTEM_C"
                        ]
                    },
                    "numberOfRowsToChunk": 0,
                    "rowsAreChunked": false
                }
            ],
            "rejectedRows": [],
            "warningRows": [],
            "ingestionConfiguration": {
                "familyFieldsToExclude": [],
                "gedaFieldsToExclude": []
            }
        },
        "sliceCount": 1,
        "latestTimeStamp": "2024-08-22T23:36:21.229",
        "insertedRowCount": 2,
        "updatedRowCount": 0,
        "deletedRowCount": 0,
        "rejectedRowCount": 0,
        "events": [
            {
                "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
                "activity": "Transmit",
                "status": "Started",
                "timeStamp": "2024-08-22T23:36:15.285",
                "progressPercentage": 100.0
            },
            {
                "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
                "activity": "Transmit",
```

```json
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:16.064",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Normalize",
            "status": "Started",
            "timeStamp": "2024-08-22T23:36:16.744",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Normalize",
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:17.485",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Compile",
            "status": "Started",
            "timeStamp": "2024-08-22T23:36:17.510",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Compile",
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:18.417",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Slice",
            "status": "Started",
            "timeStamp": "2024-08-22T23:36:18.481",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Slice",
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:19.485",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Ingest",
            "status": "Started",
            "timeStamp": "2024-08-22T23:36:19.509",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Ingest",
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:21.957",
            "progressPercentage": 100.0
        },
        {
```

```
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Synchronize",
            "status": "Started",
            "timeStamp": "2024-08-22T23:36:21.980",
            "progressPercentage": 100.0
        },
        {
            "bundleId": "3dcce69e-9038-4cea-bb39-fae88d1f6762",
            "activity": "Synchronize",
            "status": "Completed",
            "timeStamp": "2024-08-22T23:36:22.763",
            "progressPercentage": 100.0
        }
    ],
    "skipSynchronization": false,
    "manualRun": false,
    "progressPercentage": 100
}
```

Create/Update an ACA Matrix

POST

Creates or updates a relationship.

Consumes

This API v2 call consumes the `application/json` media types via the Content-Type request header.

Request Syntax

```
POST /v2/simpleIngest
```

Request Body

```
JSON
```

Request Example

```
{
  "Description": "Create or update ACA Matrices",
  "DataLoaderId": "ACAMatrixDataLoader",
  "Origin": "SimpleIngestion",
  "DaysToLive": 15,
  "Tables": [
    {
      "Name": "Analysis",
      "Table": [
        {
          "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
          "MI_SITE_NAME": "*Global*",
          "MI_ASCRTSYS_SYSTEM_DESCR_T": "ACA Analysis Desc"
        },
        {
```

```
            "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
            "MI_SITE_NAME": "*Global*",
            "MI_ASCRTSYS_SYSTEM_DESCR_T": "ACA Analysis Desc"
          }
        ]
      },
      {
        "Name": "Asset",
        "Table": [
          {
            "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
            "ASSET_ID": "000000000001060839",
            "ASSET_FIELD_ID": "MI_EQUIP000_EQUIP_ID_C",
            "ASSET_FAMILY": "MI_EQUIP000",
            "ENVIRONMENT|MI_CONSE_N": "1",
            "ENVIRONMENT|MI_PROB_N": "0.1",
            "ENVIRONMENT|MI_PROT_N": "",
            "ENVIRONMENT-RISK_RANK": "",
            "FINANCIAL|MI_CONSE_N": "",
            "FINANCIAL|MI_RISK_MAIN_COST_N": "",
            "FINANCIAL|MI_PROB_N": "1",
            "FINANCIAL|MI_RISK_PROD_LOSS_N": "",
            "FINANCIAL|MI_PROT_N": "",
            "FINANCIAL-RISK_RANK": "",
            "OPERATIONS|MI_CONSE_N": "100",
            "OPERATIONS|MI_PROB_N": "0.1",
            "OPERATIONS|MI_PROT_N": "",
            "OPERATIONS-RISK_RANK": "",
            "SAFETY|MI_CONSE_N": "100",
            "SAFETY|MI_PROB_N": "0.3",
            "SAFETY|MI_PROT_N": "",
            "SAFETY-RISK_RANK": "",
            "MI_RISKASSE_BASIS_T": ""
          },
          {
            "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
            "ASSET_ID": "MRD-DUB-MANU",
            "ASSET_FIELD_ID": "MI_FNCLOC00_FNC_LOC_C",
            "ASSET_FAMILY": "MI_FNCLOC00",
            "ENVIRONMENT|MI_CONSE_N": "1",
            "ENVIRONMENT|MI_PROB_N": "0.1",
            "ENVIRONMENT|MI_PROT_N": "",
            "ENVIRONMENT-RISK_RANK": "",
            "FINANCIAL|MI_CONSE_N": "",
            "FINANCIAL|MI_RISK_MAIN_COST_N": "",
            "FINANCIAL|MI_PROB_N": "1",
            "FINANCIAL|MI_RISK_PROD_LOSS_N": "",
            "FINANCIAL|MI_PROT_N": "",
            "FINANCIAL-RISK_RANK": "",
            "OPERATIONS|MI_CONSE_N": "100",
            "OPERATIONS|MI_PROB_N": "0.1",
            "OPERATIONS|MI_PROT_N": "",
            "OPERATIONS-RISK_RANK": "",
            "SAFETY|MI_CONSE_N": "100",
            "SAFETY|MI_PROB_N": "0.3",
            "SAFETY|MI_PROT_N": "",
            "SAFETY-RISK_RANK": "",
            "MI_RISKASSE_BASIS_T": ""
          },
          {
            "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
```

```
            "ASSET_ID": "MRD-HOU-CHEM",
            "ASSET_FIELD_ID": "MI_FNCLOC00_FNC_LOC_C",
            "ASSET_FAMILY": "MI_FNCLOC00",
            "ENVIRONMENT|MI_CONSE_N": "1",
            "ENVIRONMENT|MI_PROB_N": "0.1",
            "ENVIRONMENT|MI_PROT_N": "",
            "ENVIRONMENT-RISK_RANK": "",
            "FINANCIAL|MI_CONSE_N": "",
            "FINANCIAL|MI_RISK_MAIN_COST_N": "",
            "FINANCIAL|MI_PROB_N": "1",
            "FINANCIAL|MI_RISK_PROD_LOSS_N": "",
            "FINANCIAL|MI_PROT_N": "",
            "FINANCIAL-RISK_RANK": "",
            "OPERATIONS|MI_CONSE_N": "100",
            "OPERATIONS|MI_PROB_N": "0.1",
            "OPERATIONS|MI_PROT_N": "",
            "OPERATIONS-RISK_RANK": "",
            "SAFETY|MI_CONSE_N": "100",
            "SAFETY|MI_PROB_N": "0.3",
            "SAFETY|MI_PROT_N": "",
            "SAFETY-RISK_RANK": "",
            "MI_RISKASSE_BASIS_T": ""
        },
        {
            "MI_ASCRTSYS_SYSTEM_ID_C": "Analysis Test Record",
            "ASSET_ID": "000000000001062170",
            "ASSET_FIELD_ID": "MI_EQUIP000_EQUIP_ID_C",
            "ASSET_FAMILY": "MI_EQUIP000",
            "ENVIRONMENT|MI_CONSE_N": "1",
            "ENVIRONMENT|MI_PROB_N": "0.1",
            "ENVIRONMENT|MI_PROT_N": "",
            "ENVIRONMENT-RISK_RANK": "",
            "FINANCIAL|MI_CONSE_N": "",
            "FINANCIAL|MI_RISK_MAIN_COST_N": "",
            "FINANCIAL|MI_PROB_N": "1",
            "FINANCIAL|MI_RISK_PROD_LOSS_N": "",
            "FINANCIAL|MI_PROT_N": "",
            "FINANCIAL-RISK_RANK": "",
            "OPERATIONS|MI_CONSE_N": "100",
            "OPERATIONS|MI_PROB_N": "0.1",
            "OPERATIONS|MI_PROT_N": "",
            "OPERATIONS-RISK_RANK": "",
            "SAFETY|MI_CONSE_N": "100",
            "SAFETY|MI_PROB_N": "0.3",
            "SAFETY|MI_PROT_N": "",
            "SAFETY-RISK_RANK": "",
            "MI_RISKASSE_BASIS_T": ""
        }
    ]
    }
    ]
}
```

Return Type

```
200 OK
```

Produces

This API call produces the `application/json` media type according to the Accept request header. The media type will be conveyed by the `Content-Type` response header.

Success Response

```
{
    "bundle": {
        "id": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
        "userId": "MIADMIN",
        "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
        "dataLoaderId": "ACAMatrixDataLoader",
        "origin": "SimpleIngestion",
        "created": "2024-08-22T20:30:10.130",
        "expires": "2024-09-06T20:30:10.130",
        "status": "Initial",
        "description": "Sample SimpleIngest request body for
ACAMatrixDataLoader",
        "skipSynchronization": false,
        "manualRun": false
    },
    "submittedTables": 2,
    "submittedRows": 6
}
```

Table 5: Explanation of the response properties

Property	Description
id	Bundle Id which is represented by a GUID
userId	User that ingested the data
datasourceId	Datasource or Tenant where the data is ingested
dataLoaderId	Data Loader used to ingest the data
origin	SimpleIngestion
created	DateTime of when the Bundle was created
expires	DateTime of when the Bundle will be removed from the database
status	(Started, Failed, Completed, CompletedWithRejects, CompletedWithWarnings)
description	Description provided by the user
skipSynchronization	This flag indicates if the Synchronization activity should be skipped. This step should not be skipped as it could cause data integrity issues.
manualRun	Is this data being loaded manually? True or False
submittedTables	Number of tables submitted in the SimpleIngest request
submittedRows	Number of rows submitted in the SimpleIngest request for all tables

Given that a v2 API request is made asynchronously, if the user wants to check the status of the bundle ingestion, they will need to make an additional request to the following API, passing in the desired Bundle Id: /v1/bundles/064a1e8e-7be0-49ca-a5f0-e271de38a6f9

Success Response

```json
{
    "id": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
    "userId": "MIADMIN",
    "datasourceId": "20988021-dd02-4aae-9b5d-8b5ce111cf52",
    "dataLoaderId": "ACAMatrixDataLoader",
    "origin": "SimpleIngestion",
    "created": "2024-08-23T00:30:10.130",
    "expires": "2024-09-07T00:30:10.130",
    "status": "Failed",
    "description": "Sample SimpleIngest request body for
ACAMatrixDataLoader",
    "fileName": "Sample SimpleIngest request body for
ACAMatrixDataLoader_064a1e8e-7be0-49ca-a5f0-e271de38a6f9.zip",
    "recipe": {
        "deriveDependencies": false,
        "maxParallelSlices": 5,
        "batchMode": true,
        "keyEntitySheet": "Analysis",
        "synchronizeData": false,
        "sheetRecipes": [
            {
                "worksheet": "Analysis.csv",
                "loadWorksheet": true,
                "gedaFacing": false,
                "familyType": "ENTITY",
                "loadOrder": 0,
                "deleteOrphans": false,
                "loadRecordsInParallel": false,
                "allowChangeOfFamily": false,
                "batchSize": 100,
                "insertOnNull": true,
                "replaceExistingLink": true,
                "updateOnNull": false,
                "numberOfRowsToChunk": -1,
                "rowsAreChunked": false
            },
            {
                "worksheet": "System.csv",
                "loadWorksheet": true,
                "gedaFacing": false,
                "familyType": "ENTITY",
                "loadOrder": 1,
                "deleteOrphans": false,
                "loadRecordsInParallel": false,
                "allowChangeOfFamily": false,
                "batchSize": 100,
                "insertOnNull": true,
                "replaceExistingLink": true,
                "updateOnNull": false,
                "numberOfRowsToChunk": -1,
                "rowsAreChunked": false
            },
            {
                "worksheet": "Asset.csv",
```

```
                    "loadWorksheet": true,
                    "gedaFacing": false,
                    "familyType": "ENTITY",
                    "loadOrder": 2,
                    "deleteOrphans": false,
                    "loadRecordsInParallel": false,
                    "allowChangeOfFamily": false,
                    "batchSize": 100,
                    "insertOnNull": true,
                    "replaceExistingLink": true,
                    "updateOnNull": false,
                    "numberOfRowsToChunk": -1,
                    "rowsAreChunked": false
                }
            ],
            "rejectedRows": [],
            "warningRows": [],
            "ingestionConfiguration": {
                "familyFieldsToExclude": [],
                "gedaFieldsToExclude": []
            }
        },
        "sliceCount": 1,
        "insertedRowCount": 0,
        "updatedRowCount": 0,
        "deletedRowCount": 0,
        "rejectedRowCount": 0,
        "events": [
            {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Transmit",
                "status": "Started",
                "timeStamp": "2024-08-23T00:30:11.516",
                "progressPercentage": 100.0
            },
            {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Normalize",
                "status": "Started",
                "timeStamp": "2024-08-23T00:30:12.482",
                "progressPercentage": 100.0
            },
            {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Transmit",
                "status": "Completed",
                "timeStamp": "2024-08-23T00:30:12.845",
                "progressPercentage": 100.0
            },
            {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Normalize",
                "status": "Completed",
                "timeStamp": "2024-08-23T00:30:13.106",
                "progressPercentage": 100.0
            },
            {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Compile",
                "status": "Started",
                "timeStamp": "2024-08-23T00:30:13.129",
```

```
                "progressPercentage": 100.0
        },
        {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Compile",
                "status": "Completed",
                "timeStamp": "2024-08-23T00:30:14.807",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Slice",
                "status": "Started",
                "timeStamp": "2024-08-23T00:30:14.829",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Slice",
                "status": "Completed",
                "timeStamp": "2024-08-23T00:30:15.793",
                "progressPercentage": 100.0
        },
        {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Ingest",
                "status": "Started",
                "timeStamp": "2024-08-23T00:30:15.813",
                "progressPercentage": 1.0
        },
        {
                "bundleId": "064a1e8e-7be0-49ca-a5f0-e271de38a6f9",
                "activity": "Ingest",
                "status": "Failed",
                "timeStamp": "2024-08-23T00:30:17.320",
                "message": "Unable to import Analysis Test Record as
changing site of analysis isn't allowed.",
                "progressPercentage": 100.0
        }
    ],
    "skipSynchronization": false,
    "manualRun": false,
    "progressPercentage": 1
}
```

Chapter
7

Reference

Topics:

- [Limitations](#)
- [Customer Support](#)

Limitations

Limitations

The response to an v1 API request is synchronous, and thus it only supports the loading of a few records (~50 records) per request. Consideration should also be taken for size of the content.

The response to an v2 API is asynchronous, and thus it is limited by the size of the request.

Customer Support

Customer Support

Contact APM Support Team: https://digitalsupport.ge.com/.