Parametric Export API

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Actions

/.j-box-actions

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UI-Extensions (if any) [DocumentBodyStart:5f496757-2d50-4fed-afa7-eac26decbb9d]

The Parametric Export endpoint allows you to submit a task to generate a CSV file containing parametric data, similar to the PFA exports in PDCA. A secondary endpoint exists to check the status of the task.

URLS

**Development** » [https://mop-dev.corp.apple.com](https://mop-dev.corp.apple.com/)

**PROD** » [https://manufacturing.apple.com](https://manufacturing.apple.com/) **(NEW)**

Submit Task (Post)

{base\_url}/integrationservices.api/v1/submit-parametric-export

Get task status (GET)

{base\_url}/integrationservices.api/v1/task/{task-id}

Notes

09/08

For testing, please use all keys, even if submitted as empty. We are experiencing a few issues where if a key is not listed in the payload, it will error out after being accepted as a task.

Known Issues

1. Downloading files
   * ~~We are currently experiencing issues with being able to download files. We are actively working on this.~~ **~~(8/29)~~**
   * UAT currently has limited resources, and we have experienced issues with downloading larger files and processing all jobs. Hardware resources will be added beginning of October to help alleviate. **(9/8)**
2. OverlayVersion issues
   * ~~If overlayVersion is currently omitted, the job will fail. We will correct this next week.~~ **~~(9/8)~~**
   * For current usage, provide all keys, even if the value is empty [], as we have experienced issues in the backend processing with missing keys as well as in the UI.
3. No Data Found
   * ~~If a task is submitted that does not generated any results, it is currently failing with status 8. After next week, a file will be generated stating no data was found.~~ **~~(9/8)~~**
   * This has been deployed, but needs validating. **(9/20)**

Pending Enhancements

1. **NEW REQ** If "requestedColumns" is [], set as default to ""siteName", "productCode", "serialNumber", "specialBuildName", "specialBuildDescription", "unitNumber", "stationId", "testResult", "startTestTime", "endTestTime", "overlayVersion".  **-- Deployed to DEV**
2. **NEW REQ** If "firstSeenTimestamp", "relEvent", "preBurnLine", or "headFixtureId" is missing from "requestedColumns" but it is marked "true" in the rest of the payload, append them to the "requestColumns" list if True **-- Deployed to DEV**
3. **NEW REQ** If "samplePercent" is missing or empty, add "100". **-- Deployed to DEV**
4. **NEW REQ** Add default values for fields if empty or missing: "testCategory" : "All" ; "passFailCategory" : "ALL" ; "exportType" : "OPP" ; "nullIncluded" : "Y" ; "frequency" : "now" ; "firstSeenTimestamp" : false ; "relEvent" : false ; "preBurnLine" : false ; "headFixtureId" : false **-- Deployed to DEV**
5. **NEW REQ** If "dataCategory" is empty, default to "pdata". If "modules" and/or "attributes" have values, add the respective data type to "dataCategory" if it is missing. **-- Deployed to DEV**
6. **NEW REQ** Accept startTime and endTime from payload as "YYYY-MM-DD HH24:MI:SS" format, convert to the necessary format in the export service. **-- no change needed.**
7. **NEW REQ** Have API service remove columns that are not allowed in "requestedColumns" field.

Request Header

Content-Type:application/json

mop\_session\_id: XXXXXXX

Request Payload

For the request, there are three types of methods to pull data. One methodology needs to be used, or an error will be generated

1. Export data by serial number only (*serialNumber* is required)
2. Export data by serial number and time range (*serialNumber, startTime,* and *endTime* are required)
3. Export data only by time range (*startTime, endTime, productCode* are required)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Require Value** | **Example** | **Details** |
| siteName  [String] | Y | ["FXLH","FXGL"] | Sites from which to collect data. |
| productCode  [String] | Y/N | ["D11"] | List of product codes to collect data. |
| lineName  [String] | N |  | Apple's line name designation. |
| stationType  [String] | N | ["QT0"] | List of all station types that will be collected. This is an aggregate list of all stationTypes listed in the objects in the parametricType. |
| stationId  [String] | N |  | Station ID. |
| serialNumber  [String] | N |  | List of serial numbers. |
| modules  [String] | N |  | List of module types to include in the export. Modules included will be those used at time of test. |
| parametricType  [Object] | Y | {    "stationType":"IQC-DISPLAY",    "overlayVersion": ["44.5.IQC\_MP\_v1.7.28.2016\_MP8\_plist\_DVTv2\_1.0"] ,    "limitsVersion":[],    "keys": ["1x1\_Checker BLSH dimBlob\_max\_cen\_posX", "1x1\_Checker BLSH dimBlob\_max\_cen\_posY", "1x1\_Checker BLSH dimBlob\_max\_cor"],  "selectAll" : true  } | List of parametricType objects. Can include multiple objects in list to generate multiple files. Each object should only have one stationType. |
| attributes  [String] | N |  | List of attributes to include in the export. Attributes included will be those used at time of test. |
| dataCategory  [String] | Y | ["pdata"] | pdata, module, attribute |
| requestedColumns  [String] | Y | [ "siteName" ,"productCode", "serialNumber", "specialBuildName", "specialBuildDescription", "unitNumber", "stationId","testResult" ,"startTestTime", "endTestTime", "overlayVersion" ] | Columns to include in the export. The fields listed on the left are the only valid input for this section. If you want to pull attributes and/or modules, add those to the respective key/field area and they will automatically be generated as columns in the report. These requested Columns fields are the operational default columns exported other than the parametric key columns.  Mandatory Columns : **"siteName" ,"productCode", "serialNumber", "specialBuildName", "specialBuildDescription", "unitNumber", "stationId","testResult" ,"startTestTime", "endTestTime", "overlayVersion"**  Other available Columns : **"listOfFailingTests", "firstSeenTimestamp", "relEvent", "preBurnLine"** |
| testCategory  [String] | Y | ["All"] | Possible values: "First Test", "Last Test", "All" |
| passFailCategory  [String] | Y | ["All"] | Values: "Pass", "Fail", "All" |
| nullIncluded  String | Y | "Y" | Indicates where or not to keep null records. |
| samplePercent  String | Y | "100" | If sampling of data is required, then can provide a number to indicate percentage. For example, if 10% of data is needed, then the value to include is "10". |
| startTime  String | Y/N | "2017-08-18 00:00:00" | Inclusive time filter. |
| endTime  String | Y/N | "2017-08-18 23:59:59" | Inclusive time filter. |
| firstSeenTimestamp  Boolean | N | false | Include the timestamp from the first record associated with the unit. |
| headFixtureId  Boolean | N | false | Include the testheadId and fixtureId in the export. |
| preBurnLine  Boolean | N | false | Include the PreBurn line associated with the unit. |
| relEvent  Boolean | N | false | Include the most recent REL stress test seen prior to this test. If no REL stress occurred, then value is "NOREL\_RP" |
| auditOnly  Boolean | N | false | Include only the Audit data for the station types. |

Request Validation: (400 Bad Request)

|  |  |  |
| --- | --- | --- |
|  | **Validation** | **Response** |
| 1. | List of Serial Numbers / (At least 1 SiteName, 1 ProductCode and Date Range (31 Days) ) | "statusMessage": "(one siteName , one product and date range) or list of SerialNumbers is required in the request.", |
| 2. | startTime < endTime | "statusMessage": "StartTime should be before EndTime in the Request.", |
| 3. | modules[] should not be Empty or null if dataCategory list contain 'module' | "statusMessage": "modules[] should not be empty if dataCategory contains 'module' in the Request.", |
| 4. | attributes[] should not be Empty or null if dataCategory list contain 'attribute' | "statusMessage": "attributes[] should not be empty if dataCategory contains 'attribute' in the Request.", |
| 5. | requestedColumns is required | "statusMessage": "requestedColumns should not be empty in the Request.", |
| 6. | Mandatory fields in requestedColumns | "statusMessage": "Mandatory fields :" + List of Manadatory fields missing + " in requestedColumns is missing.", |
| 7. | Invalid fields in requestedColumns | "statusMessage": List of invalid values from request + "invalid values in requestedColumns.", |
| 8. | Serial Number Limit 5K | "statusMessage": "Number of SerialNumbers in the request should not exceed 5000.", |

Request Payload Example

[CodeBlockStart:e6cb468e-aef3-45a4-9dd5-7ae5096f305e][excluded]

1. {
2. "siteName":["FXBZ"]
3. ,"stationType":["RAT"]
4. ,"parametricType":[
5. {
6. "stationType":"RAT"
7. ,"overlayVersion":["1A2591\_L2"]
8. ,"keys":["CB Error AmIOK fatal error"]
9. }
10. ]
11. ,"attributes":[]
12. ,"modules":[]
13. ,"dataCategory":["pdata","module","attribute"]
14. ,"requestedColumns":[
15. "siteName","productCode","serialNumber","specialBuildName","specialBuildDescription","unitNumber","stationId","testResult","startTestTime","endTestTime","overlayVersion"
16. ]
17. ,"testCategory":["All"]
18. ,"passFailCategory":["All"]
19. ,"nullIncluded":"N"
20. ,"samplePercent":"70"
21. ,"startTime":"2017-06-01 11:00:00-07:00"
22. ,"endTime":"2017-06-30 11:00:00-07:00"
23. ,"frequency":"now"
24. ,"exportType":"OPP"
25. }

[CodeBlockEnd:e6cb468e-aef3-45a4-9dd5-7ae5096f305e]

Response

[CodeBlockStart:cf8f862c-21a7-4ac7-9205-7ca11eedebee][excluded]

1. {
2. "status": true
3. , "statusCode": "200"
4. , "errorCode": null
5. , "statusCodeShortDesc": null
6. , "statusMessage": "Task Submitted Successfully."
7. , "redirectionLink": null
8. , "exportResponse": {"taskId": 79}
9. }

[CodeBlockEnd:cf8f862c-21a7-4ac7-9205-7ca11eedebee]

Export Status Messages

|  |  |  |
| --- | --- | --- |
| **Status** | **Number** | **Description** |
| Queued | 1 | Task has been received and queued. |
| Submitted | 2 | Task has been submitted for processing. |
| Submission\_Error | 3 | Task had an error, likely from invalid input. |
| InProgress | 4 | Export(s) are being generated |
| Complete | 5 | Export(s) have been generated successfully. |
| Failed | 6 | Task failed. |
| Ready | 7 | Export(s) are ready to download. |
| Error\_Notified | 8 | Task had an error, and notification has been sent. |
| Download\_Complete | 9 | Export(s) have been downloaded. |
| TimeOut | 10 | Task timed out. |
| Monitor\_Error | 11 | Error occurred while monitoring the task status. |
| Deleted | 12 | Task deleted. |
| Completed\_With\_Error | 13 | Task completed with Error. |
| Submitted\_to\_Spark | 21 | Task is now submitted for Spark. |

Export Status Response

[CodeBlockStart:00645385-017f-47f3-9078-08a9d0887029][excluded]



[CodeBlockEnd:00645385-017f-47f3-9078-08a9d0887029][CodeBlockStart:21e599c4-26cb-4235-a2c6-e0fc6fa8dbee][excluded]

1. {
2. "status": true,
3. "statusCode": "200",
4. "errorCode": null,
5. "statusCodeShortDesc": null,
6. "statusMessage": "Task Status",
7. "redirectionLink": null,
8. "exportResponse": {
9. "taskStatus": 11
10. }
11. }

[CodeBlockEnd:21e599c4-26cb-4235-a2c6-e0fc6fa8dbee]

Download Files

The URL will be the Insight vanity URL for the environment in which you are working. (e.g. mop-dev.corp.apple.com, et al.). Each link will point to one url, so if multiple files were generated, then you will need to download all of them separately.

URL Format:      https://mop-dev.corp.apple.com/export/service/v1/download/**{TASKID}**/stationType/**{STATION\_TYPE}**

Example:           https://mop-dev.corp.apple.com/export/service/v1/download/42/stationType/DISPLAY

Example download process.

[CodeBlockStart:66860c34-8539-408e-b119-f3db9f26a582][excluded]

1. curl -X GET \
2. https://mop-dev.corp.apple.com/export/service/v1/download/42/stationType/DISPLAY \
3. -H 'cache-control: no-cache' \
4. -H 'content-type: application/json' \

  -H 'mop\_session\_id: XXXXXXX'  -o data.gz