

MET/CONNECT API Endpoints

Date: 12/03/2019

Asset Endpoints		Parameters			Response		Potential Errors	
Name (URL)	Description	Name	Type	Description	Type	Description	Error Code	Description
api/v1/asset/resultsbyworkorder	Gets a list of results for a specific work order and asset id	assetId	string	Asset id (barcode)	string	Json text representing a list of result summaries	E100	One or more required parameters is missing
		workOrder	string	Work Order number			E101	Authentication token invalid
		authToken	string	Authentication token			E120	No matching results found

Example Request: <http://metconnect.server/api/v1/asset/resultsbyworkorder/Fluke77-A12322/WO776545B/C1B7DBFA-5909-4D3B-923A-0A4EF4E147EC>

Example Response:

```
{
  "status": "ok",
  "code": "",
  "message": "",
  "data": [
    {
      "Id": "03c8c832-e9b7-4960-9680-9ceea823f38a",
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke77-A12322",
      "WorkOrderKey": "8e8caefc-fccc-4883-aa0e-87380d500309",
      "WorkOrder": "WO776545B",
      "TimeStamp": "2019-12-03T19:52:06",
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "be1f6d5e-beb3-4cf8-a842-07eb25edae63",
      "ProcedureName": "Fluke 77 User Group Demonstration Procedure",
      "PromptData": null
    },
    {
      "Id": "221fa8d6-1054-4566-94a0-4f2c0eb37d24",
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke77-A12322",
      "WorkOrderKey": "8e8caefc-fccc-4883-aa0e-87380d500309",
      "WorkOrder": "WO776545B",
      "TimeStamp": "2019-12-03T20:03:23",
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "9c02df9c-6a9d-4055-9185-27f35041e4a3",
      "ProcedureName": "Z540.3 Report",
      "PromptData": null
    }
  ]
}
```

Notes for all API endpoint responses:

- All TimeStamp values are in UTC time
- If a PromptData value is null, that indicates the pre-prompt and/or pass/fail prompts were not used

Name (URL)	Description	Name	Type	Description	Type	Description	Error Code	Description
api/v1/asset/resultsbyasset	Gets a list of results for a specific asset id	assetId	string	Asset id (barcode)	string	Json text representing a list of result summaries	E100	One or more required parameters is missing
		authToken	string	Authentication token			E101	Authentication token invalid
							E120	No matching results found

Example Request: <http://metconnect.server/api/v1/asset/resultsbyasset/Fluke77-A12322/C1B7DBFA-5909-4D3B-923A-0A4EF4E147EC>

Example Response:

```
{
  "status": "ok",
  "code": "",
  "message": "",
  "data": [
    {
      "Id": "221fa8d6-1054-4566-94a0-4f2c0eb37d24",
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke77-A12322",
      "WorkOrderKey": "8e8caefc-fccc-4883-aa0e-87380d500309",
      "WorkOrder": "WO776545B",
      "TimeStamp": "2019-12-03T20:03:23",
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "9c02df9c-6a9d-4055-9185-27f35041e4a3",
      "ProcedureName": "Z540.3 Report",
      "PromptData": null
    },
    {
      "Id": "8f780a61-e1df-4e5f-a24d-64ad5b1f4392",
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke77-A12322",
      "WorkOrderKey": "8e8caefc-fccc-4883-aa0e-87380d500309",
      "WorkOrder": "WO776545B",
      "TimeStamp": null,
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "be1f6d5e-beb3-4cf8-a842-07eb25edae63",
      "ProcedureName": "Fluke 77 User Group Demonstration Procedure",
      "PromptData": null
    }
  ]
}
```

Name (URL)	Description	Name	Type	Description	Type	Description	Error Code	Description
api/v1/asset/sectionsbyid	Gets a list of result sections by id	id	string	Results id (GUID)	string	Json text representing a list of result sections	E100	One or more required parameters is missing
		authToken	string	Authentication token			E101	Authentication token invalid
							E121	ID not found

Example Request: http://metconnect.server/api/v1/asset/sectionsbyid/8f780a61-e1df-4e5f-a24d-64ad5b1f4392/C1870BFA-5909-4D38-923A-0A4EF4E147EC

Example Response:

```
{
  "status": "ok",
  "code": "",
  "message": "",
  "data": [
    {
      "Id": "8f780a61-e1df-4e5f-a24d-64ad5b1f4392",
      "Ordinal": 27.0,
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke 77-A12322",
      "WorkOrderKey": "8e8caefc-fcc-4883-aa0e-87380d500309",
      "WorkOrder": "WO7765458",
      "TimeStamp": null,
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "be1fd5e-beb3-4cf8-a842-07eb25edae63",
      "ProcedureName": "Fluke 77 User Group Demonstration Procedure",
      "ResultKey": "fb051015-a9b9-4fbd-9202-1ca65f60d5fe",
      "ResultSection": "MET/CAL Results",
      "Status": "Pass"
    },
    {
      "Id": "8f780a61-e1df-4e5f-a24d-64ad5b1f4392",
      "Ordinal": 28.0,
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke 77-A12322",
      "WorkOrderKey": "8e8caefc-fcc-4883-aa0e-87380d500309",
      "WorkOrder": "WO7765458",
      "TimeStamp": "2019-12-03T22:13:42",
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "be1fd5e-beb3-4cf8-a842-07eb25edae63",
      "ProcedureName": "Fluke 77 User Group Demonstration Procedure",
      "ResultKey": "c7c64159-50a8-4225-92a5-c1e92bb57911",
      "ResultSection": "Perform Display Test",
      "Status": "Pass"
    },
    {
      "Id": "8f780a61-e1df-4e5f-a24d-64ad5b1f4392",
      "Ordinal": 29.0,
      "AssetKey": "9ea65182-d611-4c16-8af8-49544bb48f68",
      "DutAssetId": "Fluke 77-A12322",
      "WorkOrderKey": "8e8caefc-fcc-4883-aa0e-87380d500309",
      "WorkOrder": "WO7765458",
      "TimeStamp": "2019-12-03T22:14:10",
      "UserKey": "d7ab8083-77c1-4ecc-a4bd-4b80f3d15b6a",
      "TechnicianName": "Tim Olson",
      "ProcedureKey": "be1fd5e-beb3-4cf8-a842-07eb25edae63",
      "ProcedureName": "Fluke 77 User Group Demonstration Procedure",
      "ResultKey": "48c27d59-ad0b-4543-bb3b-2e8598a82b41",
      "ResultSection": "Perform VAC Verification",
      "Status": "Pass"
    }
  ]
}
```

Name (URL)	Description	Name	Type	Description	Type	Description	Error Code	Description
api/v1/asset/standardsbyid	Gets a list of asset ids for the standards used for a result section	id	string	Result section id (ResultKey) (GUID)	string	Json text representing a list of asset ids	E100	One or more required parameters is missing
		authToken	string	Authentication token			E101	Authentication token invalid
							E121	ID not found

Example Request: http://metconnect.server/api/v1/asset/standardsbyid/48c27d59-ad0b-4543-bb3b-2e8598a82b41/C1870BFA-5909-4D38-923A-0A4EF4E147EC

Example Response:

```
{
  "status": "ok",
  "code": "",
  "message": "",
  "data": [
    {
      "AssetKey": "c9f68fa7-9997-424d-928c-218bfe143249",
      "StandardAssetId": "5520A-12345"
    },
    {
      "AssetKey": "c9f68fa7-9997-424d-928c-218bfe143249",
      "StandardAssetId": "5520A-12345"
    }
  ]
}
```

Point Endpoints		Parameters			Response		Potential Errors	
Name (URL)	Description	Name	Type	Description	Type	Description	Error Code	Description
/api/v1/point/pointsbyid	Gets a list of point data for a result section	id	string	Result section id (ResultKey) (GUID)	string	Json text representing a list of point data	E100	One or more required parameters is missing
		authToken	string	Authentication token			E101	Authentication token invalid
							E121	ID not found

Example Request: <http://metconnect.server/api/v1/point/pointsbyid/48c27d59-ad0b-4543-bb3b-2e8598a82b41/C187D8FA-5909-4D38-923A-0A4EF4E147EC>

Example Response:

```
{
  "status": "ok",
  "code": "",
  "message": "",
  "data": [
    {
      "ResultKey": "48c27d59-ad0b-4543-bb3b-2e8598a82b41",
      "PointKey": "c4a26443-6541-402d-9b16-96630605a68b",
      "Ordinal": 4,
      "Description": null,
      "FSC": "HEAD",
      "Remarks": "AC VOLTAGE TESTS",
      "Status": null,
      "CardinalPoint": "",
      "CardinalPointUnit": "",
      "Dut": "",
      "DutUnit": "",
      "Reference": "",
      "ReferenceUnit": "",
      "Error": "",
      "ErrorUnit": "",
      "TolerancePositive": "",
      "TolerancePositiveUnit": "",
      "ToleranceNegative": "",
      "ToleranceNegativeUnit": "",
      "GuardbandUpperLimit": "",
      "GuardbandUpperLimitUnit": "",
      "GuardbandLowerLimit": "",
      "GuardbandLowerLimitUnit": "",
      "ExpandedUncertainty": "",
      "ExpandedUncertaintyUnit": ""
    },
    {
      "ResultKey": "48c27d59-ad0b-4543-bb3b-2e8598a82b41",
      "PointKey": "9012dd98-62fd-495f-9a8d-93eb44d2b9e8",
      "Ordinal": 6,
      "Description": "2.700 V @ 100 Hz",
      "FSC": "MEMCX",
      "Remarks": null,
      "Status": "Pass",
      "CardinalPoint": "2.700",
      "CardinalPointUnit": "V",
      "Dut": "2.697",
      "DutUnit": "V",
      "Reference": "2.7000",
      "ReferenceUnit": "V",
      "Error": "-0.0030",
      "ErrorUnit": "V",
      "TolerancePositive": "0.0560",
      "TolerancePositiveUnit": "V",
      "ToleranceNegative": "0.0560",
      "ToleranceNegativeUnit": "V",
      "GuardbandUpperLimit": "",
      "GuardbandUpperLimitUnit": "",
      "GuardbandLowerLimit": "",
      "GuardbandLowerLimitUnit": "",
      "ExpandedUncertainty": "",
      "ExpandedUncertaintyUnit": ""
    }
  ]
}
```

Example Error Response:

```
{
  "status": "error",
  "code": "E100",
  "message": "One or more required parameters are missing",
  "data": null
}
```