

# MPO DEMO WEBSITE

HOW-TO

# MPO Demo Home Page

Home Workflows Collections Data Objects Search

mpodemo

## Documenting Scientific Workflows

The Metadata, Provenance, and Ontology Project

### Welcome to the MPO Demo Website!

To make the concepts and the tools associated with the MPO more concrete, this demonstration area has been constructed that does not require any authentication or authorization. It is possible to navigate real workflows and their associated metadata but the ability to add information or add comments is not included.

To get started, please [review these instructions on how to use the MPO Demo Website](#).

Here is a list of available views:

- Workflows: view all available workflows
- Collections: a custom group of workflows, activities, data objects and other collections
- Data Objects: view all available data objects
- Search MPO: search MPO data

From the home page, please click on the links from the header or middle of page to one of four available links:

- Workflows
- Collections
- Data Objects
- Search

# Workflows 1

Home Workflows

**Workflows** will display an index of all available demo MPO workflows.

### MPO Workflows

WORKFLOW

- type = ALL
- time = to
- more...

ONTOLOGY

- ACTIVITY
- DATAOBJECT
- GENERIC
- WORKFLOW

CompositeID	Description	Creation Time	Comments	Quality
1 mjgreen@MIT.EDU / Gyro / 2 UID: 16285c85-25ea-4445-8506-d583a8a1	test idl mpo interface	2015-07-10 14:20:21	6 +	☆☆☆☆
2 mjgreen@MIT.EDU / Gyro / 1 UID: 589a4ee3-ed9f-4f90-bad4-c7f8e0c5	test idl mpo interface	2015-07-10 14:17:47	6 +	☆☆☆☆
3 mpodemo / Zipfit / 1 UID: 9b18b0e7-8c2e-4db3-99fe-b04ddab0	Zipfit Electron Temperature for 160124 Review Complete	2015-05-12 21:58:18	0 +	★★★★
4 mpodemo / EFIT / 2 UID: 08d2f5db-97d8-49c9-bd99-85303b07	EFIT02 for 160124 Complete	2015-05-12 21:57:35	3 +	★★☆☆
5 mpodemo / EFIT / 1 UID: 0407f11e-fbd9-4509-8fco-ff452d5da	EFIT01 for 160124 Ready for Review	2015-05-12 21:57:21	2 +	☆☆☆☆
6 mpodemo / OMFIT / 31 UID: 7ffdefd5-0d28-4ff3-99ac-8f81a1f77	OMFIT workflow In Progress	2015-02-02 19:43:51	1 +	☆☆☆☆
7 mpodemo / SWIM / 113 UID: aea8f004-839a-4250-a537-af5547bc	29841 : fastran_30001Z2 Non Standard Completion	2014-03-18 00:00:04	3 +	☆☆☆☆

show: 15

1

showing 1 to 7 of 7 workflows

Page created in: 0.4362 seconds.

# Workflows 2

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### MPO Workflows

WORKFLOW

type = ALL

time =  to

[more...](#)

ONTOLOGY

- ACTIVITY
- DATAOBJECT
- GENERIC
- WORKFLOW

CompositeID	Description	Creation Time	Comments	Quality
1 <a href="#">mjgreen@MIT.EDU / Gyro / 2</a> UID: <a href="#">16285c95-25ea-4445-9506-d583a8a5</a>	test idl mpo interface	2015-07-10 14:20:21	<div>6</div>	☆☆☆☆
<p>This plot certainly shows something important — by mjgreen@MIT.EDU - 2015-07-10 14:21:43</p> <p>A comment about the XICS data processing — by mjgreen@MIT.EDU - 2015-07-10 14:20:39</p> <p>A comment about the EFIT data processing — by mjgreen@MIT.EDU - 2015-07-10 14:20:33</p> <p>This set of runs is looking at the TEM/ITG boundary during a power scan — by mjgreen@MIT.EDU - 2015-07-10 14:20:24</p> <p>A gyro workflow created from IDL for shot=1110215005 at t=1.20000 — by mjgreen@MIT.EDU - 2015-07-10 14:20:23</p> <p>The normalization run is used to calibrate the k-range for the larger set of productions runs — by mjgreen@MIT.EDU - 2015-07-10 14:20:55</p>				
2 <a href="#">mjgreen@MIT.EDU / Gyro / 1</a> UID: <a href="#">589a4ee3-ad9f-4f90-bad4-c7f8e9c5</a>	test idl mpo interface	2015-07-10 14:17:47	<div>6</div>	☆☆☆☆
3 <a href="#">mpodemo / Zipfit / 1</a> UID: <a href="#">9b18b6e7-3c2e-4db9-99fe-b44ddab0</a>	Zipfit Electron Temperature for 160124 <a href="#">Review Complete</a>	2015-05-12 21:58:18	<div>0</div>	★★★★
4 <a href="#">mpodemo / EFIT / 2</a>	EFIT02 for 160124	2015-05-12	<div>2</div>	★★☆☆

Click on the **number button** below **Comments** to view associated comments for each workflow

# Workflows 3

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### MPO Workflows

WORKFLOW  
type = ALL

DATAOBJECT  
GENERIC  
WORKFLOW

CompositeID	Description	Creation Time	Comments	Quality
1 mjgreen@MIT.EDU / Gyro / 2 UID: 16285065-25ea-4445-8506-d583a8a1	test idl mpo interface	2015-07-10 14:20:21	6 +	☆☆☆☆
		2015-07-10 14:17:47	6 +	☆☆☆☆
		2015-05-12 21:58:18	0 +	★★★★
4 mpodemo / EFIT / 2 UID: 68d210db-976a-43c3-bc39-bc303b07	EFIT02 for 160124 Complete	2015-05-12 21:57:35	3 +	★★☆☆
5 mpodemo / EFIT / 1 UID: 0407f11e-fbd9-4509-8fco-ff452d5da	EFIT01 for 160124 Ready for Review	2015-05-12 21:57:21	2 +	☆☆☆☆
6 mpodemo / OMFIT / 31 UID: 7ffdefd5-0d28-4ff3-99ac-8f81a1f77	OMFIT workflow In Progress	2015-02-02 19:43:51	1 +	☆☆☆☆
7 mpodemo / SWIM / 113 UID: aea8f004-839a-4250-a537-af5547bc	29841 : fastran_30001Z2 Non Standard Completion	2014-03-18 00:00:04	3 +	☆☆☆☆

show: 15

1

showing 1 to 7 of 7 workflows

Click on a workflow **CompositeID** to view its detailed page

Page created in: 0.4362 seconds.

# Workflows 4

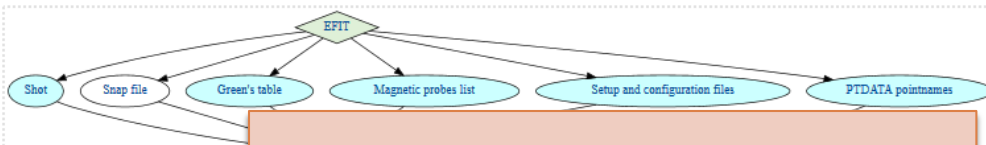
Home Workflows Collections Data Objects Search

mpodemo

mpodemo / EFIT / 2 mpodemo 2015-05-12 21:57:41

Description: EFIT02 for 160124

Workflow State: Complete UID: 08d2f5db-97d8-49c9-bd99-85303b07



On the right will be a list view of all associated nodes for the workflow. Click on an item for details to view associated *description*, *comments*, and other *workflows* the nodes is linked to

## Workflow Details:

Add Comment Expand All

mpodemo / EFIT / 2 - Complete	2015-05-12 21:57:41
Shot	2015-05-12 21:57:36
Snap file	2015-05-12 21:57:36
Description: EFIT input file mdsplus:///efit02/160124&path=lefit02:namelist	
UID: 2431f63a-7052-4f6f-a368-25763649	
Green's table	2015-05-12 21:57:36
Magnetic probes list	2015-05-12 21:57:37
Setup and configuration files	2015-05-12 21:57:37
Description: Setup and configuration files 160124 Setup and config files	
UID: 8312b0dc-a8ae-48ea-bd4f-24f280da	
Metadata:	
✚ Fitting weight data: /link/efit/fitweight.dat mpodemo 2015-05-12 21:57:37.911221	
✚ Experimental_data_compensation_N1coil: /link/efit/n1coil.ddd mpodemo 2015-05-12 21:57:37.728747	
✚ Experimental_data_compensation_Ccoil: /link/efit/ccoil.ddd mpodemo 2015-05-12 21:57:37.549176	
Comments:	
■ Fitting weights updated 2013-06-01 mpodemo 2015-05-12 21:57:38	
View linked Workflows	
mpodemo/EFIT/2 - EFIT02 for 160124	
mpodemo/EFIT/1 - EFIT01 for 160124	
Read input files	2015-05-12 21:57:38
PTDATA pointnames	2015-05-12 21:57:38

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[mpodemo](#) / **EFIT / 2** mpodemo 2015-05-12 21:57:41

**Description:** EFIT02 for 160124 **Workflow State:** Complete **UID:**

On the left is a directed acyclic graph of the selected workflow. *Blue nodes* represent nodes used in other workflows.

Click and drag to adjust the position of the graph, scroll-up/down to zoom in and out or click on a node to view details.

```
graph TD; EFIT{EFIT} --> Green's table([Green's table]); EFIT --> Magnetic probes list([Magnetic probes list]); Green's table --> Read input files[Read input files]; Magnetic probes list --> Read input files; Read input files --> Diamagnetic flux correction[Diamagnetic flux correction]; Diamagnetic flux correction --> End[ ];
```

**Magnetic probes list**  
Magnetic probes list and geometric configuration  
2015-05-12 21:57:37

- uri: 160124|Probes and geom config
- uid: 4795e433-1ac3-429d-b305-acf031af5db9

[Add Comment](#)

<input type="radio"/> Snap file	2015-05-12 21:57:36
<input type="radio"/> Green's table	2015-05-12 21:57:36
<input type="radio"/> Magnetic probes list	2015-05-12 21:57:37
<b>Description:</b> Magnetic probes list and geometric configuration 160124 Probes and geom config	
<b>UID:</b> 4795e433-1ac3-429d-b305-acf031af	
<a href="#">View Linked Workflows</a>	
<input type="radio"/> Setup and configuration files	2015-05-12 21:57:37
<input type="checkbox"/> Read input files	2015-05-12 21:57:38
<input type="radio"/> PTDATA pointnames	2015-05-12 21:57:38
<input type="checkbox"/> Read PTDATA and calibrate	2015-05-12 21:57:38
<input type="checkbox"/> Diamagnetic flux correction	2015-05-12 21:57:38
<input type="checkbox"/> EFIT data averaging	2015-05-12 21:57:39
<input type="checkbox"/> Call MSE library	2015-05-12 21:57:39

# Collections 1

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## MPO Collections

Name	Description	Username	Creation Time
<a href="#">Shot 160124 Collection</a> UID: 1abbc0f8-d0f7-4d17-849c-8a1c4bcc	Sample workflow collection	mjgreen@MIT.EDU	2015-07-15 12:07:44.291493
<a href="#">EFIT input file collection</a> UID: 933021f8-fea3-4d23-a24e-70c18a5b	Sample dataobject collection	mjgreen@MIT.EDU	2015-07-15 12:07:01.633919
<a href="#">Density Scan</a> UID: 55bf00aa-8ad8-40b9-9c11-b0c48147	Gyro runs for a density scan,	mjgreen@MIT.EDU	2015-07-14 08:44:29.748546

**Collection** will display an index of all available demo MPO collections. [Click](#) on a **collection name** to view all elements in the collection



# Collections 2

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[mpodemo](#)

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**MPO Collection: Shot 160124 Collection** [mjgreen@MITEDU](#) - 2015-07-15 12:07:44

**Description:** Sample workflow collection

Name	Description	Creation Time	Comments
<a href="#">EFIT</a> <i>mpodemo / EFIT / 1</i>	EFIT01 for 160124 UID: 0407f11e-fbd9-4509-8fcc-ff452d5da	2015-05-12 21:57:21	<a href="#">2</a> <a href="#">+</a>
<div>Fitting weights updated 2013-06-01 — by - 2015-05-12 21:57:23</div> <div>Backwards averaging — by - 2015-05-12 21:57:25</div>			
<a href="#">EFIT</a> <i>mpodemo / EFIT / 2</i>	EFIT02 for 160124 UID: 08d2f5db-97d8-49c9-bd99-85303b07	2015-05-12 21:57:35	<a href="#">3</a> <a href="#">+</a>
<a href="#">Zipfit Electron Temperature</a> <i>mpodemo / Zipfit / 1</i>	Zipfit Electron Temperature for 160124 UID: 9b18b8e7-8c2e-4db9-99fe-b84ddab0	2015-05-12 21:58:18	<a href="#">0</a> <a href="#">+</a>

Click on the **number button** below **Comments** to view associated comments for each workflow

# Data Objects 1

<a href="#">Home</a> <a href="#">Workflows</a> <a href="#">Collections</a> <a href="#">Data Objects</a> <a href="#">Search</a>					
<b>MPO Data Objects</b>					
Show <input type="text" value="10"/> entries					
Name	Description	URI	Source	Username	Time
<a href="#">IPS Configuration File</a>	IPS configuration description	http://swimdata.gat.com/murakami/29841.config	Outside of MPO	mpodemo	2014-03-18 00:00:09
<a href="#">Shot</a>	Plasma shot number	160124	Outside of MPO	mpodemo	2015-05-12 21:57:21
<a href="#">Run 6 Output</a>	Output File	filesys:///home/g/gyro/1_1.20000/output_6.gyro	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:18:56
<a href="#">Phys. Plasmas 21, 110501 (2014)</a>	DOI: http://dx.doi.org/10.1063/1.4901920	filesys:///Manuscript location: /home/g/gyro/1_1.20000/manuscript.pdf	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:19:08
<a href="#">TS Outputs</a>	MDSplus Transport Tree	mdsplus://alcddata.psfc.mit.edu/transport/1110215005&path=transport:top.gyro.runs.t1200.inp_profiles:te	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:18:02
<a href="#">Plot File 1</a>	x vs y	filesys:///home/g/gyro/1_1.20000/plot_1.ps	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:19:02
<a href="#">Setup and configuration files</a>	Setup and configuration files	160124 Setup and config files	Outside of MPO	mpodemo	2015-05-12 21:57:22
<a href="#">Production Batch File 6</a>	File copied from MDSplus data	filesys:///home/g/gyro/1_1.20000/batch_input.gyro_6	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:18:39
<a href="#">Production Input File 3</a>	File copied from MDSplus data	filesys:///home/g/gyro/1_1.20000/file_input.gyro_3	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:18:22
<a href="#">Production Batch File 3</a>	File copied from MDSplus data	filesys:///home/g/gyro/2_1.20000/batch_input.gyro_3	Outside of MPO	mjgreen@MIT.EDU	2015-07-10 14:21:09
Name	Description	URI	Source	Username	Time
Showing 1 to 10 of 77 entries					
Previous <a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> ... <a href="#">8</a> Next					

**Data Objects** will display an index of all available demo MPO data objects. [Click](#) on a **data object name** to view further details.

# Data Objects 2

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**MPO Data Object: Green's table** [mpodemo](#) - 2015-05-12 21:57:22

**URI:** filesys:///link/efit/rpf01.d3d

**Description:** Green's table files

## [Associated Workflows](#)

Click on the **Workflow Name** to view more details on the workflow

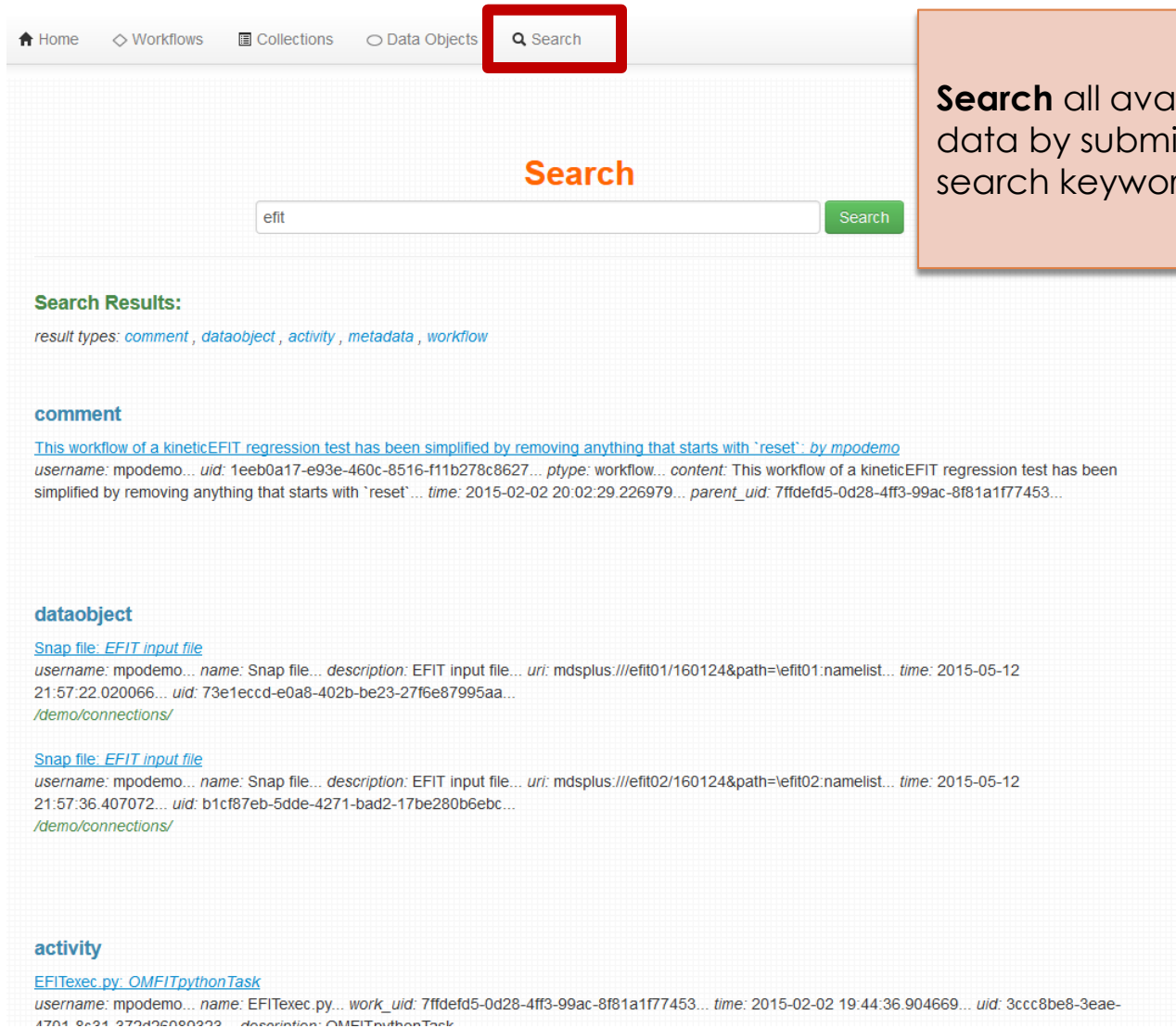
Name	Description	Creation Time	Comments	Quality
<a href="#">mpodemo / EFIT / 1</a>	EFIT01 for 160124	2015-05-12 21:57:21	2 <a href="#">+</a>	☆☆☆☆
<a href="#">mpodemo / EFIT / 2</a>	EFIT02 for 160124	2015-05-12 21:57:35	3 <a href="#">+</a>	☆☆☆☆

## [Associated Collections](#)

Click on the **Collection Name** to view more details on the collection

Name	Description	Username	Creation Time
<a href="#">EFIT input file collection</a>	Sample dataobject collection	mjgreen@MIT.EDU	2015-07-15 12:07:01.634845

# Search



The screenshot displays the MPO Search interface. At the top, a navigation bar includes links for Home, Workflows, Collections, and Data Objects, with a Search button highlighted by a red box. Below the navigation bar, the word "Search" is prominently displayed in orange. A search input field contains the text "efit", and a green "Search" button is positioned to its right. The search results are organized into sections: "comment", "dataobject", and "activity". Each section lists relevant items with their respective details, including usernames, uids, descriptions, and timestamps.

**Search Results:**  
result types: [comment](#) , [dataobject](#) , [activity](#) , [metadata](#) , [workflow](#)

**comment**

[This workflow of a kineticEFIT regression test has been simplified by removing anything that starts with 'reset': by mpodemo](#)  
username: mpodemo... uid: 1eeb0a17-e93e-460c-8516-f11b278c8627... ptype: workflow... content: This workflow of a kineticEFIT regression test has been simplified by removing anything that starts with 'reset'... time: 2015-02-02 20:02:29.226979... parent\_uid: 7ffdefd5-0d28-4ff3-99ac-8f81a1f77453...

**dataobject**

[Snap file: EFIT input file](#)  
username: mpodemo... name: Snap file... description: EFIT input file... uri: mdsplus:///efit01/160124&path=\efit01:namelist... time: 2015-05-12 21:57:22.020066... uid: 73e1eccd-e0a8-402b-be23-27f6e87995aa...  
[/demo/connections/](#)

[Snap file: EFIT input file](#)  
username: mpodemo... name: Snap file... description: EFIT input file... uri: mdsplus:///efit02/160124&path=\efit02:namelist... time: 2015-05-12 21:57:36.407072... uid: b1cf87eb-5dde-4271-bad2-17be280b6ebc...  
[/demo/connections/](#)

**activity**

[EFITexec.py: OMFITpythonTask](#)  
username: mpodemo... name: EFITexec.py... work\_uid: 7ffdefd5-0d28-4ff3-99ac-8f81a1f77453... time: 2015-02-02 19:44:36.904669... uid: 3ccc8be8-3eae-4704-9e24-372d2e080223... description: OMFITpythonTask

**Search** all available MPO data by submitting in the search keyword