

# MPO DEMO WEBSITE

HOW-TO

# MPO Demo Home Page



## Documenting Scientific Workflows

The Metadata, Provenance, and Ontology Project

### Welcome to 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
- GENERIC
- WORKFLOW

CompositeID	Description	Creation Time	Comments	Quality
1 mjgreen@MIT.EDU / Gyro / 2 UID: 16285c85-25ea-4445-8505-d583a8a1	test idl mpo interface	2015-07-10 14:20:21	6 +	☆☆☆☆
2 mjgreen@MIT.EDU / Gyro / 1 UID: 589a4ee3-ad9f-4f90-bad4-c7f8e8c5	test idl mpo interface	2015-07-10 14:17:47	6 +	☆☆☆☆
3 mpodemo / Zipfit / 1 UID: 9b18b0e7-8c2e-4db9-99fe-b84ddab0	Zipfit Electron Temperature for 160124	2015-05-12 21:58:18	0 +	☆☆☆☆
4 mpodemo / EFIT / 2 UID: 08d2f5db-97d8-49c9-bd99-85303b07	EFIT02 for 160124	2015-05-12 21:57:35	3 +	☆☆☆☆
5 mpodemo / EFIT / 1 UID: 0407f11e-fbd9-4509-8f0c-ff452d5da	EFIT01 for 160124	2015-05-12 21:57:21	2 +	☆☆☆☆
6 mpodemo / OMFIT / 31 UID: 7ffde1d5-0d28-4ff3-99ac-8f81a1f77	OMFIT workflow	2015-02-02 19:43:51	1 +	☆☆☆☆
7 mpodemo / SWIM / 113 UID: aea8f004-839a-4250-a537-af5547bc	29841 : fastran_30001Z2	2014-03-18 00:00:04	3 +	☆☆☆☆

show: 15

1

showing 1 to 7 of 7 workflows

Page created in: 2.0284 seconds.

# Workflows 2

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### MPO Workflows

WORKFLOW

type = ALL

time =  to

[more...](#)

ONTOLOGY

[ACTIVITY](#)

[GENERIC](#)

[WORKFLOW](#)

CompositeID	Description	Creation Time	Comments	Quality
1 <a href="#">mjgreen@MIT.EDU / Gyro / 2</a> UID: <a href="#">16285c05-25ea-4445-8506-d583a8a1</a>	test idl mpo interface	2015-07-10 14:20:21	<div>6</div>	☆☆☆☆
A gyro workflow created from IDL for shot=1110215005 at t=1.20000 — by mjgreen@MIT.EDU - 2015-07-10 14:20:23				
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				
A comment about the EFIT data processing — by mjgreen@MIT.EDU - 2015-07-10 14:20:33				
A comment about the XICS data processing — by mjgreen@MIT.EDU - 2015-07-10 14:20:39				
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				
This plot certainly shows something important — by mjgreen@MIT.EDU - 2015-07-10 14:21:43				
2 <a href="#">mjgreen@MIT.EDU / Gyro / 1</a> UID: <a href="#">589a4ee3-ed9f-4f90-bad4-c7f8e0c5</a>	test idl mpo interface	2015-07-10 14:17:47	<div>6</div>	☆☆☆☆
3 <a href="#">mpodemo / Zipfit / 1</a> UID: <a href="#">9b18b0e7-8c2e-4db9-99fe-b64ddab0</a>	Zipfit Electron Temperature for 160124	2015-05-12 21:58:18	<div>0</div>	☆☆☆☆

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

# Workflows 3

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

WORKFLOW

o type =

o time =  to

more... ▾

ONTOLOGY

o ACTIVITY

o GENERIC ▾

o WORKFLOW ▾

CompositeID	Description	Creation Time	Comments	Quality
<a href="#">mjgreen@MIT.EDU / Gyro / 2</a> UID: 102b500f2c2ea444c3b0c4c033a0a8	test idl mpo interface	2015-07-10 14:20:21	6 +	☆☆☆☆
2 <a href="#">mjgreen@MIT.EDU / Gyro / 1</a> UID: 589a4ee3-ad9f-4f90-bad4-c7f8e6c5	test idl mpo interface	2015-07-10 14:17:47	6 +	☆☆☆☆
3 <a href="#">mpodemo / Zipfit / 1</a> UID: 9b18b0e7-8c2e-4db9-99fe-b04ddab0	Zipfit Electron Temperature for 160124	2015-05-12 21:58:18	0 +	☆☆☆☆
4 <a href="#">mpodemo / EFIT / 2</a> UID: 08d2f5db-97d8-49c9-bd99-85303b07	EFIT02 for 160124	2015-05-12 21:57:35	3 +	☆☆☆☆
5 <a href="#">mpodemo / EFIT / 1</a> UID: 0407f11e-fbd9-4509-8f0c-ff452d5da	EFIT01 for 160124	2015-05-12 21:57:21	2 +	☆☆☆☆
6 <a href="#">mpodemo / OMFIT / 31</a> UID: 7ffdefd5-0d28-4ff3-99ac-8f81a1f77	OMFIT workflow	2015-02-02 19:43:51	1 +	☆☆☆☆
7 <a href="#">mpodemo / SWIM / 113</a> UID: aea8f004-839a-4250-a537-af5547bc	29841 : fastran_30001Z2	2014-03-18 00:00:04	3 +	☆☆☆☆

show: 15 ▾

1

showing 1 to 7 of 7 workflows

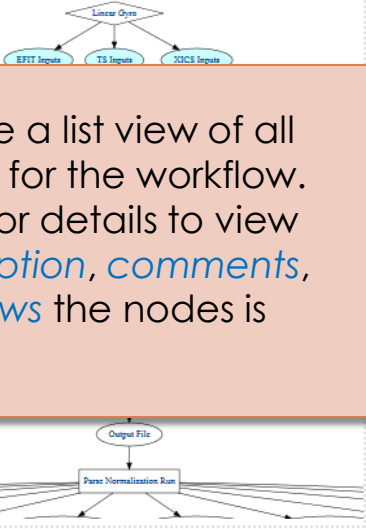
Page created in: 2.0284 seconds.

# Workflows 4

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[mjgreen@MIT.EDU / Gyro / 2](#) mjgreen@MIT.EDU 7/10/2015, 2:21:47 PM

**Description:** test idl mpo interface  
**UID:** 18285c85-25ea-4445-8508-d583a8a1



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](#)

[mjgreen@MIT.EDU / Gyro / 2](#) 7/10/2015, 2:21:47 PM

[EFIT Inputs](#) 2015-07-10 14:20:27

**Description:** Outputs from standard EFIT run mdsplus://alcddata.psfc.mit.edu/analysis/1110215005&path=/analysis:top  
**UID:** 7afb3c10-e410-4714-b38d-638a7914

[View linked Workflows](#)

[mjgreen@MIT.EDU/Linear Gyro/1 - test idl mpo interface](#)

[mjgreen@MIT.EDU/Linear Gyro/2 - test idl mpo interface](#)

[TS Inputs](#) 2015-07-10 14:20:29

[XICS Inputs](#) 2015-07-10 14:20:31

[Process EFIT](#) 2015-07-10 14:20:32.251922

**Description:** Calculate required averages and derived quantities *None*  
**UID:** eca9d843-35cd-4ec7-bfb4-948be39d

**Comments:**

[A comment about the EFIT data processing mjgreen@MIT.EDU 2015-07-10 14:20:33](#)

[EFIT Outputs](#) 2015-07-10 14:20:35

[Process TS data](#) 2015-07-10 14:20:35.685208

[TS Outputs](#) 2015-07-10 14:20:37

# Workflows 5

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mjgreen@MIT.EDU / Gyro / 2 mjgreen@MIT.EDU 7/10/2015, 2:21:47 PM

Description: test idl mpo interface

UID: 18285c85-25ea-4445-8508-d583a8a2

TS Outputs

MDSplus Transport Tree

2015-07-10 14:20:37

- uri: mdsplus://alcddata.psfc.mit.edu/transport
- /1110215005&path=transport::top.gyro.runs.t1200.inp\_profiles.te
- uid: 4db3c4cf-d07f-4ea2-a8bf-dc6d00e55968

Add Comment

Workflow Details:

Add Comment Expand All

mjgreen@MIT.EDU / Gyro / 2	7/10/2015, 2:21:47 PM
TS	2015-07-10 14:20:27
TS	2015-07-10 14:20:29
TS	2015-07-10 14:20:31
EFIT	2015-07-10 14:20:32.251922
EFIT Outputs	2015-07-10 14:20:35
Process TS data	2015-07-10 14:20:35.685208
TS Outputs	2015-07-10 14:20:37

Description: MDSplus Transport Tree mdsplus://alcddata.psfc.mit.edu/transport

/1110215005&path=transport::top.gyro.runs.t1200.inp\_profiles.te

UID: 4db3c4cf-d07f-4ea2-a8bf-dc6d00e5

View Linked Workflows

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.

# Collections 1

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## MPO Collections

Name	Description	Username	Creation Time
<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
<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="#">Shot 160124 Collection</a> UID: 1abbc0f8-d0f7-4d17-849c-8a1c4bcc	Sample workflow collection	mjgreen@MIT.EDU	2015-07-15 12:07:44.291493

**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: <a href="#">0407f11e-fbd9-4509-8fcc-ff452d5da</a>	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: <a href="#">08d2f5db-97d8-49c9-bd99-85303b07</a>	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: <a href="#">9b18b8e7-8c2e-4db9-99fe-b84ddab0</a>	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	file:///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	file:///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	file:///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	file:///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	file:///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	file:///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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[mpodemo](#)

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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

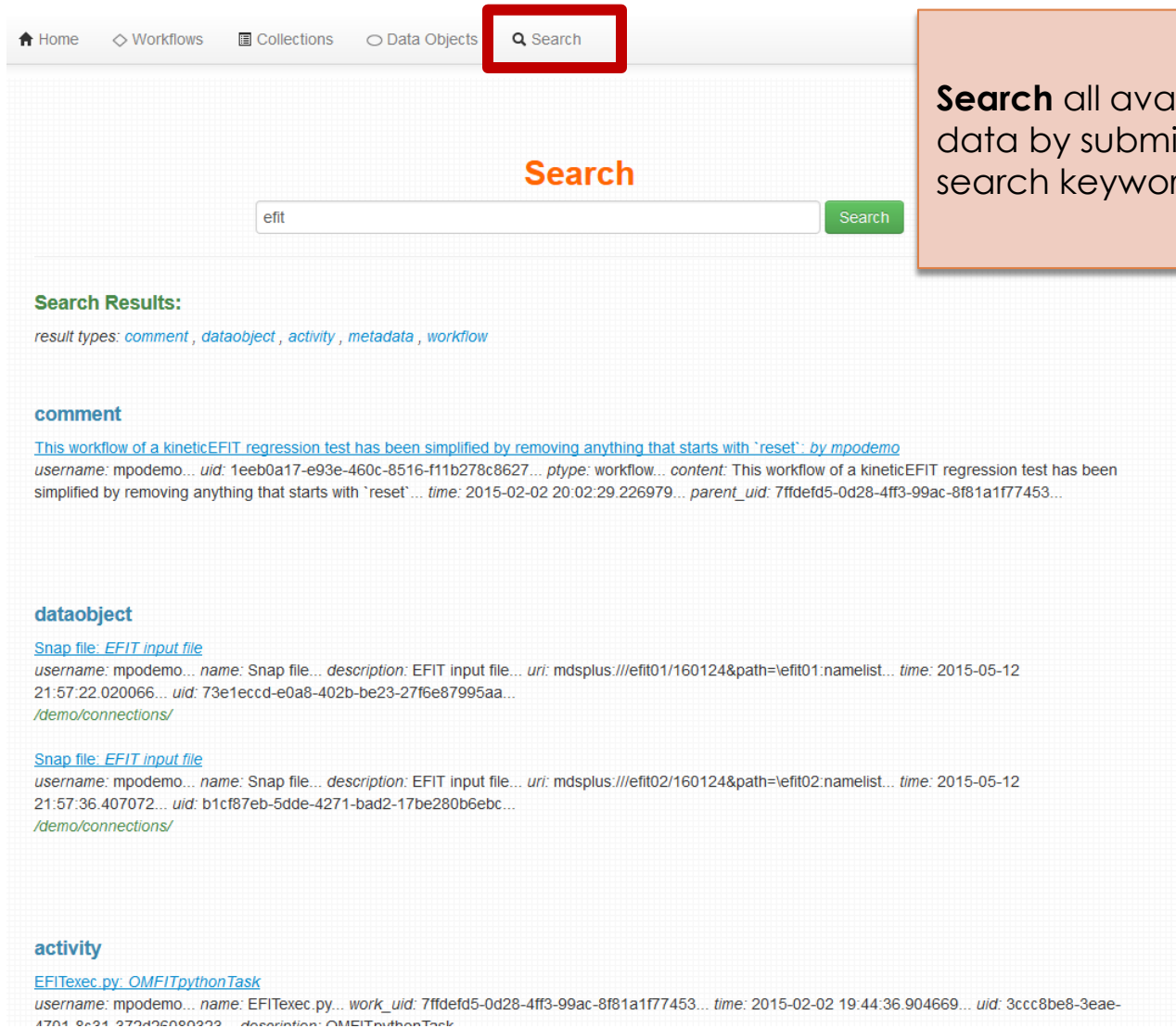
Name	Description	Creation Time	Comments	Quality
<a href="#">mpodemo / EFIT / 1</a>	EFIT01 for 160124	2015-05-12 21:57:21	2 +	☆☆☆☆
<a href="#">mpodemo / EFIT / 2</a>	EFIT02 for 160124	2015-05-12 21:57:35	3 +	☆☆☆☆

## [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, IDs, 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-4704-9e24-972d2e080223... description: OMFITpythonTask

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