

JCAT Web Services JCWSMain Servlet usage guide

Parameter **action** values:

Example: <http://www.yourwebserver.com/JCWSMain?action=activemodels>

Example: <http://www.yourwebserver.com/JCWSMain?action=viewmodel&model=7660fc40-c3a8-414c-82e4-cb3de959bd50>

Queries:

activemodels - Show the list of models that the server is hosting (HTML page)

viewmodel [model ID (optional)] - Show the details of a model (HTML page)

viewevent [model ID, event ID] - Show the details of an Event in a model (HTML page)

viewsessions - Show the list of client sessions currently running on the server (HTML page)

alltriggers [model ID] - Get the Events in the model which are the trigger or root Events. These are Events which you would typically schedule to initiate the model.

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<Events>
  <item guid="19640611-3b59-40f7-b62e-0190ec07b9b7" name="Area RECON"/>
  <item guid="a0d40fb4-aa66-4e22-a621-3de8a8c55f91" name="Air Strikes"/>
</Events>
```

predictedprofile [model ID, item ID] - Get the predicted probability output for the item specified

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<timeline name="Reduce Combat Casualties" guid="9927fb4d-dd11-44b8-83d2-59eb32fbbe7f">
  <time slice="0" prob="0.0" />
  <time slice="1" prob="0.5641025641025641" />
  ...
</timeline>
```

inferredprofile [model ID, item ID] - Get the inferred probability output for the item specified

allevents [model ID] - Get all the Events in the specified model

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<Events>
  <item guid="d9436ec6-59f6-4cb8-baa4-66c73cb3a037" name="Damaged Cultrural Sites"/>
  <item guid="b81918bd-a9bf-41b4-8d08-9c470e76c4de" name="Limited Military Response"/>
</Events>
```

allmechanisms [model ID] - Get all the Mechanisms in the specified model

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<Mechanisms>
  <item guid="9f42d4b8-42c0-4013-9468-7fd899b00348" name="increased fundamentalist influence"/>
  <item guid="0df5d396-b056-410d-a03a-923129ad06b7" name="increased unemployment"/>
</Mechanisms>
```

causes [model ID, event ID] - Get all the causal Mechanisms for the specified Event in the specified model

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<Mechanisms>
```

```
<item guid="78f7c7f6-abd1-49ee-91e9-d887bf29834c" name="disregard for local area"/>
</Mechanisms>
```

inhibitors [model ID, event ID] - Get all the inhibiting Mechanisms for the specified Event in the specified model

effects [model ID, event ID] - Get all the effect Mechanisms for the specified Event in the specified model

allmodels - Get a list of models available on the server

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<jcatws>
  <model name="Baghdad" guid="ba9c3fa9-a99b-4b64-a542-05415e2a6dbf"/>
  <model name="Tony_coa" guid="7660fc40-c3a8-414c-82e4-cb3de959bd50"/>
</jcatws>
```

samplecount [model ID] - Get the number of sampler currently taken by the sampler running on the specified model

Example response:

```
<?xml version="1.0" encoding="UTF-8"?>
<sampler samplecount="1870"/>
```

Commands:

buildmodel [model ID, time(integer)] - Build and begin sampling the specified model for the specified time slices

stopsampler [model ID] - Stop the sampler running on the specified model

insertschedule [model ID, schedule xml value (see below)] - Set a schedule for an Event

Example schedule value:

```
<?xml version="1.0" encoding="UTF-8"?>
<schedule item="b1f0bf10-b2c6-4eb3-9627-0a9d11a201b5">
  <time slice="1" prob="0.98"/>
</schedule>
```

elicitprob [model ID, elicitation xml value (see below)] - Set an probability for a Mechanism or a group of Mechanisms

Example elicitation value:

```
<?xml version="1.0" encoding="UTF-8"?>
<elicitation item="1470b38b-a7d1-48bf-a890-9844f4b8ea92" probability="0.6" protocol="4">
  <mechanism id="c3363fec-597f-456a-b7d8-6f7c823d6f1e"/>
</elicitation>
```

cleartriggers [model ID] - Remove the schedules from all 'trigger' Events

killsession - If desired, request the server terminate your session immediately instead of waiting for timeout

Parameter **sestimeout**:

Example: <http://www.yourwebserver.com/JCWSMain?sestimeout>

Returns the time-out delay for the current session that has been set by the server (in seconds)

Notes

- Changes made to models and running samplers are associated with your session. If your session expires due to inactivity after the servers specified session time-out then changes and running samplers will be disposed of by the server.
- Once results are obtained and sampling is no longer needed, stopsampler should be called to free resources on the server