

NetLogger Monitoring Events

Overview

As pegasus-monitorD parses the various files in a workflow directory (braindump, workflow-map, dagman.out file), it will generate NetLogger events that can be used to populate a database using the Stampede schema. All events have the "stampede." prefix.

As of 4/22/11 the "schema" for these is encoded using Yang. The output of YUMA's "yangdump" utility is used to document the schema. In addition, the newly-added NetLogger nl_loader "xml" output can be used to validate sample events against the Yang schema.

Validation

You can validate instances of NetLogger BP files after converting them to XML with nl_load, using the yang2dsdl tool. First install [pyang](#). And, of course, the [NetLogger Toolkit](#).

```
$ nl_load xml -f input-file.bp netconf=true > input-file.xml # add 'pretty=true' for readable XML
$ export PYANG_HOME=$HOME/local # modify to your pyang location
$ export PYANG_XSLT_DIR=$PYANG_HOME/share/yang/xslt
$ export PYANG_RNG_LIBDIR=$PYANG_HOME/share/yang/schema
$ yangfile=/path/to/stampede-<date>.yang
$ yang2dsdl -v input-file.xml $yangfile
```

To generate documentation you can use yang dump utility. It will generate documentation for all the .yang files in the directory.

```
$ yangdump --format=html --subtree=. --defnames=true --output=. --log-level=info --html-div=true --
html-toc=menu --urlstart=/modules --simurls=true
```

Schemas

Current - Compatible with Pegasus 4.6

[Yang File](#)
[Yang File as HTML](#)

Current - Compatible with Pegasus 4.0

[Yang File](#)
[Yang File as HTML](#)

[Corresponding 4.0 clustered Montage workflow](#)

Old - compatible with Pegasus 3.1.x

[Yang File](#)
[Yang File as HTML](#)

[Corresponding 3.1 clustered Montage workflow](#)
[Corresponding 3.1 clustered Montage workflow including errors](#)