

ietf-syslog Model Status

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Status Since Hawaii

1. The addition of "buffered-logging-action" for logging to memory. In addition to the syslog-selector there is a buffer-size field.
2. The file-logging-action has been modified to be a list.
3. A destination-port field has been added to remote-logging-action with a default value of 514.
4. The description for logging-match-processing has been updated to indicate that the RFC 5424 SYSLOG-MSG field will be searched for a pattern match. Users are free to construct regex expressions that match on structured-data tags if needed.
5. A new feature and boolean have been added to remote-logging-action to support distribution of messages in structured-data format. This addresses Q5 above.

A review by Jan Lindblad, YANG Dr. from tail-f Systems, resulted in the follow changes:

- simplify the syslog-selector grouping
- add defaults where necessary
- add and remove mandatory fields where necessary
- improve description fields
- use the IETF lower case naming convention.

An ietf-syslog Implementation At The IETF Hackathon

Goal:

- Use OpenDaylight with the proposed ietf-syslog.yang model to configure the Linux rsyslog daemon syslog selectors.

Method:

- Build an OpenDaylight project that imports the ietf-syslog.yang model
- Write a Java onDataChanged method that reacts to changes to the syslog model leaf paths and rewrites the rsyslog.conf file.

Demo

see

rsyslog.conf

```
# First some standard log files (5) and /etc

#auth,authpriv.* /var/log/auth.log
*. *;auth,authpriv.none /var/log/syslog
# Logging for the mail system. Split it up so that
# it is not too large (5) files.
mail.info /var/log/mail.info
mail.err /var/log/mail.warn
mail.err /var/log/mail.err
```

Demo

ietf-syslog.yang Tree

```
module: ietf-syslog
```

```
  +--rw syslog
```

```
  ietf-syslog.yang-Tree
```

```
    ietf-syslog
```

```
      +--rw buffered-logging-action
```

```
      +--rw console-logging-action
```

```
      +--rw file-logging-action
```

```
      +--
```

Demo

- The ODL syslog tree leaves file-logging-action, remote-logging-action, and console-logging-action were pre-populated
- Add a console-logging-action to save time.
- The Hackathon Wiki: [adding a console-logging-action to the syslog tree](#) using interface ODL
- Show the resulting leaf



Module

▶ Expand all

Collapse others

- + config rev.2013-04-05
- + credential-store rev.2015-02-26
- + ietf-interfaces rev.2014-05-08
- + ietf-netconf rev.2011-06-01
- + ietf-netconf-monitoring rev.2010-10-04
- ietf-syslog rev.2015-03-05

- config

- syslog

+ global-logging-action

- console-logging-action

▣ logging-advanced-level-processing

▣ logging-match-processing

+ buffered-logging-action

+ file-logging-action

+ remote-logging-action

API operations: /config /ietf-syslog:syslog /console-logging-action

GET

PUT

DELETE

POST

Actions:

Show preview

Request history

Set custom API

▼ console-logging-action (?)

▼ logging-level-scope (?) logging-facility-all

severity (?) warning

▶ logging-advanced-level-processing (?)

▶ logging-match-processing (?)

```
~$  
~$ more Documents/ODL/git/hackathon/ietfsyslog/karaf/target/assembly/rsyslog.conf  
# Config rules for rsyslog.  
#  
# Generated by OpenDaylight on Sun Mar 22 14:28:45 PDT 2015  
#  
# For more information see rsyslog.conf(5) and /etc/rsyslog.conf  
#  
*.warning /dev/console  
*.warning file1.log  
cron.warning; kern.notice file2.log  
*.critical file3.log  
*.warning @10.10.10.1  
*.warning :omusrmsg:*  
~$ more Documents/ODL/git/hackathon/ietfsyslog/karaf/target/assembly/rsyslog.conf  
# Config rules for rsyslog.  
#  
# Generated by OpenDaylight on Sun Mar 22 14:29:57 PDT 2015  
#  
# For more information see rsyslog.conf(5) and /etc/rsyslog.conf  
#  
*.warning file1.log  
cron.warning; kern.notice file2.log  
*.critical file3.log  
*.warning @10.10.10.1  
*.warning :omusrmsg:*  
~$
```


Nodes

Yang Visualizer

Yang UI

Model : syslog

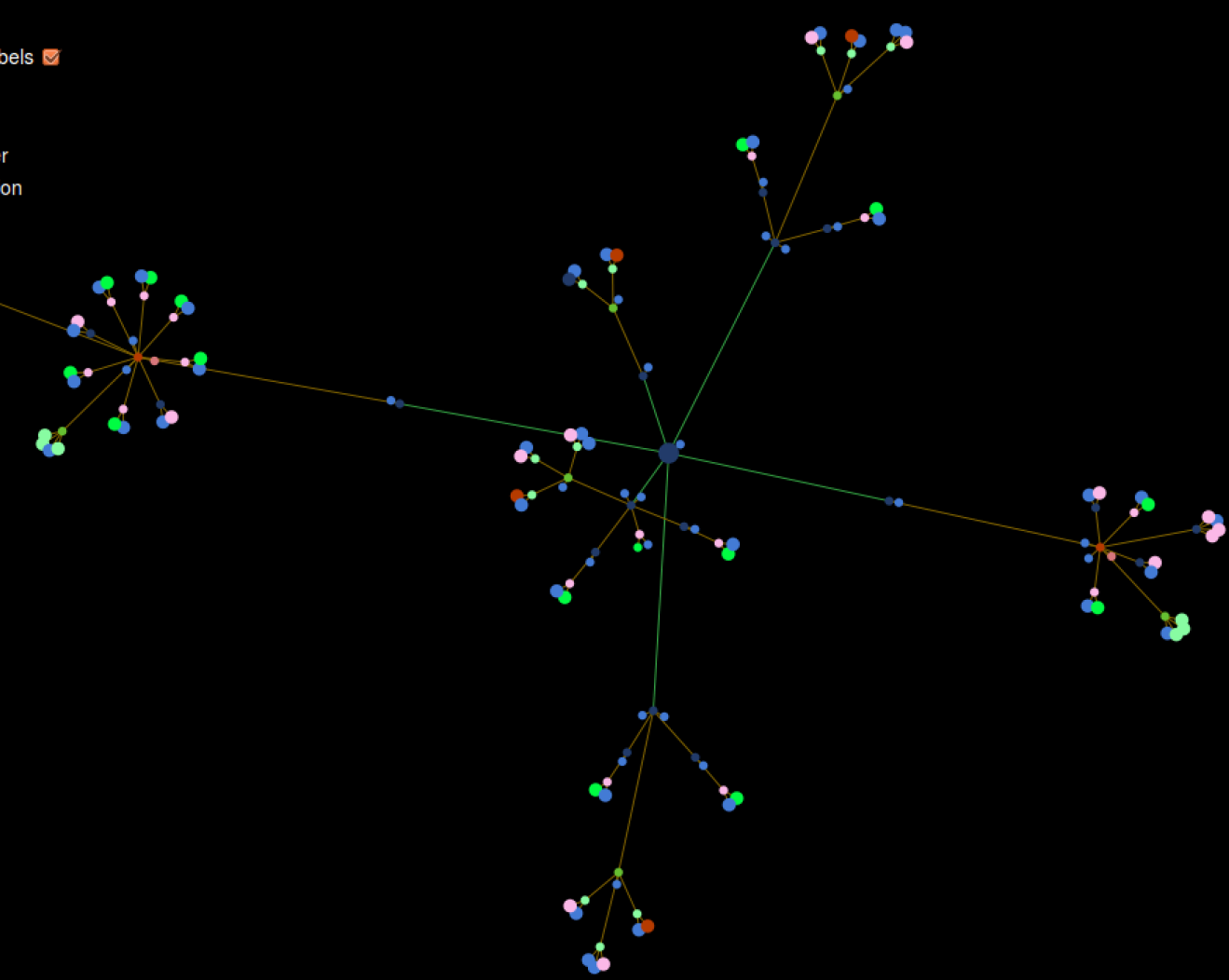
View : Default Types Modules Namespaces

show all nodes

Legend :

Display all labels

- case
- choice
- container
- description
- enum
- key
- leaf
- length
- list
- pattern
- range
- type



Selected node :
ID
43

Parent nodes :
ID

Children nodes :
ID
44
45
48
51
57
82
129