

Draft-ietf-netmod-syslog-model-00

Review

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Agenda

- Review Comments Adopted
- Review Comments Not Adopted
- Feature Changes
- Selector Processing
- Action Processing

Review Comments Adopted

- Choose more specific leaf types:
 - Use `inet:uri` for the file-name instead of `string`.
 - Use `inet:host` for remote server name instead of `string`.
 - Use `if:interface-ref` for source-interface instead of `string`.
- Use grouping more effectively to reduce complexity.
- Add maximum file size for file logging.

Review Comments Adopted (cont.)

- Make the Syslog configuration for message processing flow more Linux like:
 - Call out selectors and actions
 - Standardize on the term “severity” instead of “severity” and “priority”
 - Expand selector processing to allow
 - Specification of all severities, or a specific severity
 - Specification of all facilities, no facilities, or one or more facilities
 - Specification of equals, and not equals operators as a feature

Review Comments Adopted (cont.)

- Include references to relevant RFCs in the reference section of the revision statement.
- Support RFC 5424 structured data for file logging as a feature.
- Implement extended message filtering as a feature as proposed by Rainer Gerhards and implemented in Rsyslog.
- Make the global-logging description clearer.

Review Comments Adopted (cont.)

- Add log archival with permissions for file-logging as a feature.
- Add support for signed syslog messages.

Review Comments Not Adopted

- Support syslogd daemon options
 - These options set various options for the syslog daemon itself
 - Review the daemon options at:
<http://manpages.ubuntu.com/manpages/saucy/man8/sysklogd.8.html>

Feature Changes

- Features that were added:
 - feature file-logging-archive-config
 - feature selector-advanced-level-processing-config
 - feature selector-match-processing-config
 - feature file-logging-structured-data
- Features that were renamed:
 - feature global-logging to global-logging-action
 - feature use-vrf to remote-logging-use-vrf

Feature Changes (cont.)

- Features that were removed:
 - Three “facility-logging-config” features were removed because they duplicate the revised selector processing (can a facility be specified for certain actions):
 - feature console-facility-logging-config
 - feature file-facility-logging-config
 - feature terminal-facility-logging-config
 - feature file-logging was removed

Selector Processing

grouping syslog-selector {

description

"This grouping defines a Syslog selector which is used to filter log messages for the given action in which the selector appears.

Choose one of the following:

logging-facility-all <severity>

logging-facility-none

logging-facility <facility> <severity> [<facility> <severity>...]

Additional severity comparison operations are available using the logging-advanced-level-processing container. If the logging-advanced-level-processing container is not present all messages of the specified severity and higher are logged according to the given action.";

Selector Processing

```
grouping syslog-severity {
```

```
  description
```

```
    "This grouping defines the Syslog severity which is used to filter log messages.
```

```
    Choose one of the following:
```

```
      logging-severity-all
```

```
      logging-severity <severity>";
```

```
choice logging-severity-scope {
```

```
  case logging-severity-all {
```

```
    ...
```

```
  }
```

```
  case logging-severity {
```

```
    ...
```

```
  }
```

```
}
```

```
}
```

Selector Processing (cont.)

```
choice logging-level-scope {
  case logging-facility-all {
    uses syslog-severity;
  }
  case logging-facility {
    list logging-facilities {
      key "facility";
      leaf facility {
        ...
      }
      uses syslog-severity;
    }
  }
  case logging-facility-none {
    ...
  }
}
```

Selector Processing (cont.)

```
container logging-advanced-level-processing {
  if-feature selector-advanced-level-processing-config;
  description
    "This container describes the configuration parameters for advanced Syslog selector severity.";
  choice logging-severity-operator {
    case default {
      description
        "All messages of the specified severity and higher are logged";
      ...
    }
    case equals {
      description
        "All messages of the specified severity are logged";
      ...
    }
    case not-equals {
      description
        "All messages that are not of the specified severity are logged";
      ...
    }
  }
}
```

Selector Processing (cont.)

```
container logging-match-processing {  
  if-feature selector-match-processing-config;  
  description  
    "This container describes the configuration parameters for  
    matching Syslog messages using a regular expression pattern  
    match."  
  leaf pattern-match {  
    type string;  
    description  
      "This leaf describes a Posix 1003.2 regular expression  
      string that can be used to select a Syslog message  
      for logging."  
  }  
}
```

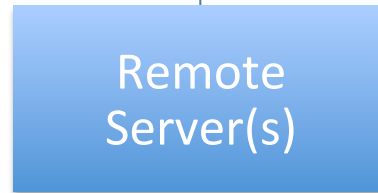
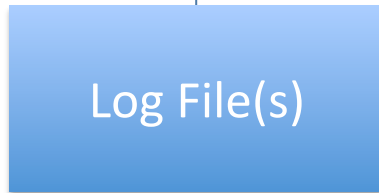
Action Processing

Message Producers



Group level
suppression

Message Distribution



Action Processing

+--rw syslog

+--rw global-logging-action

+--rw console-logging-action

+--rw file-logging-action

+--rw remote-logging-action

+--rw terminal-logging-action

Status and Next steps

- Special thanks to the people who have provided feedback:

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