

Self Describing Data Object Tags

draft-`tao-netmod-yang-node-tags-06`

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Recap

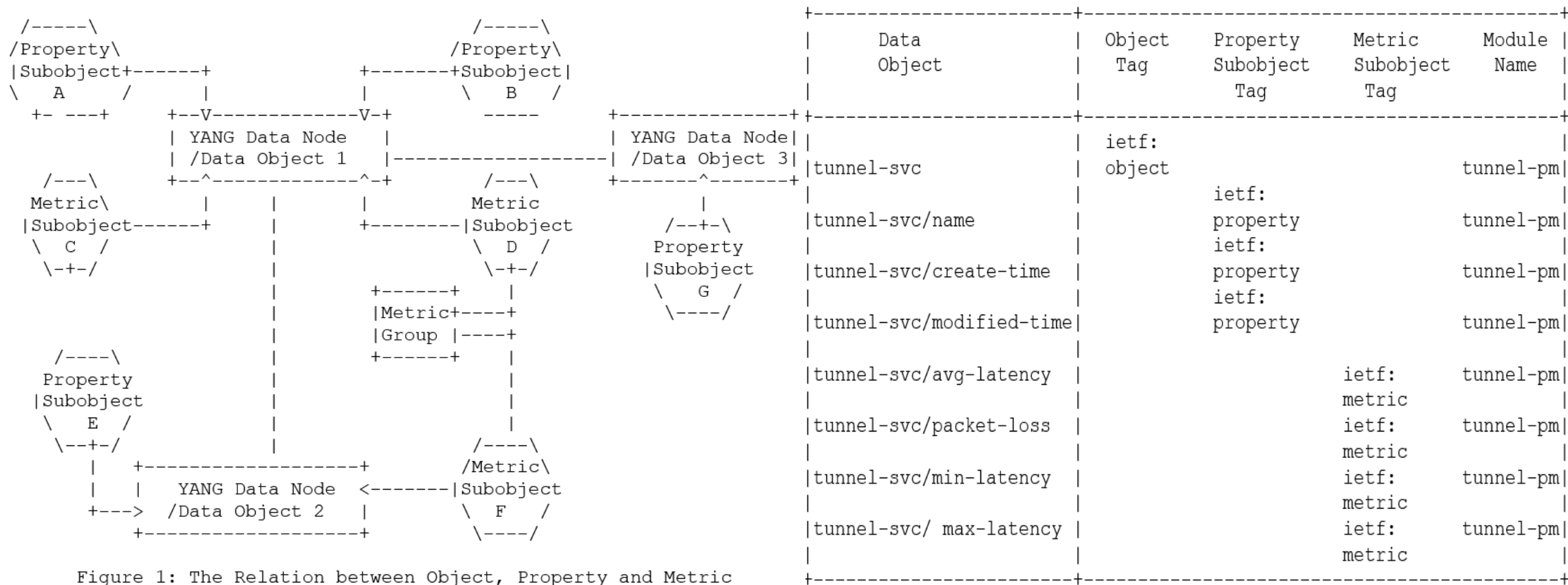
- The use of tags for classification and organization is fairly ubiquitous not only within IETF protocols, but in the internet itself (e.g., "#hashtags")
 - Module Tag defined in [I.D-ietf-netmod-module-tags] provides YANG modules classification and filter different discrete categories of YANG modules
 - Self describing Data Object Tags classify data objects from different YANG modules and identify characteristics data
- Self describing data object tags can be used in the streaming telemetry to reduce the amount of data exported to the destination.
- Self describing data object tags may be registered as well as assigned during the module definition; assigned by implementations; or dynamically defined and set by users.

Document Status

- Presented in NETMOD session 3 times (IETF106,IETF 107,IETF 108)
- IPR on draft-`tao-netmod-yang-node-tags` was issued in July 14 and has been disclosed in compliance with IETF IPR rules
- WG adoption call on draft-`tao-netmod-yang-node-tags-05` was issue in August 17 and got a lot of support,
 - Many thanks to Juergen Schoenwaelder □ Liu Peng, Duzhongpeng, Chang Liu, Paul, Wei Wang, YuanZhang, Lou Berger, YingzhengQu,
 - It was suggested by WG
 - Operation type definition should be specified in each device module definition
 - object-specific tags is interesting capability which provide general utility.
- Changes in v-06 since IETF 108
 - Remove operation-type extension statement together with metric-precision and metric-scale based on agreement during the first WG adoption call
 - Remove service-tag and task-tag extension statement since module tag can be reused
 - Rewrite the use cases section to clarify the Relation between Object, Property and Metric and opm tag usage.
 - Clean up YANG Data Object Tags Registry
 - Add one new coauthor Mohamed

OPM tag definition

- opm-tag extension statement is defined to
 - Classify management and operation data into object, property subobject and metric subobject three categories.



Issue: Context Information tag

```
module: ietf-data-object-tags
augment /tags:module-tags/tags:module:
  +--rw data-object-tags
    +--rw data-object* [object-name]
      +--rw object-name      nacm:node-instance-identifier
      +--rw tag*             tags:tag
      +--rw masked-tag*      tags:tag
```

"ietf-data-object-tags" module
augments Module tag model and
provides tag management.

- In addition to opm-tag, two context information tags are introduced which can be used to correlate data object from different module
 - metric-group extension statement: Provide metric subobjects classification (e.g., loss, jitter, delay) within the YANG module.
 - multi-source-tag extension statement: Identify multi-source aggregation type (e.g., aggregated, non-aggregated) related to metric subobject.
- The metric-group tag and multi-source-tag will be maintained in the tag list under `/tags:module-tag/tags:module/ntags:data-object-tags/ntags:tag` and only use tag name to distinguish from each other.

Next Step

- Comments have been addressed
- Adopt it as WG work item?