

Yang data model for Terminal Access Controller Access Control System Plus

draft-zheng-opsawg-tacacs-yang

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Why this draft is needed?

- **Motivations**

- ietf-system.yang [RFC 7317] only covers Radius as the centralized authentication mechanism.
- This draft defines TACACS+ client YANG model based on the TACACS+ Protocol draft to augment the system YANG.
 - TACACS+ authentication method which is widely used;
 - the authorization and accounting properties is missing.
- Having a standardized model makes life much easier for operators

- **Draft background**

- Initially proposed in Netmod
- Model re-structure based on comments received from Netmod list.

```
+--rw system
  +--rw authentication
    +--rw user-authentication-order*
    +--rw user* [name]
      +--rw name          string

+--rw system
  +--rw radius
    +--rw server* [name]
```

tacacs

Not support yet!

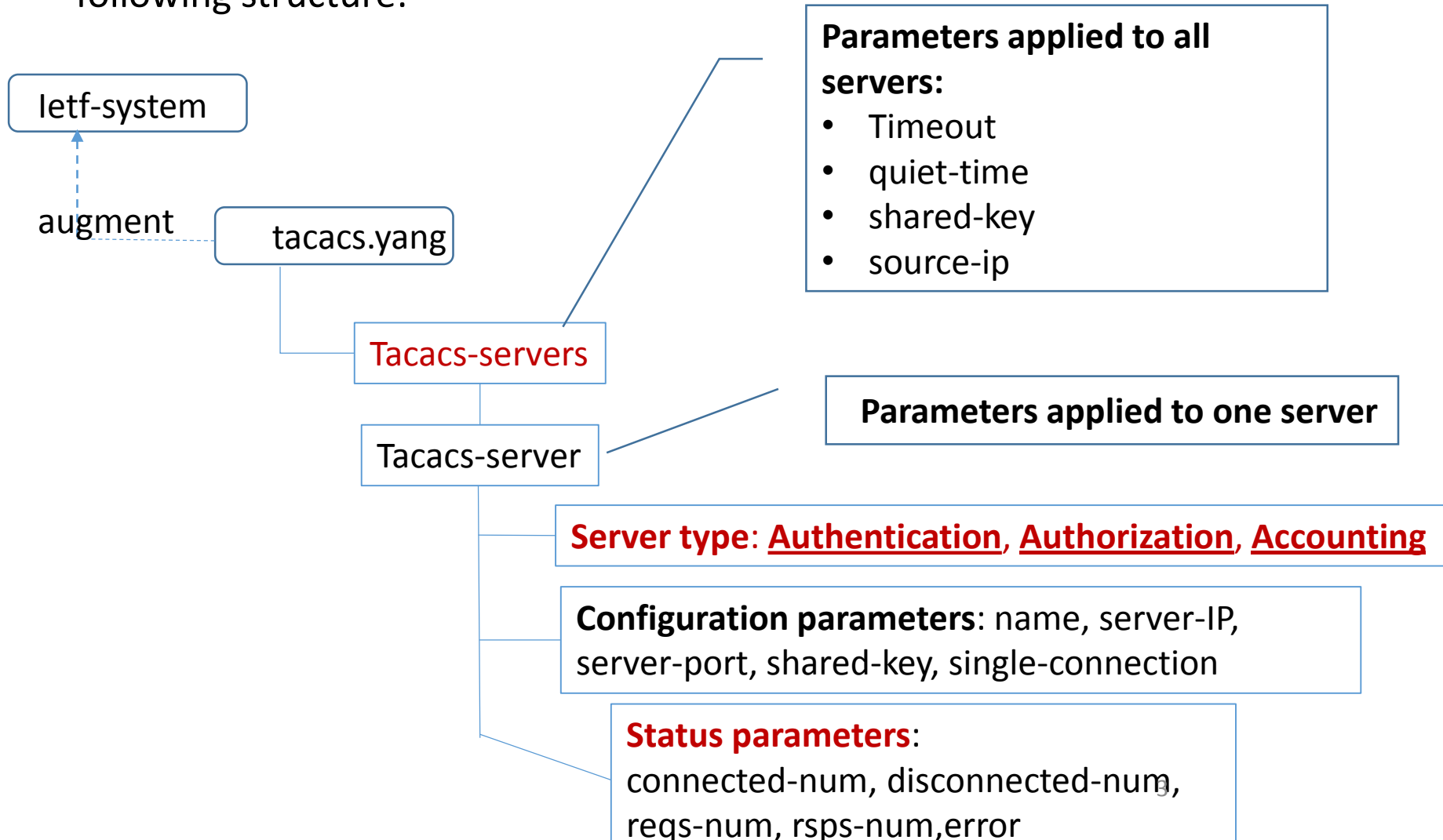
authorization

accounting

Missing

Tacacs+ client model Overview

- Augments RFC 7317 (system management)
- The data model for configuration of the TACACS+ client has the following structure:



Solicit help from WG

- Please read and comment whether this model can cover your Implementation requirement of Tacacs+ client Netconf configuration.

Backup slides

Current Structure (system augmentation)

module: ietf-tacacs

augment /sys:system:

+-rw tacacs {tacacs}?

+-rw enable? boolean

+-rw tacacs-servers

+-rw timeout? uint32

+-rw quiet-time? uint32|

+-rw shared-key? password-extend

+-rw source-ip? inet:ip-address

+-rw tacacs-server+ [name]

+-rw name string

+-rw server-ip? inet:ip-address

+-rw server-type? server-type

+-rw network-instance? -> /ni:network-instances

/network-instance/name

+-rw server-port? uint32

+-rw single-connection? boolean

+-ro server-state? server-state

+-ro current-srv? boolean

+-rw shared-key? password-extend

+-ro authen-srv-connected-num? uint32

+-ro authen-srv-disconnected-num? uint32

+-ro authen-reqs-num? uint32

+-ro authen-rsps-num? uint32

+-ro authen-errors? uint32

+-ro author-srv-connected-num? uint32

+-ro author-srv-disconnected-num? uint32

+-ro author-reqs-num? uint32

+-ro author-rsps-num? uint32

+-ro author-errors? uint32

+-ro acct-reqs-num? uint32

+-ro acct-rsps-num? uint32

+-ro acct-srv-connected-num? uint32

+-ro acct-srv-disconnected-num? uint32

+-ro account-rsp-err? uint32

rpcs:

+-x rest-all-statistics

+-x reset-authen-statistics|

+-x reset-author-statistics

+-x reset-account-statistics

+-x reset-common-statistics