

Yang data model for Terminal Access Controller Access Control System Plus

draft-zheng-netmod-tacacs-yang

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Why this draft

- **Motivations**

- Existing ietf-system.yang [RFC 8344] covers basic user authentication properties on system management. But it does not cover:
 - TACACS+ authentication method which is widely used;
 - the authorization and accounting properties.
- Vendors develop their private TACACS+ YANG, which may cause some problems:
 - Service provider may need to implement several TACACS+ YANG modules to manipulate massive devices.

- **Objective**

- Defines a data model of Terminal Access Controller Access Control System Plus (TACACS+).
 - extract some common properties including with common configuration properties and operational state data.

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

authorization

accounting

Missing !

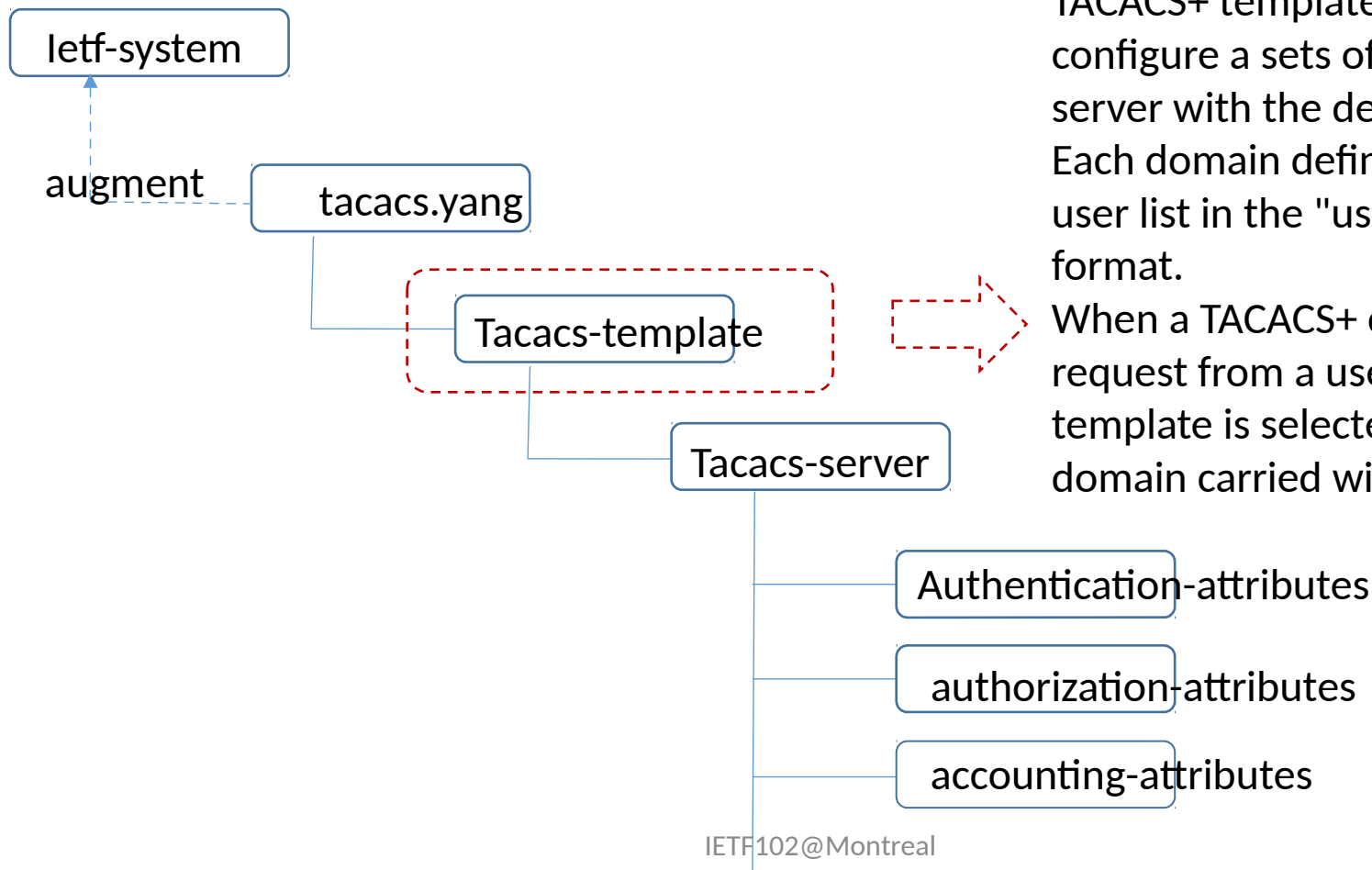
```
+--rw system
  +--rw radius
    +--rw server* [name]
```

tacacs

Not support yet!

Solution Overview

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



TACACS+ template is used to configure a sets of TACACS+ server with the defined domain. Each domain defined maintains a user list in the "user@domain" format.

When a TACACS+ client receives a request from a user, the TACACS+ template is selected based on the domain carried with the user.

Comments

- *Thanks Alex Campbell valuable comments*
 - Comments to the structure:
 - TACACS+ template
 - Separate lists for ipv4 and ipv6 servers
 - Primary/secondary server
 - Operational statistic leaves
 - Comments to server attributes
 - Server IP use ipv4-address-no-zone
 - Public net attribute
 - letf-network-instance attribute

Next steps

- The authors appreciate thoughts, feedback, and text on the content of the documents.
- And then prepare another version.

Thanks