Yang data model for TACACS+

draft-ietf-opsawg-tacacs-yang-00

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Overall changes

- Keep only the "tacacsplus" model – comments from chair Joe and Alan DeKok
- Model refinement - comments from chair Joe, Alex Campbell

```
module: ietf-system-tacacsplus
augment /sys:system:
  +++ rw tacacsplus [tacacsplus]?
  +--- rw server# [name]
  +--- rw name
  +--- rw server-type?
  +--- rw address
  +--- rw port?
  +--- rw shared-secret
  +--- rw (source-type)?
    +--- rw source-ip?
    +++ rw source-interface
    +--- rw source-interface?
    +--- rw vrf-instance?
  +--- ro statistics
    +--- ro connection-opens?
    +--- ro connection-closes?
    +--- ro connection-aborts?
    +--- ro connection-failures?
    +--- ro connection-timeouts?
    +--- ro messages-sent?
    +--- ro messages-received?
    +--- ro errors-received?
```

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Issues 1-
Downref TACACS+ Protocol

• Eliot’s comment
  • If this draft is targeted as a standard track and needs to downref TACACS+ protocol (current version is informational), based on RFC 8067, this requires the chairs and Ignas' discussion
Issues 2-
Model extension for TACACS+ / TLS

• Eliot’s comment
  • Does TACACS+ / TLS affect model structure?

• Options
  • Next revision: an augmentation or even a bis to this model
    • The current model defines the state and configuration of the TACACS+ connection and is unlikely to change too much.
    • Or add a transport choice for flexibility

```
  ---rw (transport)
  |   +++:(tcp)
  |    ---rw tcp
  |    |     ---rw address    inet:host
  |    |     ---rw port?      inet:port-number
  |    |     ---rw shared-secret string
```
Issues 3-
ietf-system “user-authentication-order”

• Ebben’s comment
  • System-authentication can be only configured with local authentication and radius authentication. If add tacacsplus authentication,
    • 'tacacsplus-authentication' feature
    • 'tacacsplus' identity
    • system-authentication: user-authentication-order

• Two options:
  • Propose a system-aaa augmentation draft in Netmod WG?
  • Add a section to give example for augmentation?
Issues 4- Session counter

• Comment from John Heasley
  • Tacacs+ session counter is different from “connection-opens” counter. If single-connection, a single-connection tacacs+ connection may be >1 sessions

• Add “sessions” counter?
Next Steps

• Resolve the comments from John Heasley.
• Further comments and suggestions are welcome.
Model augmentation option

- ietf-system-tacacsplus
- ietf-system-aaa
  - Extend user authentication to support tacacsplus authentication method configuration
  - Add User Authorization and user accounting