

# **NETCONF ACCOUNTING**

## **DRAFT-MAHESH-NETCONF- ACCOUNTING-03**

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# INTRODUCTION

- Last A(ccounting) in AAA
- Defines YANG model for Accounting

# CHANGES SINCE -01

- **Modification to accounting record**
- **default-deny-all**
- **Interaction with AAA server**
- **Added value definition**
- **Added examples**

# DEFAULT-DENY-ALL

- Added default-deny-all to protect records

# MODIFICATION OF RECORD

- Dropped accounting START/STOP code
  - Implementations that need fragmentation can add it.
- Added message-id with a session-id
  - Added message-id to the key list.
  - Multiple messages can be exchanged as part of given session

-02

Acct-code	Date-time	Src-ip	Session-id	Task-id	user	groups	action	rule	status
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-03

Message-id	Session-id	Src-ip	Date-time	user	groups	rule	Data-node	value	action	status
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# MODIFICATION OF RECORD (CONT).

- Added value field
  - <get>
    - What was requested
    - E.g. filter parameter
    - Does not capture response
  - <edit-config>
    - Values for the node

Messa ge-id	Sessio n-id	Src-ip	Date- time	user	groups	rule	Data- node	value	action	status
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# EXAMPLES

- `<edit-config>`
- `<get>`
  - Request
  - Response
- NACM rule for Accounting
  - `default-deny-all`
  - Explicit rule for “root” user

# TREE DIAGRAM

module: ietf-netconf-am

+--rw nam

+--rw enable-nam?

+--ro accounting-record\* [session-id message-id]

+--ro message-id uint32

+--ro session-id? nc:session-id-type

+--ro date-time yang:date-and-time

+--ro src-ip inet:ip-address

+--ro group nacm:group-name-type

+--ro user? nacm:user-name-type

+--ro rule? string

+--ro data-node nacm:node-instance-identifier

+--ro action nacm:access-operations-type

+--ro status? nacm:action-type



# NEXT STEPS

- **WG adoption?**

# Q&A

# BACKUP SLIDES

# INTERACTION WITH RADIUS

- **RFC 7499 – Support of Fragmentation of RADIUS packets**
  - Fragmentation of authorization data
- **RFC 7930 – Larger Packets for RADIUS over TCP**
  - Experimental Draft
  - Extends RFC 6613 – RADIUS over TCP
  - RADIUS-over-TCP experiment