

# Transaction ID Mechanism for RESTCONF

draft-al-netconf-restconf-transaction-id-00

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# Intro

- draft-ietf-netconf-transaction-id
  - Transaction ID Mechanism for NETCONF
  - Defines a rudimentary solution for RESTCONF
- This document defines a solution in parity with NETCONF

# Solution

- Supply txid as payload attribute
- Supply default txid as HTTP ETag header or use HTTP Last-Modified header
- Conditional application of requests with HTTP If-Match header

# Txid as payload attributes

```
<acls xmlns="urn:ietf:params:xml:ns:yang:ietf-access-control-list"
      xmlns:txid="urn:ietf:params:xml:ns:yang:ietf-netconf-txid"
      txid:etag="5152">
  <acl txid:etag="4711">
    <name>A1</name>
    <aces>
      <ace>
        <name>R1</name>
        ...
      </ace>
    </aces>
  </acl>
  <acl txid:etag="5152">
    <name>A2</name>
    <aces>
      <ace>
        <name>R7</name>
        ...
      </ace>
    </aces>
  </acl>
</acls>
```

# Using HTTP headers

- HTTP ETag txid value is used as default value if nodes don't have an explicit txid attribute
- HTTP If-Match header
  - State changing HTTP methods (POST, PUT, DELETE, and PATCH)
  - Reject entire request if txid values (header or attributes) don't match

# Next steps

- This work should enable draft-netconf-transaction-id to progress
  - Txid is implementable for RESTCONF
- WG to adopt this work if solution is needed and wanted
- Gather WG feedback when defining the solution

Thank you!

Questions?