

NETCONF

Transaction ID

2021-11-08

IETF 112

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Past Work

Presented -00 at IETF 109

Calculation based on
"real world" trace data

- 91% of traffic: YANG 1.0 <hello/>
- 569 => 378 roundtrips, down 34%
- 1002 kB => 547 kB, down 45%
- Real value: Reliability

Changes from -00 to -01

- Clarified text on numerous points based on mailing list feedback
- Restructured into general/etag specific
- Some name changes
- Harmonized slightly with RFC 7232 and RFC 8040
- Removed all text discussing etag values provided by the client
- Added substitute mechanism for server to return chosen etag
- Added discard-changes, commit, etc.
- Added IANA Considerations

Open Questions, 1/2

Etag Assignment

- RFC 8040/ RFC 7232 sec 2.3
 - Increasing integer
 - Up to server

Etag Format (length, ...?)

- Mostly unspecified

Timestamps (RESTCONF has this)

- Only by proprietary extension
 - Optional for server, optional for client
 - Mandatory for server, optional for client

Allow Client to Assign Etag

- Only by proprietary extension
 - Optional for server, optional for client
 - Mandatory for server, optional for client

Allow Client to Label Transaction

- Only by proprietary extension
 - Optional for server, optional for client
 - Mandatory for server, optional for client

Open Questions, 2/2

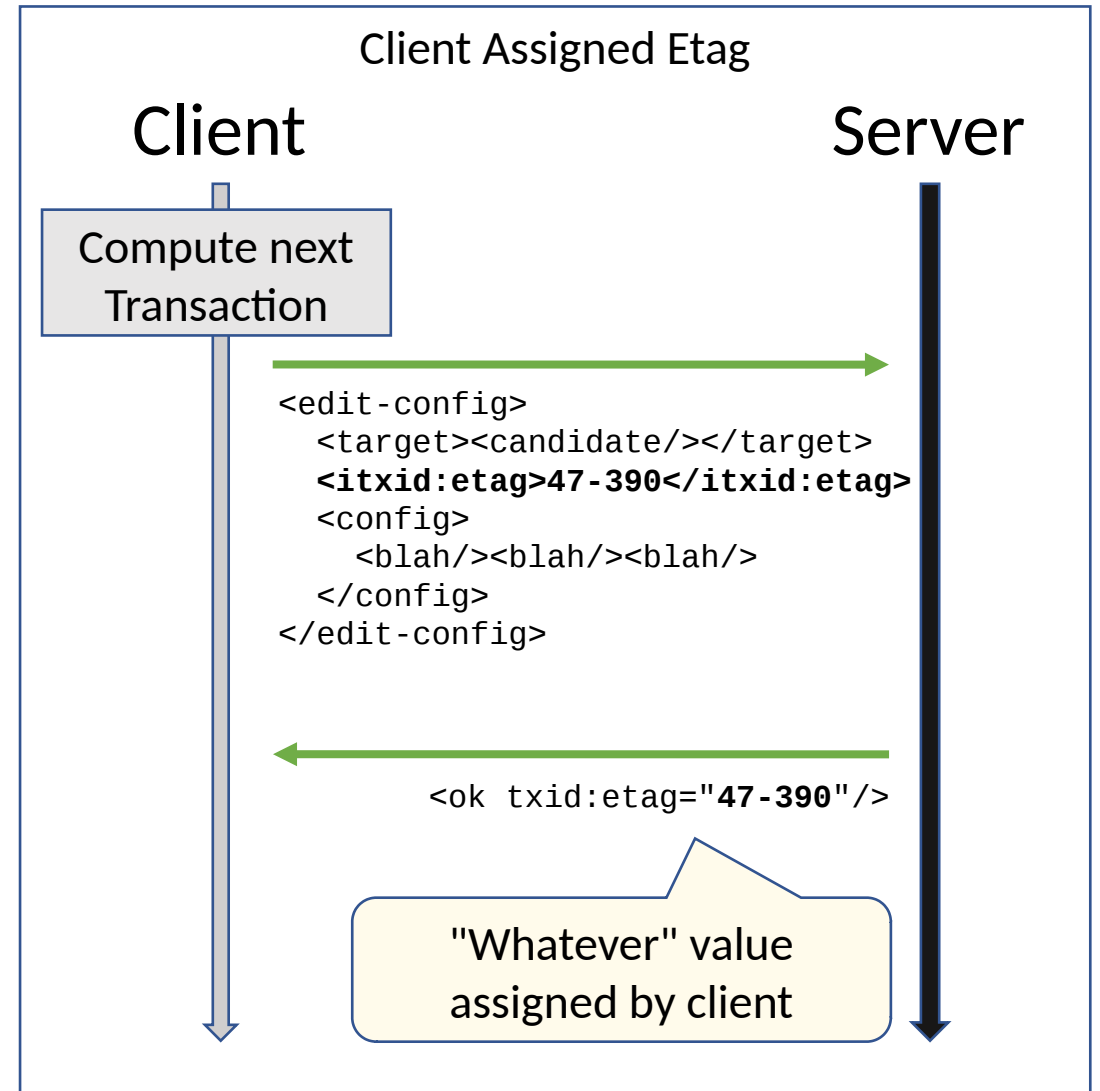
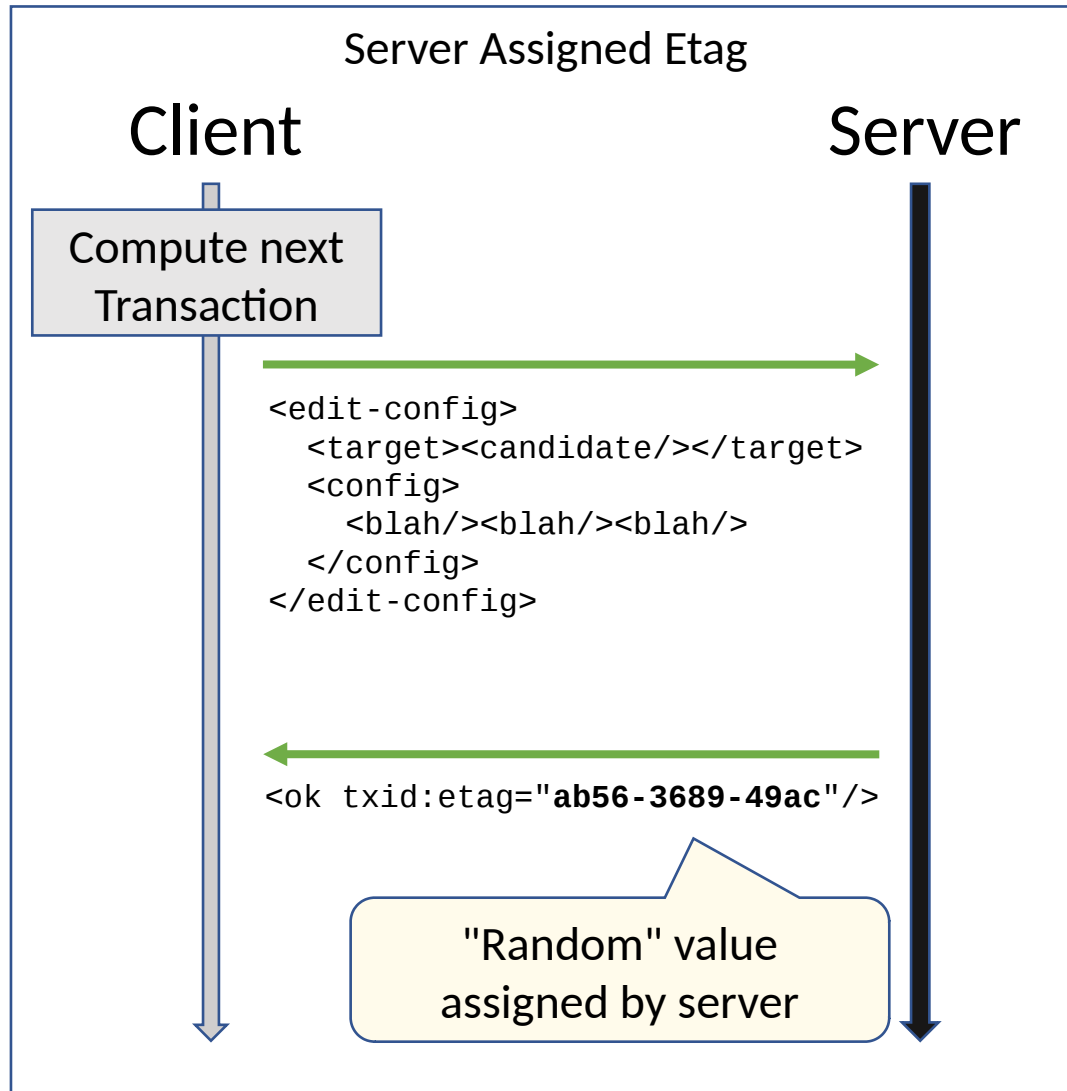
Granularity

- Datastore top-level only
- Datastore plus server picks some containers and list elements
- Datastore plus server picks any elements
- Client decides in run-time

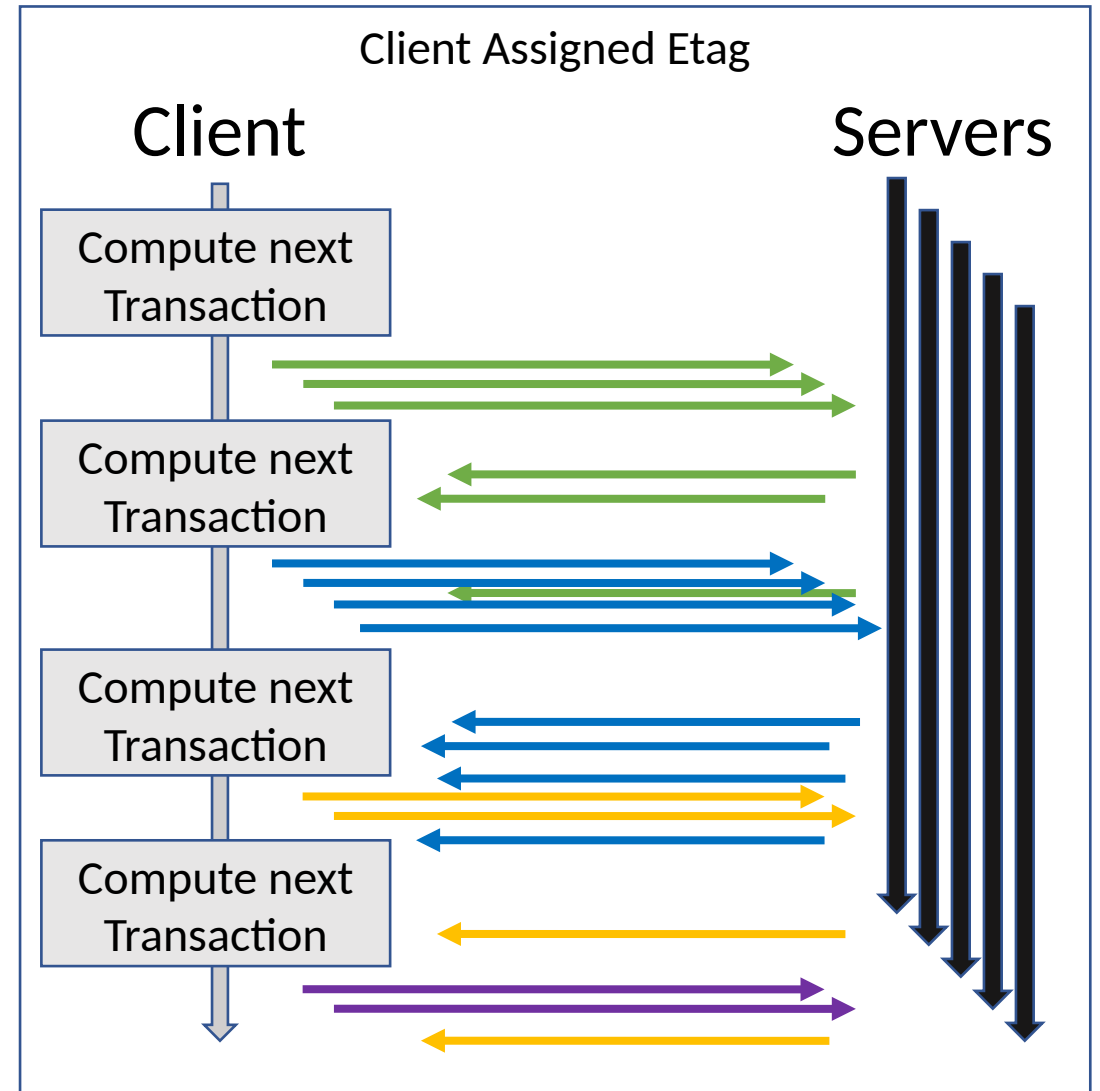
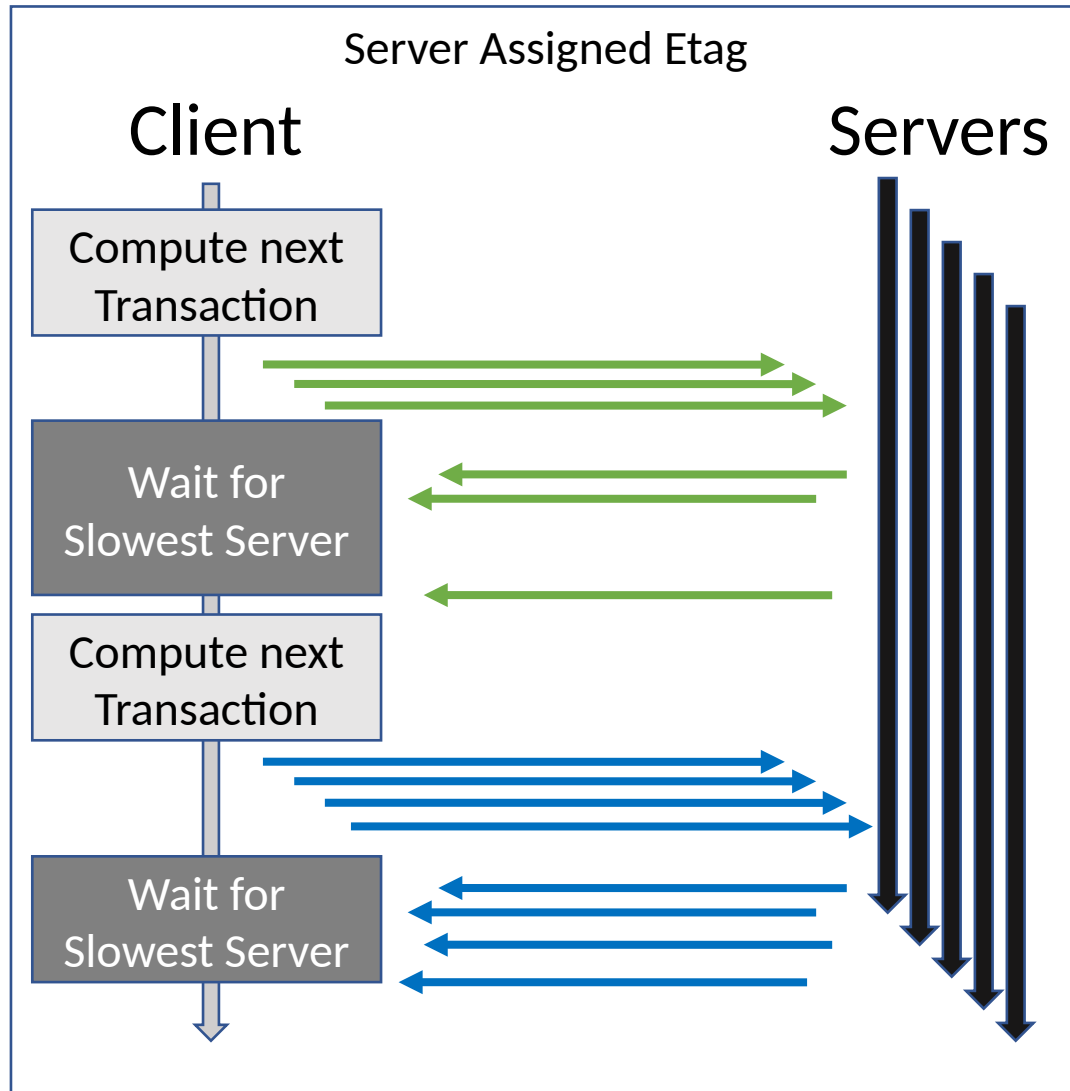
Further Development

- Indicate versioned elements using system capabilities?
- Develop for config false?
- Eliminate need for locking, i.e. Etag for commit operation?

Allow Client to Assign Etag: Low Cost



Allow Client to Assign Etag: High Value



Future Work

Would an interim be helpful?