Comparison of NMDA datastores
draft-clemm-netconf-nmda-diff-03

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Updates from IETF 101

- This draft defines an RPC that allows to compare NMDA datastores
  - Report only discrepancies without needing to upload entire datastores
  - Use to troubleshoot conditions due to unexpected failures or time lags of change propagation
- Rev -03 posted today after discussion on the mailer
- Changes since -01
  - Added examples
  - Renamed draft to "Comparison of NMDA datastores" (from "Discrepancy detection between …")
  - Moved dampening feature to new "possible future extensions" section
    - Dampening was a conditional feature before
    - Useful to avoid reporting of "fleeting" differences:
      Hold back reporting results for a dampening time period to see if differences persist
    - Now moved to "possible future extensions"
    - Updated YANG data model accordingly
  - Mentioned possibility of prefiltering step to exclude data not within scope of both datastores
    - Consider ease of implementation, requirement for clients to be aware of context, availability of filters

Next steps

- Confirm removal of dampening as a feature
- Add reporting of origin discrepancy
  - Example: object in <intended> but <operational> indicated origin of <system>
- WG adoption

Thank you!

Module ietf-nmda-compare

```
module: ietf-nmda-compare

  rpcs:
   +---x compare
      +---w input
      |  +---w source        identityref
      |  +---w target        identityref
      |  +---w (filter-spec)?
      |  |  +--:(subtree-filter)
      |  |  |  +---w subtree-filter?   <anydata>
      |  |  +--:(xpath-filter)
      |  |     +---w xpath-filter?    yang:xpath1.0 {nc:xpath}?
      |  +---w dampening?      yang:timeticks {cmp-dampening}?
      +--ro output
         +--ro differences
```

REMOVED

Optional. Allows to specify for how long a discrepancy must persist for it to be reported. Output response is deferred accordingly.