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)?
  | | | | ---w subtree-filter?
  | | | | ---w xpath-filter?
  | | | | | +++-w xpath-filter? yang:xpath1.0 {nc:xpath}?
  | | | | +++-w dampening? yang:timeticks {cmp-dampening}?
  +++-ro output
  +++-ro differences

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