

Comparison of NMDA datastores

draft-clemm-netmod-nmda-diff-00

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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
- Succeeds and replaces draft-clemm-netconf-nmda-diff-03
 - Moved to Netmod from Netconf (this specifies a YANG data model)
- Changes from the earlier revision
 - Prefiltering step to exclude data whose schema node is not within scope of both datastores as default
 - Origin metadata included in comparison
 - Examples

Module ietf-nmda-compare

rpcs:

```
+---x compare
+---w input
| +---w source      identityref
| +---w target      identityref
| +---w all?        empty
| +---w (filter-spec)?
|   +--:(subtree-filter)
|     | +---w subtree-filter? <anydata>
|     +--:(xpath-filter)
|       +---w xpath-filter? yang:xpath1.0 {nc:xpath}?
+---ro output
+--ro (compare-response)?
+--:(no-matches)
| +--ro no-matches? empty
+--:(differences)
+--ro differences
+--ro yang-patch
+--ro patch-id string
+--ro comment? string
+--ro edit* [edit-id]
+--ro edit-id string
+--ro operation enumeration
+--ro target target-resource-offset
+--ro point? target-resource-offset
+--ro where? enumeration
+--ro value? <anydata>
```

*Flag to indicate all differences
vs only same schema nodes
as an option*

Difference reported per yang-patch

Next steps

- Request for WG adoption

Thank you!