

verify for NETCONF  
<draft-cole-netconf-verify-00.txt>  
<draft-cole-netconf-transaction-test-00.txt>

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# objectives and benefits

## Objectives:

- Place Verification testing on an equal footing with Validation checking within NETCONF operations.
  - Validation - checking against a set of rules, e.g., all checks prior to moving configuration to <running/>.
  - Verification - measuring behavior (of <running/>) against expectations.

## Benefits:

- Improve robustness by minimizing faulty configuration,
- Minimize disconnects in networks with no 'out-of-band' access, e.g., MANETs or DTNs.
- Opportunity for device modelers to associate/recommend tests tied to specific configuration items.

## changes → verify-00 and transaction-test-00

- New <ietf-cole-netconf-verify-00> and <ietf-cole-netconf-transaction-test-00> drafts.
- Basic operations roughly unchanged.
- Verify draft short and to the point - developing verify through the definition of the 'verify.yang' module.
- Transaction draft defines a general set of transaction tests in support of the verify capability.
- transaction.yang relies upon URLs to define the transaction.

## Issues

- I rushed the submission of the verify.yang and transaction.yang modules and Andy has found numerous errors that I need to correct, i.e.,
  - Have a list of changes to the verify.yang module, e.g., 'agent' -> 'server' everywhere, update dates, not a new capability, etc.
  - Have alot of syntax changes required in the transaction.yang module and need to update and run through validator prior to next submission.
  - Will rev these within the week back in the office.
- How to construct a general and extensible test.yang module?
  - Is a reliance upon URLs a good start?
- The test targets are 'pre-coded' into the transaction.yang module - can we develop a means to automatically discover the right targets?
  - Can we make device configuration automatically aware of network location and significance?

# comments/questions

## Comments?

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## Next Steps?

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