

draft-ietf-netconf-server-model-04

NETCONF Server Configuration Model

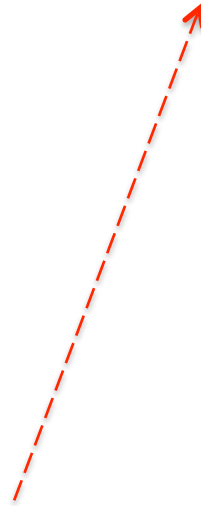
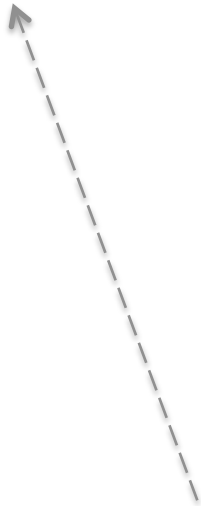
<https://github.com/netconf-wg/server-model>

Relationship to other WG documents

RFC 6242
(SSH)

RFC 5539 bis
(TLS)

draft-ietf-netconf-call-home



} Dependency on
these drafts
completing

draft-ietf-netconf-server-model

Updates since IETF 90

- Added to the Objectives section the need to support specifying which server key(s) to use, how to authenticate client-certificates, and how to map authenticated client-certificates to NETCONF usernames
- Added to the data-model the ability for listen/call-home instances to specify which host-keys and/or certificates to use
- Brought back the TLS client auth model (includes cert-maps)
- Removed the "one-to-many" construct
- Removed "address" as a key field
- Removed the "network-manager" terminology
- Reduced the number of grouping statements
- Removed psk-maps from model
- Clarified that the last-connected setting should span reboots
- Clarified support for indirect client certificate authentication
- Added keep-alive configuration for listen connections
- Added the /netconf-server/session-options subtree for global parameters
- Uses new YANG 1.1 feature statement syntax

Open Issues

<https://github.com/netconf-wg/server-model/issues>

Support SSH X.509-based client certs?

- Fact: client-certs are not required for NETCONF/SSH
 - Not even when server has a X.509-based host-key
 - No difference if a standard or a call-home connection
 - Standard password and public-key mechanisms work fine
- That said, it's likely that a server with a X.509-based host-key would also support clients having X.509 based certificates...
- Fairly easy addition: just add same client-auth container from “tls” tree to “ssh” tree
- WG opinion?

Support config of host-keys and certs?

1. Current draft assumes external generation of host-keys and certificates
 - Can / should we do more?
 - A model for configuring such things?
2. Related, current draft enables NETCONF server to report its host-keys and certificates (config false)
 - Is this out of place?
 - Should how user learns names be out of scope of this draft?

Next Steps

- Close previously mentioned open issues
- Make any other discovered needed changes
- Begin WGLC on server-model-05 (Dec 2014)
 - Along with dependencies 5539bis and zerotouch

Questions / Concerns / Suggestions ?