

# NETCONF WG

IETF 90 - Toronto, Canada  
TUESDAY, July 22, 2014  
1640-1840 EDT

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# Before we can start ...

We need:  
2 minute takers  
1 Jabber scribe

# Note Well

This summary is only meant to point you in the right direction, and doesn't contain all the details. Exceptions may apply. The IETF's IPR Policy is set forth in BCP 79; please read it carefully.

## **The brief summary:**

- ❖ **By participating with the IETF, you agree to follow IETF processes and policies.**
- ❖ **If you are aware that any contribution (something written, said, or discussed in any IETF context) is covered by patents or patent applications, you must disclose that fact.**
- ❖ **You understand that meetings might be recorded or broadcast (audio or video), photographed, and publicly archived.**

For further information, talk to a chair, ask an Area Director, or review the following:

BCP 9 (on the Internet Standards Process)

BCP 25 (on the Working Group processes)

BCP 78 (on copyright in IETF documents)

BCP 79 (on patents covering IETF documents)

# Agenda

## Chartered items:

1. Reverse Secure Shell (Reverse SSH) - K. Watsen (15 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-reverse-ssh>
2. NETCONF Over TLS update - RFC 5539bis - J. Schoenwaelder (10 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-rfc5539bis>
3. NETCONF Server Configuration Model - K. Watsen (15 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-server>
4. RESTCONF Protocol - A. Bierman (15 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-restconf>
5. YANG Patch Media Type - A. Bierman (10 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-yang-patch>
6. Zero Touch Provisioning for NETCONF Call Home (ZeroTouch) - K. Watsen (20 min.)  
<http://tools.ietf.org/html/draft-ietf-netconf-zerotouch>

## Non-Chartered items:

1. I2RS Requirements on NETCONF - Jeff Haas (10min.)
2. A NETCONF Extension for Data Fragmentation - G. Zheng (10 min.)  
<http://tools.ietf.org/html/draft-liu-netconf-fragmentation>
3. Multi-Instances Configuration Issue in NETCONF - G. Yan (10 min.)  
<http://tools.ietf.org/html/draft-liu-netconf-multi-instances>

# Status of chartered WG items (since London)

- NETCONF over SSH Call Home updated with version 05 (06 **posted yesterday**):
  - Change requested port name to "netconf-ssh-ch"
  - Changed title to "NETCONF Call Home using SSH"
  - Changed "Reverse SSH" to "Call Home" everywhere
  - Abstract and Introduction sections updated for clarity
- NETCONF Over TLS - RFC 5539bis updated with version 05:
  - Implementation effort end of March 2014
  - Issue discussion on the mailing list will continue today.

# Status of chartered WG items (Ctd.)

- NETCONF Server Configuration Model
  - Restructured YANG module
  - Added "Keep-Alives for SSH and TLS"
  - Added support for Virtual Routing and Forwarding via augments
  - Added the "ietf-system-tls-auth" module
  - Added trusted-ca-certs and trusted-client-certs objects
- RESTCONF Protocol
  - added RESTCONF Path Resolution section
  - added an "error" media type to for structured error messages
  - added Secure Transport section requiring TLS
  - added Security Considerations section
  - and others.

# Status of chartered WG items (Ctd.)

- YANG Patch Media Type
  - Protocol Independence, location leaf removed
  - Others declared as non-issue,
  - Open: Should YANG Patch be mandatory?
- Zero Touch Provisioning for NETCONF Call Home
  - Added a Use Cases section,
  - Removed support for physical presence
  - Defined the ZeroTouch Information as DHCP option
  - Added an ability for devices to also download images
  - Added an ability for Configlets to be encrypted
  - Configuration Servers can only support HTTP/S.

# Open mic/AOB

- Open mike
- AOB
  - Status of pending drafts:
    - draft-bierman-netconf-efficiency-extensions
    - draft-varga-netconf-exi-capability
    - draft-fa-netconf-dhcpv6-option
    - draft-mm-netconf-time-capability