

Network Configuration
Internet-Draft
Intended status: Standards Track
Expires: 20 March 2026

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16 September 2025

Updates to NETCONF Transport Port Numbers
draft-ietf-netconf-port-numbers-07

Abstract

This document releases NETCONF-related port number IANA assignments for services that have not been in use in production networks.

Discussion Venues

This note is to be removed before publishing as an RFC.

Discussion of this document takes place on the Network Configuration Working Group mailing list (netconf@ietf.org), which is archived at <https://mailarchive.ietf.org/arch/browse/netconf/>.

Source for this draft and an issue tracker can be found at <https://github.com/boucadair/netconf-port-numbers>.

Status of This Memo

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1. Introduction

The "Service Name and Transport Protocol Port Number" registry [IANA-SERVICE] records several NETCONF-related port and service name assignments such as 830 for NETCONF over Secure Shell (SSH) [RFC6242], 831 for NETCONF over the Blocks Extensible Exchange Protocol (BEEP) [RFC4744], 832 for NETCONF over the Simple Object Access Protocol (SOAP) [RFC4743], 4334 for NETCONF Call Home [RFC8071], and 6513 for NETCONF over Transport Layer Security (TLS) [RFC7589][I-D.ietf-netconf-over-tls13].

However, three of these assignments (831, 832, and 833) are for protocols that are not deployed and were tagged as Historic ([RFC4743] and [RFC4744]). All these assignments are thus no longer required to support these services.

This document de-assigns these unused port numbers.

Consistent with Section 8.2 of [RFC6335], this document does not de-assign service names; only port numbers are de-assigned for better usage of available scarce resources.

2. Operational Considerations

There are no known implementations and deployments of protocols that rely upon the port numbers released back by this document.

Existing configurations (if any) that associate the released port numbers with the service names "netconf-beep" and "netconfsoaphttp" need to be reassessed and updated according to the actions in Section 4.

Other than that, there are no new operations or manageability requirements introduced by this document.

3. Security Considerations

This document does not describe any protocol. As such, this document does not introduce any new security vulnerability.

4. IANA Considerations

This document requests IANA to update the "Service Name and Transport Protocol Port Number Registry" registry [IANA-SERVICE] as specified in the following subsections.

De-assigned allocations are marked per Section 8.2 of [RFC6335]. These actions are not repeated here.

Note to the RFC Editor: Please replace "THIS_DOCUMENT" with the RFC number to be assigned to this document.

4.1. NETCONF over BEEP Service

OLD:

Service Name	Port Number	Transport Protocol	Description	Reference
netconf-beep	831	tcp	NETCONF over BEEP	[RFC4744]
netconf-beep	831	udp	NETCONF over BEEP	[RFC4744]

Table 1

NEW:

Service Name	Port Number	Transport Protocol	Description	Reference
netconf-beep			NETCONF over BEEP	[RFC4744] THIS_DOCUMENT

Table 2

A note can be added to 831 to indicate that the port number used to be assigned to NETCONF over BEEP but released by THIS_DOCUMENT.

4.2. NETCONF over SOAP Service

OLD:

Service Name	Port Number	Transport Protocol	Description	Reference
netconfsoaphttp	832	tcp	NETCONF for SOAP over HTTPS	[RFC4743]
netconfsoaphttp	832	udp	NETCONF for SOAP over HTTPS	[RFC4743]
netconfsoapbeep	833	tcp	NETCONF for SOAP over BEEP	[RFC4743]
netconfsoapbeep	833	udp	NETCONF for SOAP over BEEP	[RFC4743]

Table 3

NEW:

Service Name	Port Number	Transport Protocol	Description	Reference
netconfsoaphttp			NETCONF for SOAP over HTTPS	[RFC4743] THIS_DOCUMENT
netconfsoapbeep			NETCONF for SOAP over BEEP	[RFC4743] THIS_DOCUMENT

Table 4

A note can be added to 832/833 to indicate that the port numbers used to be assigned to NETCONF over SOAP but released by THIS_DOCUMENT.

5. References

5.1. Normative References

- [RFC6335] Cotton, M., Eggert, L., Touch, J., Westerlund, M., and S. Cheshire, "Internet Assigned Numbers Authority (IANA) Procedures for the Management of the Service Name and Transport Protocol Port Number Registry", BCP 165, RFC 6335, DOI 10.17487/RFC6335, August 2011, <<https://www.rfc-editor.org/rfc/rfc6335>>.

5.2. Informative References

- [I-D.ietf-netconf-over-tls13]
Turner, S. and R. Housley, "Updates to Using the NETCONF Protocol over Transport Layer Security (TLS) with Mutual X.509 Authentication", Work in Progress, Internet-Draft, draft-ietf-netconf-over-tls13-04, 18 January 2024, <<https://datatracker.ietf.org/doc/html/draft-ietf-netconf-over-tls13-04>>.
- [IANA-SERVICE]
"Service Name and Transport Protocol Port Number Registry", n.d., <<https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml>>.
- [RFC4743] Goddard, T., "Using NETCONF over the Simple Object Access Protocol (SOAP)", RFC 4743, DOI 10.17487/RFC4743, December 2006, <<https://www.rfc-editor.org/rfc/rfc4743>>.

- [RFC4744] Lear, E. and K. Crozier, "Using the NETCONF Protocol over the Blocks Extensible Exchange Protocol (BEEP)", RFC 4744, DOI 10.17487/RFC4744, December 2006, <<https://www.rfc-editor.org/rfc/rfc4744>>.
- [RFC6242] Wasserman, M., "Using the NETCONF Protocol over Secure Shell (SSH)", RFC 6242, DOI 10.17487/RFC6242, June 2011, <<https://www.rfc-editor.org/rfc/rfc6242>>.
- [RFC7589] Badra, M., Luchuk, A., and J. Schoenwaelder, "Using the NETCONF Protocol over Transport Layer Security (TLS) with Mutual X.509 Authentication", RFC 7589, DOI 10.17487/RFC7589, June 2015, <<https://www.rfc-editor.org/rfc/rfc7589>>.
- [RFC8071] Watsen, K., "NETCONF Call Home and RESTCONF Call Home", RFC 8071, DOI 10.17487/RFC8071, February 2017, <<https://www.rfc-editor.org/rfc/rfc8071>>.

Acknowledgments

Thanks to Amanda Baber and Zahed Sarker for the guidance. Thanks to Tom Petch for the comments.

Thanks to Kent Watsen for the Shepherd review, Mahesh Jethanandani for the AD review, Bernie Volz for the INTDIR review, Roni Even for genart review, Barry Leiba for ARTART review, Dhruv Dhody for the OPSDIR review, Michael T_端xen for TSVART review, and Joe Touch for the port review.

Thanks to Gorrry Fairhurst for the IESG review.

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