Network Configuration
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NETCONF Transport Port Numbers
draft-ietf-netconf-port-numbers-05

Abstract

This document releases NETCONF-related port number IANA assignments that have not stood the test of time (e.g., assignments for Historic NETCONF-related protocols or for a transport not used by a given NETCONF-related protocol).

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

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on 25 January 2026.

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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 are for protocols that are not deployed and were tagged as Historic ([RFC4743] and [RFC4744]). Also, one such assignment is for a transport protocol (i.e., UDP) for which the requesting application does not apply. All these assignments are undesirable.

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. As such, 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.

Unassigned 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 SSH Service

OLD:

Service Name	Port Number	Transport Protocol	Description	Reference
netconf-ssh	830	tcp	NETCONF over SSH	[RFC6242]
netconf-ssh	830	udp	NETCONF over SSH	[RFC6242]

Table 1

NEW:

Service Name	Port Number	Transport Protocol	Description	Reference
netconf-ssh	830	tcp	NETCONF over SSH	[RFC6242]

Table 2

A note can be added to 830/udp to indicate that the port number used to be assigned to NETCONF over SSH but released by THIS_DOCUMENT.

4.2. 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 3

NEW:

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

Table 4

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.

4.3. 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 5

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 6

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>.

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