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RFC 9900
Updates to NETCONF Transport Port Numbers

Abstract

This document releases IANA-assigned port numbers for services related to the Network Configuration Protocol (NETCONF) that have not been in use in production networks.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 7841.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at https://www.rfc-editor.org/info/rfc9900.

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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][NETCONF-over-TLS].

However, three of these assignments (831, 832, and 833) are for protocols that are not deployed, and the relevant RFCs ([RFC4743] and [RFC4744]) have been marked Historic. 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

Per this document, IANA has updated the "Service Name and Transport Protocol Port Number 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.

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] RFC 9900

Table 2

A note has been added to 831 to indicate that the port number used to be assigned to NETCONF over BEEP but was released by RFC 9900.

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] RFC 9900
netconfsoapbeep			NETCONF for SOAP over BEEP	[RFC4743] RFC 9900

Table 4

A note has been added to 832 and 833 to indicate that the port numbers used to be assigned to NETCONF over SOAP but were released by RFC 9900.

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/info/rfc6335>.

5.2. Informative References

[IANA-SERVICE] IANA, "Service Name and Transport Protocol Port Number Registry", <https://www.iana.org/assignments/service-names-port-numbers>.

[NETCONF-over-TLS] 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>.

[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/info/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/info/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/info/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/info/rfc7589>.

[RFC8071] Watsen, K., "NETCONF Call Home and RESTCONF Call Home", RFC 8071, DOI 10.17487/RFC8071, February 2017, <https://www.rfc-editor.org/info/rfc8071>.

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