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Moving the Undeployed TCP Extensions RFC 1072, RFC 1106, RFC 1110, RFC 1145, RFC 1146, RFC 1379, RFC 1644, and RFC 1693 to Historic Status

Abstract

This document reclassifies several TCP extensions that have never seen widespread use to Historic status. The affected RFCs are RFC 1072, RFC 1106, RFC 1110, RFC 1145, RFC 1146, RFC 1379, RFC 1644, and RFC 1693.

Status of This Memo

This document is not an Internet Standards Track specification; it is published for informational purposes.

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1. Introduction

TCP has a long history, and several proposed TCP extensions have never seen widespread deployment. Section 5 of the TCP "roadmap" document [RFC4614] already classifies a number of TCP extensions as Historic and describes the reasons for doing so, but it does not instruct the RFC Editor and IANA to change the status of these RFCs in the RFC database and the relevant IANA registries. The sole purpose of this document is to do just that. Please refer to Section 5 of [RFC4614] for justification.

2. RFC Editor Considerations

Per this document, the RFC Editor has changed the status of the following RFCs to Historic [RFC2026]:

- [RFC1072] on "TCP Extensions for Long-Delay Paths"
- [RFC1106] and [RFC1110] related to the "TCP Big Window and Nak Options"
- [RFC1145] and [RFC1146] related to the "TCP Alternate Checksum Options"
- [RFC1379] and [RFC1644] on "T/TCP -- Extensions for Transactions Functional Specification"
- [RFC1693] on "An Extension to TCP : Partial Order Service"

3. IANA Considerations

IANA has marked the TCP options 6, 7, 9, 10, 11, 12, 13, 14, and 15 documented in [RFC1072], [RFC1146], [RFC1644], and [RFC1693] as "obsolete" in the "TCP Option Kind Numbers" registry [TCPOPTREG], with a reference to this RFC.

4. Security Considerations

As mentioned in [RFC4614], the TCP Extensions for Transactions (T/TCP) [RFC1379][RFC1644] are reported to have security issues [DEVIVO].

5. Acknowledgments

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6. References

6.1. Normative References

[RFC1072] Jacobson, V. and R. Braden, "TCP extensions for long-delay paths", RFC 1072, October 1988.

[RFC1106] Fox, R., "TCP big window and NAK options", RFC 1106, June 1989.

[RFC1110] McKenzie, A., "Problem with the TCP big window option", RFC 1110, August 1989.

[RFC1145] Zweig, J. and C. Partridge, "TCP alternate checksum options", RFC 1145, February 1990.

[RFC1146] Zweig, J. and C. Partridge, "TCP alternate checksum options", RFC 1146, March 1990.

[RFC1379] Braden, B., "Extending TCP for Transactions -- Concepts", RFC 1379, November 1992.

[RFC1644] Braden, B., "T/TCP -- TCP Extensions for Transactions Functional Specification", RFC 1644, July 1994.

[RFC1693] Connolly, T., Amer, P., and P. Conrad, "An Extension to TCP : Partial Order Service", RFC 1693, November 1994.

[RFC4614] Duke, M., Braden, R., Eddy, W., and E. Blanton, "A Roadmap for Transmission Control Protocol (TCP) Specification Documents", RFC 4614, September 2006.

6.2. Informative References

[DEVIVO] de Vivo, M., de Vivo, G., Koeneke, R., and G. Isern, "Internet Vulnerabilities Related to TCP/IP and T/TCP", ACM SIGCOMM Computer Communications Review (CCR), Vol. 29, No. 1, January 1999.

[RFC2026] Bradner, S., "The Internet Standards Process -- Revision 3", BCP 9, RFC 2026, October 1996.

[TCPOPTREG] Internet Assigned Numbers Authority (IANA), "TCP Option Kind Numbers", <http://www.iana.org>.

[TRILOGY] "Trilogy Project", <http://www.trilogy-project.org/>.

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