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K. Sarcar
Sun Microsystems, Inc.

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Additional Snoop Datalink Types

Status of this Memo

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Abstract

The snoop file format provides a way to store and exchange datalink layer packet traces. This document describes extensions to this file format to support new media.

1. Introduction

[RFC1761] defines the snoop file format used to store captured network packets for tools that capture, display, and interpret network traffic. The file format specifies a header containing the Datalink Type field that identifies the network's datalink type. This document defines new values for this field, as well as an IANA registry for future datalink types.

2. New Datalink Types

In addition to the Datalink Type codes listed in [RFC1761], this document defines the following type codes for the corresponding media:

Datalink Type	Code
Fibre Channel	16
ATM	17
ATM Classical IP	18
IP over Infiniband	26

The IP over Infiniband packet format is described in [IPoIB].

3. IANA Considerations

This document created a new IANA registry named "Snoop Datalink Types" to hold the various possible 32-bit (4 octet) snoop datalink types. This new registry holds the values previously defined in [RFC1761] and tabulated below:

Datalink Type	Code
IEEE 802.3	0
IEEE 802.4 Token Bus	1
IEEE 802.5 Token Ring	2
IEEE 802.6 Metro Net	3
Ethernet	4
HDLC	5
Character Synchronous	6
IBM Channel-to-Channel	7
FDDI	8
Other	9

Additionally, the new registry also holds the values defined above in section 2 of this document.

All new allocations and assignments to this registry starting from code 27 will follow the First Come First Served policy outlined in [BCP0026]. Type codes up to 26 not defined by this section of the document (10-15 and 19-25) are considered reserved.

4. Security Considerations

The addition of new datalink type codes to the existing file format poses no known security risks.

5. Acknowledgements

The author would like to thank Jim Carlson, Brent Callaghan, and Bill Strahm for meticulously reviewing this document.

6. References

6.1. Normative References

[RFC1761] Callaghan, B. and R. Gilligan, "Snoop Version 2 Packet Capture File Format", RFC 1761, February 1995.

[BCP0026] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 2434, October 1998.

6.2. Informative References

[IPoIB] Kashyap, V. and H.K. Chu, "IP encapsulation and address resolution over InfiniBand networks", Work in Progress, April 2003.

7. Author's Address

Kanoj Sarcar
Sun Microsystems, Inc.
14 Network Circle
Bldg 14, MPK14-333
Menlo Park, CA 94025

Phone: 1-650-786-4785
EMail: kanoj.sarcar@sun.com

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