

## Additional Snoop Datalink Types

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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<br>----- | Code<br>---- |
|------------------------|--------------|
| 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<br>----- | Code<br>---- |
|------------------------|--------------|
| 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.

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