



ETHERNET FRAMING

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REFERENCE

1 Ethernet Framing

1.1 Ethernet Framing Types

1.1.1 Ethernet II

The **en1** interface can be used for IP and IPX traffic. When using this interface, the following header information is added to the beginning of each data packet.

Destination MAC Address (6 bytes)	Source MAC Address (6 bytes)
Ethernet Type (2)	Data Field (≤ 500 bytes)

1.1.2 Ethernet LLC

The **en1-llc** interface can be used for X.25, IPX, and Bridging traffic. The following header is added to frames sent over this interface.

Destination MAC Address (6 bytes)				Source MAC Address (6 bytes)	
LLC Frame Length	Dest. LSAP	Source LSAP	LLC Control		
(2)	(1)	(1)	(1)		
Data Field (≤ 500 bytes)					

1.1.3 Ethernet SNAP

The **en1-snap** interface can be used for IP and IPX traffic. When using this interface, the following header is added to all frames.

Destination MAC Address (6 bytes)				Source MAC Address (6 bytes)		
LLC-Frame Length	Dest. LSAP	Source LSAP	LLC Control	0,0,0	Ethernet Type	
(2)	(1)	(1)	(1)	(3)	(2)	
	0xaa	0xaa	0x03			
Data Field (≤ 500 bytes)						

1.1.4 Novell 802.3

The **en1-nov802.3** interface is intended specifically for the IPX protocol. The following header is added to the beginning of IPX frames.

Destination MAC Address (6 bytes)		Source MAC Address (6 bytes)	
Frame Length (2)	IPX. Checksum (1) 0xffff	Data Field (IPX only) (≤ 500 bytes)	

1.1.5 Token Ring

The **en1-tr** interface is intended specifically for token ring

Destination MAC Address (6 bytes)				Source MAC Address (6 bytes)		
LLC-Frame Length (2)	Dest. LSAP (1) 0xaa	Source LSAP (1) 0xaa	LLC Control (1) 0x03	0,0,0 (3)	Ethernet Type (2)	
Data Field (≤ 192 bytes)						