

**AmigaMail**

**COLLABORATORS**

	<i>TITLE :</i> AmigaMail		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		March 14, 2022	

**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# AmigaMail

### 1.1 SANA-II Developer Support Package / ethernet.txt

```
** $Filename: ethernet.txt $  
** $Revision: 1.2 $  
** $Date: 92/01/10 15:18:46 $
```

```
#define S2WireType_Ethernet 1
```

```
ios2_DataLength:  
    valid ethernet packets have 64 to 1500 bytes of data.
```

#### Address format:

Ethernet addresses consist of 47 bits of address information and a 1 bit multicast flag. The standard for expressing ethernet addresses is as 6 bytes (octets) in the order in which the bytes are transmitted with the low-order bits in a byte transmitted first. The multicast flag bit is the least-significant bit of the first byte.

Ethernet addresses in a Sana2IOReq occupy the first 6 bytes of an address field in transmission order with the low-order bits in a byte transmitted first.

#### Station Address:

Each ethernet board must have a unique ethernet hardware address. Drivers will override any attempt to set the address to anything other than the ROM address.

#### Raw reads and writes:

6 bytes of destination address,  
6 bytes of source address,  
2 bytes of type,  
64 to 1500 bytes of data  
(followed by 4 byte CRC value covering all of the above  
which is hardware generated and checked, hence not included  
in even raw packets)

Multicast: Supported

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Broadcast: Supported

Promiscuous: Supported

Packet Type Numbers for Ethernet are assigned by:

Xerox Corporation  
Xerox Systems Institute  
475 Oakmead Parkway, Sunnyvale, CA 94086  
Attn: Ms. Fonda Pallone  
(408) 737-4652

Some Common Packet Type Numbers:

decimal	Hex	Description
-----	---	-----
000	0000-05DC	IEEE 802.3 Length Field
2048	0800	TCP/IP -- IP
2054	0806	TCP/IP -- ARP
32821	8035	TCP/IP -- RARP
32923	809B	Appletalk
33011	80F3	AppleTalk AARP (Kinetics)
33100	814C	SNMP
33079	8137-8138	Novell, Inc.