

Inter-Office Memorandum

To Communication Protocols Date August 12, 1983

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Subject Network Constants Organization CSL

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**Experimental (3MB) Ethernet Packet Types:**

Name	Packet Type (octal)
Peek Report	402
Breath of Life	602
Echo Me	700
Im An Echo	701
Pup datagram transport	1000
DOD IP datagram transport1001	
DOD IP address resolution (RFC 826)	1002
DOD IP host to Arpanet front-end	1004
Arpanet front-end to DOD IP host	1005
Ether MCA (obsolete)	2000
NS datagram transport	3000
48 to 8 translation	3001
Page Trailer (Bill Joy@Berkeley)	4000-4020
Trek	10000

**Well Known Pup Sockets:**

Name	Socket Number (octal)
Telnet	1
GateWay-Info	2
FTP	3
Misc-Services	4
Echo	5
BSP-Test	6
Mail	7
EFTP-Receive	20
Ears-Status	21
Statistics	22
CopyDisk	25
eventReport	30
printerReport	31
Juniper Pack Conversion	34
Juniper Event	35
RPCP	36
Clearinghouse	37
Librarian	41
WIFS	42
Leaf	43
TeleSwat	60
LookupFile	61
Juniper-Pine	100
WFS	420

**Pup Types: (0 - 177 Registered)**

Pup Type (octal)	Description
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1	Echo Me
2	I am Echo
3	I am Bad Echo
4	Error
5	Trace
10	RFC
11	Abort
12	End
13	End Reply
20	Data
21	AData
22	Ack
23	Mark
24	Interrupt
25	Interrupt Reply
26	AMark
30	EFTP Data
31	EFTP Ack
32	EFTP End
33	EFTP Abort

**Pup Types: (Unregistered) Listed by Socket Number when Known**

Socket	Pup Type (octal)	Description
GateWay-Info	200	Gateway Information Request
GateWay-Info	201	Gateway Information Reply
GateWay-Info	202	Gateway Information Error Reply
GateWay-Info	203	Gateway Information Statistics Request
GateWay-Info	204	Gateway Information Statistics Reply
Misc-Services	200	String Time Request
Misc-Services	201	String Time Reply
Misc-Services	202	Tenex Time Request
Misc-Services	203	Tenex Time Reply
Misc-Services	204	Alto Time Request (Old)
Misc-Services	205	Alto Time Reply (Old)
Misc-Services	206	Alto Time Request (New)
Misc-Services	207	Alto Time Reply (New)
Misc-Services	210	Mail Check Request (Msg)
Misc-Services	211	New Mail Reply
Misc-Services	212	No New Mail Reply
Misc-Services	213	Mail Check Error
Misc-Services	214	Mail Check Request (Laurel)
Misc-Services	215	Time Statistics Request
Misc-Services	216	Time Statistics Reply
Misc-Services	217	Lock Time Request
Misc-Services	220	Net Directory Name Lookup Request
Misc-Services	221	Net Directory Name Lookup Reply
Misc-Services	222	Net Directory Lookup Error
Misc-Services	223	Net Directory Address Lookup Request
Misc-Services	224	Net Directory Address Lookup Reply
Misc-Services	225	Net Directory Statistics Request
Misc-Services	226	Net Directory Statistics Reply
Misc-Services	227	Lock Time Reply
Misc-Services	230	Where Is User Request
Misc-Services	231	Where Is User Reply
Misc-Services	232	Where Is User Error Reply
Misc-Services	233	Boot Unlock Request
Misc-Services	234	Boot Unlock Reply
Misc-Services	235	Net Directory Lock Request
Misc-Services	236	Net Directory Lock Reply
Misc-Services	237	Net Directory Unlock Request
Misc-Services	240	Net Directory Version
Misc-Services	241	Send Net Directory
Misc-Services	242	Boot Lock Request
Misc-Services	243	Boot Lock Reply
Misc-Services	244	Boot File Request (MayDay)

Misc-Services	245	Boot Directory Request (Old)
Misc-Services	246	Boot Directory Reply (Old)
Misc-Services	247	Kiss Of Death
Misc-Services	250	User Authentication Request
Misc-Services	251	User Authentication Positive Reply
Misc-Services	252	User Authentication Negative Reply
Misc-Services	253	Boot Statistics Request
Misc-Services	254	Boot Statistics Reply
Misc-Services	255	Reset Time Request
Misc-Services	256	Reset Time Reply
Misc-Services	257	Boot Directory Request (New)
Misc-Services	260	Boot Directory Reply (New)
Misc-Services	261	Net Directory Unlock Reply
Misc-Services	262	Idle Request
Misc-Services	263	Idle Reply
Misc-Services	264	Microcode Request
Misc-Services	265	Microcode Reply
Misc-Services	266	Validate Recipient Request
Misc-Services	267	Validate Recipient Yes
Misc-Services	270	Validate Recipient No
Misc-Services	271	Who Am I (48 to 8 translation)
Misc-Services	272	Name to Cache Entry
Misc-Services	273	Address to Cache Entry
Misc-Services	274	Here is Cache Entry
Misc-Services	303	Sun Boot Request
Echo	200	Echo Statistics Request
Echo	201	Echo Statistics Reply
Statistics	200	Send Statistics Request
Statistics	201	Statistics Ack
Statistics	202	Statistics Nak
eventReport	240	Event Report
eventReport	241	Event Report Reply
TeleSwat	200	Store
TeleSwat	201	Fetch
TeleSwat	202	Go
TeleSwat	203	Go Reply
TeleSwat	204	Acknowledgement
LookupFile	200	Lookup File Request
LookupFile	201	Lookup File Reply
LookupFile	202	Lookup File Error Reply
Juniper-Pine	250	Pine Request
Juniper-Pine	251	Pine Result
Juniper-Pine	252	Pine Unsolicited
Juniper-Pine	253	Pine Custodian
Juniper-Pine	254	Pine Sync
Juniper-Pine	255	Pine Ack
Juniper-Pine	256	Pine Noop
WFS	200	WFS Get 1 FID
WFS	201	WFS Get 2 FIDs
WFS	204	WFS Expunge FID
WFS	206	WFS Get Map Table
WFS	207	WFS Reallocate FID
WFS	210	WFS Lock
WFS	211	WFS Unlock
WFS	220	WFS Read Page
WFS	221	WFS Write Page
WFS	231	WFS Read Page Map
WFS	232	WFS Deallocate Page
WFS	233	WFS Read Real Page
WFS	240	WFS Reset Last FID
WFS	250	WFS Get FID Status
WFS	251	WFS Set FID Status
WFS	277	WFS Ping WFS
WFS	300	WFS Ack
WFS	301	WFS Nak



Revision history:

Jon A. Hupp, July 17, 1979, initial creation  
Hal Murray, December 30, 1979, add Microcode Request/Reply, Echo Stats  
Ed Taft, February 8, 1980 1:40 PM add Validate Recipient  
Hal Murray, November 13, 1980 10:08 AM add Who Am I and 48 to 8 translation  
David Boggs, February 9, 1982 4:39 PM add Page Trailer  
Ed Taft, May 24, 1983 9:12 AM, add DOD IP address resolution, LookupFile Pup types  
David Boggs, July 9, 1983 10:19 PM Name lookup cache types  
Ed Taft, August 12, 1983 11:23 AM, add IP Arpanet front-end packet types