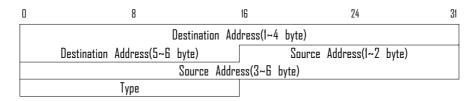
LPX(Lean Packet eXchange) Protocol Specification.

□□□ filld Big-endian(Network bill order)

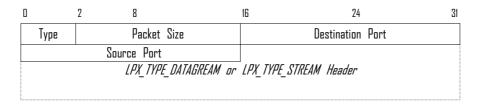
1. Ethernet Header



Type = 0x88ad

2. LPX Header structure.

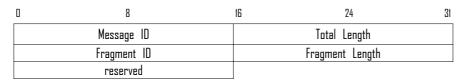
2.1. LPX Header.



Source Port = **DED** BD Port

10Bytes

2.2. DATAGRAM Type Header.



Message ID = Message ID

Total Length = Datagram $\Box\Box\Box$

Fragment ID = MessageOOOOMOOOOOOOOOO

Fragment Length = 00 000

2.3. STREAM Type Header.

0	8	16	24	31
	LSCTL		Sequence	
	ACK Sequence		Window Size	
	reserved			

LSCTL(Lpx Stream ConTrol Bits) =

 LSCTL_CONNREQ
 0x0001

 LSCTL_DATA
 0x0002

 LSCTL_DISCONNREQ
 0x0004

 LSCTL_ACKREQ
 0x0008

OOO I OO FE Fag OOOO 2 setting
ACKREOE FE FO FE StepupAce /

LSCTL_ACK 0x1000

Odd od a

Sequence = **å**t paæket sequence.

ACK Sequence = ACKO sequence.

ACK Sequence | ACKO | ACK | ACKO |

Sequence

ACKREQ

Window Size = **a® ₽**

3. Ethernet + LPX(Stream Type)

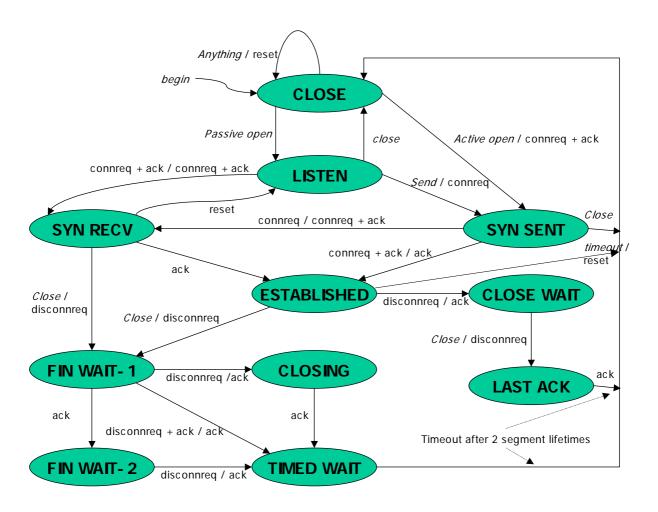
3.1. Datagram Type

0	8	16	24	31				
	Destination Address(1~4 byte)							
	Destination Address(5~6 byte)		Source Address(1~2 byte)					
Source Address(3~6 byte)								
	Type(Ethernet)	Туре	Packet Size					
	Destination Port		Source Port					
	Message ID		Total Length					
	Fragment ID		Fragment Length					
	reserved							

3.2. Stream Type

0	8	16	24	31			
Destination Address(1~4 byte)							
	Destination Address(5~6 byte)		Source Address(1~2 byte)				
Source Address(3~6 byte)							
	Type(Ethernet)	Туре	Packet Size				
	Destination Port		Source Port				
	LSCTL		Sequence				
	ACK Sequence		Window Size				
	reserved						

4. LPX Stream finite state machine

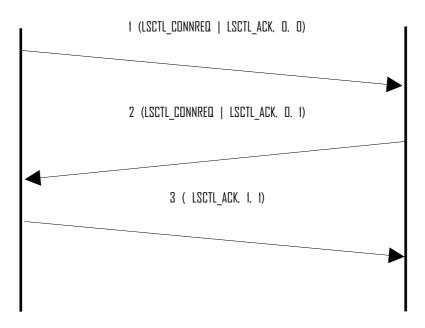


LanDiskD O ED O . O conneCtingO MAD isconnecting Host . LanDisk O connection O O D passive open .

5. Connecting

LPX StreamO connection O D D TCP O OOO M 3-way handshaking OHOST A DO HOST BO QOO BANDA neddtidda LPX Stream Type . LSCTL 00 06 0 10 10 10 10 (LSCTL,D **SMinhol**hce, A**CK** D Sequence) 0 flag 80 Qfar)M0 0 8 0 . 0 1000 0 0 A T20H sequence 100 | LSCTL_ACK, 100, 0), (LSCTL_CONNREQ (LSCTL_CONNREQ LSCTL_ACK, D, 101), (LSCTL_ACK, 101, 1) 0) 000 . LanDisk system ED EE D BAMAnDiBk EDD D D D E HOST B 0 . 0 0 Lan **QQL**k **BIO**STEN Ⅲ host (LSCTL_CONNREQ connection LSCTL_ACK)O **D GS**YN_**G**ECV **D** ESTABLISHED . 00

A TZOH



6. Data Transferring

O sequende) O 00 00 00 00 00 00 0 000000 D 000 00**00A**CK sequence O LS**CI**TL (LSCTL_DATA LECTL_ACK) Header Type LPX Strea**6** Type sequence**D** 0 (ACK **61**ggy-bag) , LPX Stream Typ**eVIO HG**ad**eՌՈՕ M**O 6a0 . ACK sequen6e006p0 a00 000 000 000 000 000 000 O LPX Stream Type OAOKOO O ED 0 acknowledge TZOH ACK A TZOH HOST B AI (LSCTL DATA | LSCTL ACK, 1200, 20) A2 (LSCTL_DATA | LSCTL_ACK, 1201, 20) A3 (LSCTL_DATA | LSCTL_ACK, 1202, 21) BI (LSCTL_ACK, 20, 1201) B2 (LSCTL_ACK, 21, 1202) RETRANSMIT_TIME B3 (LSCTL_ACK, 22, 1203) A4 (LSCTL DATA | LSCTL ACK, 1202, 22) B4 (LSCTL_ACK, 22, 1203) ALIVE INTERVAL ALIVE_INTERVAL A5 (LSCTL_ACK, 1203, 23) B5 (LSCTL_ACK, 23, 1203) 0 900 HOST**A**IAO **O ABOAN** WADO O O O connec**E**io)n Connection() 20 000 FEO 0 000 0 80 500 0 500 (10 20) O 8000 O O O O O O EBDO O 80 AO KAO 650 idle . 🕮 🚾 🛭 connection alive count 00100i**010**q 00 ACK

7. Disconnecting

