-	LUG3
*	MRU default: 1500 bytes Drifferent values may be regottated
*	Padding: May be added to I'll the Josame up to MRU. Pacated as
	into data (checked by PCS). PPP not susponsible of succepting &
	delimeting it.
7	FCS JANG :-
*	It is ethor of 2 bytes on 4 bytes.
	It contains the checksum
1-1-7	Byte stuffing - Same as HDLC.
1  2 20	Transit Phases
	Fasted
	ranced
	capaien de lected
Exp. L.S.	(Dead) Establish
•	Cagories de opped by both stores
	Falled 19 authenticate
	(Teaminate) (Authenticate)   mot needed
pa-	Done Authenticate
	sucress ful
	Open / N/ki Jayesi (Netwoork) <
	confeg
0	Dead:- Hesu the link is not used. These is no active casa sear line
	is quiet.
(6)	Establish: Connect goes into this phase when 1 of the nodes stoot
7.11	communicate. In this phase, 2 pasities negotiale the optis 19th
	is successful, the system good into authoritical phase / discretly to
•	netwooking phase
1	Sannad by Cam Sannan

(m)	Authenticate: It is optial. The 2 nodes may decide during
	establishment phase not to skip this phase
civo	Metropolk:- Here, negotiato Jose n/n layer porotocolo take place.
	PPP specifies that 2 nodes establisha only layou agreement
	before data at plu layer can be exchanged.
(v)	Open: - Heave, data elevansfess takes place.
	Tesiminate: Hesie connect is tesiminated
	3 sets of perotocols are defined to make PPP powerful:
	Link Control Porotocal (LCP)
	Responsible Just establishing, mintaining, configuring &
	te oraninating links
	LCP-PDU Foeramat:
	Cocle Identifica Length LCP info  1 byte 1 byte 2 bytes O+ variable
	1 byle 1 byle 2 byles 0+ variable
	Flag Adda (tal Parotocol Ingo FCS Flag
<b>→</b>	(ade (1 hubs) = tripe of LCP backet
	Code (1 byte) = type of LCP packet
1	Idontificar (1 byte)
	Length (2 bytes)
	Dala: vaoriable
	Packet types
. 7	Link Config packets

4	Link Tearminat perekuts
	11 Maintenance 11
(i)	Authenticato Priotocol
•	Authoriticati: Valldating the identity of a uses who needs to access
	a set of suspusices.
•	PPP Ras 2 perotocols:
->	PAP (Passwood Authenticath Pondocol)
->	CHAP (Challenge Handshake Authoriticato Povotocal)
7	PAP
*	2 step parocess;
_	The resear who mants to access a system sends an authoriteath
	identificate l pass mosel
-	The state of the second of the
	Comment of the Commen
7	CHAP
*	3 way handshaking authoriticate particul; garates security than
15	PAP
*	System sends the user a challenge packet with a challenge value
*	Baca applies poudoffred funct that takes challoge value & useek
	Passhipped & connate a prosult.
*	Usear sende sosult in acosponse parket to system
*	Bystean does the same
	12 both same, access granted

	(ii)	Network (foll Porotocal
		PPP con casay a new layer data packet Jarom perotocals defined
		by internet OSI, Xeriox, Appletalk & so on
		To do this, PPP has defined a specific NCP JOSI each n/s
		perotocol
12 2 20		Media Access Sublayer
		When multiple nodes / stat's age connected & use a common link
		called a multipoint /boroadeast link, we need multiple access
		perotocols to coordinate access to the link.
		PROTOCOLS TO COOTECTIONE OCCESS TO THE SOURCE
		Multiple -access
		perotocals
		Pardom-access Controlled-access Channelizati
		parotocole parotocols
		-> ALOHA -> Reseguato -> FDMA
		>CSMA/CD > Pelling > TDMA
		CSMA/CA Token passing LOMA
		Random Access
		In signdom access , no state is superior to another & none is
		assigned contour over another. No state permits, our doesn't
		pesimil , another state to send. At each instance, a state that has
		data to send uses a peroceduse defined by the pointacol to make
		a decision on whethou par not to send.
,	i)	ALOHA
•		

	Osiginal ALOHA perotocol & called puere ALOHA
	Pusic ALDHA
-7	If you have a packet, just send &t.
7	" multiple people tory it & so there he collision, then try resending
	St.
->	Theosotical analysis shows a thoroughput of only 18%
->	If all states try to resend their grames after the time, cach
	state monts a random amount of the before resending its
	Jacame.
7	This sandomness will help to avoid collision
<b>→</b>	This is called back of time.
	8 lotted ALOHA
7	Synchoronous i.e. time is divided into dots.
	Blot size = txm time of packet (Any time to send out Jacame)
-7	When state is acody, towarsomit at start of time slot
7	Doubles efficiency of ALOHA (38% Aboroughput)
(ii)	Casisies Sense Mulfiple Access (CSMA)
A TOO	To imperove performance, CSMA une developed
•	Chance of collision can be scalured if a state senses the medium
	before toying to send.
	Listen to channel of busy than walt for a random time & then listen
John India	again
Land 4	M not busy then townsomet
	Collegion may still Rappen.

> max peropagato time

\* Combines advantages of other. 2

\* Reduces chance of collision Q impaires efficiency