









































Select	ive Repe	eat	22
case frame_arrival: from_physical_i if (r.kind == data /* An unda if (/r.seq l=	ayer(&r); a) { maged frame has arr	/* a data or control fra /* fetch incoming fram ived. */	me has arrived */ e from physical layer */
if (in seq _ra send_fra if (betweer /* Fra arrive in_bu while /	(frame_expected) dame(nak, 0, frame_ex (frame_expected, r.s mes may be accepte d[r.seq % NR_BUFS] (fr.seq % NR_BUFS] (arrived[frame_expec * Pass frames and ac o_network_layer(∈_ o_ nak = true;	pected, out_buf); else sta eq, too_far) && (arrived[r d in any order. */ = true; /* mark buffe = r.info; /* insert data ted % NR_BUFS]) { dvance window. */ buf[frame_expected % N	art_ack_timer(); .seq%NR_BUFS] == false)) { r as full */ into buffer */ IR_BUFS]);
	arrived[frame_expected nc(frame_expected); nc(too_far); start_ack_timer();	ed % NR_BUFS] = false; /* advance lower edge /* advance upper edge /* to see if a separate	e of receiver's window */ e of receiver's window */ ack is needed */
}			Continued \rightarrow
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Petri Net	Models	40
 Petri nets can be represembling a grammar the grammar 1. BD -> AC 2. A -> A 3. AD -> BE 4. B -> B 5. C -> 6. D -> 7. E -> 8. CF -> DF 9. EG -> DG 10. CG -> DF 11. EF -> DG 	presented in convenient algeb mar. Each transition contribut	praic form tes one rule to
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HDLC Unnumbered Frame					
(c) 1 1	Туре	P/F	Modifier		
 Sometimes used for control purposes Can also carry data for unreliable connectionless service 					
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PPP – Point to Point Protocol The LCP frame types				
Nam	e Direction	Description		
Configure-	request I → R	List of proposed options and values		
Configure-a	ack I ← R	All options are accepted		
Configure-	nak I←R	Some options are not accepted		
Configure-	reject I ← R	Some options are not negotiable		
Terminate-	request I → R	Request to shut the line down		
Terminate-	ack I ← R	OK, line shut down		
Code-rejec	t I ← R	Unknown request received		
Protocol-re	ject I ← R	Unknown protocol requested		
Echo-reque	est I → R	Please send this frame back		
Echo-reply	I ← R	Here is the frame back		
Discard-ree	quest $I \rightarrow R$	Just discard this frame (for testing)		
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