

REGISTERS					
NAME	INITIAL VALUE	SIZE			
ROLE	0->COORD / 1->ACPT	1-Byte			
INST	0	4-Byte			
ACPTID	DEVICE ID NUM	2-Byte			
RNDS	0	2-Byte	2-Byte	INST	
VRNDS	0	2-Byte	2-Byte	INST	
VALS	0	32-Byte	32-Byte	INST	

SEQUENCE
[MATCH+CHOOSE]--> - P.INST <= N.INST - N.INST <= N.INST + 1 -->[OUTPUT]

PARSE
[INPUT]--> - PARSE THE RAW PACKET TO IDENTIFY ITS STRUCTURE - GENERATE A METADATA STRUCTURE COUPLED WITH THE RAW PACKET -->[MATCH+CHOOSE]

MATCH+CHOOSE
[PARSE]--> - MATCH PACKET STRUCTURE TO PAXOS STRUCTURE TO IDENTIFY PAXOS PACKETS - IF (PACKET IS NOT OF PAXOS TYPE): --> [OUTPUT] ELSE IF (N.ROLE==1): --> [ROUND] ELSE: --> [SEQUENCE]

ROUND
[MATCH+CHOOSE]--> - IF (N.RNDS[INST]≤P.RND): --> [ACCEPTOR] ELSE: DROP PACKET

ACCEPTOR
[ROUND]--> - SWITCH(P.MSGTYPE) CASE 1 (1a): N.RNDS[INST]<=P.RND P.MSGTYPE=2(1b) P.VRND=N.VRNDS[INST] P.VAL=N.VALS[INST] P.ACPT=N.ACPTID -->[OUTPUT] CASE 3 (2a): N.RNDS[INST]<=P.RND N.VRNDS[INST]<=P.RND N.VALS[INST]<=P.VAL P.VRND=N.VRNDS[INST] P.MSGTYPE=4(2b) P.ACPT=N.ACPTID -->[OUTPUT] DEFAULT: -->[OUTPUT]