Devices on Physical Layer,
Devices on Physical Layers 01) REPEATERS
- refeats the transmissions
- transmissions in the form of signals.
19 9 9 Repeated
- When transmission accives at refeater, it retransmitts
it so that weak strength can be made strong again t
the it was at the start.
- transmission will be broadcast and it will
be sent to all
- Repeater only forwards the regrest broadcast way
doesn't do filtering
- Devices in physical layer don't do forwarding.
- If all nodes start Kransmusion bill at one -
then there will be collisions.
- For 'n' number of nodes, n collisions are
possible. Maximum
- Refeating Mollision domain is n.
Victory Page No.

Date:	
02-HUB	a say this was seen and
- Hub is central in the network.	
- To the transmission age go wo thut he	y bass
- To toke transmission agege wo thut he agege or help phis bradiast hardy of	la
Brendeast Hub Porradiast	
- Rub can't do filtering	
- Hub doern't have any storage mee	chanism
collision domain = n , n=number - don't have any certeria to distinguish b/	why
collision domain = n , n= number	of nodes
- don't have any certeria to distinguish b/	wMAC Address
Devices on Data Link / MAC Layer	
OI- DRIDGE PI PE	roit.
NI 9 N3 Bridge 9	
ON2 ON4 NS O	
- also has coftware characteristics	
- blc il reignizes MAC addresses, it doesn's	nt
do broadeast.	
- Table is made in which entries are with nodes and forts made	their
	Ports
- 2 methods of maintaing N.	P,
Chatie Mathendy Dome by Notice	4
de la companya de la la companya de	Pi
setting connecting nodes to parts.	P2
scurg working road to guis.	
Victory	age No.

Date:	
- Static update needs to be updated manually by	
network administrator.	-
Dynamic Method. MAC Port	L
- At start the table is empty Ni Pi	_
NI-N6	-
- Bridge doern't know which bot	-
has No so it will broadlast	-
then No will sent alknowledgement.	-
- Learning mechanism in which it detects	_
theinges in network and updates the tables.	
- colliston in case of small size of buffer.	=
- That outleing caracter is fill them	
collision will occur.	
Difference blw Switch & Bridges.	_
- Bridges are only able to connect a networks	_
and switch has multi-facts (48	_
- can tuen off a port as update the	-
MAC address at a part of switch.	-
- Tagging to recognize eurs.	-
- Follwalding, filtering + collision prevention.	-
	_
	6
	-
	-
	0
	6
	c
Victory Page No.	0

+	Jab ble 5.40 C hogs
-	path use hoga.
1	Date:
-	A perignated Poet B->A
1	10000000
*	Cost=19 Procedeast (1 Cost=19
6	Devices ated bout
*	avoid loop DODODD
-	Cost=19 C
1	- A first node will forward any transmission
(3	which arrives at A to c.
1	- Designate a port for witch to -switch comm.
-	- Redundancy in network to ensure that
-	
7	
4	
4	
4	
0	1.75
	- B will get same data from A 4 C, so
-	p il Al C I il C I in a contra
6	
-	- 100 g , ref
*	timeout.
8	
6	
4	
4	
4	
4	
SE .	•
10	
	Victory Page No.

Spanning Tree Protocol2 Saari mides connected hon but no closed loop. Every branch of tree has an ending faint. Also provides redundancy and loop avoidament. Froat bridge will manage all transactions. Bridge ID for every bridge. Bridge ID for every bridge. Bridge ID for every bridge. Bridge ID bridge will be selected as noot bridge. By default 52 168 B Sares loop II II 2222 Selected as Root Bridge P-32768 Sares Sares Bridge P-32768 Sares Sares Bridge P-32768 Sares Sares Bridge P-32768 Sares Principal Pair for B-A P-32768 Sares Principal Pair for B-A Personal Pair for E-A Loot-4 Personal Pair for E-A MAC = 0000 888899999	Date:
Saan mides connected from but no closed loop. Every branch of tree has an ending foint. - Roter provides mediandancy and loop avoidance. - Roter Bridge Roteral Data Unit. - Roter Bridge Will manage all transactions. - Roter Bridge Will manage all transactions. - Broad point for all transfirming. - Broadle ID for every bridge. - Ly Priority MAC Address - Ly Achault 52 \$168 B - 52768 000002333 52768 000001111 - P-32768 Description of the priority of the	Spanning Tree Protocolz-
- Also provides redundancy and loof avoidance - Also provides redundancy and loof avoidance - Also provides redundancy and loof avoidance - Root bridge will manage all transactions. - Root bridge will manage all transactions. - Broadle ID for every bridge. - Broadle ID for every bridge. - By default 52768 - By default 5	- saari node's connected how but no closed look is
A BPDU - Bridge Protocol Data Units - Root Bridge will manage all transactions. - Root Bridge will manage all transactions. - Bridge ID for every bridge. Ly Priority Mac Address - Lowert ID bridge will be reletted as root bridge. - By default 52768 B 52768 00002321 52768 0000111 P-32768 P-32768 PC 2000111 2222 Selected as Root Bridge P-32768 PC 20001212 B C MAC 2 000066666 77777 Designated Poil PC 22768 MAC 2 000066666 77777 Designated Poil PC 22768 MAC 2 0000 888899999	- Every branch of tree has an ending hoint.
A BPDU - Bridge Protocol Data Unit- - Root Bondge will manage all transactions. - Root Bondge will manage all transactions. - Bridge ID for every bridge. Ly Privately MAC Address - Lowert ID bridge will be reletted as root bridge. - By default 52 \$168 B - 52768 0000233] - S2768 0000233] - P- 32768 - P- 32768 - P- 32768 - By Coope G666 7777 - Designated Part for D-A - Designated Part for Bridge - Designated	X Avoid.
A) BPDU - Bridge Protocol Data Unit- - Root Bondge will manage all transactions. - Food point for all transmissions. - Bridge ID for every bridge. Ly Privately Mac Address - Lowert ID bridge will be relected as root bridge. - By default 52768 B [52768 0000233] [52768 00000233] [52768 000023] [52768 000023]	- Also provides redundancy and look assidance
Froity MAC Address - Lowest ID bridge will be relected as roof bridge - By default 52768 - Selected as Root Bridge - Selected as Root for B-A P=32768 P=32768 B C MAC = 0000 66666 77777 Designated Part for E-A Rooted Part Selected Part Lost-4 P=32768 MAC = 0000 888899999	
Froity MAC Address - Lowest ID bridge will be relected as roof bridge - By default 52768 - Sares Loon Lost-4 - P-32768 - By Bocked Port - Lost-4 - Booked Port - Loon Blocked Port Lost-4 - Loon Blocked Port Loon Blocked Port Loon Blocked Port Loon Blocked Port Bl	a) BPDU - Bridge Protocol Data Unit-
- Bridge ID for every bridge. Ly Privity MAC Address - Lowest ID bridge will be selected as root bridge. - By default 52768 52768 00002333 52768 0000111) Finology MAC - 0000 11 17 2222 MAC - Selected as Root Bridge Designated Post for D-A P= 32768 MAC = 0000 666667777 P= 32333 B C P= 32768 MAC = 0000 494495555 Lost=4 MAC = 0000 888899999	- Root bondge will manage all transaction.
Ly Privately MAC Address - Lowert 1D bridge will be selected as nort bridge - By default 52 \$\frac{168}{68}\$ \[\begin{array}{c} \text{P} &	foral point for all transmissions
Ly Privately MAC Address - Lowest 1D bridge will be selected as nort bridge - By default 52 \$\frac{168}{68}\$ \[\begin{array}{c} \text{P} &	- Bridge ID for every bridge.
52768 000002333 52768 0000111 1000 1111 2222 MAC = Selected as Root Bridge Designated Port for B-A P= 32768 MAC = 0000666667777 Designated Port for E-A P= 32333 B C MAC = 0000666667777 Designated Port Designated Port for E-A P= 100 D Blocked Port E P= 32768 MAC = 0000 888899999 MAC = 0000 8888899999 MAC = 0000 888889999 MAC = 0000 88889999 MAC = 0000 888899999 MAC = 0000 88889999 MAC = 0000 8888999 MAC = 0000 88889999 MAC = 0000 88889999 MAC = 0000 8888999 MAC = 0000 88889999 MAC = 0000 88889999 MAC = 0000 888899 MAC = 0000 88889999 MAC = 0000 8888999 MAC =	
52768 00007333 52768 0000111 100 111 2222 1222	- Lowest 1D bridge will be selected as sout bridge
52768 00002333 52768 0000111	- By alkault 52768
P=100 MAC = Selected as Root Bridge P=32768 P=32768 MAC = 0000666667777 Designated Part fact=>A Lost=4 Lost=4 Lost=4 Lost=4 Lost=4 Lost=4 MAC = 0000666667777 Lost=4 MAC = 00008888899999 MAC = 00008888899999	
P= 100 P= 32768 P= 32768 P= 32768 Accided Port Blocked Port C= 100 D Blocked Port C= 0000 888899999 MAC = 0000 888899999	52768 0000222- 52768 0000111
P=32768 P=32768 P=32768 A Cost-4 P=32768 B C P=32768 MAC = 0000866667777 Designated Poil For E-3A Lost-4 P=100 Blocked Poil C=0000 44445555 Lost-4 MAC = 0000 888899999	P 100
P= 32768 P= 32768 A lost=4 P= 32768 MAC = 0000666667777 Designated Pack for E > A Lost=4 P= 32768 MAC = 0000 888899999	Selected as Root Briles
P= 32768 AC P= 32768 MAC = 0000666667777 Designated Pail facE => AC P= 32768 MAC = 0000 888899999	Designated Port for O-A
3333 B MAC = 0000 66667777 Designated Pail fact > A LOSY = 4 Personated Pail fact > A LOSY = 4 MAC = 0000 888899999 MAC = 0000 888899999	P=32768 H lost=4
2=100 E=0000 44445555 Cost=4 MAC=0000 888899999	
2=100 E=0000 44445555 Cost=4 MAC=0000 888899999	slocked Part Designated Part for E-> A)
C=0000 44445555 Cost=4 MP=32768 MAC=0000 888899999	What A
MAC = 0000 88889999	
MAC = 0000 888899999	$m_{k} = 37248$
	MAC - 0000 99999999
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Date: are avoilable so we will have some cost then we will ID and select the lowest