Experiment 10

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Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD & CSMA/CA

AIM : Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD & CSMA/CA

REQUIREMENTS:

- 1. End device They are the devices through which we can pass message from one device to another and they are interconnected.
- 2. Switch/Hub Interface Between two devices.
- 3. Cable Used to connect two devices

Procedure:

STEP 1: Click on end devices, select generic Pc's drag and drop it on thewindow. Click on SWITCH drag and drop it on the window.

STEP 2: Select the straight through cable and connect all end device to switch. Assign the IP address for all end devices. (Double click the end device Select \rightarrow desktop \rightarrow IP configuration static)

STEP 3: Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address for Host B (192.168.1.2) and Host C (192.168.1.3)

STEP 4: To view the IP address, give ipconfig command in command prompt. Using ping command, we can establish communication between two host devices.

Event List Vis. Time(sec) Last Device At Device 0.006 Hub0 PC1 ICMP 0.006 Hub0 PC2 ICMP 0.007 PC2 Hub0 ICMP 0.008 Hub0 PC3 ICMP 0.008 Hub0 PC5 ICMP ICMP 0.008 Hub0 PC4 0.008 Hub0 PC0 ICMP Hub0 0.008 PC1 ICMP |4 **|** | | Event List Filters - Visible Events Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluebonh, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL,
EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec,
ISAKMIP, IoT, IOTTCP, LACP, LLDP, Merski, NDP, NETFLOW, NTP, OSPF7, OSPFv6,
BAJP, POP3, PPP, PPP6ED, PTP, RADIUS, REP, RIP, RIPING, RTP, SCCP, SMTP, SMMP,
SSH, STP, SYSLOG, TACACS, TCP, TFTP, Teinet, UDP, USB, VTP

③ Scenario 0 ∨ Fire Last Status Source Destination Type Color Time(sec) Periodic Num

STEP 5: Now display the packet transmission in simulation mode.

RESULT:

The configuration of data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD & CSMA/CA