DATA ENCAPSULATION

Encapsulation is the process of adding additional information when data is travelling in OSI or TCP/IP model.

It is a method of designing modular communication protocols in which logically separate functions in the network are abstracted from their underlying structures by inclusion or information hiding within higher-level objects.

The physical layer is responsible for physical transmission of data,link encapsulation allows local area networking,IP provides global addressing of individual computers and TCP selects the process or application that specifies the service such as Web or TFTP server

During encapsulation each layer builds a protocol data unit(PDU) by adding a headwr and optionally a trailer ,both of which contain control information to PD from layer above