What internetworking device can be used to filter traffic on the network?

- One way to solve the problems of too much traffic on a network and too many collisions is to use an internetworking device called a bridge.
- A bridge eliminates unnecessary traffic and minimizes the chances of collisions occurring on a network by dividing it into segments

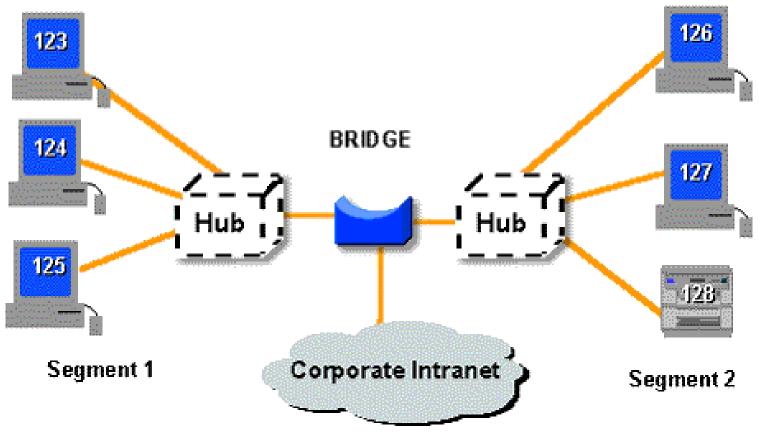
Bridge

Device that connects and passes packets between two network segments;

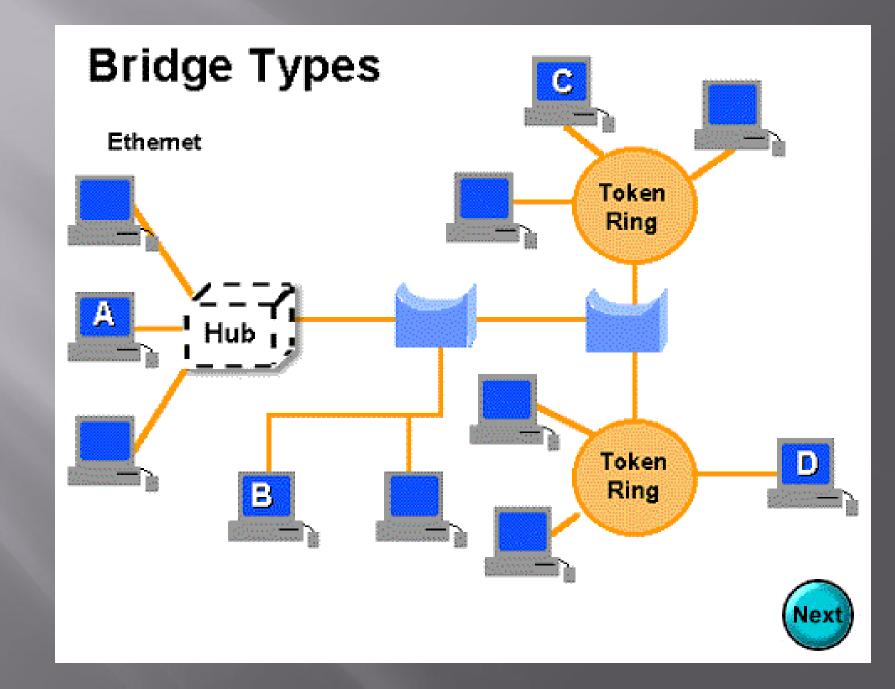
More intelligent than hub-analyze incoming packets and forwards (or drops) based on addressing information.

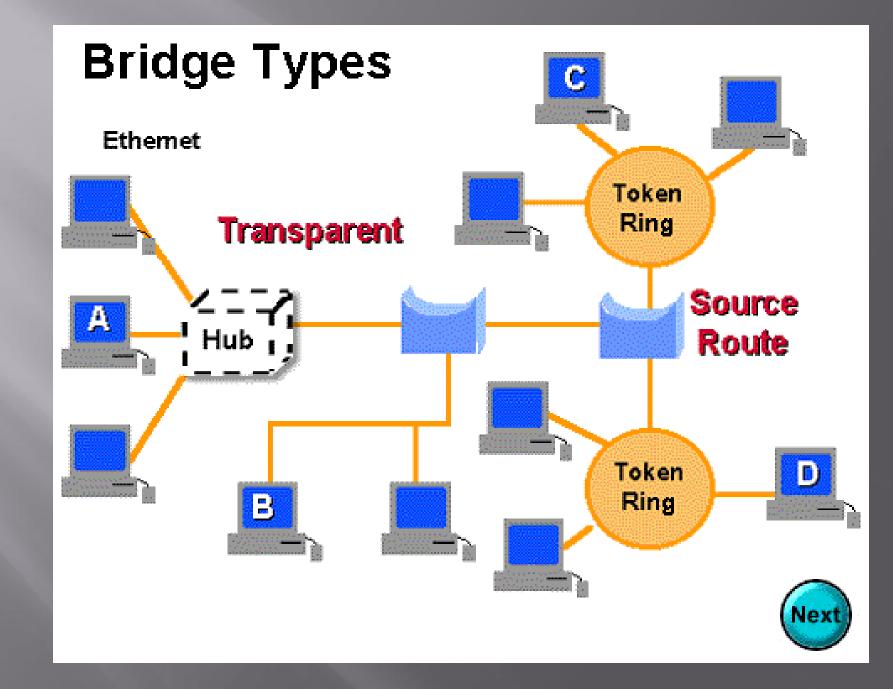


Bridge Example





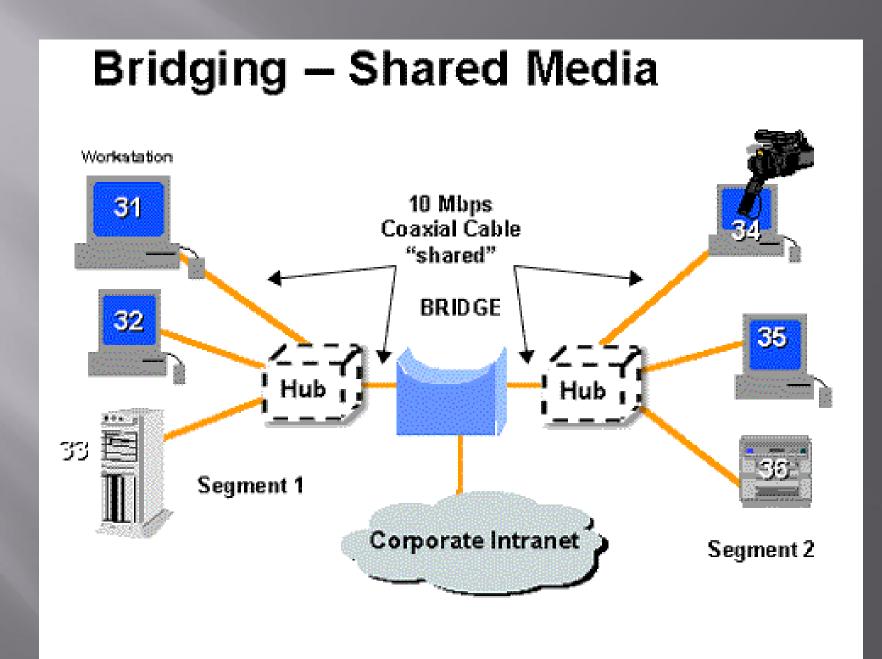




Bridge Summary

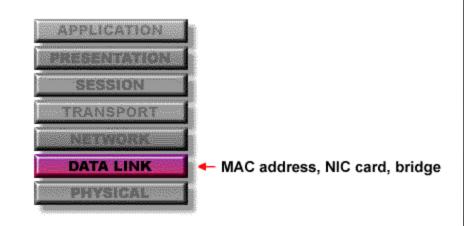
- More intelligent than a hub--can analyze incoming packets and forward (or drop) based on addressing information
- Collect and pass packets between two network segments
- Control broadcasts to the network
- Maintains address tables
- Different types of bridges--
 - Transparent
 - Source Route (used primarily in Token Ring LANs)





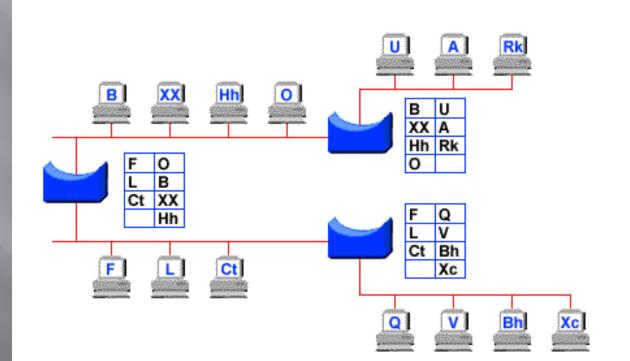
At what layer of the OSI model do bridges operate?

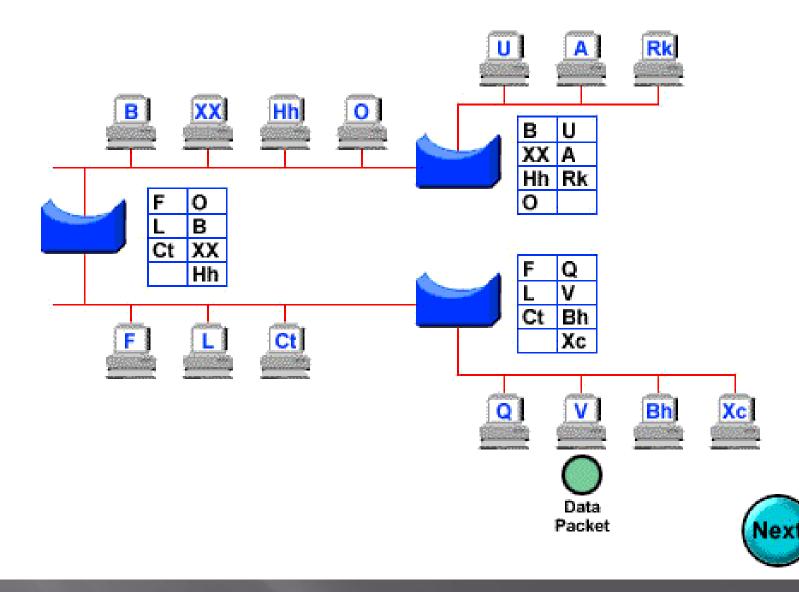
Because bridges operate at the data link layer, layer
2, they are not required to examine upper-layer

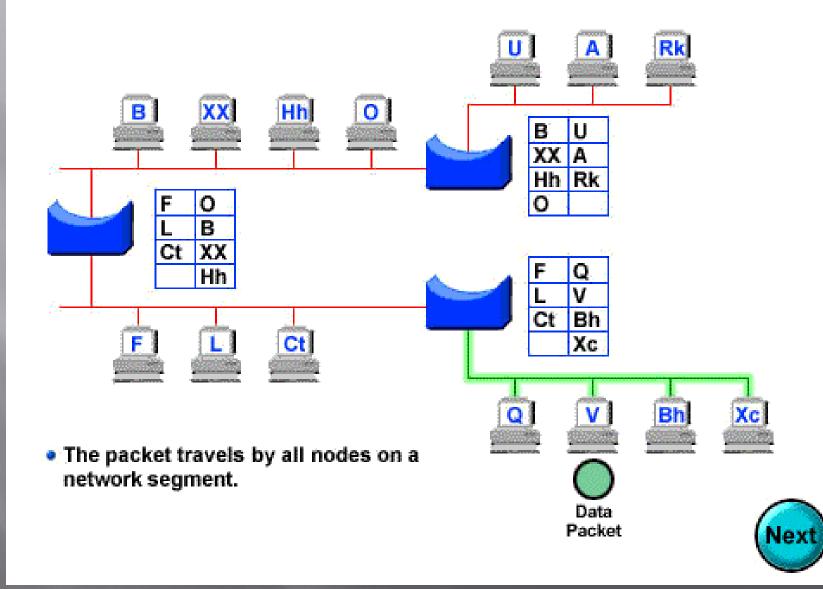


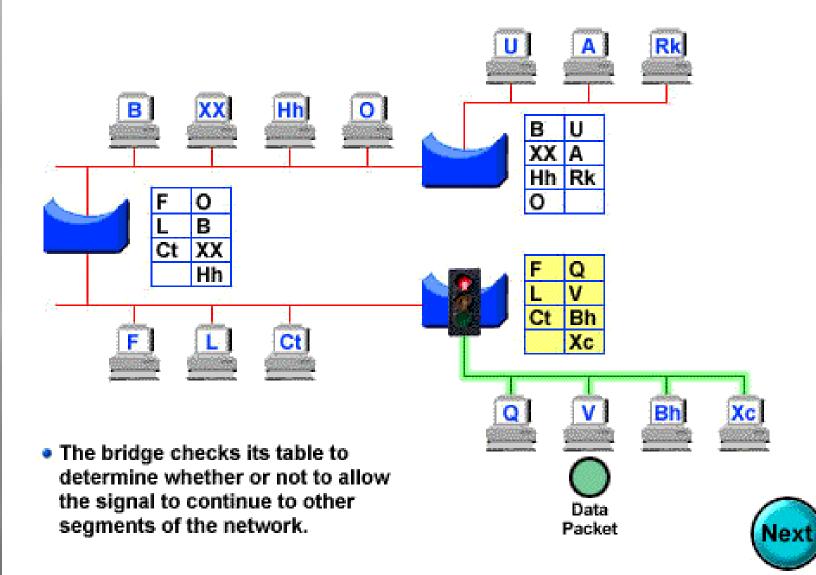
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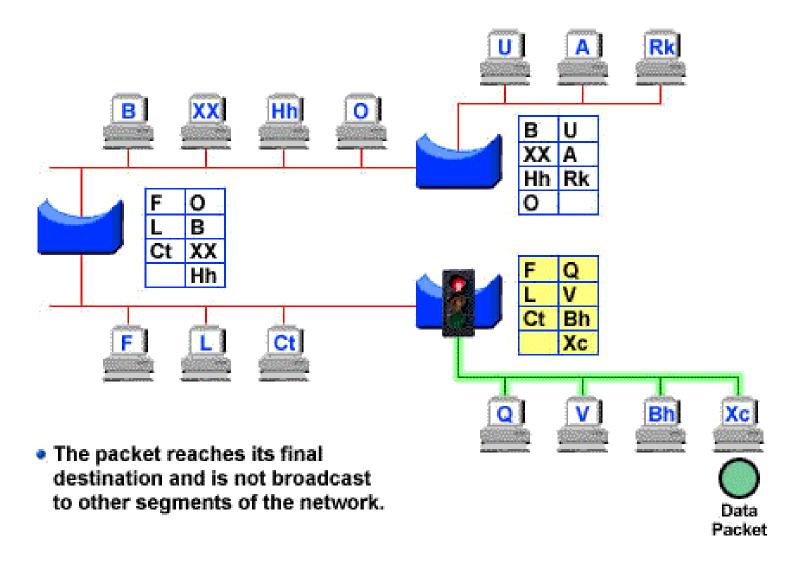
How do bridges filter network traffic?

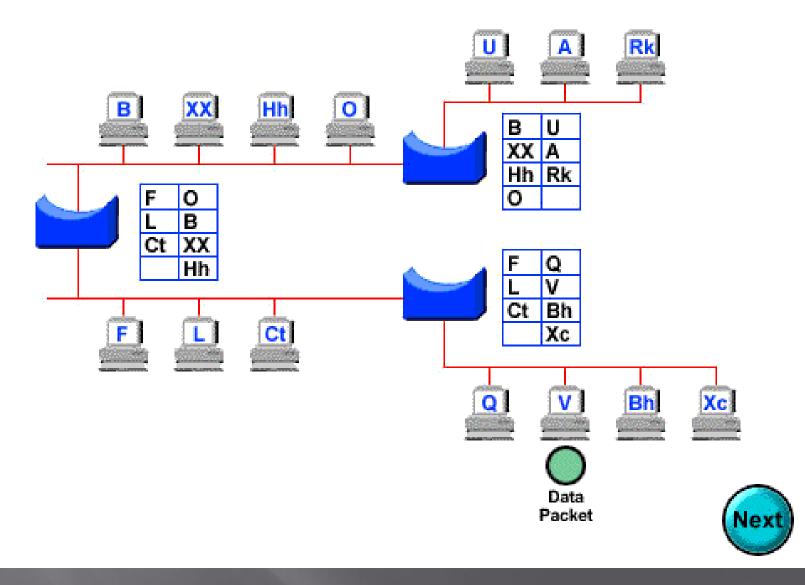


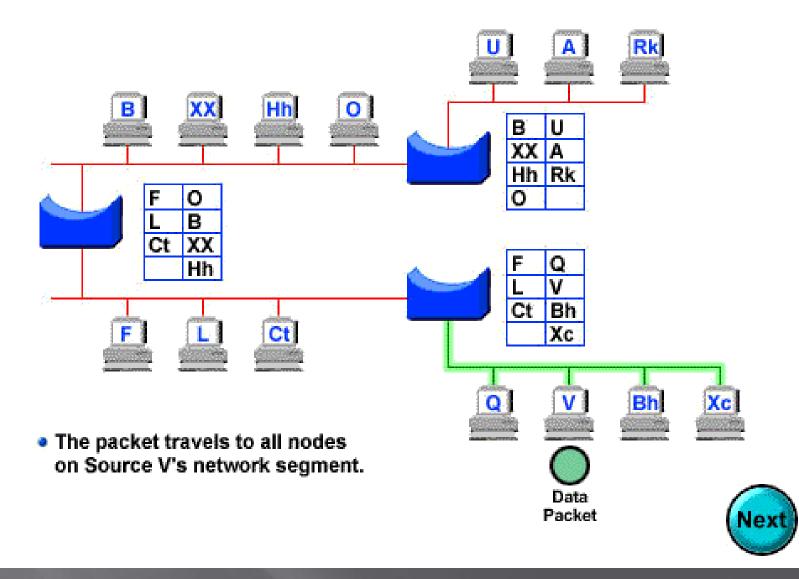


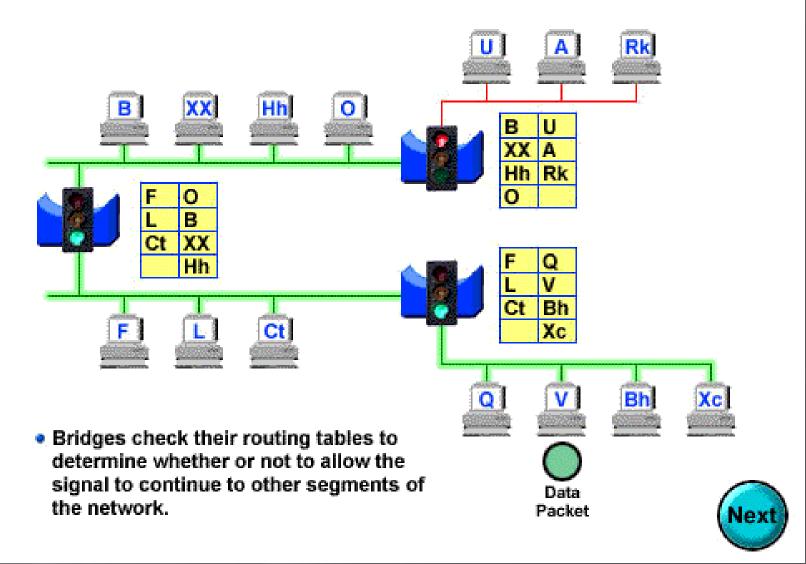


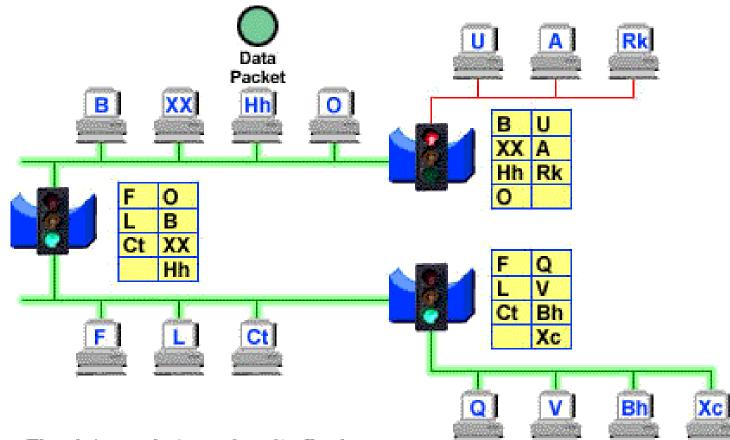












 The data packet reaches its final destination.