### Chapter 1: Selecting Cisco Products for Remote Connections



2-1

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### **Objectives**

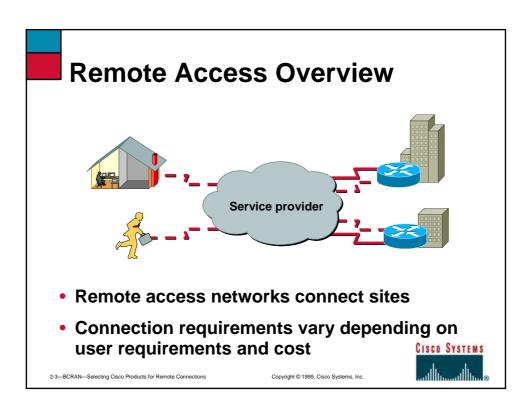
Upon completion of this chapter, you will be able to perform the following tasks:

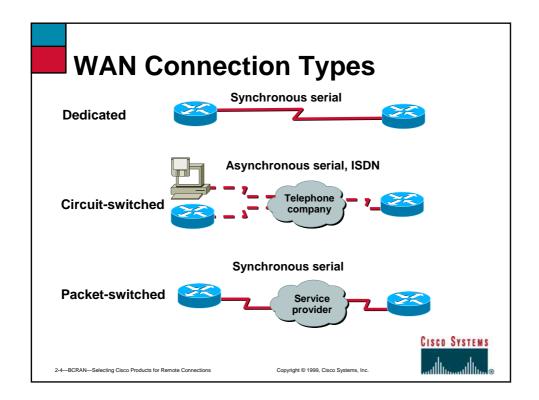
- Explain the advantages and disadvantages of various WAN connection types
- Select the appropriate WAN connection types to interconnect multiple sites
- Select the Cisco equipment that will suit the specific needs of each site
- Utilize Cisco tools to select the proper equipment

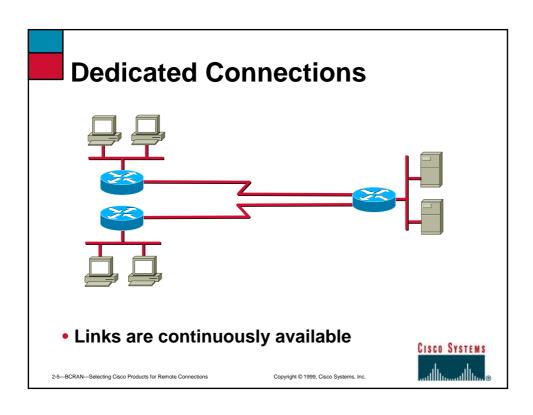


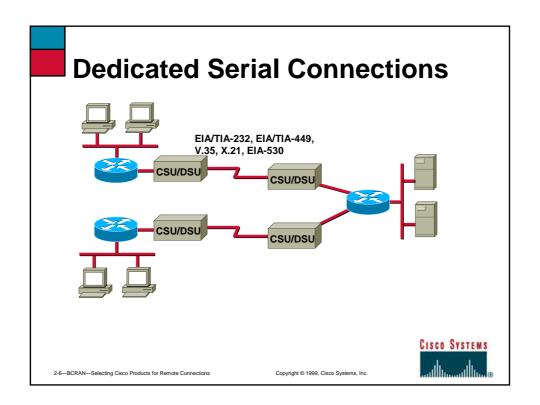
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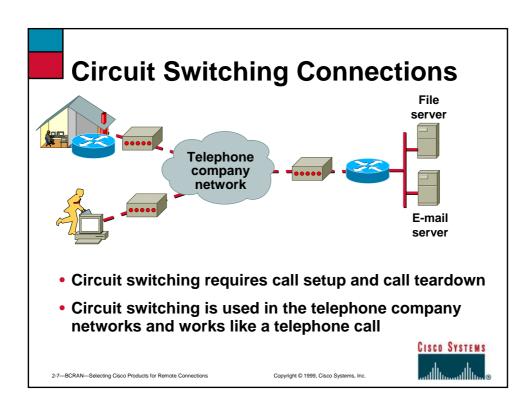
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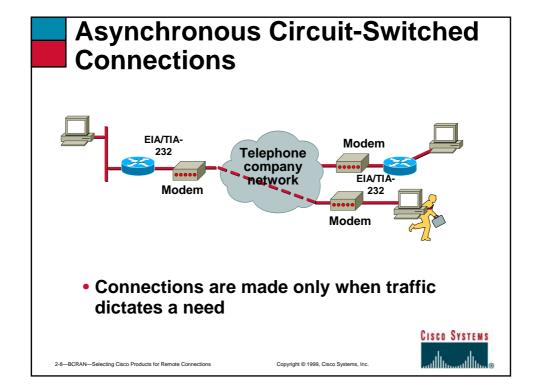


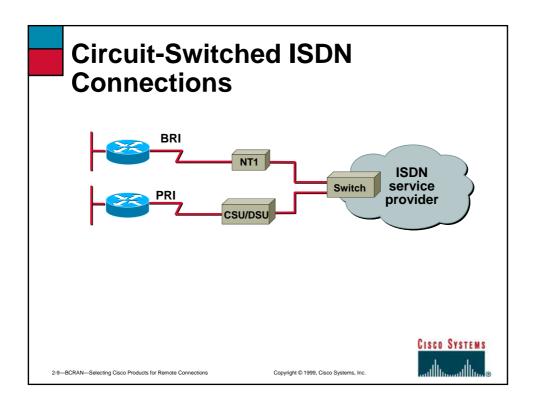


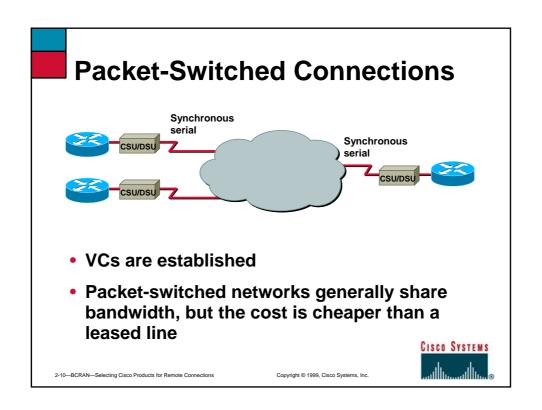


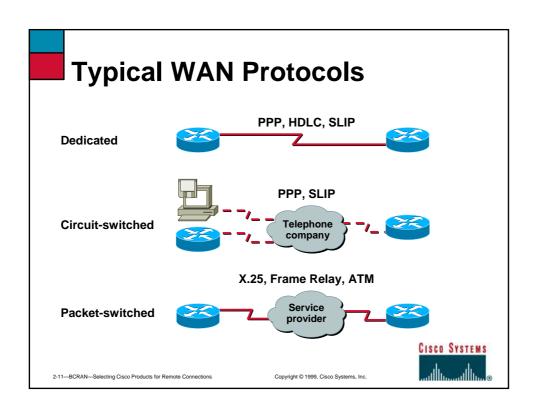


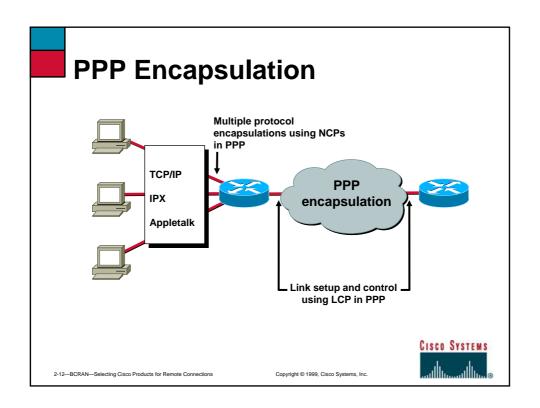


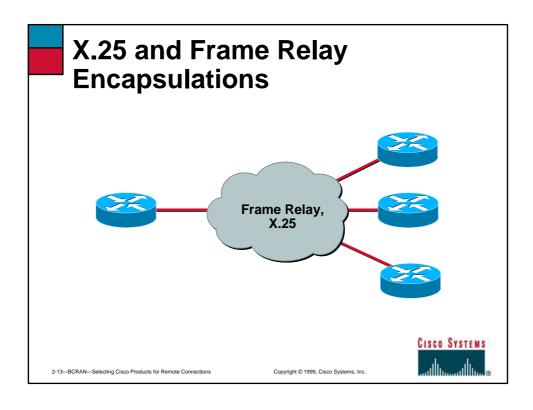












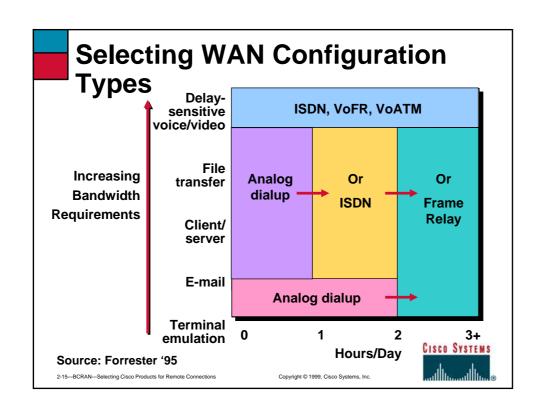
# **Connection Selection Considerations**

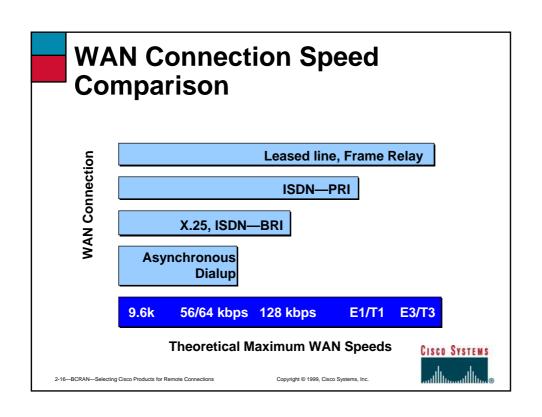
- Availability
- Bandwidth
- Cost
- Ease of management
- Application traffic
- Quality of service and reliability
- Access control

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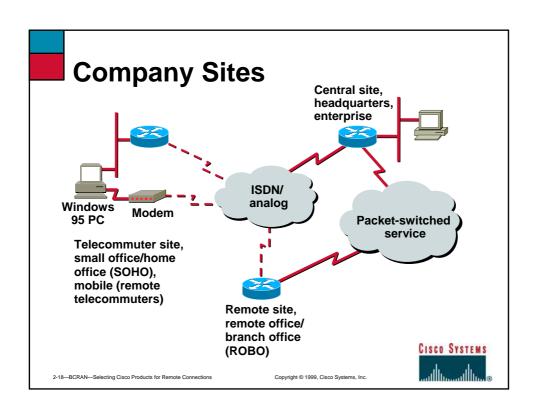
### **WAN Connection Summary**

Connection Type	Applications
Leased lines	High control, full bandwidth, high-cost enterprise networks, and last-mile access
Frame Relay	Medium control, shared bandwidth, medium-cost enterprise backbones; branch sites
ISDN	Low control, shared bandwidth, more bandwidth than dialup
Asynchronous dialup	Low control, shared bandwidth, variable cost- effective for limited use connections, high reliability
X.25	Low control, shared bandwidth, variable cost- effective for limited use connections like DDR

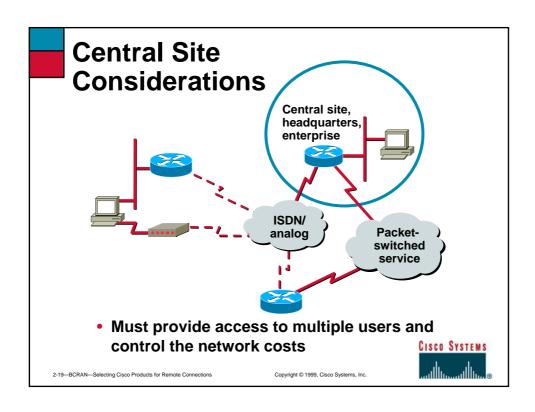


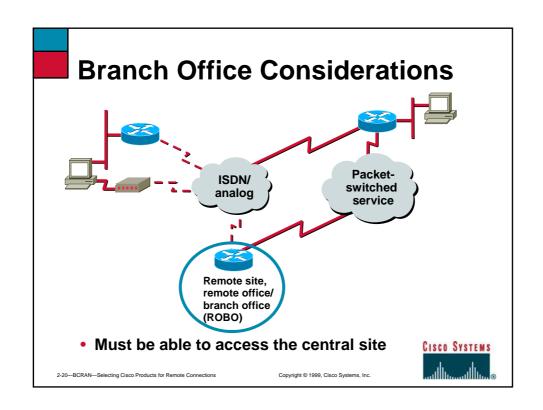
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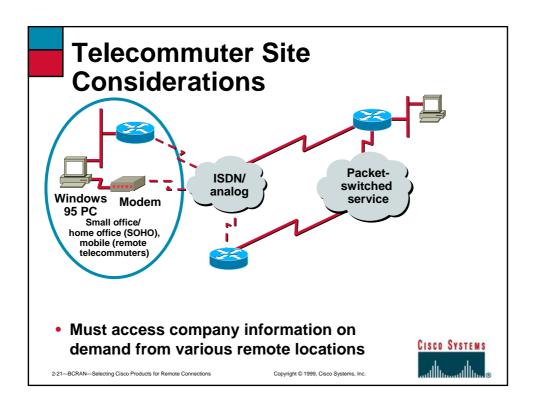
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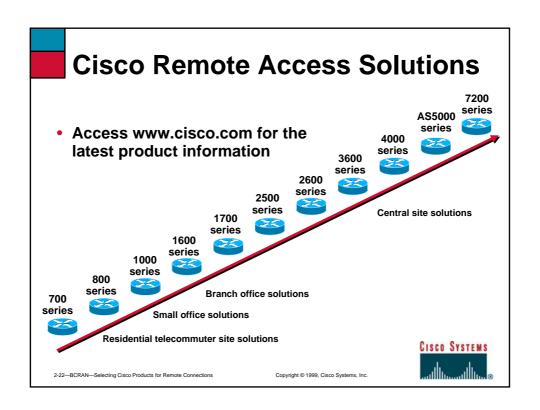


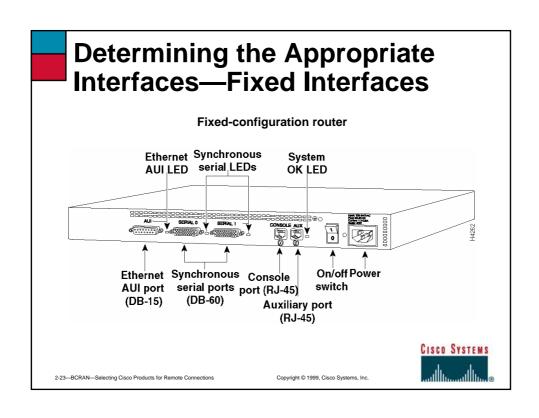
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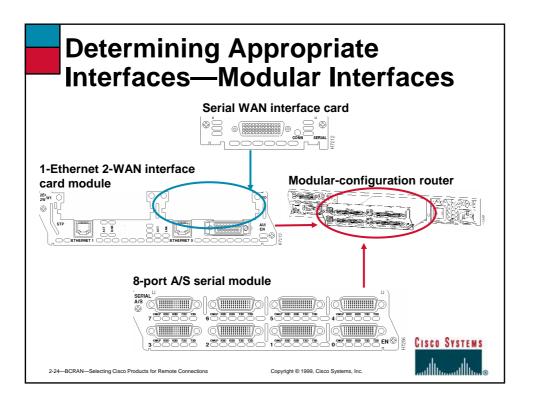












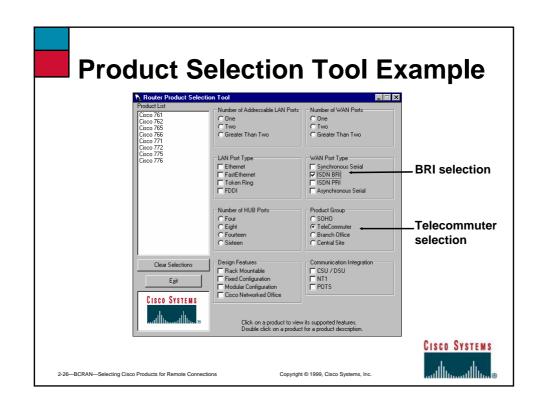
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• For up-to-date information, use the online tools at www.cisco.com

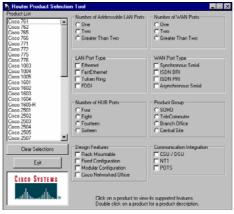
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# **Laboratory Exercise: Visual Objective**



• Use the product selection tool to select
Cisco equipment

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#### **Summary**

After completing this chapter, you should be able to perform the following tasks:

- Determine if each site is a central site, branch office, or telecommuter site
- Select the Cisco products that will suit the specific needs of each site
- Utilize Cisco tools to select the proper equipment

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- Identify the types of WAN connections discussed in this chapter and the appropriate protocols used on each connection.
- Describe the considerations when implementing a WAN connection at a central site, branch office, and telecommuter site.
- Identify available Cisco equipment designed for a telecommuter site, a branch office, and a central site.

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