

Unit 2 Assignment 2: Evolution of Ethernet

Learning Objectives and Outcomes

- Differentiate between the Ethernet standards, specifications, and technologies that drive current LAN connectivity.

Assignment Requirements

Review details of the Ethernet family of protocols in the text sheet titled “IS3120: Unit 2 Assignment 1 Evolution of Ethernet.” Analyze the changes that have occurred over time in this family of related standards. Then write a report that answers the following questions:

- What impact will the continued evolution of the Ethernet standard have on data storage requirements, assuming capacity continues to follow the same pattern of progress?
- What network devices will be required for the configuration of a VLAN-enabled Ethernet network?
- What statement can be made about the rate of progression in data transfer capacity in Ethernet standards?
- If an organization decides to implement a medical imagery repository for radiological reviews, requiring 100Mbps connectivity for eight workstations operating at the same time, what is the minimum Ethernet standard to implement? Briefly explain the reasons behind your selection.

Required Resources

- Text sheet: IS3120: Unit 2 Assignment 2 Examining Ethernet Changes Through the Years

Submission Requirements

- Format: Microsoft Word
- Font: Arial, Size 12, Double-Space
- Citation Style: Chicago Manual of Style
- Length: 1–2 pages
- Due By: Unit 3

Self-Assessment Checklist

Use the following checklist to support your work on the assignment:

- I have described the impact continued Ethernet capacity expansion will have on data storage requirements.
- I have determined the types of network devices that will be required for a VLAN network.
- I have described my observations of the rate of change in Ethernet data transfer capacity.

- I have described the minimum standard required for the media image repository scenario and explained my reasoning for this selection.
- I have followed the submission requirements.