CCNA: Introduction to Network

**Module 3 – 3.5: Reference Model**

*I. The Benefits of Using a Layered Model (Lợi ích của vuệc sử dụng Mô hình phân lớp)*

Layered models, like the OSI and TCP/IP models, are used to simplify the understanding and explanation of complex network operations. They offer several key benefits:

+ They aid in protocol design by defining layer-specific information and interfaces.

+ They promote interoperability by allowing products from different vendors to work together; they isolate the impact of technological changes within a single layer; and they provide a standardized vocabulary for discussing networking functionalities.

=> Essentially, these models break down the complexity of networking into manageable, modular layers.

A diagram of a network

Description automatically generated

A screenshot of a computer error

Description automatically generated*II. The OSI Reference Model:*

A screenshot of a computer

Description automatically generated*III. The TCP/IP Model:*

*IV. OSI and TCP/IP Model Comparison:*

A black screen with white text

Description automatically generatedA screen shot of a computer

Description automatically generated