CCNA: Introduction to Network

**Module 3 – 3.3: Protocol Suites**

*I. Network Protocol Suites:*

- **Protocol Suite:** A collection of related protocols working together for communication.

- **Protocol Stack:** Organizes protocols in layers, with lower layers handling basic data transfer and upper layers managing message content.

- **Layered Approach:** Each layer relies on the services of the layers below it.

- **Analogy to Face-to-Face Communication:** Physical layer is like voices, rules layer is like language, and content layer is the actual message.

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Description automatically generated*II. Evolution of Protocol Suites:*

*III. The TCP/IP Protocol Example:*

- TCP/IP protocols are **available** for the **application, transport, and internet layers**."

- There are **without TCP/IP protocols in** the **network access layer**."

**- Network access layer protocols are responsible for delivering the IP packet over the physical medium.**

- The most common network access **LAN protocols are Ethernet and WLAN** (wireless LAN) protocols.

- HTTP, TCP, and IP are the TCP/IP protocols used.

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Description automatically generated- At the network access layer, Ethernet is used in the example.

*IV. The TCP/IP Protocol Suite:*

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A diagram of a computer

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