

# Introduction

15.0.1

## Why should I take this module?



Welcome to Application Layer!

As you have learned, the transport layer is where data actually gets moved from one host to another. But before that can take place, there are a lot of details that have to be determined so that this data transport happens correctly. This is why there is an application layer in both the OSI and the TCP/IP models. As an example, before there was streaming video over the internet, we had to watch home movies in a variety of other ways. Imagine that you videotaped some of your child's soccer game. Your parents, in another city, only have a video cassette player. You have to copy your video from your camera onto the right type of video cassette to send to them. Your brother has a DVD player, so you transfer your video to a DVD to send to him. This is what the application layer is all about, making sure that your data is in a format that the receiving device can use. Let's dive in!

15.0.2

## What will I learn to do in this module?



**Module Title:** Application Layer

**Module Objective:** Explain the operation of application layer protocols in providing support to end-user applications.

Topic Title	Topic Objective
Application, Presentation, and Session	Explain how the functions of the application layer, presentation layer, and session layer work together to provide network services to end user applications.
Peer-to-Peer	Explain how end user applications operate in a peer-to-peer network.
Web and Email Protocols	Explain how web and email protocols operate.
IP Addressing Services	Explain how DNS and DHCP operate.
File Sharing Services	Explain how file transfer protocols operate.