

# NETWORK ASSOCIATES GUIDE TO COMMUNICATIONS PROTOCOLS

## 7 APPLICATION LAYER

- Provides interface to end-user processes
- Provides standardized services to applications

## 6 PRESENTATION LAYER

- Specifies architecture-independent data transfer format
- Encodes and decodes data; encrypts and decrypts data; compresses data

## 5 SESSION LAYER

## 4 TRANSPORT LAYER

- Manages network layer connections
- Provides reliable packet delivery mechanism

## 3 NETWORK LAYER

- Addresses and routes packets

## 2 DATA LINK LAYER

- Frames packets
- Controls physical layer data flow

## 1 PHYSICAL LAYER

- Interfaces between network medium and network devices
- Defines electrical and mechanical characteristics

