

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

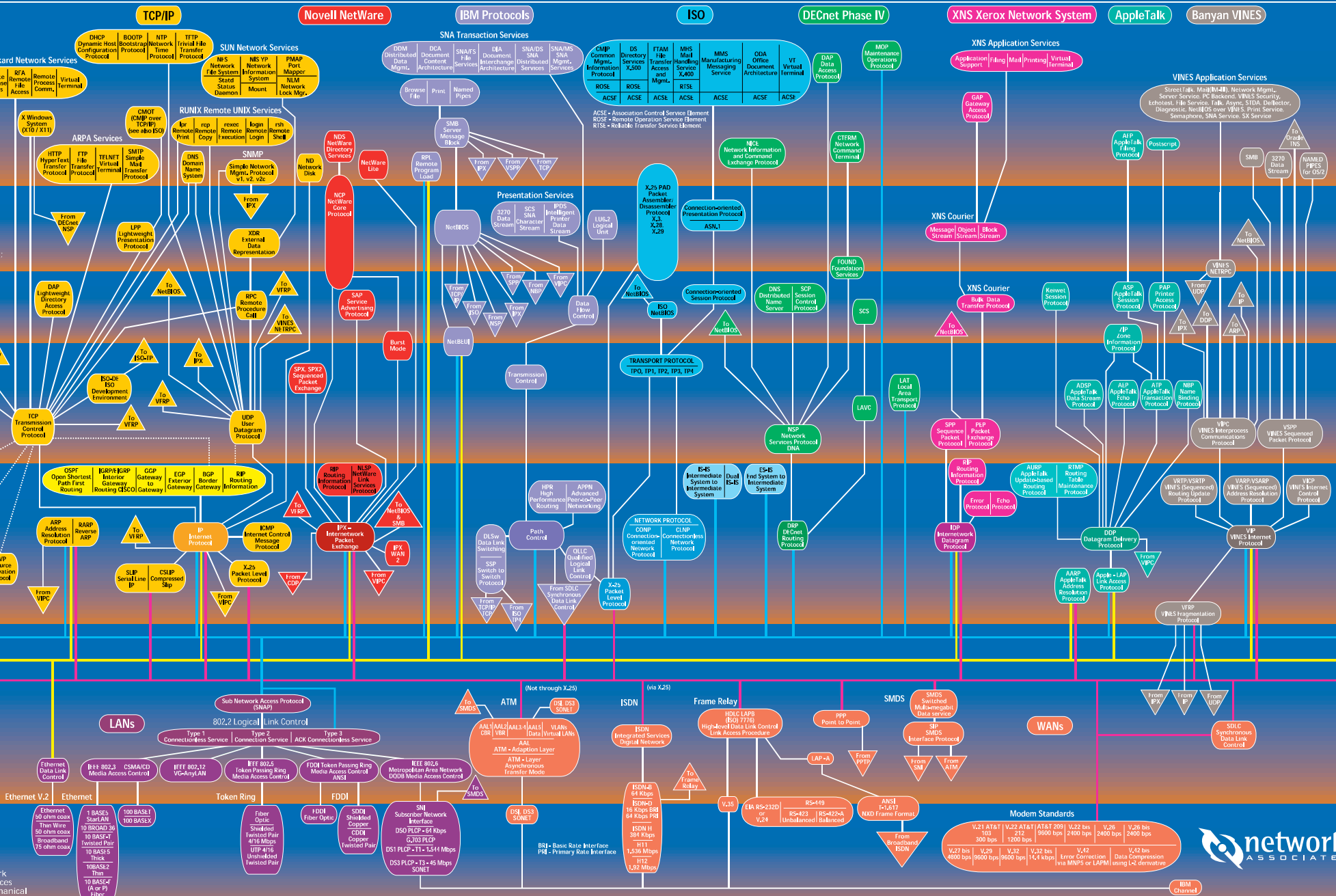
- Addresses and routes packets

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



Modem Standards

V.21 AT&T	V.22 AT&T	V.22 AT&T	V.22 AT&T	V.22 AT&T	V.26	V.26
300 bps	1200 bps	1200 bps	9600 bps	2400 bps	2400 bps	2400 bps
V.27 bis	V.29	V.32	V.32	V.32 bis	V.42	V.42 bis
4800 bps	9600 bps	9600 bps	14.4 kbps	14.4 kbps	Error Correction (via MNP's or LAPM) using Lcz derivative	Data Compression (via MNP's or LAPM) using Lcz derivative



IBM Channel