

GUIDE TO DATA COMMUNICATIONS PROTOCOL DECODES v.3

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Wandel & Goltermann
Communications Test Solutions



LAYER 7 Application
- Provides protocols for end-user applications
- Provides standardized services to applications

LAYER 6 Presentation
- Translates data format of sender to the data format of the receiver
- Provides code conversion, data compression and encryption services

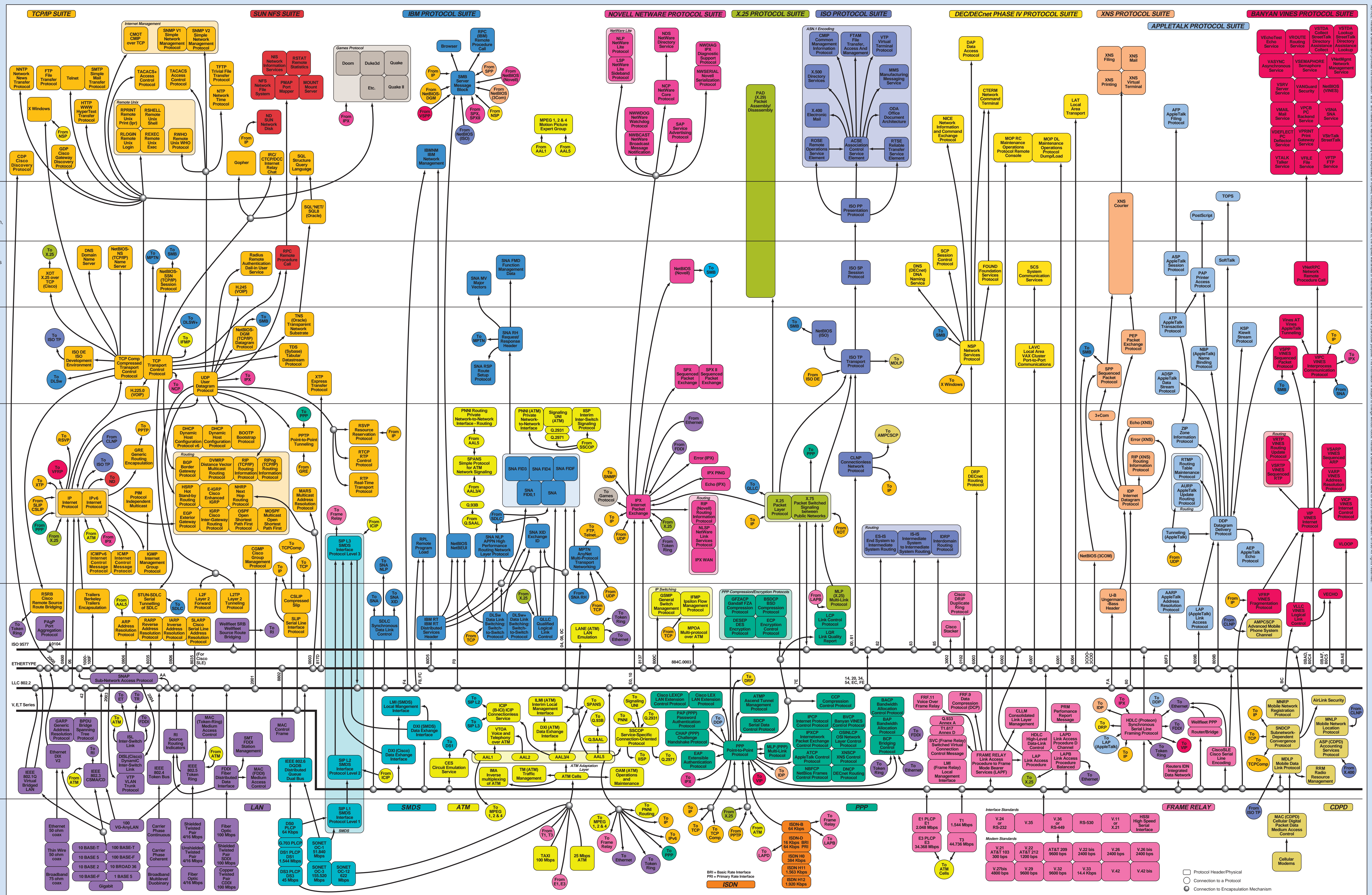
LAYER 5 Session
- Establishes and terminates communications sessions between host processes
- Provides synchronization and translation between name and address databases

LAYER 4 Transport
- Guarantees error-free hosts-to-hosts connections
- Fragments and reassembles messages
- Works in units of messages

LAYER 3 Network
- Addresses, switches, and routes packets between hosts
- Fragments and reassembles packets
- Works in units of packets

LAYER 2 Data Link
- Frames and Addresses Packets
- Provides error-free node-to-node connections and how control
- Provides mapping between Network Layer addresses and Data Link Layer addresses
- Works in units of frames

LAYER 1 Physical
- Handles the physical, electrical, and procedural specifications required to transmit data across the physical medium or cables
- Defines connectors, pinouts, and electrical voltage and current levels
- Works in units of bits.



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