ISDN

- Goal
  - Provide a single common network to combine communications services provided by all existing networks
- Transport mechanism for:
  - Voice
  - Packet data
  - Fax
  - Enhanced telephony
    - Caller Id
    - Integrated voice/data
  - Home telemetry
    - Meter reading
    - Home security
  - Videotext

Enabling Technologies

- Digital loops
- Common channel signaling

ISDN Architecture

- Terminal equipment
  - TE1 --> Standard ISDN interface
  - TE2 --> Non-standard ISDN interface
- Terminal adaptors
  TE2 --> TA--> Standard Interface
- Network terminating equipment
  - NT1
    - Physical/electrical connection
    - Isolates users from loop technology
    - Line maintenance
  - NT2--> Intelligent interface
    - PBX
    - LAN
    - Terminal controller
  - NT12 --> NT1 & NT2