ZTE



Datacom Network Overview and Development

Contents

History of Datacom Network

Basic Concept of Datacom Network

Current Development of Datacom Network

Future Trend of Datacom Network

What is Data Communication?

- **Data Communication** is a new communication mode based on the combination of **communication** technology and **computer** technology.
  - To transmit information between two places, there must be a transmission channel. According to different transmission media, there are 2 types of channels: **Wired data communication** and **wireless data communication**.







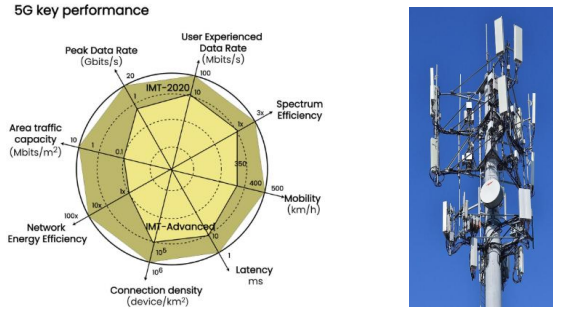
- **Communication equipment:** Telephone sets, SPC switches
- **Communication medium:** Coaxial cable, twisted pair

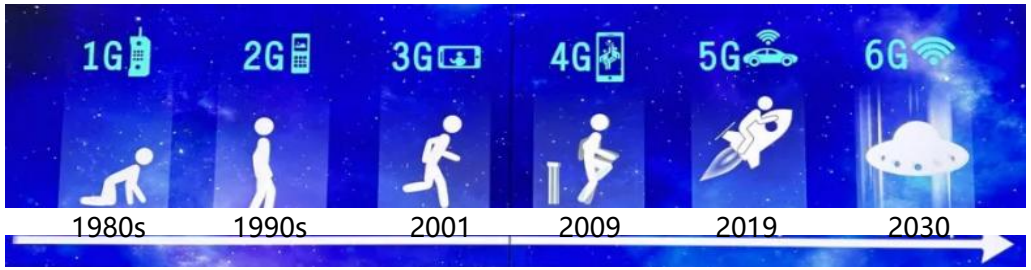


- **Communication/network equipment:** Computers, routers, switches
- **Communication medium:** Twisted pair, optical fiber

Wired datacom







- **Communication/network equipment:** Mobile phones, base stations, core network NEs
- **Communication technologies:** Wireless air interface, integrated communication, wireless network, core network technologies

Wireless datacom

Datacom Network and Telecom Network

- **Features of Computer network**
  - Nodes in the same plane with redundant lines
  - Packet switch, store and forward
  - Simple network, intelligent terminals
  - Low cost, easy maintenance

Best Effort Service

- **Features of Telecom network**
  - Stable and reliable, with low faulty probability
  - Circuit switch based on time slot
  - Complex network, simplified terminal
  - High cost, high security

Accurate & Reliable Service

- **Features of Datacom network**
  - Low transmission cost
  - Powerful routing capability
  - Adaptable for multiple physical networks
  - Multiple services carried
  - Support both connection-oriented and connection-less services



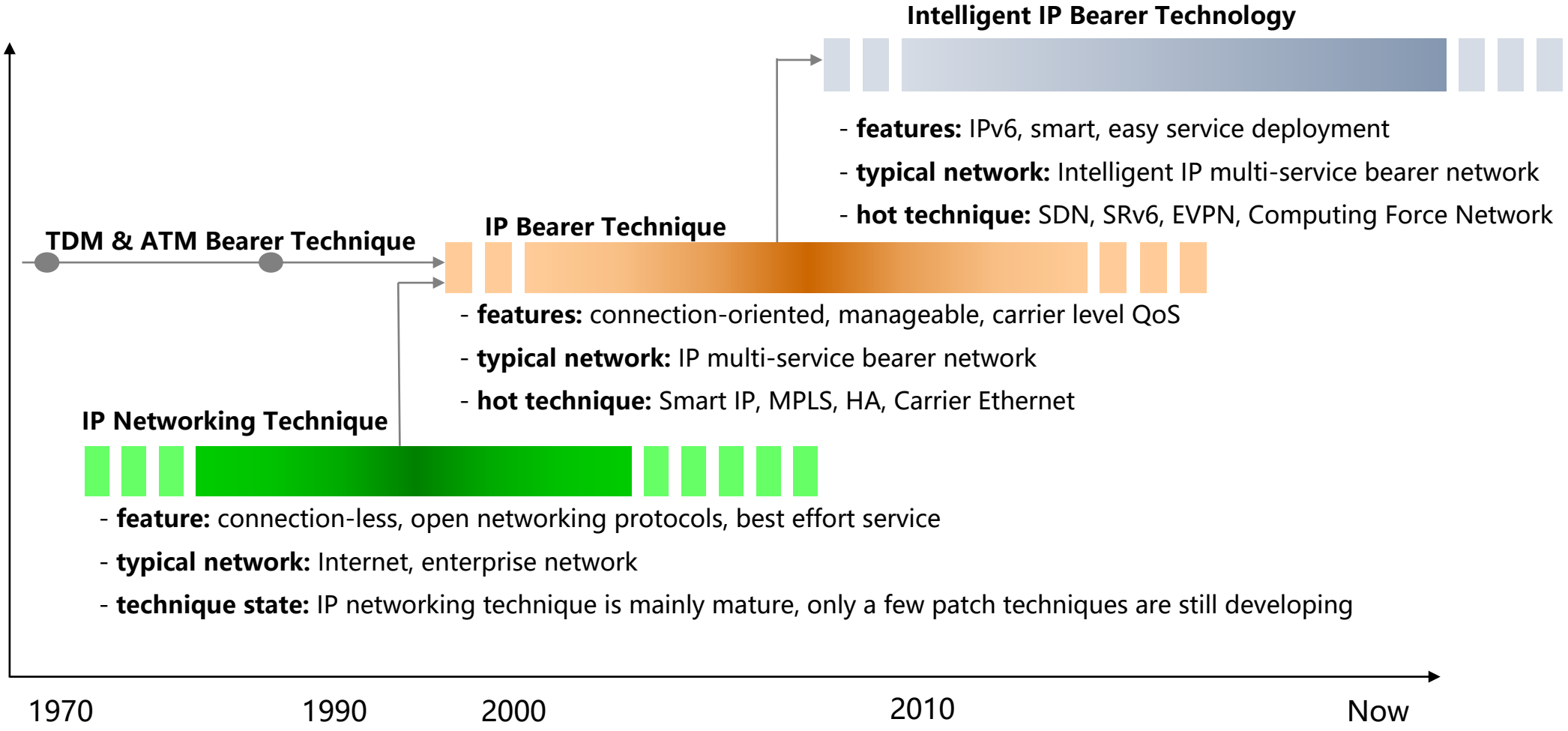
  - Inconsistent transmit paths
  - High jitter when asynchronous transmission
  - Low forwarding speed of routing
  - Low network security
  - Poor support for real-time service



Combination of Computer network and Telecom network

Datacom Network Technology Development

3 stages of IP network technology development:



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