

INTEROPERABILITY

REGULATORY CHALLENGES

INTEROPERABILITY

The Brazil's General Telecommunications Law nº 9472, of July 16th, 1997, establish :

The networks shall be organized in the form of “free circulation integrated networks”.

- ↖ the interconnection among networks is mandatory;
- ↖ the integrated operation of the networks shall be guaranteed, on the national and international level;
- ↖ property rights on the networks shall be conditioned to the duty of compliance of their social role.

INTEROPERABILITY

- ↪ **INTERCONNECTION** is the link among functionally compatible telecommunications networks, so that service users of one of the networks may communicate with service users of another, or access services therein available.

INTEROPERABILITY

Interoperability :

- ↪ combination of common technical characteristics that assures the provision of services through telecommunications networks;

INTEROPERABILITY

All technical requirements regarding interfacing shall apply, including :

- ✦ Signaling ,
- ✦ Synchronization,
- ✦ Transmission,
- ✦ Numbering,
- ✦ Routing
- ✦ Service quality,
- ✦ Network performance characteristics.

INTERCONNECTION CLASS

CLASS I - FIXED SERVICE-FIXED SERVICE

CLASS II - FIXED SERVICE-MOBILE SERVICE

CLASS III- TELEPHONE SERVICE-DATA SERVICE

CLASS IV - MOBILE -MOBILE

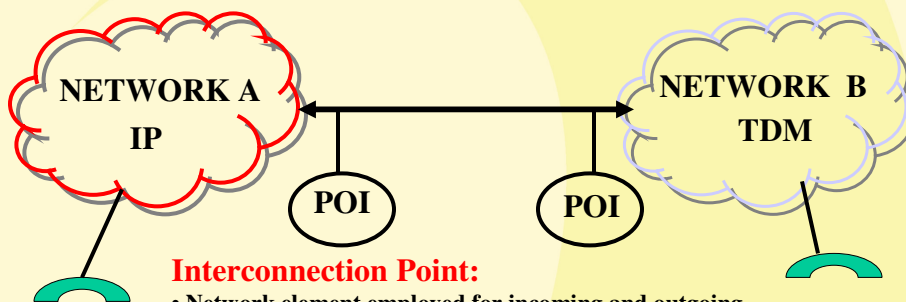
CLASS V - DATA SERVICE-DATA SERVICE

INTEROPERABILITY

- **CLASS I** - FIXED SERVICE-FIXED SERVICE
- **CLASS II** - FIXED SERVICE-MOBILE SERVICE
- **CLASS IV** - MOBILE SERVICE – MOBILE SERVICE

INTEROPERABILITY

CLASS I



Interconnection Point:

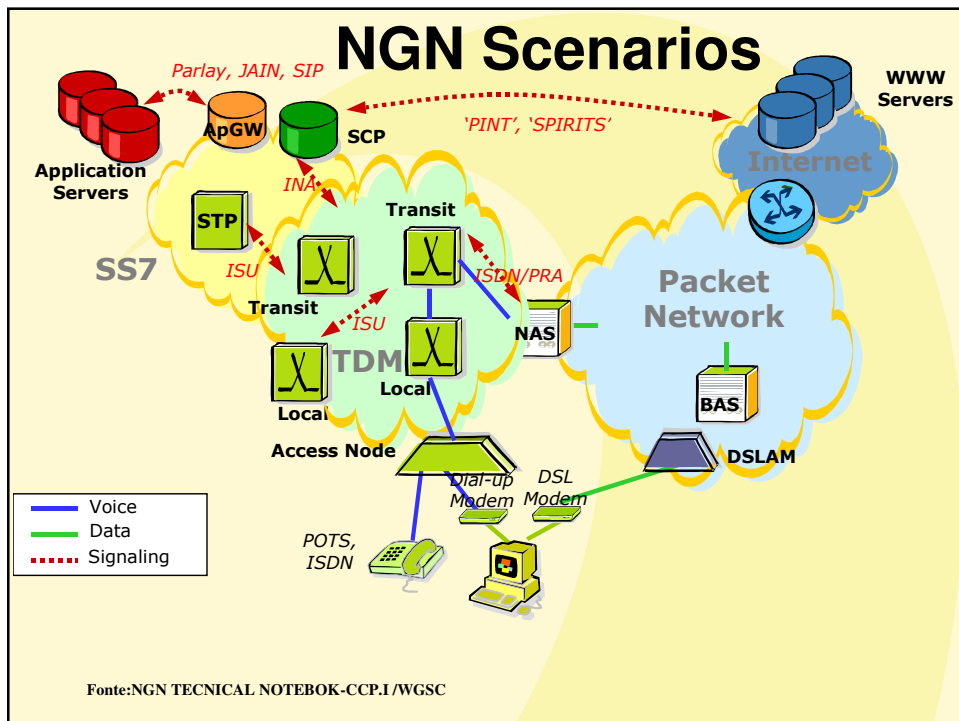
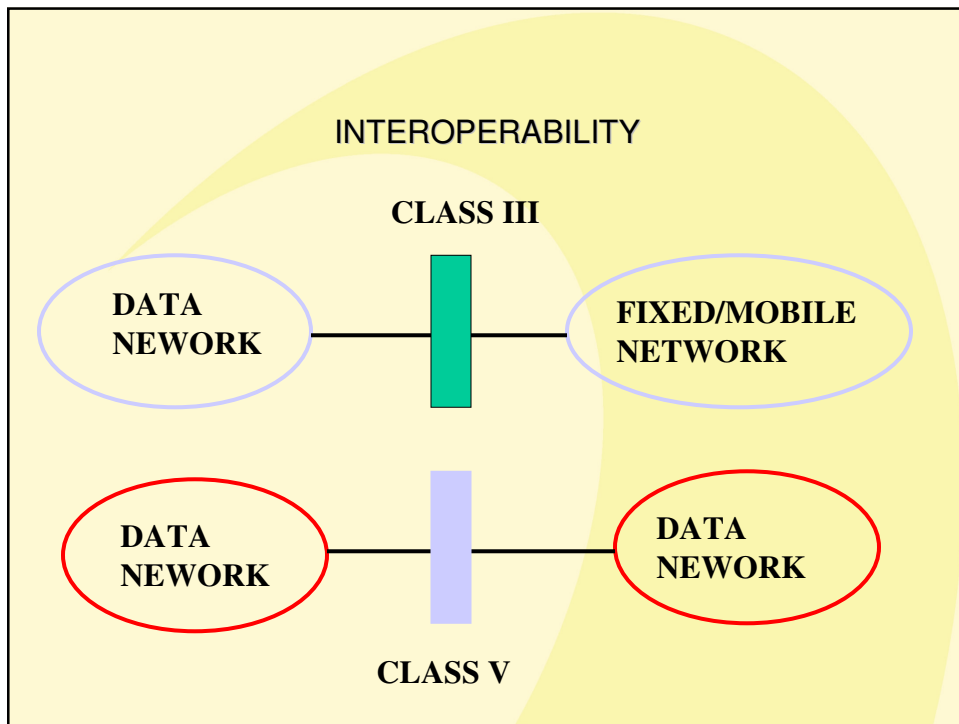
- Network element employed for incoming and outgoing traffic carried in an interconnection ;
- Reference point at which the **duties and obligations of each party** are established;

INTEROPERABILITY

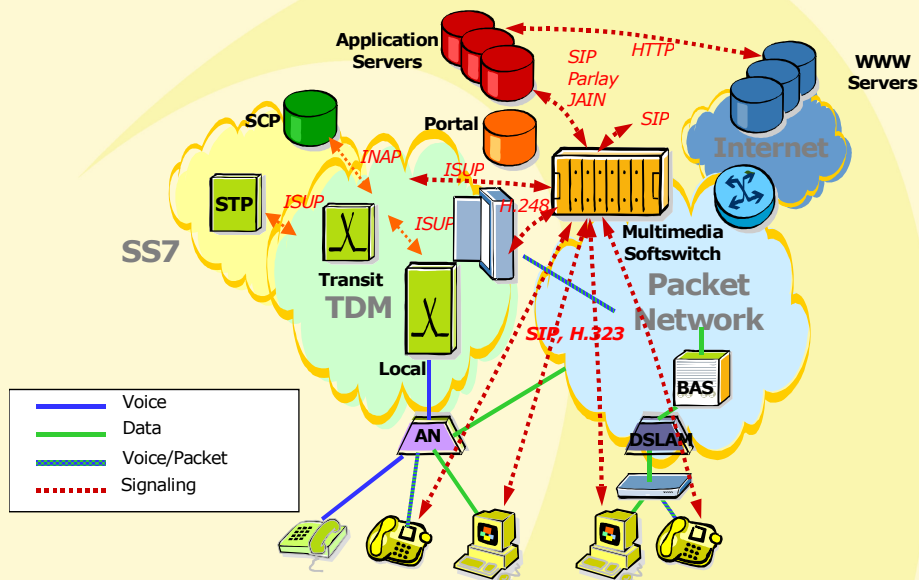
- ↪ Services characteristics from several and distinct networks;
- ↪ Quality of service and billing;
- ↪ Access to emergency services ;
- ↪ Numbering Plan ;
- ↪ Automatic collected –call ;

INTEROPERABILITY

- ↪ **CLASS III** - TELEPHONE SERVICE NETWORK- DATA SERVICE NETWORK
- ↪ **CLASS V** - DATA SERVICE NETWORK - DATA SERVICE NETWORK

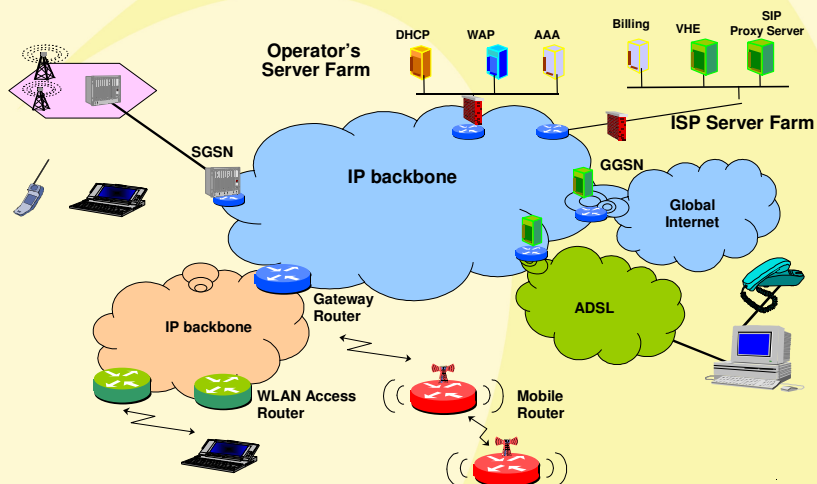


NGN Scenarios



Fonte:NGN TECNICAL NOTEBOOK-CCP.1 /WGSC

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