AT&T, SPRINT, and CENTURYTEL

NEW AT&T
HHs: 1,732,357
Area: 19,574.27 Sq. Miles
HH Density: 88.50 HH's per Sq. Mile

SPRINT
HHs: 174,990
Area: 7,498.85 Sq. Miles
HH Density: 23.34 HH's per Sq. Mile

CENTURYTEL
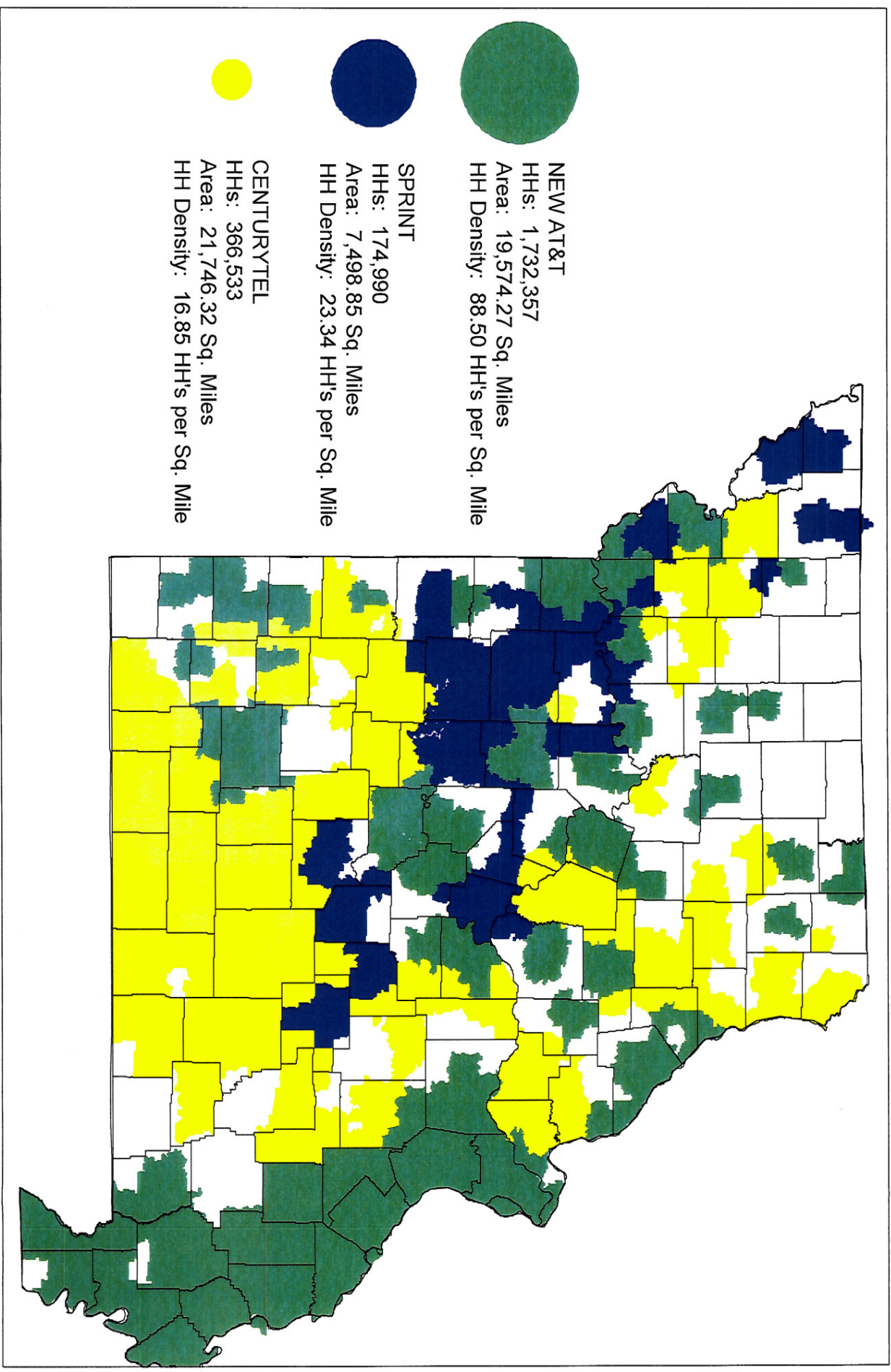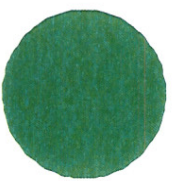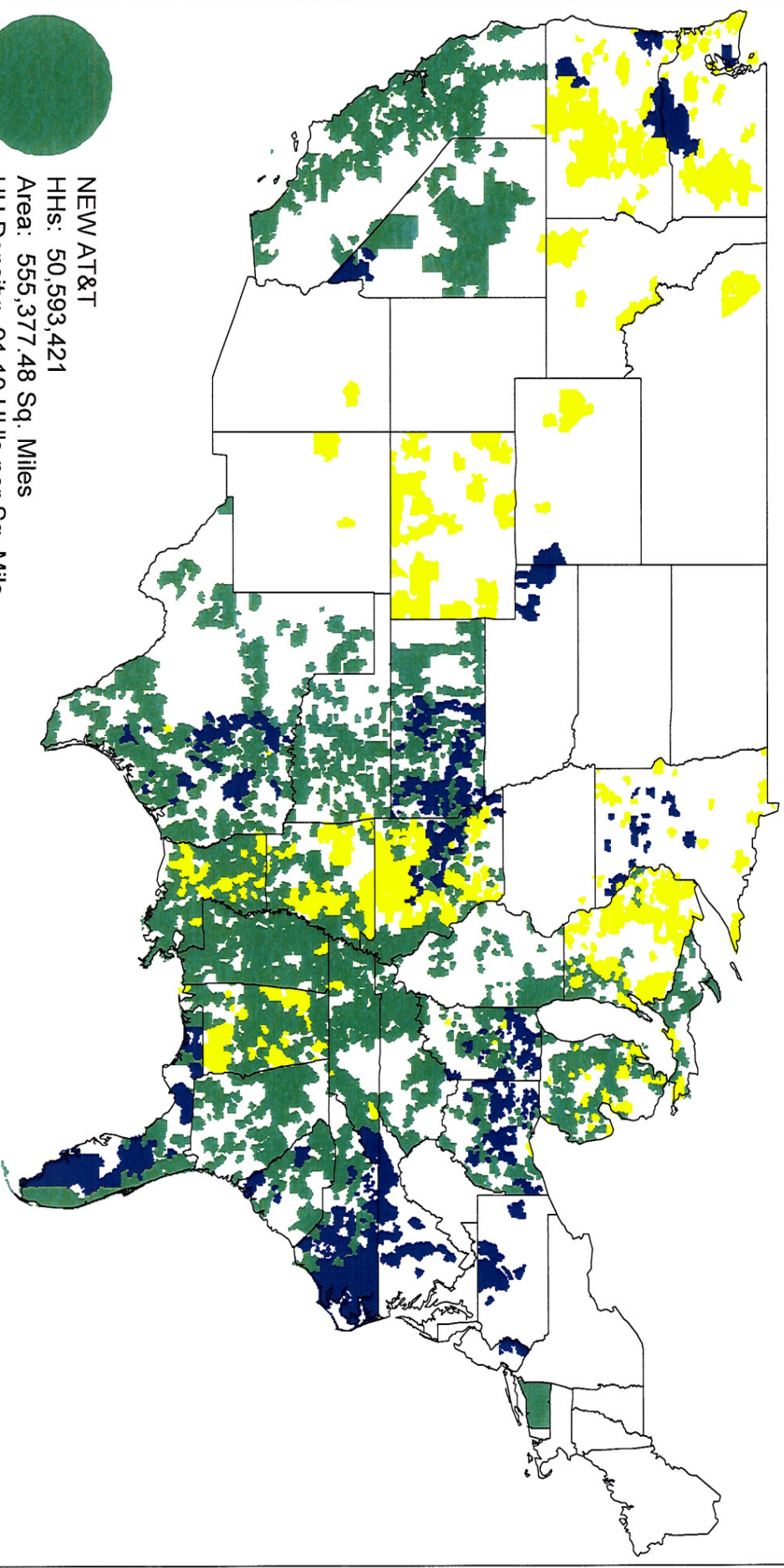HHs: 366,533
Area: 21,746.32 Sq. Miles
HH Density: 16.85 HH's per Sq. Mile

SCHEDULE GEM-1

AT&T, SPRINT, and CENTURYTEL

NEW AT&T
HHs: 50,593,421
Area: 555,377.48 Sq. Miles
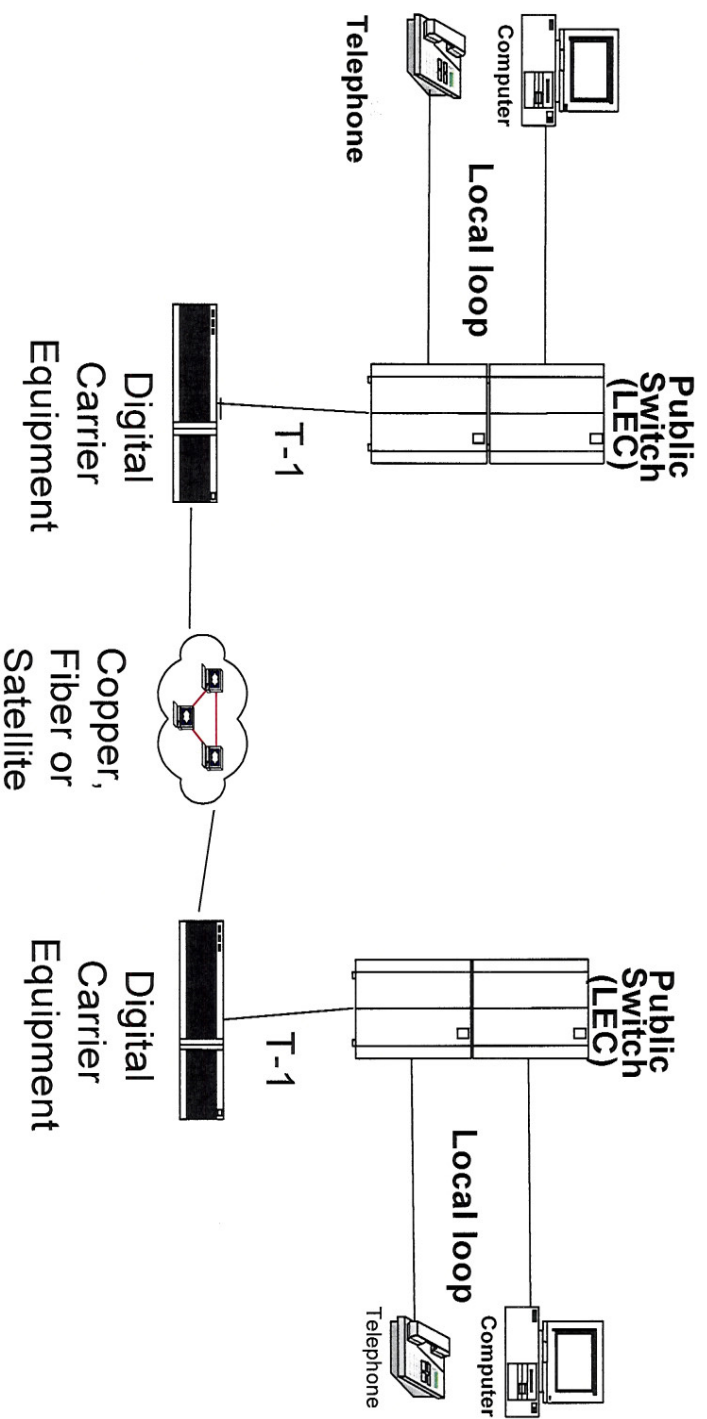HH Density: 91.10 HH's per Sq. Mile

SPRINT
HHs: 5,635,336
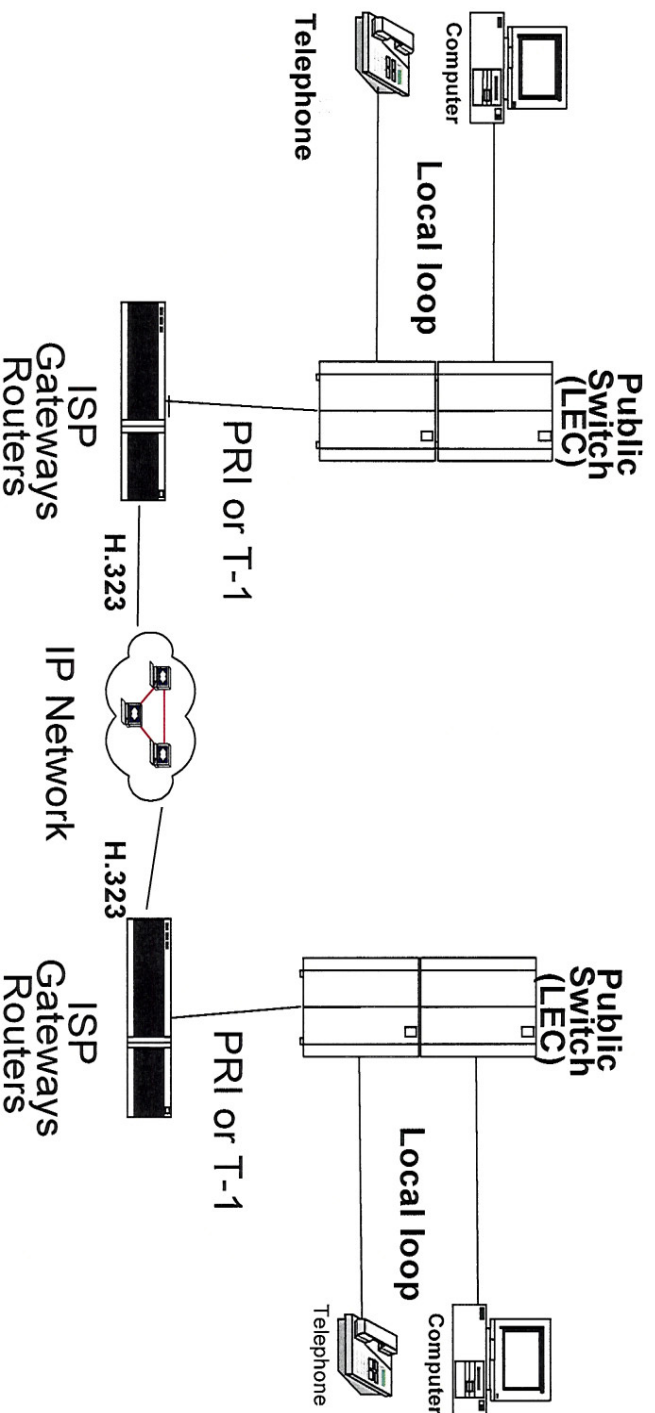Area: 139,436.64 Sq. Miles
HH Density: 40.42 HH's per Sq. Mile

CENTURYTEL
HHs: 1,969,499
Area: 185,462.67 Sq. Miles
HH Density: 10.62 HH's per Sq. Mile

SCHEDULE GEM-2

Interexchange Typical Configuration

Telephone

Computer

Local loop

Public Switch (LEC)

T-1

Digital Carrier Equipment

Copper, Fiber or Satellite

Digital Carrier Equipment

T-1

Public Switch (LEC)

Local loop

Telephone

Computer

VoIP Typical Configuration

Telephone

Computer

Local loop

Public Switch (LEC)

PRI or T-1

ISP Gateways Routers

H.323

IP Network

H.323

ISP Gateways Routers

PRI or T-1

Public Switch (LEC)

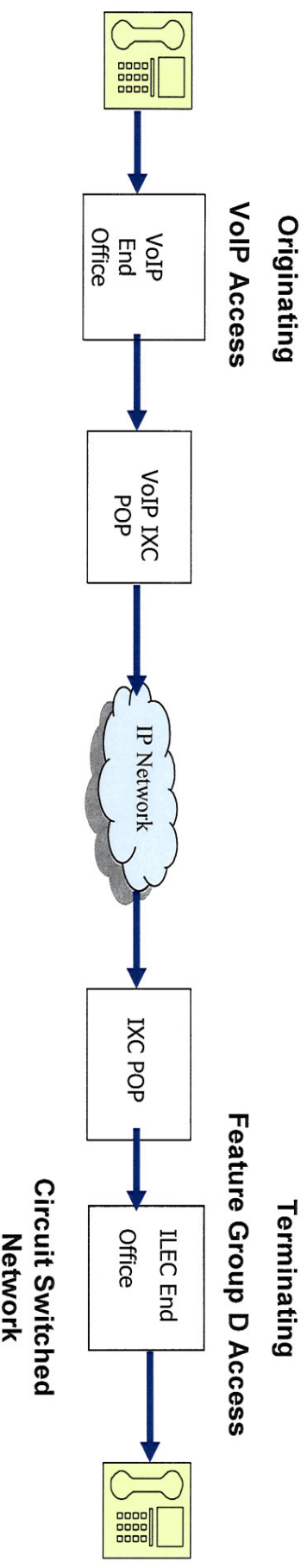Local loop

Telephone

Computer

Routers replace Digital Carrier equipment and the "IP Network" replaces the copper, fiber or satellite. This substitution illustrates how nothing but technology has changed with the use of VoIP for interexchange traffic transportation.
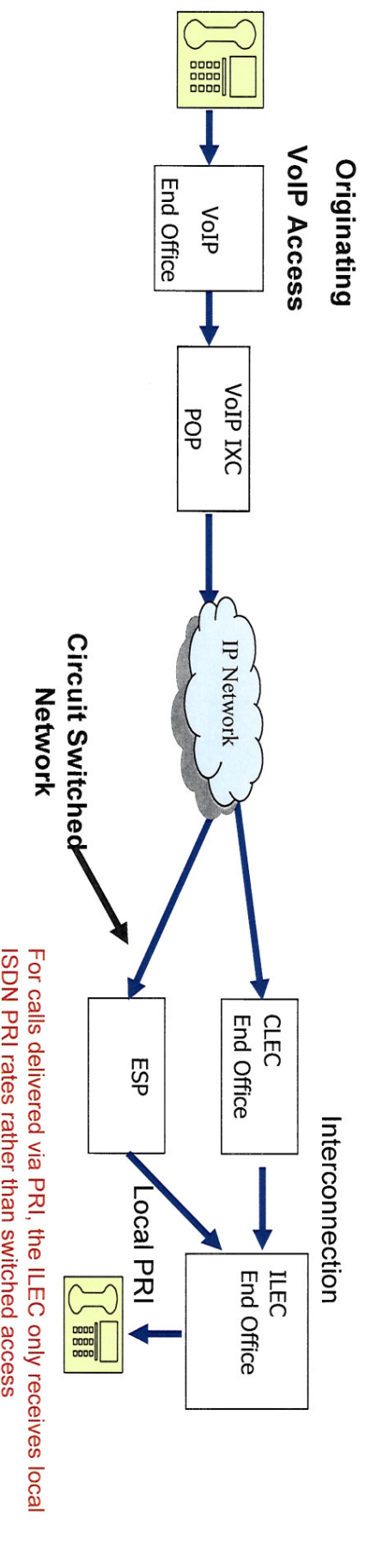
VoIP and Access Charge Avoidance

Exchange A

Exchange B

Lawful access arrangement

Originating VoIP Access

VoIP End Office

VoIP IXC POP

IP Network

Circuit Switched Network

IXC POP

Terminating Feature Group D Access

ILEC End Office

VoIP avoidance of avoid access charge payments

Originating VoIP Access

VoIP End Office

VoIP IXC POP

IP Network

Circuit Switched Network

ESP

CLEC End Office

Local PRI

Interconnection

ILEC End Office

Recip Comp is billed for calls delivered over Local Interconnection Trunks- unless bill and keep terms are in force, then nothing is billed

For calls delivered via PRI, the ILEC only receives local ISDN PRI rates rather than switched access

Exchange A

Exchange B