#### Where is Controversy? The Future of the Internet

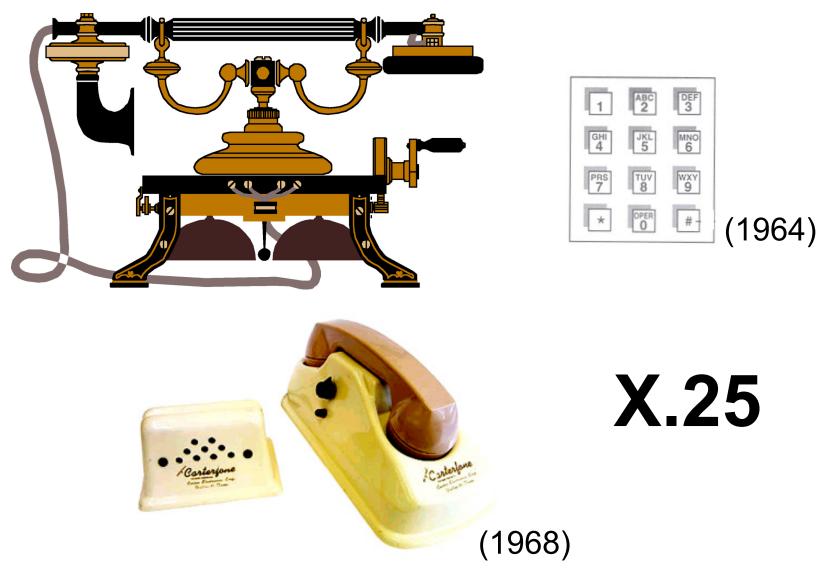
Scott Bradner

1 November 2006

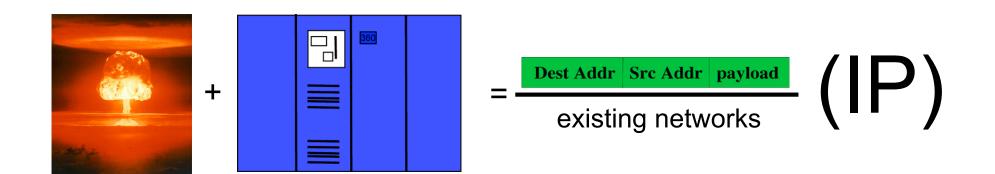
# Agenda

what was there? from whence it (the 'net) came what is here? path 0.5 path 1 path 2 the root problem cures?

### What Was There (mid 1960s)?



# From Whence It (the 'Net) Came



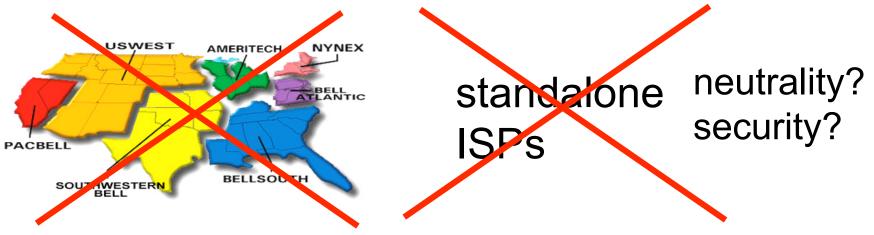
**e2e** = application agnostic

good enough is good enough (for many things)

!security
!QoS
!efficiency



#### What Is Here?



"code is law"?



> 2,000,000,000 (worldwide)

shrinking # landlines

3G, 4G ... - 'wireless data jack?"

> 700,000,000 Internet users

routing!

IN

user produced content

## Path 0.5



#### IETF

iSCSI IPV6 iCAL SIP WebDev **MPLS** NFSv4 **IPSec** smime pseudowires mobile IP Kerberos l(1|2|3)vpn . . . eap enum diffserv TLS NSIS



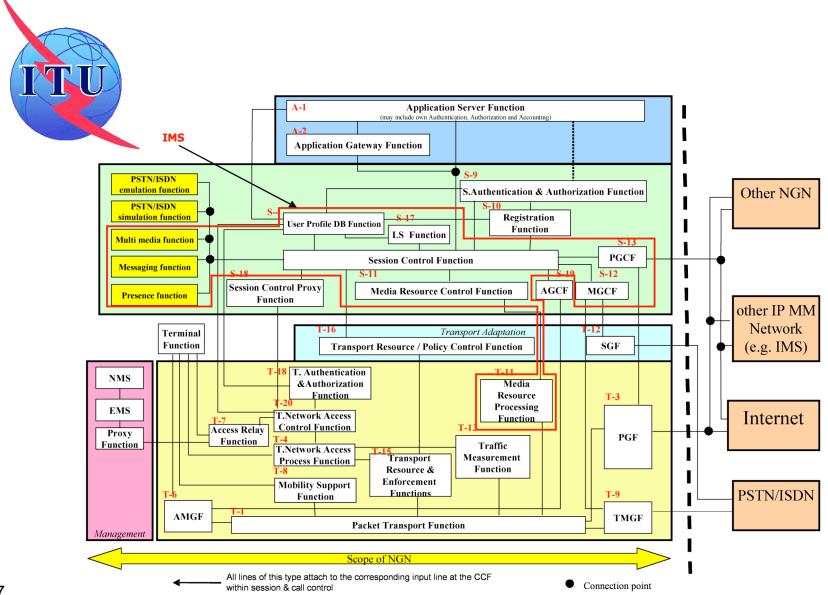


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wic - 6

. . .

# Path 1



# Path 2



#### Global Environment for Networking Investigations (GENI)

out of NewArch

#### rethink Internet based on new realities

#### The Root Problem

# flow of \$

## Cures?

It's my wire: "Google, Vonage & Skype are using my network for free" - AT&T CEO

Sep 26, 2006

San Francisco to Study City-Owned Wi-Fi

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