

Now You're Talking... For As Long As You Want!



^{*}VONAGE
digitalvoice[™]

Presentation to NANC

January 22, 2003

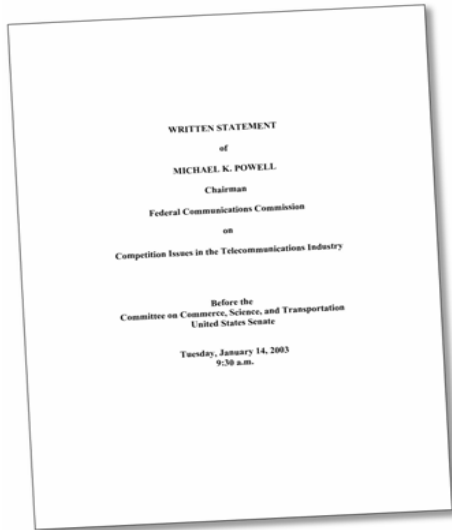
Now You're Talking... For As Long As You Want!



- * Introduction
- * Service Offering
- * Numbering
- * No Special Number Exhaust Issues Associated with VoIP Providers



Who is Vonage?



“2002 saw the introduction of reliable Internet telephony services as companies such as Vonage are providing an alternative to analog wired telephony over a broadband connection.”

–FCC Chairman Powell*

***2001**

Q1
Company
Founded

Q2
Raised
\$12MM

Q3
Technical
Testing Begins

Q4
Vonage
Consumer Beta
Begins Testing

***2002**

Q1
Vonage
DigitalVoice
Released Into
Production

Q2
Consumer
Product
Launches

Q3
Completed
One Millionth
Call on Vonage
Network

Q4
Completed
Five Millionth
Call on Vonage
Network

***2003**

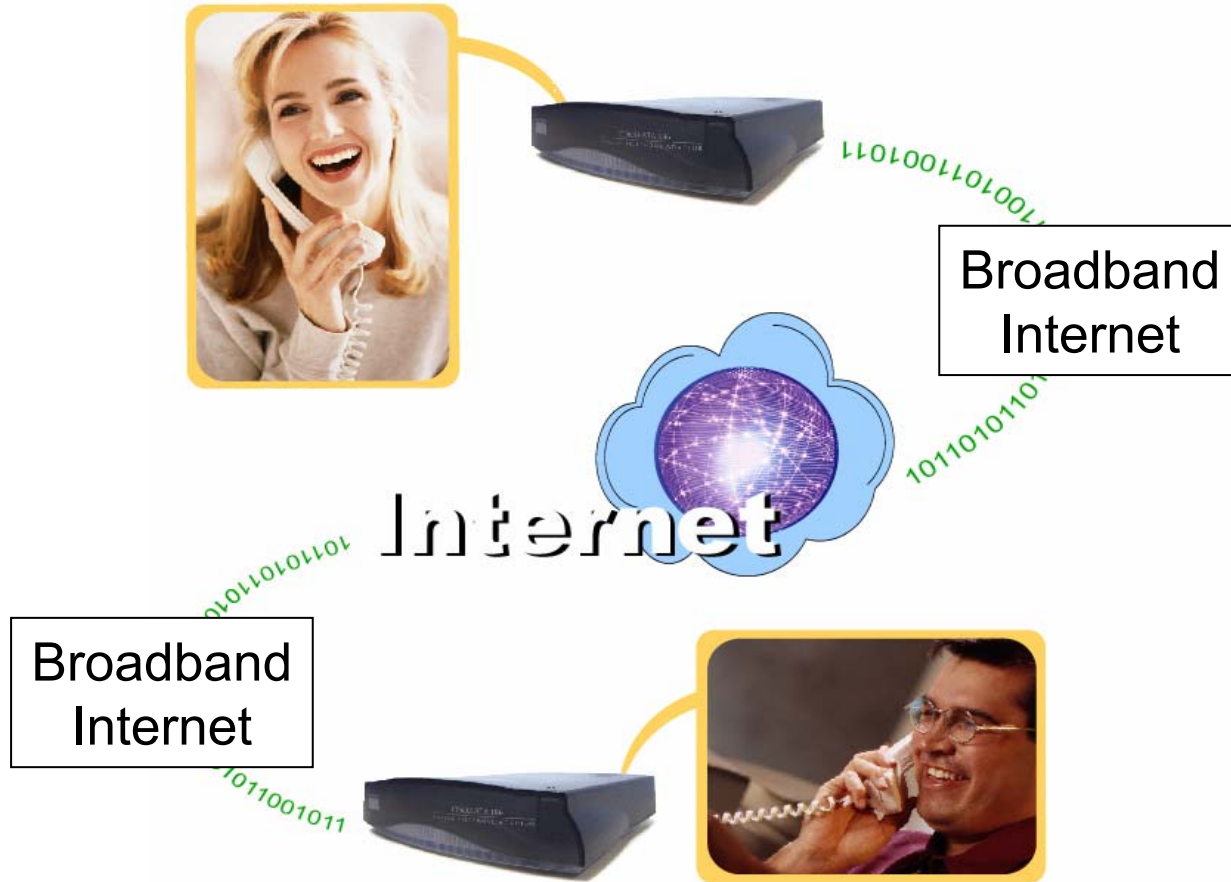
Q1
10,000
Customers

*FCC Chairman Powell in his remarks to the Senate Committee on Commerce, Science and Transportation, January 14, 2003

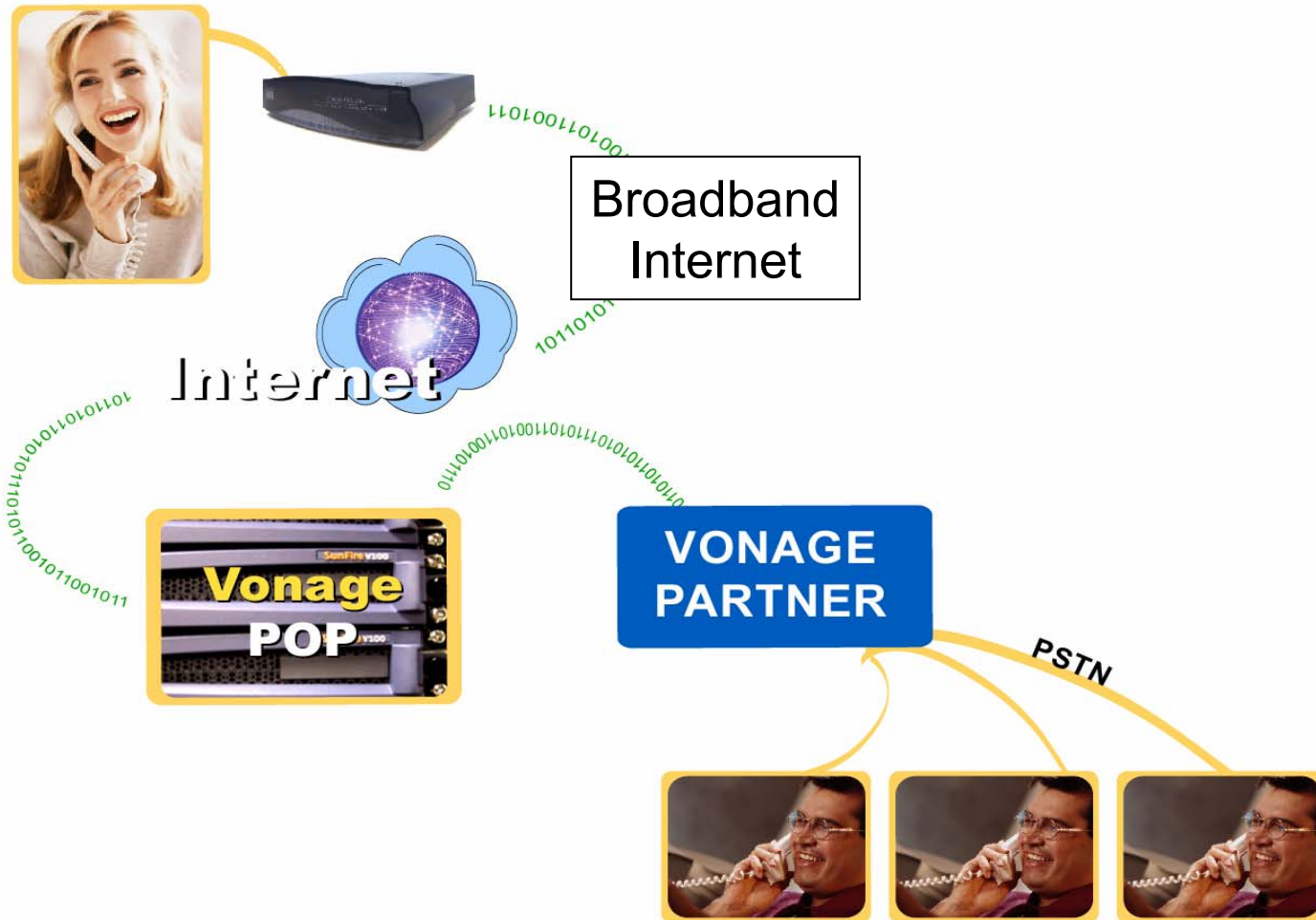


- * Plug-n-Play Customer Premises Equipment
- * Works With Any Touch-Tone Phone

Vonage to Vonage Call Flow



Vonage to PSTN Call Flow



Standard PSTN Features

- Voicemail
- Caller ID
- Call Waiting
- Call Forwarding
- Call Transfer
- Repeat Dialing
- Call Return (*69)
- Caller ID Block (*67)
- Call Hunt
- Local Number Portability

Vonage DigitalVoiceSM Features

- Web Based Voicemail Retrieval
- Real-time Calling Activity
- Low International Rates
- Online Features Management
- Network Availability Number



Premium Unlimited Residential

*Unlimited Nationwide Local & Long
Distance Calling*

\$39.99

Premium Unlimited Business

*Unlimited Nationwide Local & Long
Distance Calling*

\$69.99

VONAGE
digitalvoice*



Local Unlimited Residential

Includes 500 Long Distance Minutes

\$25.99

Basic 1500 Minute Business

*1500 Nationwide Local & Long
Distance Minutes*

\$39.99

By The End Of Q1

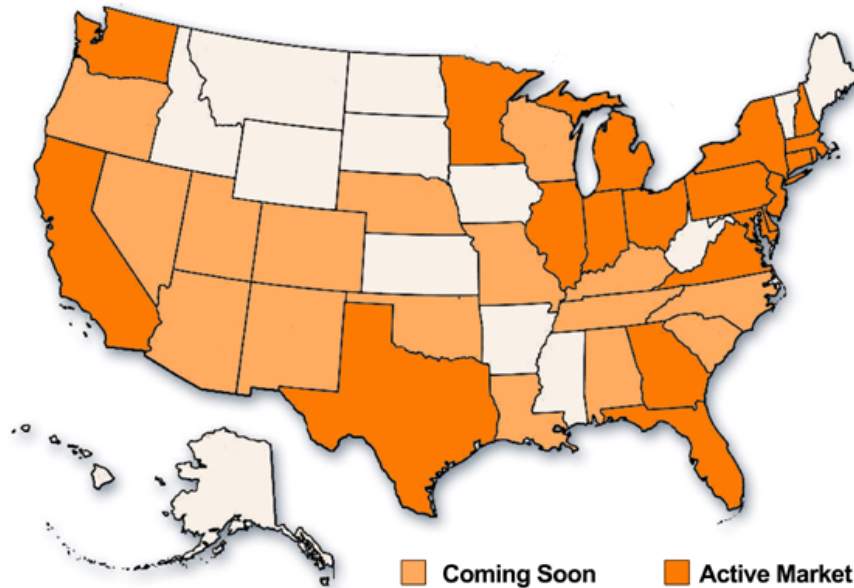
51 Markets In Service

162 Area Codes

894 Rate Centers

Vonage currently offers service in the following states/area codes:

NY 212, 917, 646, 718, 516, 631, 914, 845, 518, 585, 716, 315
NJ 732, 201, 908, 973, 609, 856
CA 415, 408, 510, 650, 707, 831, 925, 858, 619, 310, 323, 213,
 818, 714, 805, 661, 562, 626, 949, 909, 760, *916
DC 202
TX 214, 254, 469, 713, 817, 903, 940, 979, 832, 936
FL 305, 561, 786, 954, 321
GA 404, 678, 706
IL 312, 773, 847, 630, 708, 815
MA 617, 781, 508, 978, 413
DE 302
IN 219
PA 215, 267, 484, 610, 412
MD 240, 301, 443, 667, 410
MN 612, 763, 952, 651
CT 203, 860
WA 206, 253, 360, 425
VA 703
MI 248, 313, 517, 586, 734, 810
OH 440, 216
NH 603
RI 401
CO* 303,720
OR* 503, 971
AZ* 602, 480, 623
MO* 314, 636, 557
NV* 702



■ Coming Soon
 ■ Active Market

Vonage plans to offer service in the following cities in 2003

Q2 2003

Albuquerque, NM	Tampa Bay, FL	Cincinnati, OH
New Orleans, LA	Charlotte, NC	Indianapolis, IN
Louisville, KY	Charleston, SC	San Antonio, TX
Omaha, NE	Raleigh-Durham, NC	Milwaukee, WI
Norfolk, VA	Nashville, TN	Salt Lake City, UT
Oklahoma City, OK	Memphis, TN	Greenville, SC
Jacksonville, FL	Birmingham, AL	Kansas City, MO
Harrisburg, PA	Greensboro, NC	Columbus, OH
Grand Rapids, MI		

*By January 2003
POP Last Updated: 01.06.03

* **Vonage Maps IP Addresses to Phone Numbers**

- Vonage uses numbers as a unique identifier for IP addresses
- Number is assigned remotely to the MTA IP address when device registers with our network
- IP addresses are dynamic, therefore Vonage can assign MTA any number regardless of physical location
- Majority of Vonage customers choose native NPAs
- One number per account (MTA)

* **Number Mobility – MTA Device Is Similar to Wireless Phone**

- MTA is mobile throughout US wherever there is broadband
- Like a wireless phone, people can reach you at the same phone number regardless of physical location

* **Keep Your Existing Number**

- Vonage LEC partners support local number portability
- LNP allows Vonage customers, via their partnerships, the ability to migrate their existing phone numbers to Vonage service
- Customers that leave Vonage/underlying partner can also take their number with them to another provider

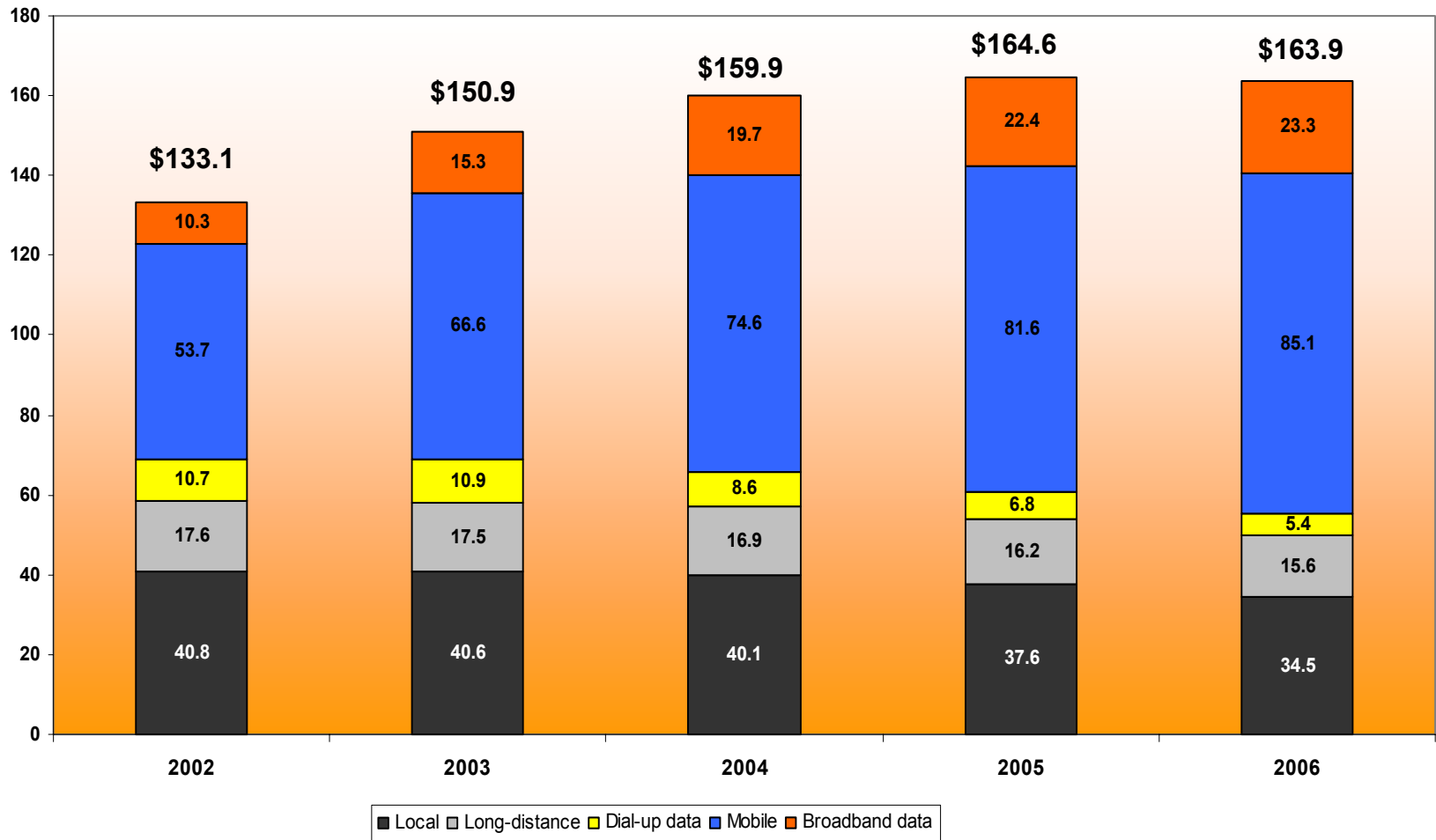
* **How does Vonage obtain numbers?**

- Vonage partners with Tier 1 local exchange carriers
- Numbers come from common carriers
- Partners then provide Vonage telephone numbers from their existing blocks
- Calls delivered to Vonage via PRI circuit at a corresponding gateway relative to the coverage area
- Vonage then dynamically assigns a number from this range via IP to a customer's MTA

- * **Numbers come from a common carrier compliant with NANPA**
- * **Vonage purchases telecommunications services/ receives number resources from common carrier like any other large business customer**
 - Large businesses receive blocks of numbers for PBXs and allocate numbers to users attached to PBX
 - Some paging carriers still use blocks of numbers from LECs to assign to their customers

- * **Ability to offer number outside of customer's "home" rate center similar to FX, wireless**
 - LECs offer customer similar ability through FX service
 - Wireless carriers also offer the ability to take foreign numbers physically into another geographic location
- * **Impact of VoIP on numbering pool at this juncture is neutral**

Annual U.S. Residential Revenue in \$billions by telecom service type



Source: Forrester Research, Inc. – data represents line fees only, does not reflect content fees like directory services

Number Exhaust Slowing Down

- * 2002 – first year in history US wireline access lines declined***
- * Migration from dial-up to broadband adds numbers back to pool**
- * Wireline access lines will likely continue to decline indefinitely with competition from wireless services and broadband**
- * FCC and state PUCs implementing number conservation measures such as 1,000 block pooling**

*FCC Chairman Powell in his remarks to the Senate Committee on Commerce, Science and Transportation, January 14, 2003, page 4

- * Impact of new technologies on numbering resources is neutral at worst**
- * Issue of exhaust is being addressed by the FCC and State PUCs' current numbering conservation efforts**
- * No special numbering conservation measures are needed due to VoIP**