Dear Ms. Farmer:

RE: Docket No. T-00000A-00-0194

Enclosed please find replacement exhibits for Joseph Craig. The exhibit headers have been changed to match his testimony. Please replace the existing pages with the attached and destroy the old ones.

If you have questions, please contact me.

Sincerely,

Monica Luckritz

Enclosures
### Number of Americans Online - Historical:

- **1993** - 90,000 (U.S. Internet Council, Apr. 1999).
- **1997** - 19 million (Stratis Group, Apr. 1999).
- **1998** - 84 million from home or work (Stratis Group, Apr. 1999).
- **U.S. Online Population - Current:**

### Online Firm Age Usage Study Date

<table>
<thead>
<tr>
<th>Firm</th>
<th>Date</th>
<th>Methodology Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nielsen NetRatings</td>
<td>May 2000</td>
<td>134.2 M 2+ Ever used</td>
</tr>
<tr>
<td>Angus Reid Group</td>
<td>Dec. 1999</td>
<td>108.0 M 18+ Past 30 days</td>
</tr>
<tr>
<td>The Strategis Group</td>
<td>Mar. 2000</td>
<td>106.0 M 18+ Ever used</td>
</tr>
<tr>
<td>Jupiter</td>
<td>Dec. 1999</td>
<td>104.5 M 2+ Past 30 days</td>
</tr>
<tr>
<td>IDC</td>
<td>Dec. 1999</td>
<td>101.5 M All Past 30 days</td>
</tr>
<tr>
<td>Mediamark Research</td>
<td>Spring 2000</td>
<td>90.5 M 18+ Past 30 days</td>
</tr>
<tr>
<td>Cyber Dialogue</td>
<td>Mar. 2000</td>
<td>75.8 M 18+ Past 30 days</td>
</tr>
</tbody>
</table>

### American Households Online

- **2000, Jan.** - 46.5 million households (The Strategis Group, Feb. 2000).

### Percentage of Americans Online:

- **1998** - 42% of the U.S. adult population. (Stratis Group, Apr. 1999)
- **2003** - 67% (Yankee Group, 1999).

### New Users Q1 2000:

More than 5 million Americans joined the online world in the first quarter of 2000, which averages to roughly 55,000 new users each day, 2,289 new users each hour, or 38 new users each minute. (CyberAtlas / Telecommunications Reports International, May 2000).

### US Internet Usage:

Average US Internet user went online 18 sessions, spent a total of 9 hours, 5 minutes and 24 seconds online and visited 10 unique sites per month. (Nielsen NetRatings, June 2000).

### Work Usage:

On average, the American worker spends 35% of his/her workday on the computer and 23% of his/her workday on the Internet. (Heldrich Center for Workforce Development, Rutgers University, Feb. 2000).
• WORK USAGE: Those with Internet access at work spend 82% of online time on work-related functions. (Heldrich Center for Workforce Development, Rutgers University, Feb. 2000).

• U.S. WIRELESS USERS: 61.5 million Americans will be using wireless devices to access the Internet in 2003, up from 7.4 million in the US today (728% increase). (IDC Research, Feb. 2000).

• MOBILE DATA: Almost 80% of the US Internet population will access data from mobile phones in a year’s time, up from the current figure of 3%. (Corechange, Inc & Cap Gemini USA, Apr. 2000).


• U.S. INTERNET ADOPTION AMONG PC USERS: 81% of computer users go online, a 54% increase over 3 years ago. (eMarketer/Harris Interactive, Feb. 2000).

• EMAIL: Number of electronic mailboxes worldwide jumped 84% to almost 570 million in 1999, and should reach 1 billion by the end of 2001. (Messaging Online, Apr. 2000).

• TIME ONLINE, LIFETIME: Analysts forecast that netizens will spend 5.3% of their lives on the Internet. (CyberDialogue, April 2000).

COMPUTER PENETRATION (AEA’s CyberNation 2.0, April 2000):

• USA -- 159 million computers
• EU -- 135 million
• APAC -- 116 million in all of Asia-Pacific.
• CORPORATE EMAILS: In 2004, companies will send more than 200 billion e-mails. (Forrester Research, February 2000).

• DOWNLOAD SPEEDS IMPROVING: Average homepage took 4.73 seconds to download by the end of 1999, 27% faster than at the beginning of the year (6.49 seconds). (Keynote Systems, April 2000).

• NEW WEB PAGES: On average, more than 3 million Web pages were created every day in 1999. (IDC, Apr. 2000).

• WEB HITS/DAY 1999: U.S. web pages averaged one billion hits per day (aggregate) in October 1999. (eMarketer/Media Metrix, Nov. 1999).

• INCREASING CORPORATE USE OF NET: Commercial use of the Net by firms and organizations is doubling every year (The Delphi Group, Oct. 1999).
• HOURS ONLINE (Veronis, Suhler & Associates, Nov. 1999):
  • 1997 – 28 hours per capita
  • 1998 – 74 hours per capita
  • 2003 – 192 hours per capita
• HOURS ONLINE: Americans watch an average of 1,610 hours per
  year of TV and listen to 992 hours of radio, compared with 1999
  Internet usage predictions of from 74 hours per capita in 1998.

HOW LONG TO REACH 30% PENETRATION? (U.S. Internet
 Council, Apr. 1999).

• Internet -- 7 years
• Television -- 17 years
• Telephone -- 38 years
• Electricity -- 46 years.
• PENETRATION, CITIES: Five U.S. cities have reached 50%
  Internet penetration among their adult populations, including
  Washington DC, San Francisco, Austin, TX, Seattle/Tacoma, and
  Salt Lake City. (Scarborough Research, Oct. 1999).
• FREE ISPs: Free ISPs will be used by 13 million U.S. households by
  2003 (13% of total online market), including by 8.8 million as
  primary Internet access. (Jupiter Communications, Dec. 1999).
• BUSINESS v. PERSONAL USERS: 54% of active U.S. Internet
  users are business users versus 46% who access the Web mainly for
  personal reasons. (eMarketer, 1999).
REDACTED
REDACTED
<table>
<thead>
<tr>
<th>Document count: access7 (313)</th>
</tr>
</thead>
<tbody>
<tr>
<td>274 result(s), Top 100 sorted by relevance</td>
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</tbody>
</table>

**HP Test & Measurement: HP ACCESS7 SYSTEM INSTALLED BY GTE TO MANAGE INTERCONNECTION AND TO...**
HP announces that GTE Network Services has deployed an HP access7 system to analyze and manage network traffic with other telecom companies and to detect fraud on...

28 May 99  
Find Similar


**HP Test & Measurement: HP'S ACCESS7 SYSTEM SELECTED BY NYNEX**
Hewlett-Packard Company today announces that it has signed a deal with NYNEX Corporation to supply the access7 network monitoring system.

28 May 99  
Find Similar

http://www.tm.agilent.com/tmo/press/English/PRTME600701.html - size 23.0K

**HP Test & Measurement: AMERITECH INSTALLS HP ACCESS7 SYSTEM TO ENSURE SMOOTH DEPLOYMENT OF...**
HP announces that Ameritech Corporation has selected the HP access7 system to centralize network operations, expedite network maintenance and management, and...

28 May 99  
Find Similar

http://www.tm.agilent.com/tmo/press/English/PRTME600811.html - size 23.0K

**Test & Measurement: Agilent access7 Network Monitoring System**
Agilent access7 is a distributed system that collects and analyzes messages from the SS7 links in a network.

14 Jan 00  
Find Similar

http://www.tm.agilent.com/tmo/datasheets/English/access7.html - size 30.5K

**HP LaserJet 5 Family Printers - Windows 95/98 and Access 7.0, Cannot Print Objects**
Windows 95

21 Apr 00  
Find Similar

http://www.hp.com/cgi-bin/eprintsupport/errpt/1/xxxx/modifycsl.asp?tid=general&fid=bp04034&pid=- - size 18.4K

Tip: You can type your query using plain language instead of just using keywords.
Example: Where do I download software drivers?
Agilent access7 Network Monitoring System
http://www.tm.agilent.com/tmo/HPaccess/ - size 19.6K

HP Test & Measurement: HP'S ACCESS7 SYSTEM TO MONITOR "NERVOUS SYSTEM" OF SWISS TELECOM'S...
HP announces it has signed a $3.2 million (CHF 4.1 million) deal with Swiss Telecom PTT to supply the government-owned company with its access7 network monitoring...
http://www.tm.agilent.com/tmo/press/English/PRIME1400611.html - size 22.7K

HP Test & Measurement: HP INTRODUCES ACCESS7 BUSINESS-INTELLIGENCE SOLUTION TO HELP NETWORK...
HP announces the HP access7 business-intelligence solution.
http://www.tm.agilent.com/tmo/press/English/PRIME600808.html - size 24.5K

HP Test & Measurement: HP'S ACCESS7 BUSINESS-INTELLIGENCE SOLUTION DEPLOYED BY BELL ATLANTIC
HP announces that Bell Atlantic, a leading communications service provider in the United States, is one of the first companies to deploy the recently announced HP access7.
http://www.tm.agilent.com/tmo/press/English/PRIME600807.html - size 24.3K

Test & Measurement: HP INTRODUCES ACCESS7 BUSINESS-INTELLIGENCE APPLICATIONS TO HELP...
HP introduces two HP access7 business-intelligence applications.

274 result(s) found, sorted by relevance
Agilent acceSS7 Network Monitoring System

Summary

Agilent acceSS7 is a distributed system that collects and analyzes messages from the SS7 links in a network. It is switch-independent, providing a comprehensive, impartial view of what is happening on the network, even during fault conditions.

For complete information about acceSS7 visit our website at www.acceSS7.com

Agilent acceSS7 is widely accepted as the standard for SS7-based telecom network monitoring and data-mining. It now dominates the world market. The installed customer base for Agilent acceSS7 has increased to more than 60 companies in five continents, and includes many of the most successful network operators. It covers both large and small networks, wireless and wireline deployments. Over the years we have built up an excellent relationship with our customers, working with them to sharpen our understanding of the telecom network operators' business objectives.

Agilent acceSS7 - Gives you the Data you need

Agilent acceSS7 uses specially designed hardware to monitor SS7 links at selected nodes in your network, typically STPs or transit exchanges. The monitoring sites are interconnected, via a WAN, to a central server.

http://www.tm.agilent.com/tmo/datasheets/English/acceSS7.html
Test & Measurement: Agilent acceSS Network Monitoring System

which configures and co-ordinates the activities of all sites. Users interact with the system by means of workstations connected to the central server.

Features

Agilent acceSS brings many benefits to your organization:

- Centralized network maintenance
- Monitoring all parts of the network in real-time
- Reduced time and labour for implementing new services
- Optimizing current network infrastructure
- Detecting Fraud as it happens
- Negotiating and supporting more effective interconnect agreements