Verizon
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Irving, TX 75038-3897

Short Term Public Notice of Network Change Under Rule 51.333(a)

Verizon Optical Networking (VON)

July 30, 2003

Type of change:
This network disclosure is associated with Verizon Optical Networking (VON) services, which were formerly called IntelliLight® Flexible Optical Networking (IFON) services. A previous disclosure under the IFON service name included private line (point-to-point) Ethernet, Fast Ethernet, and Gigabit Ethernet (partial-rate and full-rate) channels transported over Verizon's network infrastructure. The Ethernet channels can range from 10 Megabits per second to 1 Gigabit per second. Ethernet, Fast Ethernet, and Gigabit Ethernet data from customer equipment may be mapped into SONET tributaries using various Ethernet over SONET (EoS) mappings and vice versa. These SONET tributaries are in turn multiplexed onto and off of SONET transmission systems.

This disclosure includes the following EoS mappings:

> The Ethernet channels described above (ANSI/IEEE Std 802.3, 802.3u, 802.3z/802.3ab, and 802.3ae WAN/LAN PHY) may be mapped into one or more of the following SONET tributaries/payloads: VT1.5, STS1, STS3c, STS12c, STS48c, STS192c, VT1.5-Nv, STS1-Nv, STS3c-Nv (N=1 to 64).

This disclosure also includes the following interfaces available with VON services:

> **Fiber CONnection (FiCON)** provides full duplex, serial bit transmission at a link rate of 1.0625 Gbps and 2.125 Gbps among mainframes, storage devices, and peripherals. Multiple concurrent input/output (I/O) interfaces can occur on a single FICON channel. FICON is an IBM specification.

> **Fibre Channel** provides full duplex, serial bit transmission at a link rate of 133 Mbps, 266 Mbps, 531 Mbps, and 1.0625 Gbps and 2.125 Gbps among mainframes, storage devices and peripherals on a single channel. Fibre Channel is an ANSI/NCITS standard.

> **Intersystem Channel – 1 (ISC-1)** provides serial bit transmission (531 Mbps and 1.0625 Gbps line rate) point-to-point transmission between servers in a Parallel Sysplex environment. ISC-1 is an IBM specification.

> **Intersystem Channel – 2 (ISC-2)** provides serial bit transmission (531 Mbps and 1.0625 Gbps line rate) point-to-point transmission between servers in a Parallel Sysplex environment. ISC-2 is an IBM specification.

Intersystem Channel – 3 (ISC-3) provides serial bit transmission (1.0625 Gbps and 2.125 Gbps line rate) point-to-point transmission between servers in a Parallel Sysplex environment. ISC-3 is an IBM specification.

External Timing Reference/Control Link Oscillator (ETR/CLO) – The External Time Reference (ETR) facilitates the synchronization of time-of-day (TOD) clocks to ensure consistent time stamp data in an installation with multiple, coupled systems.   The Control Link Oscillator (CLO) allows two ETRs in an expanded availability configuration to maintain synchronization. The ETR/CLO (8 Mbps and 16 Mbps line rate) is an IBM specification.

10 Gigabit Ethernet – 10 Gigabit Ethernet uses the 802.3 Ethernet MAC protocol and the same Ethernet frames as 10, 100 and 1000 Mbps Ethernet. IEEE 802.3ae defines two standard 10 Gigabit Ethernet physical (PHY) layer device interface classifications. These two 10 Gigabit Ethernet PHY classifications are the WAN PHY (includes 10G-Base-SW, 10G-Base-LW, and 10G-Base-EW) and LAN PHY (includes 10G-Base-SR, 10G-Base-LR, and 10G-Base-ER).

These services will conform to the following technical references (or subsequent versions):

Telcordia Technologies:
Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria, GR-253-CORE, Issue 3, September 2000.

American National Standards Institute (ANSI):
ANSI X3.303 Fibre Channel Physical Interface, 1998.

Institute of Electrical and Electronic Engineers (IEEE):
IEEE 802.3-2002 Information Technology - Telecommunication & Information Exchange Between Systems - LAN/MAN - Specific Requirements - Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications 2002. This specification includes 802.3ae 10 Gigabit Ethernet.

International Telecommunications Union (ITU):
Network Node Interface for the Synchronous Digital Hierarchy, ITU-T Recommendation G.707, October 2000. Generic Framing Procedure (GFP), ITU-T Recommendation G.7041, October 2001.

Internet Engineering Task Force (IETF):
PPP over SONET/SDH, IETF Network Working Group, RFC 2615 - June 1999 and RFC 3255 - April 2002.

International Business Machines (IBM) Publications:
FICON Native Implementation and Reference Guide, SG24-6266-01,October 2002; IBM S/390 FICON Implementation Guide, SG24-5169-00, December 1999; OS/390 Parallel Sysplex Configuration, Volume 1: Overview, SG24-5637-00; OS/390 Parallel Sysplex Configuration, Volume 2: Cookbook, SG24-5638-00, September 2000; Coupling Facility Channel I/O Interface Physical Layer, SA23-039500, December 1999; and OS/390 and Time Management and IBM 9037 Sysplex Timer, SG24-2070-00.

To obtain documents contact:

Telcordia Customer Service
8 Corporate Place, Room 3A184
Piscataway, NJ 08854-4156
1-800-521-CORE (USA and Canada)
908-699-5800 (all others)
http://www.Telcordia.com

American National Standard Institute (ANSI)
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11 West 42nd Street
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212-642-4900
http://www.ANSI.org

IEEE Publications Office
10662 Los Vaqueros Circle
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Internet Engineering Task Force (IETF)
IETF "Request for Comments" web site
http://www.ietf.cnri.reston.va.us/rfc.html

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Dates changes are to occur:
Verizon plans to offer the services described in this disclosure beginning in January of 2004. To confirm the scheduled deployment dates, contact the Offer Manager listed below.

Location changes are to occur:
VON services described in this disclosure will be available throughout the Verizon region where suitable facilities and capacities are available.

Impact of changes:
Customers interested in ordering VON services will need to utilize customer provided equipment (CPE) that meets the interface requirements listed above or listed in previous disclosures. Currently, a number of standards apply to EoS mappings. To interoperate, network elements on both ends of the network must implement the same mappings.

Verizon Contact:
For more specific information regarding geographic availability, pricing, or technical information, contact:

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