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:**

**American National Standards Institute (ANSI):**

**Institute of Electrical and Electronic Engineers (IEEE):**

**International Telecommunications Union (ITU):**

**Internet Engineering Task Force (IETF):**

**International Business Machines (IBM) Publications:**
[OS/390 Parallel Sysplex Configuration, Volume 1: Overview](https://www.ibm.com), SG24-5637-00;
Short Term Public Notice of Network Change
Verizon Optical Networking (VON)
July 30, 2003
Page 3

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)
Customer Service
11 West 42nd Street
New York, NY 10036
212-642-4900
http://www.ANSI.org

IEEE Publications Office
10662 Los Vaqueros Circle
P. O. Box 3014
Los Alamitos, CA 90720-1264
1-800-272-6657
http://www.ieee.org

International Télécommunications Union
Place des Nations
CH-1211 Geneva 20
Switzerland
Telephone: +44 22 730 6141
Fax: +41 22 730 5194
http://www.itu.int/

Internet Engineering Task Force (IETF)
IETF “Request for Comments” web site
http://www.ietf.cnri.reston.va.us/rfc.html

IBM North America
1133 Westchester Avenue
White Plains, NY 10604
United States
Telephone: 1-888-746-7426
http://www.ibm.com

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:

Mr. Douglas S. Morgan
VON Offer Manager
700 Hidden Ridge
Irving, TX 75038
972-719-7422