

LINEAR GLOBAL DATA LINK SERVICES

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1. GENERAL

1.1 **Service Definition.** Linear Global Data Link (Linear GDL) is a point-to-point full circuit private line service. Linear GDL circuits provide a non-restorable (linear) connection that is available without backup capacity. Linear GDL services include Digital services, DS3 (Digital Signal Level 3), which transmits at 44.736 Mbps.

1.2 **Platforms.** These terms apply to non-optimized Linear Global Data Link Services only.

1.3 **Availability.** Outside the U.S. Mainland, Verizon provides Linear GDL service only to specified geographic areas, based on Verizon Points of Presence that support Linear GDL. Availability is subject to legal, regulatory, equipment, geographic, technical, and other limitations or conditions affecting the service.

1.4 **Linear GDL Service Between the U.S. Mainland and Canada and Mexico.** In addition, Linear GDL service may be limited by technical and non-technical service limitations of Canadian or Mexican carrier(s).

1.5 **Features.** The following additional features and options may be available:

1.5.1 **SONET and Wave Services.** Linear GDL also offers SONET and Wave services with Verizon's approval on an individual case basis where available and upon Customer's request. SONET provides optical private line services with synchronous optical network (SONET) transmission at speeds of 155 Mbps (OC-3), 622 Mbps (OC-12), and 2.488 Gbps (OC-48). Wave service is provided over Verizon's optical fiber network using Dense Wave Division Multiplexing (DWDM). Wave service is provided with Transparent (Transparent Synchronous Frame), Ethernet, and OTN customer interfaces at speeds of 10 Gbps, 40 Gbps, and 100 Gbps.

1.5.2 **Special Routing.** Linear GDL Circuits may be provisioned with the following Special Routing types:

- **Mandatory Route.** With Mandatory Route, Verizon will restrict the route a circuit can take to the extent that the circuit must pass through specific locations. With Mandatory Route, Verizon will route a circuit only through the specific locations identified in the Linear GDL Service Attachment.
- **Diverse Mated Pair with Limited Route Diversity.** With Diverse Mated Pair with Limited Route Diversity, Verizon will maintain ~~fiber diverse routing~~ with at least 25 ft of separation and/or hardened ducts between two circuits, with varying degrees of geographic route diversity through specific locations approved by the customer and -identified in the Linear GDL Service Attachment.
- **Diverse Mated Pair with Full Route Diversity.** With Diverse Mated Pair with Full Route Diversity, Verizon will maintain the fiber diverse routing end to end between two circuits. Fiber diverse routing maintains at least 25 ft of separation and/or uses hardened ducts between two circuits, through

specific locations approved by the customer and identified in the Linear GDL amendment to the Service Attachment.

1.5.2.1 Verizon will obtain Customer's consent prior to reconfiguring a circuit with special routing, except in the event of a network outage, in which case Verizon reserves the right to re-route the circuit without obtaining prior Customer consent. For circuits that include special routing, Verizon will periodically check the circuit routing throughout the circuit term to verify whether special routing has been maintained. If Verizon learns that special routing has not been maintained, then Verizon will use reasonable efforts to restore special routing. If Verizon cannot restore special routing within 60 days after discovering that special routing has not been maintained, Verizon will notify Customer that special routing cannot be restored and Customer has the option within 60 days from such notification from Verizon to disconnect the circuit subject to the special routing requirement without any early termination liability.

1.5.3 **Rerouting.** With the exception of Special Routing, Verizon reserves the right to reroute circuits entirely at Verizon's discretion, including, but not limited to, upgrades to network equipment and restoring services in the event of an outage. A rerouted circuit may not have similar routing or latency as the original route. At Verizon's discretion, Verizon may or may not temporarily or permanently reroute a circuit to an alternate path following an outage or network upgrade.

2. **SUPPLEMENTAL TERMS.** In addition to the Master Terms of this Agreement, the following Terms apply.

2.1 **Outside of the U.S.** Outside of the United States, Linear GDL service is also subject to the laws and regulations of the foreign country where the circuit terminates.

2.2 **Restriction on Encryption Functionality in India.** Prior to connecting any encryption equipment to Verizon Facilities in India Customer must obtain prior evaluation and approval from the relevant telecom authority.

2.3 **Local Access Service.** Local Access service is required and is provided by MCI Legacy Company pursuant to a separate service attachment (e.g., Network Service Local Access Services, Metro Private Line Access Services or through a third party for local access provided both within and outside the United States).

3. **SERVICE LEVEL AGREEMENTS.** The following Service Level Agreements (SLA) apply: https://enterprise.verizon.com/service_guide/reg/cp_lgdl_sla.htm.

4. **FINANCIAL TERMS.** Customer will pay the charges for Linear Global Data Link Services specified in the Agreement and at the following URL: <https://enterprise.verizon.com/service/cp-lgdl-rates-charges.pdf>.

5. **DEFINITIONS.** The following definitions apply to Linear Global Data Link Services in addition to the definitions identified in the Agreement, and the administrative charge definitions at the following URL: www.verizonenterprise.com/service_guide/reg/definitions_toc_2017DEC01.htm.

Term	Definition
MCI Legacy Company	An affiliate of Verizon that was an affiliate of MCI, Inc. prior to the acquisition of MCI, Inc. by Verizon Communications Inc., including one or more of the following entities (without limitation): MCI Communications Services, Inc. d/b/a Verizon Business Services; MCImetro Access Transmission Services LLC d/b/a Verizon Access Transmission Services; MCImetro Access Transmission Services of Virginia, Inc. d/b/a Verizon Access Transmission Services of Virginia; and MCImetro Access Transmission Services of Massachusetts, Inc. d/b/a Verizon Access Transmission Services of Massachusetts, and applicable affiliated operating companies outside the United States.