SCHEDULE K – Wavelength Services

RING SERVICES

INTEGRATED OPTICAL SERVICE

The pricing structure for Verizon Integrated Optical Service is similar to that for SONET services. The billable elements for Verizon IOS services are Nodes, Riders, and Mileage. All are billed monthly. Nodes are the physical IOS nodes located in the Verizon CO or in a customer-designated premises.   Riders are similar to SONET Ports and are the bandwidth channels allocated on the IOS ring. Mileage is the distance between nodes.

Installation charges are waived however in the event the state removes a service in the first 12 months, Verizon reserves the right to charge install charges.

Integrated Optical Service - Protected Riders (Unit MRC is Per Appearance. Two Appearances per Rider)	
SONET OC48/48c	$900.00
SONET OC48/48c w/Drop Side Protection	$1,075.00
SONET OC192/192c	$2,200.00
SONET OC192/192c w/Drop Side Protection	$2,550.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	$2,200.00
Integrated Optical Service - Unprotected Riders (Unit MRC is Per Appearance. Two Appearances per Rider)	
SONET OC48/48c	$650.00
SONET OC192/192c	$1,225.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	$1,225.00

Feature:	
OWS 1+1 Card Protection Feature	$0.00

IOS Ring Service					
Rate Elements	12 Mth	24 Mth	36 Mth	60 Mth	84 Mth
Nodes					
Pt-Pt 1-Degree Node (Unprotected 8 Wave)	$29,809	$16,395	$7,998	$6,558	$5,856
Pt-Pt 2-Degree Node (Protected 8 Wave, no SONET)	$49,169	$27,043	$13,192	$10,817	$9,658
Pt-Pt 2-Degree Node (Protected 8 Wave, with SONET)	$61,451	$35,577	$17,332	$14,082	$12,754
Pt-Pt 1-Degree Node (Unprotected 40/44 Wave)	$38,351	$21,093	$10,289	$8,437	$7,533
Pt-Pt 1-Degree Node (Unprotected 88 Wave)	$68,945	$36,287	$17,678	$14,364	$13,008
Pt-Pt 2-Degree Node (Protected 40/44 Wave)	$76,929	$40,489	$19,725	$16,027	$14,515
Pt-Pt 2-Degree Node (Protected 88 Wave)	$134,519	$70,799	$34,492	$28,025	$25,381
Standard IOS Node	$35,416	$20,504	$9,739	$8,116	$7,214
3-Degree Node	$47,018	$27,221	$12,930	$10,775	$9,578

	12 Mth*	24 Mth*	36 Mth*	60 Mth*	84 Mth*
4-Degree Node	$58,621	$33,938	$16,121	$13,434	$11,941
5-Degree Node	$70,223	$40,656	$19,311	$16,093	$14,305
6-Degree Node *****{SEE NOTE 1}*****	$81,826	$47,373	$22,502	$18,752	$16,668
7-Degree Node *****{SEE NOTE 1}*****	$93,428	$54,090	$25,693	$21,411	$19,032
8-Degree Node *****{SEE NOTE 2}*****	$105,031	$60,807	$28,883	$24,070	$21,395
Spur Node *****{SEE NOTE 1}*****	$35,416	$20,504	$9,739	$8,116	$7,214
Mileage					
IOS Mileage *(For Pt-Pt IOS, only mileage after first 20 miles for Unprotected IOS Pt2Pt or 40 miles for Protected IOS Pt2Pt)*	$1,305.00	$755.00	$359.00	$299.00	$266.00
Protected Riders (Two Appearances per Rider)	**12 Mth***	**24 Mth***	**36 Mth***	**60 Mth***	**84 Mth***
DS1	$125.00	$75.00	$75.00	$75.00	$75.00
DS3	$300.00	$150.00	$150.00	$150.00	$150.00
SONET OC3/3c	$4,405.00	$2,643.00	$1,259.00	$1,017.00	$881.00
SONET OC12/12c	$4,405.00	$2,643.00	$1,259.00	$1,017.00	$881.00
SONET OC48/48c	$5,459.00	$3,275.00	$1,560.00	$1,260.00	$1,092.00
SONET OC192/192c	$7,215.00	$4,329.00	$2,062.00	$1,665.00	$1,443.00
SONET OC3/3c w/Drop Side Protection	$4,505.00	$2,743.00	$1,359.00	$1,117.00	$981.00
SONET OC12/12c w/Drop Side Protection	$4,605.00	$2,843.00	$1,459.00	$1,217.00	$1,081.00
SONET OC48/48c w/Drop Side Protection	$5,759.00	$3,575.00	$1,860.00	$1,560.00	$1,392.00
SONET OC192/192c w/Drop Side Protection	$7,715.00	$4,829.00	$2,562.00	$2,165.00	$1,943.00
SONET OC768 w/Drop Side Protection	$50,161.00	$30,397.00	$14,868.00	$12,153.00	$10,632.00
1Gbps Fibre Channel/FICON	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
2Gbps Fibre Channel/FICON	$5,459.00	$3,275.00	$1,560.00	$1,260.00	$1,092.00
4Gbps Fibre Channel	$7,381.00	$4,429.00	$2,109.00	$1,703.00	$1,476.00
10Gbps Fibre Channel/FICON	$7,215.00	$4,329.00	$2,062.00	$1,665.00	$1,443.00
10M Ethernet	$1,200.00	$600.00	$400.00	$300.00	$250.00
Fast Ethernet @ 50Mbps	$1,200.00	$600.00	$400.00	$300.00	$250.00
Fast Ethernet @ 100Mbps	$1,200.00	$600.00	$400.00	$300.00	$250.00
Gigabit Ethernet @ 50Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 100Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 150Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 300Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 450Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 600Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Gigabit Ethernet @ 1000Mbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	$7,215.00	$4,329.00	$2,062.00	$1,665.00	$1,443.00
SDI Video 270Mbps	$4,405.00	$2,643.00	$1,259.00	$1,017.00	$881.00
High Definition Video 1.485Gbps	$5,325.00	$3,195.00	$1,521.00	$1,229.00	$1,065.00
Unprotected Riders (Two Appearances per Rider)	**12 Mth***	**24 Mth***	**36 Mth***	**60 Mth***	**84 Mth***
SONET OC48/48c	$2,634.00	$1,580.00	$753.00	$608.00	$527.00
SONET OC192/192c	$3,416.00	$2,050.00	$976.00	$788.00	$683.00

SONET OC768	$24,506.00	$14,704.00	$7,002.00	$5,655.00	$4,901.00
1Gbps Fibre Channel/FICON	$2,566.00	$1,540.00	$733.00	$592.00	$513.00
2Gbps Fibre Channel/FICON	$2,634.00	$1,580.00	$753.00	$608.00	$527.00
4Gbps Fibre Channel	$3,553.00	$2,132.00	$1,515.00	$820.00	$711.00
10Gbps Fibre Channel/FICON	$3,416.00	$2,050.00	$976.00	$788.00	$683.00
Gigabit Ethernet @ 1000Mbps	$2,566.00	$1,540.00	$733.00	$592.00	$513.00
10Gbps Ethernet (LAN-PHY/WAN-PHY)	$3,416.00	$2,050.00	$976.00	$788.00	$683.00

Subsequent Node Installation NRC **For live support regarding CSM application.**	**$5,000.00**
CSM Consultation NRC **For live support regarding CSM application.**	**$100 per 30 minutes.**

POINT TO POINT SERVICES

OPTICAL WAVE SERVICE (OWS)

The billing elements for Verizon OWS service are monthly costs for each Channel Termination.

Installation charges are on a case by case basis and will vary depending upon location and amount of Network Build required for that specific project. Install charges will be identified and presented to the State for review and authorization prior to commencing the project.

OWS Point to Point	
Channel Terminations	
	MRC
OWS Basic Unprotected Transparent OC48 Channel Termination	$4,132.50
OWS Basic Unprotected Transparent OC192 Channel Termination	$5,970.50
OWS Basic Unprotected 10Gigabit Ethernet LAN-PHY Channel Termination	$5,970.50
OWS Basic Unprotected 10Gigabit Ethernet WAN-PHY Channel Termination	$5,970.50
OWS Premium Protected Transparent OC48 Channel Termination	$6,664.00
OWS Premium Protected Transparent OC192 Channel Termination	$8,211.00
OWS Premium Protected 10Gigabit Ethernet LAN-PHY Channel Termination	$8,211.00
OWS Premium Protected 10Gigabit Ethernet WAN-PHY Channel Termination	$8,211.00
OWS Premium Protected Transparent OC48 Channel Termination with Fiber Path Diversity	$7,059.50
OWS Premium Protected Transparent OC192 Channel Termination with Fiber Path Diversity	$8,589.00
OWS Premium Protected 10Gigabit Ethernet LAN-PHY Channel Termination with Fiber Path Diversity	$8,589.00
OWS Premium Protected 10Gigabit Ethernet WAN-PHY Channel Termination with Fiber Path Diversity	$8,589.00

US Wavelength Service

US Wavelength is an interLATA point to point Wavelength.

All US Wavelength service pricing is ICB.