

RESOLUTION NO. 1676

**A Resolution of the Commissioners
of Public Utility District No. 1 of Okanogan County
Establishing Broadband Wholesale Rates on the District's Telecommunication System**

WHEREAS, the District has installed a fiber-optic and wireless telecommunications system to provide wholesale broadband services to retail providers; and

WHEREAS, the District has established rates for wholesale services charged to retail providers; and

WHEREAS, it is necessary to periodically review the rates to verify the services offered and charges for such services are fair and reasonable; and

WHEREAS, the District has determined it needs to offer rates for various configurations of services; and


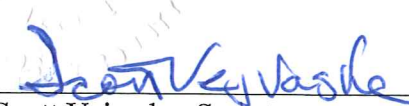
WHEREAS, the District has determined it is prudent to clarify the service definitions; and

WHEREAS, this Resolution supersedes previous rate resolutions and service definitions without affecting the terms of existing written contracts.

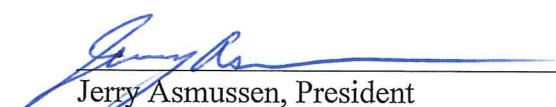
NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of Public Utility District No. 1 of Okanogan County adopts the Wholesale Broadband Rate Schedule attached hereto as Exhibit A and the Service Definitions attached hereto as Exhibit B, to be effective January 1, 2019 without affecting the terms of existing written contracts.

PASSED AND APPROVED this 17th day of December, 2018.

ATTEST:

Scott Vejraska, Secretary



Jerry Asmussen, President



Bill Colyar, Vice President

APPROVED:



Heidi E. Appel, General Counsel

Resolution No. 1676 – Exhibit B
Okanogan County PUD
Service Definitions

Residential Fiber Services

The type of property defined by the parcel definition or zoning as “Residential”, a single dwelling or multi dwelling land with a building structure for the sole purpose of providing living accommodations.

Residential Services would include Voice, Video, Data or Internet with limitation to the capacity of the services without the ability to retransmit or resell the services to any party outside the residential parcel being served. These services would be for the sole purpose of resident personnel use. Service levels or quality of services would be defined “Best Effort” and Customer Premise Equipment “CPE” devices would be defined as basic equipment with limited functionality. All services must be provided to the residential user through a “Retail Service Provider” with billing information related to the customer and location.

Limitations:

- No Resale, Re-transmit, or Transport beyond the residential property allowed
- Service response will be limited to 8:00am to 5:00pm Monday thru Friday (excluding Holidays)

Small Business Fiber Services

The type of property defined by the parcel definition or zoning as “Residential”, “Commercial” or “Industrial”, a structure or land with categories of Living Accommodations, Leisure, Retail, Office, Industrial or Government. Small Business Services would include Voice, Video, Data or Internet with limitation to the capacity of services without the ability to retransmit or resell the services to any party outside the parcel being served. Service levels or quality of services would be defined “Basic” and Customer Premise Equipment “CPE” devices would be defined as basic equipment with limited functionality. All services must be provided to Small Business address through a “Retail Service Provider” with billing information related to the customer and location.

Limitations:

- No Resale, Re-transmit, or Transport beyond the Small Business property allowed
- Service response will be limited to 7:00am to 7:00pm Monday thru Saturday (excluding Holidays)

Carrier/Large Business Fiber Services

A Carrier/Large Business is defined as a business with the intent to provide telecommunications or communication services to a customer, business or to another carrier or provider. The type of services could be defined as "Residential", "Commercial," or the delivery of services to another Carrier or Provider. Service delivery within the Carrier's network for the sole purpose to transport or preparation for service delivery to customers would be defined as "Carrier/Large Business" grade services. Services delivered to another Carrier or Provider would be classified as "Carrier/Large Business" grade services.

Services would be defined as "Basic", "Redundant" or "Self-Healing" and subject to availability, pricing and a Service Level Agreement "SLA". The Customer Premise Equipment "CPE" devices would be defined as commercial grade, installed based on the service delivery and service level requirements outlined by the "Provider". All services must have an end user billing information to be defined as "Residential" or "Commercial", otherwise would be classified as Carrier/Large Business Services.

Limitations:

- SLA – Defined by Service Type : Basic, Redundant or Self-Healing

Note: All services which are Re-transmitted, resold, or transported that is not a resident or commercial business which is billed or invoiced from the provider, will be defined as Carrier/Large Business Services.

Response to service related issues will be offered in order of service type with service priority offered in the following order:

Priority 1 – Hosted Services (Colocation & Hosted Routing)

Priority 2 – Carrier/Large Business Grade services

Priority 3 – Small Business Grade Services

Priority 4 – Residential Grade Services

Priority 5 – Wireless Services

Hosted Routing Services

Hosted routing services are a value added service that allows Retail Service Providers to forego the responsibility of managing and maintaining their own routing infrastructure to rout customer traffic to an upstream Internet Bandwidth provider. This service is only available to Retail Service Providers whose entire customer base is served solely from the broadband infrastructure that is owned and operated by the Public Utility District No. 1 of Okanogan County. The services offered under the Hosted Routing package are as follows:

Package Description

1 1000BaseX Network interface to support the transport of RSP traffic within the PUD's network infrastructure

1 1000BaseX Network interface to support connectivity to Upstream Internet Bandwidth

RSP traffic traversing the PUD's backbone network shall take advantage of any ring avoidance protocols in place on said backbone

DNS Administration

Installation & Maintenance of Hosted Routing Service

24 x 7 x 365 Troubleshooting & Maintenance

Ongoing Router Configuration Management (Config Modifications)

Routable IP address acquisition and management

On-Line access to the following graphed router stats:

- CPU utilization vs Time
- Memory Utilization vs. Time
- BW Utilization on Commercial Traffic Port vs. Time
- BW Utilization on Upstream Internet Bandwidth Port vs. Time

Wireless Broadband

As many variables outside of our control are factored into the throughput available over a wireless link, the PUD deems services offered over our wireless infrastructure to be of a "Reasonable Effort" nature and wireless connection speeds offered over said infrastructure cannot be guaranteed.

Fiber Connections Downstream of Wireless Backhaul

All fiber connections regardless of class (residential, small business or large business/carrier) that are served downstream of a wireless backhaul shall be limited to 10 megabit throughput speed (10Mbps), and the rate (both non-recurring and monthly-recurring charge) for this service shall remain the same within each service class.

Resolution No. 1676 – Exhibit A

| Carrier Services | 5Yr Term MRC | 10Yr Term MRC | 15Yr Term MRC | 20Yr Term MRC |
|--|-----------------|------------------|------------------|------------------|
| Dark Fiber (per strand per mile, min 2 strands, min 20 miles) | \$80.00 | \$70.00 | \$60.00 | \$50.00 |

| Wavelength Services | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC | 10Yr Term MRC |
|---|-----------------|-----------------|-----------------|------------------|
| 10G Network Interface | \$1,400.00 | \$1,190.00 | \$980.00 | \$840.00 |
| 10G wavelength Transport Fee (per mile) | \$30.00 | \$25.50 | \$21.00 | \$18.00 |
| 1.25G Network Interface | \$616.00 | \$523.00 | \$431.00 | \$369.00 |
| 1.25G Wavelength Transport Fee (per mile) | \$7.50 | \$6.38 | \$5.25 | \$4.50 |

| (*NRC=non-recurring charge) | NRC | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC |
|------------------------------------|---------|-----------------|-----------------|-----------------|
| 10GBaseX Optical Interface | \$50.00 | \$150.00 | \$128.00 | \$105.00 |
| 1000BaseX Optical/Copper Interface | \$50.00 | \$100.00 | \$85.00 | \$70.00 |
| Ethernet Data Rate (Mgmt) 10Mbps | \$50.00 | 24.00 | \$20.00 | \$17.00 |
| Ethernet Data Rate 10Mbps | \$50.00 | 24.00 | \$20.00 | \$17.00 |
| Ethernet Data Rate 20Mbps | \$50.00 | 43.00 | \$37.00 | \$30.00 |
| Ethernet Data Rate 30Mbps | \$50.00 | 60.00 | \$51.00 | \$42.00 |
| Ethernet Data Rate 40Mbps | \$50.00 | 76.00 | \$65.00 | \$53.00 |
| Ethernet Data Rate 50Mbps | \$50.00 | 91.00 | \$77.00 | \$64.00 |
| Ethernet Data Rate 60Mbps | \$50.00 | 105.00 | \$89.00 | \$74.00 |
| Ethernet Data Rate 70Mbps | \$50.00 | 118.00 | \$100.00 | \$83.00 |
| Ethernet Data Rate 80Mbps | \$50.00 | 131.00 | \$111.00 | \$92.00 |
| Ethernet Data Rate 90Mbps | \$50.00 | 143.00 | \$122.00 | \$100.00 |
| Ethernet Data Rate 100Mbps | \$50.00 | 155.00 | \$132.00 | \$109.00 |
| Ethernet Data Rate 200Mbps | \$50.00 | 257.00 | \$218.00 | \$180.00 |
| Ethernet Data Rate 300Mbps | \$50.00 | 339.00 | \$288.00 | \$237.00 |
| Ethernet Data Rate 400Mbps | \$50.00 | 407.00 | \$346.00 | \$285.00 |
| Ethernet Data Rate 500Mbps | \$50.00 | 466.00 | \$396.00 | \$326.00 |
| Ethernet Data Rate 600Mbps | \$50.00 | 517.00 | \$439.00 | \$362.00 |
| Ethernet Data Rate 700Mbps | \$50.00 | 562.00 | \$478.00 | \$393.00 |
| Ethernet Data Rate 800Mbps | \$50.00 | 601.00 | \$511.00 | \$421.00 |
| Ethernet Data Rate 900Mbps | \$50.00 | 635.00 | \$540.00 | \$445.00 |
| Ethernet Data Rate 1000Mbps | \$50.00 | 666.00 | \$566.00 | \$466.00 |
| Ethernet Data Rate 2000Mbps | \$50.00 | \$906.00 | \$770.00 | \$634.00 |
| Ethernet Data Rate 3000Mbps | \$50.00 | \$1,083.00 | \$921.00 | \$758.00 |
| Ethernet Data Rate 4000Mbps | \$50.00 | \$1,232.00 | \$1,047.00 | \$862.00 |
| Ethernet Data Rate 5000Mbps | \$50.00 | \$1,360.00 | \$1,156.00 | \$952.00 |
| Ethernet Data Rate 6000Mbps | \$50.00 | \$1,470.00 | \$1,250.00 | \$1,029.00 |
| Ethernet Data Rate 7000Mbps | \$50.00 | \$1,575.00 | \$1,339.00 | \$1,103.00 |
| Ethernet Data Rate 8000Mbps | \$50.00 | \$1,672.00 | \$1,421.00 | \$1,170.00 |
| Ethernet Data Rate 9000Mbps | \$50.00 | \$1,764.00 | \$1,499.00 | \$1,235.00 |
| Ethernet Data Rate 10000Mbps | \$50.00 | \$1,850.00 | \$1,573.00 | \$1,295.00 |

Carrier Services (Cont.)

| | NRC | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC |
|--|----------|-----------------|-----------------|-----------------|
| Protected Ethernet Data Rate 10Mbps | \$50.00 | \$12.00 | \$10.00 | \$8.00 |
| Protected Ethernet Data Rate 20Mbps | \$50.00 | \$21.50 | \$18.00 | \$15.00 |
| Protected Ethernet Data Rate 30Mbps | \$50.00 | \$30.00 | \$26.00 | \$21.00 |
| Protected Ethernet Data Rate 40Mbps | \$50.00 | \$38.00 | \$32.00 | \$27.00 |
| Protected Ethernet Data Rate 50Mbps | \$50.00 | \$45.50 | \$39.00 | \$32.00 |
| Protected Ethernet Data Rate 60Mbps | \$50.00 | \$52.50 | \$45.00 | \$37.00 |
| Protected Ethernet Data Rate 70Mbps | \$50.00 | \$59.00 | \$50.00 | \$41.00 |
| Protected Ethernet Data Rate 80Mbps | \$50.00 | \$65.50 | \$56.00 | \$46.00 |
| Protected Ethernet Data Rate 90Mbps | \$50.00 | \$71.50 | \$61.00 | \$50.00 |
| Protected Ethernet Data Rate 100Mbps | \$50.00 | \$77.50 | \$66.00 | \$54.00 |
| Protected Ethernet Data Rate 200Mbps | \$50.00 | \$128.50 | \$109.00 | \$90.00 |
| Protected Ethernet Data Rate 300Mbps | \$50.00 | \$169.50 | \$144.00 | \$119.00 |
| Protected Ethernet Data Rate 400Mbps | \$50.00 | \$203.50 | \$173.00 | \$142.00 |
| Protected Ethernet Data Rate 500Mbps | \$50.00 | \$233.00 | \$198.00 | \$163.00 |
| Protected Ethernet Data Rate 600Mbps | \$50.00 | \$258.50 | \$220.00 | \$181.00 |
| Protected Ethernet Data Rate 700Mbps | \$50.00 | \$281.00 | \$239.00 | \$197.00 |
| Protected Ethernet Data Rate 800Mbps | \$50.00 | \$300.50 | \$255.00 | \$210.00 |
| Protected Ethernet Data Rate 900Mbps | \$50.00 | \$317.50 | \$270.00 | \$222.00 |
| Protected Ethernet Data Rate 1000Mbps | \$50.00 | \$333.00 | \$283.00 | \$233.00 |
| Protected Ethernet Data Rate 2000Mbps | \$50.00 | \$453.00 | \$385.00 | \$317.00 |
| Protected Ethernet Data Rate 3000Mbps | \$50.00 | \$541.50 | \$460.00 | \$379.00 |
| Protected Ethernet Data Rate 4000Mbps | \$50.00 | \$616.00 | \$524.00 | \$431.00 |
| Protected Ethernet Data Rate 5000Mbps | \$50.00 | \$680.00 | \$578.00 | \$476.00 |
| Protected Ethernet Data Rate 6000Mbps | \$50.00 | \$735.00 | \$625.00 | \$515.00 |
| Protected Ethernet Data Rate 7000Mbps | \$50.00 | \$787.50 | \$669.00 | \$551.00 |
| Protected Ethernet Data Rate 8000Mbps | \$50.00 | \$836.00 | \$711.00 | \$585.00 |
| Protected Ethernet Data Rate 9000Mbps | \$50.00 | \$882.00 | \$750.00 | \$617.00 |
| Protected Ethernet Data Rate 10000Mbps | \$50.00 | \$925.00 | \$786.00 | \$648.00 |
| Carrier Interconnection | \$100.00 | \$600.00 | \$600.00 | \$600.00 |

Small Business Services

| | NRC | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC |
|---|---------|-----------------|-----------------|-----------------|
| 0100BaseT Connection (Full Port Capacity) | \$50.00 | \$65.00 | \$55.00 | \$50.00 |

Residential Services

| | NRC | 1Yr Term MRC | 3Yr Term MRC |
|---|---------|-----------------|-----------------|
| 0100BaseT Connection (Full Port Capacity) | \$50.00 | \$35.00 | \$35.00 |

Backbone Transport

| | NRC | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC |
|-----------------------------------|-----|-----------------|-----------------|-----------------|
| Local Loop Mileage Fee (per mile) | | \$10.00 | \$10.00 | \$10.00 |

| Wireless Services | NRC | 1Yr Term MRC |
|------------------------------------|------------|-------------------------|
| Broadband WiFi 3/1Mbps | | \$10.00 |
| Broadband WiFi 7/3Mbps | | \$17.00 |
| Broadband WiFi 12/6Mbps | | \$24.00 |
| Broadband WiFi 20/10Mbps | | \$31.00 |
| Cambium Wireless 3/1Mbps | | \$10.00 |
| Cambium Wireless 7/2Mbps | | \$17.00 |
| Cambium Wireless 12/3Mbps | | \$24.00 |
| Cambium Wireless 20/5Mbps | | \$31.00 |
| Cambium Wireless Subscriber Module | \$40.00 | \$8.00 |
| Broadband WiFi Subscriber Module | \$40.00 | \$3.00 |

| Hosted Services | NRC | 1Yr Term MRC | 3Yr Term MRC | 5Yr Term MRC |
|---|------------|-------------------------|-------------------------|-------------------------|
| Hosted Routing | \$300.00 | \$500.00 | | |
| Rooftop Colocation Space Base Charge (1 st 3 square feet) | \$100.00 | \$350.00 | | |
| Rooftop Colocation Space addtl square foot | | \$10.00 | | |
| Colocation Cabinet | \$100.00 | \$500.00 | \$435.00 | \$370.00 |
| Colocation 1/2 Cabinet | \$100.00 | \$250.00 | \$218.00 | \$185.00 |
| Colocation 1RU | \$100.00 | \$58.00 | \$50.00 | \$43.00 |
| Colocation AC Power (15Amp Circuit) | \$100.00 | \$100.00 | \$87.00 | \$74.00 |
| Colocation DC Power (15Amp Circuit) | \$100.00 | \$140.00 | \$122.00 | \$104.00 |

| Technical Services and Support | NRC |
|---|------------|
| Engineering / Troubleshooting (rate per hour) | \$300.00 |

| Daily Fiber / Event Rate | DRC |
|---|------------|
| Designed for temporary use only 0100BaseT Connection, Full Port Capacity | \$20.00 |

NOTE: The Daily Event rate is available only at locations where Okanogan County PUD has broadband equipment already in place