2023 CIS RFP Response Summary

Summary Results June 8, 2023

2023 CIS RFP It's not just the pricing!

Wins of the CIS Program

- Early national community model of best practices in consortium contracting
- Leveraging not only pricing but key elements of the service
- Ability to secure commitment for early renewal
- No additional charging for IPv6 and BGP
- Committee works throughout the year
- Financial benefit to The Quilt community
- 3 year RFP Cycle
- Vendor webinars
- Vendor liaisons
- Vendor Reported Bandwidth 2.68Tbps

2023 Authorized Quilt Providers













2023 CIS RFP Contract Negotiations

If your pricing is better...

If you see better pricing on the street...

If you are able to negotiate better pricing...

Please let the CIS Vendor Liaison know.

Our contract has a clause honoring lower pricing and can be activated - benefiting The Quilt community.

2023 Quilt CIS RFP Team

- Michael Lambert, 3ROX RFP and CIS Chair
- Barry Bryson, UETN RFP and CIS Chair
- Andrew Cole (MARIA)
- Peter Correia (CEN)
- Dave Diller (MAX)
- Dave Farmer (Northern Lights)
- Jonah Keough (PNWGP)
- Mike LeVoir (Northern Lights)
- Gabriel Lopez (Sun Corridor)
- Brad McCoy (Indiana GigaPOP)
- Bruce Tyrell (NJEDge)
- Charles Von Lichtenberg, NoX
- Caroline Weilhamer (Indiana GigaPOP)
- Melissa Xiong (Northern Lights)

2023 CIS RFP Response Summary

IP Transit

2023 RFP Response Pricing Snapshot

Vendor	Current Quilt Aggregated Bandwidth	400G commit 100G port	100G commit 100G port	40G commit 100G port	20G commit 100G port	10G commit 10G port	5G commit 10G port	2G commit 10G port		1G commit 1G port
Telegeography Q1 2023		\$0.13	N/A	\$0.19	\$0.20	\$0.24	\$0.27	\$0.33	N/A	\$0.32
365 Data Centers	19.5G	N/A	ICB	ICB	ICB	\$0.26	\$0.30	\$.39	\$0.48	\$0.48
Arelion	237G	N/A	\$0.100	\$0.160	\$0.170	\$0.180	\$0.250	\$0.350	\$0.400	N/A
Cogent	1,256.7G	\$0.080	\$0.080	\$0.080	\$0.080	\$0.080	\$0.080	\$0.080	\$0.080	\$0.080
GTT	175G	N/A	\$0.158	\$0.196	\$0.203	\$0.207	\$0.321	\$0.385	\$0.423	\$0.423
Lumen	805G	TBD	\$0.1200	\$0.1450	\$0.1810	\$0.2328	\$0.2755	\$0.3705	\$0.4988	\$0.4988
Zayo	189.7G	No Bid	\$0.1088	\$0.1150	\$0.1175	\$0.1350	\$0.1900	\$0.3550	\$0.4810	\$0.4810

12 Month Term

Burst Pricing may be higher according to vendor – See Vendor MSA Amendment for details

2023 RFP Response - Burst Pricing

Vendor	20G on 100G port	5G on 10G port	2G on 10G port	1G on 10G port
365 Data Centers	ICB	+ \$0.09	+ \$0.12	+ \$0.15
Arelion	same as committed rate			
Cogent	+ \$0.05	+ \$0.05	+ \$0.05	+ \$0.05
GTT	same as committed rate			
Lumen	same as committed rate	same as committed rate	same as committed rate	N/A
Zayo	+ \$0.0325	+ \$0.05	+ \$0.085	+ \$0.119

12 Month Term

Indicates higher burst pricing than committed bandwidth pricing

365 Data Centers-Pricing

Commit Rate as of May 2023 = 19.5G

Interface speed	Minimum Committed Data Rate	Contract Term	Monthly Price for Committed Bandwidth - per Mbps	Burst Price - per Mbps
400G	80G	12 months	N/A	
100G	100G	12 months	ICB	N/A
100G	40G	12 months	ICB	
100G	20G	12 months	ICB	
100G	10G	12 months	ICB*	ICB
10G	10G	12 months	\$0.26	N/A
10G	5G	12 months	\$0.30	\$0.39
10G	2G	12 months	\$0.39	\$0.51
10G	1G	12 months	\$0.48	\$0.63
1G	1G	12 months	\$0.48	N/A

365 Data Centers – Pricing

- For existing customers wishing to access the above pricing, existing contracts will need to
 complete their current term before changes can be made. AQP pricing can be included in a new
 service order for a new extended contract term executed by AQB clients committing to applicable
 DIA service, upon request.
- While 365 Data Centers strives to keep the 10Gb rate per Mbps the same for fixed & burst, 100Gb ports are ICB. Therefore, we must label 10Gb CDR price on 100Gb Port as ICB.
- *Near-Net requires a Loop and cross connect, which would be at additional fees. The customer is responsible for cross-connects. Please request availability and pricing for the Loop if interested.
- 10Gb Ports provided based upon service availability. If additional build is necessary, additional charges may apply.
- 10Gb Ports incur an additional fee of \$150 per month for CDR of less than 2Gbps.
- 1Gb Ports with at least 10% CDR do not incur additional port fees. Less than 10% CDR on 1Gbps will incur additional fee.
- "ICB" = Individual Case Basis; Please request availability and pricing.
- 365 Data Centers does not typically provide multiple ASNs on a single port, primarily for security reasons. However, we will make an exception for The Quilt and associated AQBs, and multiple ASNs on a single port will be supported with client agreement / acceptance of responsibility for security, should a security issue arise as a result of multiple ASNs on one port. If there's anything different that clients will need to know from a technical support and escalation standpoint, we will provide that information. Billing is supported per customer, per service.
- There is no aggregate tiered pricing schedule offered by 365 Data Centers for The Quilt program at this time.

Arelion Pricing

Commit Rate as of May 2023 = 237G

Interface speed	Commited data rate	Contract term	Monthly price for committed bandwidth per Mbps	Burst price per Mbps	Non-recurring fees and charges
100G	100G	12 months	\$0.098	\$0.098	\$1,500 per 100G port
100G	90G	12 months	\$0.108	\$0.108	\$1,500 per 100G port
100G	80G	12 months	\$0.118	\$0.118	\$1,500 per 100G port
100G	70G	12 months	\$0.127	\$0.127	\$1,500 per 100G port
100G	60G	12 months	\$0.137	\$0.137	\$1,500 per 100G port
100G	50G	12 months	\$0.147	\$0.147	\$1,500 per 100G port
100G	40G	12 months	\$0.157	\$0.157	\$1,500 per 100G port
100G	30G	12 months	\$0.162	\$0.162	\$1,500 per 100G port
100G	20G	12 months	\$0.167	\$0.167	\$1,500 per 100G port
10G	10G	12 months	\$0.176	\$0.176	Waived for 10G ports for all AQBs.
10G	5G	12 months	\$0.245	\$0.245	Waived for 10G ports for all AQBs.
10G	4G	12 months	\$0.274	\$0.274	Waived for 10G ports for all AQBs.
10G	3G	12 months	\$0.304	\$0.304	Waived for 10G ports for all AQBs.
10G	2G	12 months	\$0.343	\$0.343	Waived for 10G ports for all AQBs.
10G	1G	12 months	\$0.392	\$0.392	Waived for 10G ports for all AQBs.

Arelion Pricing and Discount Schedule

The Parties agree and acknowledge that the rates set forth above shall only apply to new orders or renewal orders for Internet Transit Services executed by the Authorized Qualified Buyer and Provider after the effective date of the Eighth Amendment to the Quilt Provider Master Service Agreement and shall not modify or re-rate any Service Orders in place between Provider and an Authorized Qualified Buyer.

There is a 10% discount for 24-month contract terms

There is a 15% discount for 36-month contract terms

Burst pricing is always the same as the committed bandwidth pricing

Authorized Quilt Buyer Aggregated Discount Schedule

Current committed traffic purchases from Authorized Quilt Buyers is 237.01Gbps. When the collective committed traffic purchases from Authorized Quilt Buyers reaches an aggregation level of 250Gbps, all AQBs will receive an additional 2% discount. Another 2% discount will be given when 275Gbps is reached. These discounts will be automatically applied on a prospective basis within 1-2 billing cycles once the new aggregated commitment level is achieved for as long as the committed traffic purchases from Authorized Quilt Buyers remain above the relevant commitment threshold.

Quilt Aggregate Bandwidth Tier	Additional Discount Percentage off of Quilt AQB Pricing
250Gbps	2%
275Gbps	2%

Arelion – Aggregated Discount

Commit Rate as of May 2023 = 237G

250+ Aggregate Gbps - see MSA for more pricing information

Interface speed	Committed Interface Rate	Contract Term	Commit Price per Mbps	Burst Price per Mbps	Non-Recurring fees and charges	Monthly Recurring fees and charges
100G	100G	12 months	\$0.098	Same as Commit	\$1,500 per 100G port	No NRC for 10G ports
100G	20G	12 months	\$0.167	Same as Commit	\$1,500 per 100G port	No NRC for 10G ports
10G	10G	12 months	\$0.176	Same as Commit	NRC waived for 10G ports for all AQBs.	No NRC for 10G ports
10G	5G	12 months	\$0.245	Same as Commit		No NRC for 10G ports
10G	2G	12 months	\$0.343	Same as Commit		No NRC for 10G ports
10G	1G	12 months	\$0.392	Same as Commit		No NRC for 10G ports

275+ Aggregate Gbps - see MSA for more pricing information

Interface speed	Committed Interface Rate	Contract Term	Commit Price per Mbps	Burst Price per Mbps	Non-Recurring fees and charges	Monthly Recurring fees and charges
100G	100G	12 months	\$0.096	Same as Commit	\$1,500 per 100G port	No NRC for 10G ports
100G	20G	12 months	\$0.163	Same as Commit	\$1,500 per 100G port	No NRC for 10G ports
10G	10G	12 months	\$0.173	Same as Commit	NRC waived for 10G ports for all AQBs.	No NRC for 10G ports
10G	5G	12 months	\$0.240	Same as Commit		No NRC for 10G ports
10G	2G	12 months	\$0.336	Same as Commit		No NRC for 10G ports
10G	1G	12 months	\$0.384	Same as Commit		No NRC for 10G ports

Arelion – Pricing

The monthly rate per Mbps (for committed traffic and, where applicable, for burst traffic) available to Authorized Buyers for Internet Transit Service provided by Arelion will be based on the monthly usage commitment made by the relevant AQB to Provider. Subject to the terms below, Authorized Buyers that enter into agreements with Arelion for committed usage at the volume increments in the table below will be eligible to receive Service at the corresponding rates also listed in the table. All rates are based on a 12-month contract term. All services will be delivered over GigE, 10G or 100G ports (FastE is not available).

Pricing and Service available only upon execution of new service order form and an agreement with Provider.

Pricing is based on committed traffic per customer. Rates that are specified for committed traffic shall apply to both committed traffic and to burst traffic in excess of the relevant CDR.

All rates set forth in the table below are per Mbps, per month as measured by Provider on a monthly basis pursuant to the 95th percentile measurement methodology.

NRC is waived for 10G ports for all Authorized Quilt Buyers.

An Authorized Buyer's 95 percentile traffic measurements will be measured on a per port basis and usage from separate ports will be summed in order to reach a CDR level.

Cogent - Pricing

Interface speed	Minimum Committed Data Rate	Contract Term	Monthly Price for Commited Bandwidth - per Mbps	DDoS Scrubbed Bandwidth Price - per Mbps	Burst Price - per Mbps	Non-Recurring fees and charges	Comments
400G	80G	12 months	\$0.08	N/A	\$0.05	ICB	ICB process determines NRC pricing and port availability
100G	100G	12 months	\$0.08	N/A	N/A	ICB	ICB process determines NRC pricing
100G	40G	12 months	\$0.08	N/A	\$0.05	ICB	ICB process determines NRC pricing
100G	20G	12 months	\$0.08	N/A	\$0.05	ICB	ICB process determines NRC pricing
100G	10G	12 months	\$0.08	N/A	\$0.05	ICB	ICB process determines NRC pricing
10G	10G	12 months	\$0.08	N/A	N/A	\$750, CNDC	
10G	5G	12 months	\$0.08	N/A	\$0.05	\$750, CNDC	
10G	2G	12 months	\$0.08	N/A	\$0.05	\$750, CNDC	
10G	1G	12 months	\$0.08	N/A	\$0.05	\$750, CNDC	
1G	1G	12 months	\$0.08	N/A	N/A	\$500, CNDC	

Cogent On-Net Port Pricing Structure

	egate th (Gbps)	Price Per Mbps (1 year Term)	Price Per Mbps (2 yr Term)	Price Per Mbps (3 yr Term)	Total Burst Price Per Mbps (1yr)
		•1,000M on 1GE	•1,000M on 1GE	•1,000M on 1GE	•1GE
		•1,000M on 10GE	•1,000M on 10GE	•1,000M on 10GE	•10GE
		•2,000M on 10GE	•2,000M on 10GE	•2,000M on 10GE	•100GE
From	То	•5,000M on 10GE	•5,000M on 10GE	•5,000M on 10GE	
FIOIII	То	•10,000M on 10GE	•10,000M on 10GE	•10,000M on 10GE	
		•10,000M on 100GE	•10,000M on 100GE	•10,000M on 100GE	
		•20,000M on 100GE	•20,000M on 100GE	•20,000M on 100GE	
		•100,000M on 100GE	•100,000M on 100GE	•100,000M on 100GE	
0	1000	\$0.09	\$0.09	\$0.09	\$0.05
*1001	1500	\$0.08	\$0.08	\$0.08	\$0.08
1501	2000	\$0.07	\$0.07	\$0.07	\$0.05
2001	2500	\$0.065	\$0.065	\$0.065	\$0.05
2501	3000	\$0.06	\$0.06	\$0.06	\$0.05
3001	4000	\$0.055	\$0.055	\$0.055	\$0.05

Standard Port NRC							
Locations	МТОВ	CNDC	Off- Net				
1GE	\$500	\$500	N/A				
10GE	ICB	\$750	N/A				
100GE	ICB	ICB	N/A				
Link Aggregation	ICB	\$625	N/A				

Standardized Port NRC where applicable

Example Burst Pricing

Port Types GE 10GE 100GE Current Price Per Mbps = \$0.08 Additional Burst Price Per Mbps = \$0.05 **Total Burst Price Per Mbps = \$0.13**

^{*} Tier 1001 – 1500 is the current reported pricing with Cogent

^{*} Burst Price Per Meg is in addition to Port Price Per Meg

Cogent Off-Net Port Pricing Structure

Price Per Mbps (1 YR Term)	Price Per Mbps (2 YR Term)	Price Per Mbps (3 YR Term)	Burst Price Per Mbps and NRC
• 1,000M GE - \$0.90	• 1,000M GE - \$0.80	• 1,000M GE - \$0.70	ICB
• 2,000M on 10GE - \$0.85	• 2,000M on 10GE - \$0.75	• 2,000M on 10GE - \$0.675	ICB
• 5,000M on 10GE - \$0.42	• 5,000M on 10GE - \$0.37	• 5,000M on 10GE - \$0.33	ICB
• 10,000M on 10GE - \$0.25	• 10,000M on 10GE - \$0.22	• 10,000M on 10GE - \$0.19	ICB

Off-Net Port Pricing Structure. Loop MRC/NRC pricing not included.

Cogent – IPv4 Pricing Structure

IPv4 Pricing Structure – Grandfathered and New

Quilt members with older IPv4 blocks are grandfathered under the old Cogent IPv4 Month-to-Month pricing below. There may not be an advantage for an Authorized Quilt Buyer with an older IPv4 block to sign up for a contract term block unless there is desire to align an Internet Port term with a IPv4 term.

Please see the tables below for IPv4 costs. IPv6 (/48 only) is available free of charge.

	IPv4 Price List (MTM Term Only)								
Block Size	Number of IP Addresses	Standard	Premium	NRC					
/29	8	\$75	\$112.50	\$0					
/28	16	\$75	\$112.50	\$0					
/27	32	\$75	\$112.50	\$0					
/26	64	\$75	\$112.50	\$0					
/25	128	\$75	\$112.50	\$0					
/24	256	\$75	\$112.50	\$0					
/23	512	\$150	\$225	\$0					
/22	1024	\$300	\$450	\$0					
/21	2048	\$600	\$900	\$0					
/20	4096	N/A	\$1,800	\$0					
/19	8192	N/A	\$3,600	\$0					

Bandwidth Commitment (CDR in Mbps)		Standard	Premium
1	100	Up to a /24	Up to a /19
200	900	Up to a /23	Up to a /19
1,000	9,000	Up to a /22	Up to a /19
10,000	More	Up to a /21	Up to a /19

Notes to the tables: One /29 is included in each L3 port order (at all sites). For zero CDR customers, only premium pricing is available and requires an ICB. Allocations below the maximum Standard size (varies from /24 to /21) can be priced at Standard rates. Allocations between the maximum Standard and the maximum Premium size (e.g. between /24 and /19 in the first tier) need to be priced at Premium rates. Allocations larger than the maximum Premium size (/19) require an ICB.

Cogent – IPv4 Pricing Structure

IPv4 Term Pricing for Large IPv4 Allocation with or without Cogent IP Transit Services

- Requires Cogent ICB Approval
- · Only available to eyeball or access network customers as determined by Cogent
- Must be ordered on terms of between 1 and 5 years

IPv4 /24 or Larger Allocations	Install Fee: Non- Recurring Cost (NRC)	Monthly Recurring Charge (MRC) Price per IP for IPv4 Allocations based on term length
/24 256 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/23 512 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/22 1,024 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/21 2,048 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/20 4,096 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/19 8,192 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/18 16,384 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/17 32,768 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/16 65,536 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month
/15 131,072 IPs	\$0	1-yr: \$0.28 per IP per month 2-yr: \$0.27 per IP per month 3-yr: \$0.26 per IP per month 4-yr: \$0.25 per IP per month 5-yr: \$0.24 per IP per month

Cogent Pricing

The pricing represents port pricing for all Cogent Layer 3 Dedicated Internet Access Ethernet products and is available to any Quilt member as they complete existing contract terms. After completion of an initial term, Quilt members can elect month-to-month renewal terms for all On-Net products without a corresponding increase in price. For Off-Net products, Cogent will attempt to provide month-to-month renewal terms upon request, but is restricted to loop provider terms.

Where available, Quilt members can elect to purchase burstable circuits. The burst price per Mb is in the pricing table below is in addition to the price for the committed bandwidth. Actual usage for individual burstable circuits is billed at the 90th percentile. Actual usage across multiple circuits is summed billed at the 90th percentile or aggregately billed at the 95th percentile.

On a first-come-first serve basis, Cogent will waive all charges for BGP4 and BGP6 (up to 25 ASNs per member), Layer3 VLANS (up to 25 per member), and IPv6 allocation orders.

Quilt members should contact the account manager or other sales representative for additional product information (e.g., minimum bandwidth commitment, burstability, and available bandwidth increments).

All 100G ports are considered on an Individual Case Basis to determine availability.

All Cogent On-Net buildings are capable of accepting dark fiber handoffs on an Individual Case Basis.

Applicable MRC/NRC fees may include x-connect charges to extend service from Cogent's cabinet within a data center facility to the dark fiber providers equipment. In Corporate locations NRCs vary widely due to riser distances.

GTT Aggregate AQB Pricing

Commit Rate as of May 2023 = 175G

12-Month Terms				12-Month Terms			
101- 200G*				201-300G			
BW (Mbps)	MRC	Price/Mb	Burst/Mb	BW (Mbps)	MRC	Price/Mb	Burst/Mb
500	348	0.697	0.697	500	340	0.680	0.680
1000	423	0.423	0.423	1,000	405	0.405	0.405
2000	770	0.385	0.385	2,000	761	0.381	0.381
3000	1,039	0.346	0.346	3,000	1,026	0.342	0.342
4000	1,368	0.342	0.342	4,000	1,332	0.333	0.333
5000	1,607	0.321	0.321	5,000	1,575	0.315	0.315
6000	1,794	0.299	0.299	6,000	1,755	0.293	0.293
7000	1,953	0.279	0.279	7,000	1,922	0.275	0.275
8000	2,016	0.252	0.252	8,000	2,052	0.257	0.257
9000	2,049	0.228	0.228	9,000	2,106	0.234	0.234
10000	2,070	0.207	0.207	10,000	2,025	0.203	0.203
20000	4,050	0.203	0.203	20,000	3,960	0.198	0.198
30000	5,940	0.198	0.198	30,000	5,724	0.191	0.191
40000	7,848	0.196	0.196	40,000	7,560	0.189	0.189
50000	9,675	0.194	0.194	50,000	9,225	0.185	0.185
60000	11,340	0.189	0.189	60,000	10,800	0.180	0.180
70000	13,104	0.187	0.187	70,000	12,285	0.176	0.176
80000	14,760	0.185	0.185	80,000	13,680	0.171	0.171
90000	16,038	0.178	0.178	90,000	14,985	0.167	0.167
100000	15,750	0.158	0.158	100,000	15,300	0.153	0.153

GTT Pricing

IP Transit Requirements:

- Client has own ASN and IP Space
- Client runs BGP
- On-Net Data Center Pricing
- Last mile loop access fees are additional if the A Loc is not at a GTT POP
- Xconn fees additional

Bandwidth Commitment (CDR in Mbps)		Standard	Premium
	allation NRR		
	1 Year	2 Year	3 Year
GigE (1Gbps)	\$200	\$100	Waived
10 GigE (10Gbps)	\$200	\$100	Waived
100 GigE (100Gbps)	\$200	\$100	Waived

Service Renewals:

- Service Terms are 12 Months
- Once the contract term expires, it will revert to month-to-month for a period of an additional / cumulative six months for which the price from the previous 12 month service contract is locked in. This will allow an AQB the opportunity to complete the renewal process.

With regard to other Services, for certain other variable expenses GTT incurs, GTT typically bills a consolidated regulatory recovery surcharge that it applies to recurring service charges which recover direct and indirect amounts GTT pays to government entities and underlying providers including, without limitation, regulatory charges associated with administering and complying with government programs, property tax assessments, franchise fees and right of way costs assessed on network facilities, which are not invoiced by GTT through separate line items ("Regulatory Recovery Surcharge"). Because these expenses fluctuate, GTT charges a separate monthly Regulatory Recovery Surcharge to recover the above-referenced costs rather than include them in its base rates. For Authorized Quilt Buyers, GTT shall waive the Regulatory Recovery Surcharge (defined below) with regard to IP Transit and DDoS Mitigation Services.

GTT will provide a dedicated project manager for processing AQB orders under the program.

GTT Aggregate AQB Pricing

12-Month Terr	12-Month Terms			12-Month Term	12-Month Terms			
301-400 G			401-600G	401-600G				
BW (Mbps)	MRC	Price/Mb	Burst/Mb	BW (Mbps)	MRC	Price/Mb	Burst/Mb	
500	\$294.50	\$0.589	\$0.589	500	\$279.78	\$0.560	\$0.560	
1,000	\$383.80	\$0.384	\$0.384	1,000	\$364.61	\$0.365	\$0.365	
2,000	\$690.84	\$0.345	\$0.345	2,000	\$656.30	\$0.328	\$0.328	
3,000	\$977.55	\$0.326	\$0.326	3,000	\$928.67	\$0.310	\$0.310	
4,000	\$1,176.10	\$0.294	\$0.294	4,000	\$1,117.30	\$0.279	\$0.279	
5,000	\$1,356.60	\$0.271	\$0.271	5,000	\$1,288.77	\$0.258	\$0.258	
6,000	\$1,514.30	\$0.252	\$0.252	6,000	\$1,438.59	\$0.240	\$0.240	
7,000	\$1,674.85	\$0.239	\$0.239	7,000	\$1,591.11	\$0.227	\$0.227	
8,000	\$1,766.05	\$0.221	\$0.221	8,000	\$1,677.75	\$0.210	\$0.210	
9,000	\$1,807.85	\$0.201	\$0.201	9,000	\$1,717.46	\$0.191	\$0.191	
10,000	\$1,808.80	\$0.181	\$0.181	10,000	\$1,627.92	\$0.163	\$0.163	
20,000	\$3,527.35	\$0.176	\$0.176	20,000	\$3,174.62	\$0.159	\$0.159	
30,000	\$5,243.64	\$0.175	\$0.175	30,000	\$4,719.28	\$0.157	\$0.157	
40,000	\$6,928.35	\$0.173	\$0.173	40,000	\$6,235.52	\$0.156	\$0.156	
50,000	\$8,550.00	\$0.171	\$0.171	50,000	\$7,695.00	\$0.154	\$0.154	
60,000	\$10,146.00	\$0.169	\$0.169	60,000	\$9,131.40	\$0.152	\$0.152	
70,000	\$11,637.50	\$0.166	\$0.166	70,000	\$10,473.75	\$0.150	\$0.150	
80,000	\$12,920.00	\$0.162	\$0.162	80,000	\$11,628.00	\$0.145	\$0.145	
90,000	\$14,107.50	\$0.157	\$0.157	90,000	\$12,696.75	\$0.141	\$0.141	
100,000	\$14,250.00	\$0.143	\$0.143	100,000	\$12,825.00	\$0.128	\$0.128	

GTT Aggregate AQB Pricing

12-Month Terms				
1000G+				
BW (Mbps)	MRC	Price/Mb	Burst/Mb	
500	\$240	\$0.480	0.480	
1,000	\$313	\$0.313	0.313	
2,000	\$563	\$0.281	0.281	
3,000	\$796	\$0.265	0.265	
4,000	\$958	\$0.239	0.239	
5,000	\$1,105	\$0.221	0.221	
6,000	\$1,233	\$0.206	0.206	
7,000	\$1,364	\$0.195	0.195	
8,000	\$1,438	\$0.180	0.180	
9,000	\$1,473	\$0.164	0.164	
10,000	\$1,253	\$0.125	0.125	
20,000	\$2,443	\$0.122	0.122	
30,000	\$3,631	\$0.121	0.121	
40,000	\$4,798	\$0.120	0.120	
50,000	\$5,921	\$0.118	0.118	
60,000	\$7,027	\$0.117	0.117	
70,000	\$8,060	\$0.115	0.115	
80,000	\$8,948	\$0.112	0.112	
90,000	\$9,770	\$0.109	0.109	
100,000	\$9,869	\$0.099	0.099	

Lumen – Pricing

Commit Rate as of May 2023 = 805G

Interface speed (Port Bandwidth)	Minimum Committed Data Rate per Mbps	Contract Term	Monthly Price for Committed Bandwidth per Mbps	DDoS Scrubbed Bandwidth Price	Burst Price per Mbps	Comments
400G	TBD	12 months	TBD		TBD	* See Note Below
4 x 100G	250,000	12 months	\$0.1100		\$0.1100	Commit Shared
2 x 100G	100,000	12 months	\$0.1370		\$0.1370	Commit Shared
2 x 100G	40,000	12 months	\$0.1800		\$0.1800	Commit Shared
2 x 100G	20,000	12 months	\$0.2140		\$0.2140	Commit Shared
100G	100,000	12 months	\$0.1200		N/A	
100G	40,000	12 months	\$0.1450		\$0.1450	
100G	20,000	12 months	\$0.1810		\$0.1810	
100G	10,000	12 months	\$0.2500		\$0.2500	
2 x 10G	10,000	12 months	\$0.2755		\$0.2755	Commit Shared
10G	10,000	12 months	\$0.2328		N/A	
10G	5,000	12 months	\$0.2755		\$0.2755	
10G	2,000	12 months	\$0.3705		\$0.3705	
10G	1,000	12 months	\$0.4988		\$0.4988	
1G	1,000	12 months	\$0.4988	\$1500	N/A	1G of clean traffic return is \$1500 MRC
100M	N/A	N/A	N/A	\$850	N/A	100M of clean traffic return is \$850 MRC

^{* 400}G service is in trial mode, with product release scheduled for April 2023. Pricing info will be available at that time.

Lumen – Aggregation

Commit Rate as of May 2023 = 805G

Quilt Aggregate Band	Discount Bereentege	
Minimum Gbps	Maximum Gbps	Discount Percentage
0 *	1,000 *	0
1,001	1,200	3%
1,201	1,400	3%
1,401	1,401+	3%

Tiered Aggregation Usage Review

Provider will extend price reductions to Authorized Quilt Buyers (AQBs) when the aggregate CDR of all AQBs purchasing service from Provider (including the CDRs of AQBs purchasing Services from Provider exceeds one of the volume tiers set forth in the table below and the AQBs renew existing service or sign new Service Orders for a minimum term of 12 months.

Cross connects will be priced at \$300 NRC and \$300 MRC.

^{*}This tier represents the Quilt's current reported tier under CenturyLink and Level 3 as Lumen purchases. Based on the most recent report completed for April 2023 the total aggregate commit of Authorized Quilt Buyers is 805Gbps.

Zayo Individual Pricing Model

Commit Rate as of May 2023 = 198G

Interface speed	Minimum Committed Data Rate	Contract Term	Monthly \$/Mbps for Committed Bandwidth	DDoS Scrubbed Bandwidth Price - per Mbps (Optional)	Burst Price – per Mbps	Non-Recurring fees and charges
400G*	80G	12 months	No bid	No bid	No bid	No bid
100G	100G	12 months	\$0.1088		N/A	\$0.00
100G	40G	12 months	\$0.1150		\$0.14	\$0.00
100G	20G	12 months	\$0.1175	Zayo's DDOS mitigation pricing is	\$0.15	\$0.00
100G	10G	12 months	\$0.1550	variable based on clean bandwidth committed and feature tier requested.	\$0.19	\$0.00
10G	10G	12 months	\$0.1350	Table is included below.	N/A	\$0.00
10G	5G	12 months	\$0.1900		\$0.24	\$0.00
10G	2G	12 months	\$0.3550		\$0.44	\$0.00
10G	1G	12 months	\$0.4810		\$0.60	\$0.00
1G	1G	12 months	\$0.4810		N/A	\$0.00

^{*}Zayo has plans to enable 400G ports in select markets in Q4 2023 but does not currently offer this service.

- OneTel will serve as the third-party sales order group on behalf of Zayo for this Quilt contract.
- There are no installation fees/non-recurring charges for IP transit services
- Pricing does not include public IP addresses, 3rd Party cross connects or building access fees.
- Pricing details are included these options are included below

Zayo Additional Terms - Pricing Model

Commit Rate as of May 2023 = 190G

Interface speed	Minimum Committed Data Rate	24 Month - Monthly \$/Mbps for Committed Bandwidth	36 Month - Monthly \$/Mbps for Committed Bandwidth	60 Month - Monthly \$/Mbps for Committed Bandwidth	Burst Price - per Mbps (24mo)	Non- Recurring fees and charges
400G	80G	N/A	N/A	N/A	No bid	N/A
100G	100G	\$0.0952	\$0.0906	\$0.0816	N/A	\$0.00
100G	40G	\$0.1006	\$0.0958	\$0.0863	\$0.1258	\$0.00
100G	20G	\$0.1028	\$0.0979	\$0.0881	\$0.1285	\$0.00
100G	10G	\$0.1356	\$0.1292	\$0.1163	\$0.1695	\$0.00
10G	10G	\$0.1181	\$0.1125	\$0.1013	N/A	\$0.00
10G	5G	\$0.1663	\$0.1583	\$0.1425	\$0.2078	\$0.00
10G	2G	\$0.3106	\$0.2959	\$0.2663	\$0.3883	\$0.00
10G	1G	\$0.4209	\$0.4009	\$0.3608	\$0.5261	\$0.00

Zayo Offering – Aggregation Tiers

Commit Rate as of May 2023 = 190G

Quilt Aggregate	Quilt Aggregate Bandwidth Tier				
Minimum Gbps	Maximum Gbps	Percentage off Pricing			
0G	200G	0%			
201G	500G	5%			
501G	1000G	10%			
1001G	Max+	6.50%			

^{*}Current aggregate bandwidth for AQBs is 189.7Gbps. Re-rates on existing services for new pricing will be automatically applied at the time of renewal.

Net Neutrality Principle

Confirm that with regards to providing internet access services under a Quilt Master Service agreement, your company will adhere to the following net neutrality principles by not;

- 1. Blocking lawful content, applications, services, or nonharmful devices, subject to reasonable network management that is disclosed to the consumer;
- 2. Throttling, impairing or degrading lawful Internet traffic based on Internet content, application, or service, or use of a non-harmful device, subject to reasonable network management that is disclosed to the consumer;
- 3. Engaging in paid prioritization;
- Unreasonably interfering with or unreasonably disadvantaging:
 - An end user's ability to select, access, and use broadband Internet access service or the lawful Internet content, applications, services, or devices of their choice; or
 - 2. An edge provider's ability to make lawful content, applications, services, or devices available to end users.

365 Data Centers	Confirms
Lumen	Confirms
Cogent	Confirms
GTT	Confirms
Telia Carrier	Confirms
Zayo	Confirms

Common Vendor Service Offerings

	Will Spread Committed Bandwidth over Multiple Ports	Multiple Customers on a Single Port	IPv4 Additional Charges	IPv6 Additional Charges	IPv6 enabled Across network
365 Data Centers	YES	YES	YES	NO	YES
Arelion	YES	YES	NO	NO	YES
Cogent	YES	YES	YES	NO	YES
GTT	YES	YES	NO	NO	YES
Lumen	YES *	YES	NO	NO	YES
Zayo	YES	YES	YES	NO	YES

^{*} Yes, as long as the total CDR is greater than the total of the minimum committed data rate for each port

Vendor Common Service Offerings

	Member Customer Portal ?	Dark Fiber Hand-Off	Higher Burst Rate	Aggregate Pricing Program	Additional Pricing Options Available
365 Data Centers	YES	YES	YES	NO	NO
Arelion	YES	YES	NO	YES	YES
Cogent	YES	YES	YES	YES	YES
GTT	YES	YES	NO	YES	YES
Lumen	YES	YES	NO	YES	YES
Zayo	YES	YES	YES	YES	YES

AQB Contract Transition to New Pricing

365 Data Centers	Existing customers can be notified of The Quilt agreement. Existing contracts will need to complete the current term before changes can be made. AQP pricing can be included in a new service order for a new extended contract term executed by AQB clients committing to applicable DIA service, on request.
Arelion	All current Quilt customers can renew their service based on the new rate schedule
Cogent	All of the existing services will be transferred to the new MSA. AQBs can transition to the new pricing upon completion of their existing contract terms or an increase in their MRC (even under a current term). All existing circuits will continue to count towards the aggregation level. AQBs will contact Cogent to request the new pricing and term length.
GTT	Existing AQBs may renew at the new contracted rates upon expiration of the current contract terms. Existing agreements may also be amended via an "In-Term" Re-Term with an amendment to existing services, i.e., upgrade.
Lumen	Services purchased under prior Quilt agreements would immediately count toward the aggregation levels under the new agreement. Pricing would transition to the new agreement upon renewal.
Zayo	Existing customers will be transition into the Quilt program by the execution of a sales order that references global, agreed upon Quilt master contract terms and conditions. Existing customers with more expensive per mb rates will be allowed to exit their contracts early to take advantage of Quilt rates.

2023 CIS RFP Response Summary

Security

2023 RFP Response – Security Offering

Vendor	Scrubbed	DDoS Mitigation	Black Hole Routing	BGP Flowspec	ACLS	Additional Offerings on Separate End User Contract
365 Data Center	YES**	YES**	YES	NO	N/A	YES
Arelion	N/A	YES**	YES	YES	YES	YES**
Cogent	N/A	YES	YES	YES	N/A	NO
GTT	YES	YES**	YES	NO	N/A	YES**
Lumen	N/A	N/A	YES	YES	N/A	NO
Zayo	YES**	YES	YES	YES	N/A	YES**

^{*} Included in base Commodity Internet Services

^{**} Can be added as an additional services under separate contract

2023 RFP Response - 365 Data Centers Security Offering

- Black Holing is included in our IP transit base service.
- DDoS Mitigation subscription services include scrubbing as opposed to black holing.
- With 365 Data Centers' DDoS Protection services, we monitor and analyze your network traffic 24/7 using advanced AI and machine learning to detect certain traffic profile signatures.
- Once 365 Data Centers identifies anomalies which could be indicative of a DDoS attack, a
 mitigation event is automatically triggered. Traffic is re-routed to one of 365 Data Centers'
 scrubbing stations where malicious data packets are filtered out and clean traffic is directed
 back to your network.

Protection Plan	Included Attack Duration per Month	Price
Basic	1 Hour	\$185 / month
Basic Plus	4 Hours	\$730 / month
Advanced	12 Hours	\$2,185 / month
Premium	24 Hours	\$4,370 / month

Service available exclusively at selected PoP locations.

Pricing may vary. Speak with a sales representative to confirm your rate.

- Depending on package purchased, scrubbing is available for levels of service up to 24 hours for existing packages. If more time is desired, a custom agreement would be required but is available.
- Max clean traffic equals the volume in level of service subscribed. 5G DIA [Dedicated Internet Access] service can handle 5G of clean return traffic, 40G DIA can handle 40G, etc.

2023 RFP Response – Arelion Security Offering

The following security services are included with the purchase of IP transit.

- 1. Malicious Ingress UDP Traffic Marking and Policing (Infrastructure Protection) a. In the case of congestion due to DDoS attack this traffic will be dropped first and immediately.
 - 1. This function is totally controlled by Arelion Company.
 - 2. RTBH Technique Implemented via BGP Community 1299
 - 3. ACL Port Level Service ACL applied to Customer Ports per request

Arelion separately offers an additional D-DoS Mitigation Service to its IP transit customers for a separate charge.

- IP transit customers who bundle with D-DoS Mitigation Service will receive a 10% discount on IP transit.
- Initial one-time charge for customer setup
- Monthly Recurring Charge, which includes; o Predefined amount of enabled protection (minutes) over contract term
 - Multiple Managed Objects (default is 5)
- Choose a 'Usage Band' that fits your needs
- Choose a 'Usage Band' to fit your risk profile
- · Service is scalable to support your growth
- Minutes are only used when an attack is actively mitigated.
- Minutes are NOT dependent on the # of ports, size of ports, or size of attack.

The details of the Service will be as defined in the Service Order executed pursuant to the Customer Agreement.

Arelion – Security Offering Under Separate Contract

Usage Band	Minutes allotted per year	Managed Objects	One Time Charge (Set-Up)	Single Homed	Multi Homed	Additional Minutes	Additional Object OTC	Additional Learning OTC	Term
Micro	1,260	5	\$ 2,610	\$ 530	\$ 640	\$ 5.46	\$ 270	\$ 530	12
Small	2,520	5	\$ 2,610	\$ 840	\$ 1,010	\$ 4.37	\$ 270	\$ 530	12
Entry-level	5,040	5	\$ 2,610	\$ 1,570	\$ 1,890	\$ 4.09	\$ 270	\$ 530	12
Standard	10,080	5	\$ 2,610	\$ 2,610	\$ 3,140	\$ 3.41	\$ 270	\$ 530	12
Standard+	20,160	5	\$ 2,610	\$ 4,690	\$ 5,630	\$ 3.07	\$ 270	\$ 530	12
Enhanced	40,320	5	\$ 2,610	\$ 7,820	\$ 9,390	\$ 2.56	\$ 270	\$ 530	12
Micro	1,260	5	\$ 2,480	\$ 500	\$ 610	\$ 5.18	\$ 270	\$ 530	24
Small	2,520	5	\$ 2,480	\$ 800	\$ 970	\$ 4.15	\$ 270	\$ 530	24
Entry-level	5,040	5	\$ 2,480	\$ 1,490	\$ 1,810	\$ 3.89	\$ 270	\$ 530	24
Standard	10,080	5	\$ 2,480	\$ 2,480	\$ 3,010	\$ 3.24	\$ 270	\$ 530	24
Standard+	20,160	5	\$ 2,480	\$ 4,460	\$ 5,400	\$ 2.92	\$ 270	\$ 530	24
Enhanced	40,320	5	\$ 2,480	\$ 7,430	\$ 9,000	\$ 2.43	\$ 270	\$ 530	24
Micro	1,260	5	\$ 2,350	\$ 470	\$ 580	\$ 4.91	\$ 270	\$ 530	36
Small	2,520	5	\$ 2,350	\$ 760	\$ 930	\$ 3.93	\$ 270	\$ 530	36
Entry-level	5,040	5	\$ 2,350	\$ 1,410	\$ 1,730	\$ 3.68	\$ 270	\$ 530	36
Standard	10,080	5	\$ 2,350	\$ 2,350	\$ 2,880	\$ 3.07	\$ 270	\$ 530	36
Standard+	20,160	5	\$ 2,350	\$ 4,220	\$ 5,160	\$ 2.76	\$ 270	\$ 530	36
Enhanced	40,320	5	\$ 2,350	\$ 7,040	\$ 8,610	\$ 2.30	\$ 270	\$ 530	36

2023 RFP Response – Cogent Security Offering

Cogent does not offer a security service product.

Cogent has a dedicated abuse team which ensures there are no egregious misuses of the network, including spamming and DDoS attacks. Cogent provides a Blackhole server and BGP communities for addressing DDoS attacks. Customers advertise affected prefixes to the Blackhole server via a BGP session to null route traffic up to a per IP basis up.

2023 RFP Response – GTT Security Offering

GTT offers two varieties of DDoS mitigation services to scrub traffic:

Standard and Premium. Standard is set to collect netflow data from your traffic and identify when an attack is happening where it then blackholes any DDoS traffic at our core and thus allowing your legitimate traffic to flow unimpeded. This may take up to 5 minutes.

Our premium offering is always on, meaning that all of your traffic flows through one of our scrubbing centers so that the scrubbing is done sub-millisecond and thus your sites never notice the attack except via our notifications to you. See pricing for the premium services below.

2023 RFP Response – GTT Security Offering

AGGREGATE CDR (across all protected ports)	DDOS MITIGATION PRICING			
	1yr	2yr	3yr	
Up to 500M	\$605.15	\$586.04	\$573.00	
Up to 1G	\$931.00	\$901.60	\$882.00	
Up to 2G	\$1,276.80	\$1,236.48	\$1,210.00	
Up to 3G	\$1,723.30	\$1,668.88	\$1,633.00	
Up to 4G	\$2,074.80	\$2,009.28	\$1,966.00	
Up to 5G	\$2,394.00	\$2,318.40	\$2,268.00	
Up to 6G	\$2,672.35	\$2,587.96	\$2,532.00	
Up to 7G	\$2,954.50	\$2,861.20	\$2,799.00	
Up to 8G	\$3,116.00	\$3,017.60	\$2,952.00	
Up to 9G	\$3,188.20	\$3,087.52	\$3,021.00	
Up to 10G	\$3,383.90	\$3,277.04	\$3,205.00	
Up to 20G	\$5,339.95	\$5,171.32	\$5,059.00	
Up to 30G	\$7,720.65	\$7,476.84	\$7,314.00	
Up to 40G	\$9,301.45	\$9,007.72	\$8,812.00	
Up to 50G	\$10,204.90	\$9,882.64	\$9,668.00	
Up to 60G	\$10,859.45	\$10,516.52	\$10,288.00	

STANDARD TERM DISCOUNTS				
TERM	NRR	MRR		
1yr	0%	5%		
2yr	25%	8%		
3yr	100%	10%		

Installation NRR					
Total CDR	1 Year	2 Year	3 Year		
< 1 Gbps	\$ 1,000.00	\$ 1,000.00	Waived		
< 10 Gbps	\$ 1,500.00	\$ 1,000.00	Waived		
< 100 Gbps	\$ 2,000.00	\$ 2,000.00	Waived		

2023 RFP Response – Lumen Security Offering

Blackhole routing and BGP FlowSpec are included in IP services.

DDoS mitigation services are available at an additional cost. See above pricing.

- Lumen's DDoS Mitigation service re-directs customer traffic through route redirection (BGP advertisement) onto Lumen's global scrubbing centers for cleansing. Attack traffic is filtered out while clean traffic is sent back to the customer via a dedicated MPLS/ IP VPN connection, Lumen internet connection or routed GRE tunnel. The service can be subscribed to protect both Lumen and third-party internet circuits, thus giving customers the benefit of:
- Clean traffic return delivered via GRE, Internet Direct, and/or IPVPNDirect
- Mitigates against known layer3-4 volumetric attacks
- "On-Demand" or service options
 - "On-Demand" requires the customer to call into the Security Operation Center (SOC) to request mitigation.
- Provides Time-to-Mitigate SLAs for most known attacks after traffic is on-ramped through Lumen scrubbing centers* - Up to10 minutes for On-demand without auto-mitigation
- Up to 5 minutes for On-demand with auto-mitigation
- 24/7 support and monitoring via Lumen Global Security Operations Centers (SOC)
- Access to the real-time attack events and the historical reporting via DDoS portal

2023 RFP Response – Zayo Security Offering

- Zayo has included a supplementary DDoS pricing schedule above to provide multiple options for DDOS mitigation
- Quilt members can scrub a portion of their IP service and not the entire committed data rate for example a customer can order a 100G CDR circuit and order 10G of DDOS mitigation. Zayo has DDOS mitigation services for multiple use cases as outlined in this response with basic, advanced, and multicarrier
- Zayo's service is Automated and Proactive: The Zayo DDoS Protection service is system-driven and automated. o Monitoring is always on and continually active; all Zayo Peering Edge routers perform monitoring of Zayo's IP traffic
 - Identification of attack traffic is also completed in the Zayo Peering Edge routers, well
 upstream from the customer firewall and other network devices and applications. Upon
 recognition of an attack, the Zayo DDoS Protection system sends an alert to the
 subscriber in the form of an email and/or short message service (SMS). The alert option
 can interact with Syslog functionality as well
 - Mitigation is incident driven and is activated in response to an attack or upon request by
 the subscriber. Zayo employs a two-level mitigation capability: BGP Flowspec filtering and
 DDoS scrubbing. Manual mitigation is initiated by the Zayo Security Operations Center
 ("SOC") upon request by the subscriber. Automated Mitigation can be enabled for
 Advanced and Multi Carrier Subscribers upon request, and provides a 'hands off" fully
 automated DDoS Protection service
 - Restore is an automated process for continued mitigation of traffic for targeted IP addresses to ensure that DDoS attacks are truly finished; traffic is scrubbed for a period to ensure there is no further attack and then redirected to the normal BGP routes.

2023 RFP Response – Zayo Security Offering

DDOS Mitigation						
Bandwidth - Clean Traffic	Multi-Carrier	Advanced	Standard			
100Mb	\$805	\$391	\$313			
200Mb	\$1,556	\$754	\$603			
500Mb	\$1,752	\$849	\$680			
1G	\$2,347	\$1,138	\$910			
2G	\$2,802	\$1,358	\$1,087			
3G	\$3,193	\$1,547	\$1,238			
4G	\$3,548	\$1,719	\$1,375			
5G	\$3,854	\$1,868	\$1,494			
6G	\$4,364	\$2,114	\$1,692			
7G	\$4,861	\$2,355	\$1,884			
8G	\$5,357	\$2,596	\$2,077			
9G	\$5,854	\$2,836	\$2,269			
10G	\$6,307	\$3,056	\$2,444			

Continued on next slide

2023 RFP Response – Zayo Security Offering

DDOS Mitigation (continued)					
Bandwidth - Clean Traffic	Multi-Carrier	Advanced	Standard		
15G	\$8,690	\$4,210	\$3,368		
20G	\$10,511	\$5,093	\$4,074		
25G	\$11,825	\$5,729	\$4,584		
30G	\$12,771	\$6,188	\$4,950		
35G	\$13,622	\$6,600	\$5,280		
40G	\$14,474	\$7,013	\$5,610		
45G	\$15,325	\$7,425	\$5,940		
50G	\$16,177	\$7,838	\$6,270		
55G	\$16,933	\$8,204	\$6,564		
60G	\$17,690	\$8,571	\$6,857		
65G	\$18,447	\$8,938	\$7,150		
70G	\$19,204	\$9,304	\$7,444		
75G	\$19,961	\$9,671	\$7,737		

Zayo Security Offering

Zayo also offers a Distributed Denial of Service (DDoS):

- Cloud-based Protection: the service redirects traffic destined for an organization to one or more DDoS scrubbing centers, where undesirable DDoS packets are filtered out and dropped. The cleansed traffic is then delivered to the organization. This requires no additional premise-based equipment to be installed at the customer site
- Clean Traffic Pricing Model: The customer only pays for the amount of clean traffic they will require in case of an attack, not the size of the attack
- Protection available from 50Mb up to 40G for clean traffic throughput requirements

DDoS mitigation services that are included in base Internet service:

- Zayo will null route/blackhole customer IPs upon request via Network Control Center (NCC) ticket or via advertised BGP community. FlowSpec is currently supported by our DDOS Mitigation Platform. Customer defined FlowSpec can be evaluated as part of our network development roadmap.
- Zayo can automatically update BGP prefix import filters from a specified IRR object.

2023 CIS RFP Response Summary

Administrative Procedures

365 Data Centers - Administrative Procedures

Provider will establish a Provider Team dedicated to servicing the Quilt Agreement and Authorized Quilt Buyers. The Provider Team will have a lead person that will be the primary contact for non-technical issues.

The Provider Team may directly contact Authorized Quilt Buyers regarding their services, both in a sales mode and an on-going customer management mode.

Authorized Quilt Buyers may directly contact the Provider Team to get information about services. The Provider Team will refer the Authorized Quilt Buyers to their local team after validation of participation in the Quilt. The Authorized Quilt Buyer may already be in contact with their local team; however, to participate in the Quilt MSA they must first contact the Provider Team.

The Quilt will establish a dedicated liaison (Quilt Liaison) to be the administrative point of contact for the oversight, management, and administration of the Quilt Agreement. The Quilt Liaison will be a point of contact for Authorized Quilt Buyers to get information about processes and procedures associated with purchases made through the Quilt Agreement. They will also be available as a point of escalation in the event of unresolved problems with services from Provider.

The Provider Team is responsible for providing information to the Quilt Liaison and Quilt President and CEO to ensure the Quilt Agreement is being implemented correctly. The AQP must deliver to the Quilt Liaison on the first of every calendar quarter an Excel report containing the following information for every AQB purchasing services from the AQP under the Quilt agreement.

- Contract execution date
- Contract term
- Physical circuit being purchased
- Committed bandwidth
- Contracted price/Mb

365 Data Centers - Administrative Procedures

Non-technical Problem resolution:

Authorized Quilt Buyers will use the Provider Team to address and handle problems as a first point of contact. If response is lacking or not acceptable, the Authorized Quilt Buyer should notify and work with the Quilt Liaison to get resolution.

Technical Problem resolution:

Authorized Quilt Buyers will be provided with full contact to technical problem reporting services through the Provider. Provider trouble tickets will be issued to the Authorized Quilt Buyer's approved contacts. In the event that Authorized Quilt Buyers do not get appropriate technical response/resolution, their next point of escalation is the Provider Team Primary Contact. If they still do not get appropriate response, they should next inform the Quilt Liaison to assist in getting a response.

365 Data Centers - Administrative Procedures

Primary Contact:

Name	Donna Mooney		
Title	Sales Director		
Organization	365 Data Centers		
Phone			
Email	DMooney@365datacenters.com		
Cell Phone	908-752-1454		

Quilt Liasion:

Name	Bruce Tyrrell		
Title	AVP, Programs and Services		
Organization	NJEDge		
Phone			
Email	tyrrell@njedge.net		
Cell Phone	609-276-6928		

Provider will establish a Provider Team dedicated to servicing the Quilt Agreement and Authorized Quilt Buyers. The Provider Team will have a lead person that will be the primary contact for non-technical issues.

The Provider Team may directly contact Authorized Quilt Buyers regarding their services, both in a sales mode and an on-going customer management mode.

Authorized Quilt Buyers may directly contact the Provider Team to get information about services. The Quilt will establish a dedicated liaison (Quilt Liaison) to be the administrative point of contact for the oversight, management, and administration of the Quilt Agreement. The Quilt Liaison will be a point of contact for Authorized Quilt Buyers (AQB) to get information about processes and procedures associated with purchases made through the Quilt Agreement. They will also be available as a point of escalation in the event of unresolved problems with services from Provider.

The Provider Team is responsible for providing information to the Quilt Liaison and Quilt President and CEO to insure the Quilt Agreement is being implemented correctly. Zayo, as the Authorized Quote Provider (AQP), must deliver to the Quilt Liaison on the first of every month an Excel report containing the following information for every AQB purchasing services from the AQP under the Quilt agreement.

- Contract execution date
- Contract term
- Physical circuit being purchased
- Committed bandwidth
- Contracted price/Mb

Non-technical Problem resolution:

Authorized Quilt Buyers will use the Provider Team to address and handle problems as a first point of contact. If response is lacking or not acceptable, the Authorized Quilt Buyer should notify and work with the Quilt Liaison to get resolution.

Technical Problem resolution:

Authorized Quilt Buyers will be provided with full contact to technical problem reporting services through the Provider from the Zayo NOC Escalation List . Provider trouble tickets will be issued to the Authorized Quilt Buyer's approved contacts. In the event that Authorized Quilt Buyers do not get appropriate technical response/resolution, their next point of escalation is the Provider Team Primary Contact. If they still do not get appropriate response, they should next inform the Quilt Liaison to assist in getting a response.

PROVIDER TEAM

Primary OneTel Sales Contact Name

Title

Organization

Phone Email

Cell Phone

Primary Zayo Contact Name

Title

Organization

Email

Cell Phone

Backup Zayo Contact

Name

Title

Organization

Phone Email

Cell Phone

Primary Pre-Sale Technical Contact

Name

Title

Organization

Phone

Email

Colin Campbell

Senior Territory Manager

OneTel

801-875-2936

ccampbell@onetelgem.com

801-214-7024

Gayle Nelson

Vice President - Education

Zayo Group

gnelson@ena.com

703-727-0866

John Sheehan

Director of Customer Services

Zayo Group 312-229-1256

John.sheehan@zayo.com

John Merrill

Solutions Engineer

Zayo Group

702-430-2607

john.merrill@zayo.com

Primary Technical Contacts – Zayo NOC Escalation List

Name

Title

Organization

Phone Email

Name

Title

Organization

Phone Email

Name

Title

Organization

Phone Email

Name Title

Organization

Phone

Email

Name

Title

Organization

Phone Email

ZAYO NOC - Level 01 Escalation (IP)

Tech on Duty Zayo Group +1 866-236-2824 ipncc@zayo.com

ZAYO NOC - Level 02 Escalation (IP)

Shift Lead Lead Technician

Zayo Group +1 866-236-2824 ipleads@zayo.com

ZAYO NOC – Level 03 Escalation (IP) Escalation Manager // Manager on Duty

Zayo Group

+1 918-221-0823 // +1 914-397-2513

gnocescalations@zayo.com // ipeth-manager@zayo.com

ZAYO NOC – Level 04 Escalation (IP)

Justin Jacques - Manager, Customer IP & Ethernet Operations

Zayo Group +1 918-295-7044

justin.jacques@zayo.com

ZAYO NOC – Level 05 Escalation (IP)

Sheily Mali - Head of IP & Ethernet Global Network Operations

Zayo Group +1 289-804-3880 sheily.mali@zayo.com

Vendor Contacts

	Name	Email	Phone
365 Data Centers	Donna Mooney	dmooney@365datacenters.com	O: 475-470-0972 M: 908-752-1454
Arelion	Wes Cantrall	wes.cantrall@teliasonera.com	O: 703-546-4080 M: 540-270-6812
Cogent	Chris Altman	caltman@cogentco.com	O: 312-960-6906 M: 312-351-3301
GTT	Dan Good	Daniel.Good@gtt.net	M: 845-598-3505
Lumen	Scott Pohlman	scott.pohlman@lumen.com	O: 314-242-5606 M: 314-550-5014
Zayo	Gayle Nelson	gayle.nelson@zayo.com	O: 615-312-6056 M: 703-727-0866

Quilt Vendor Liaison Contacts

Vendor	Name	Email	Office
365 Data Centers	Bruce Tyrrell, NJEdge	tyrrell@njedge.net	(609) 276-6928
Arelion	Michael Lambert, 3ROX	lambert@psc.edu	
Cogent	Barry Bryson, UEN	bbryson@uen.org	801-585-9000
GTT	Caroline Weilhamer I-Light / Indiana Gigapop	cweilham@iu.edu	(315) 930-4614
Lumen Jen Leasure, The Quilt		jen@thequilt.net	(206) 403-3188
Zayo	Jennifer Griffin, The Quilt	griffin@thequilt.net	303-909-4687

Quilt CIS Program Contact Jennifer Griffin

griffin@thequilt.net 303-909-4687