

## Spectrum Enterprise

# **Fiber Internet Access Service Level Agreement**

This document outlines the Service Level Agreement ("SLA") for Fiber Internet Access ("FIA") fiber-based service (the "Service").

This SLA is a part of, and hereby incorporated by reference into the Spectrum Enterprise Service Agreement (including the terms and conditions, attachments, and Service Orders described therein, the "Agreement"). To the extent any provision of this SLA conflicts with the Agreement, this SLA shall control. All SLA Targets in the table below are measured from Customer's Service Location to the location where Spectrum Enterprise has local access to the Internet (the Spectrum Enterprise "Point of Presence" or "POP") at the individual circuit or service level, and any applicable credits are issued only for the affected FIA circuit or service (the "Affected Service"). Capitalized words used, but not defined herein, shall have the meanings given to them in the Agreement.

## I. SLA Targets for FIA Services:

Service	Mean Time To Restore ("MTTR")	Latency / Frame Delay	Jitter / Frame	Packet Loss /
Availability		(Roundtrip)	Delay Variation	Frame Loss
End to End: 99.99%	Priority 1 Outages within 4 hours	45ms	<2ms	<0.1%

## II. Priority Classification:

A "Service Disruption" is defined as an outage, disruption, or severe degradation, other than an Excluded Disruption, that interferes with the ability of a Spectrum Enterprise network hub to: (i) transmit and receive network traffic on Customer's dedicated access port at the Spectrum Enterprise network hub; or (ii) exchange network traffic with another Spectrum Enterprise network hub. The Service Disruption period begins when Customer reports a Service Disruption using Spectrum Enterprise's trouble ticketing system by contacting Customer Care, Spectrum Enterprise acknowledges receipt of such trouble ticket, Spectrum Enterprise validates that the Service is affected, and Customer releases the Service for testing. The Service Disruption ends when the affected Service has been restored.

"Service Degradation" means a degradation of the Service that is not a Service Disruption or a result of an Excluded Disruption, such as failure of the Service to achieve the SLA Targets for Latency / Frame Delay, Jitter / Frame Delay Variation, or Packet / Frame Loss.

"Excluded Disruptions" means (i) planned outages, (ii) routine or urgent maintenance, (iii) time when Spectrum Enterprise is unable to gain access to Customer's Service Location, if necessary, (iv) service issues arising from acts of omissions of Customer or Customer's representatives or agents, (v) Customer equipment failures, (vi) Customer is not prepared to release the Service for testing, and (vii) Force Majeure Events.



Spectrum Enterprise will classify Service problems as follows:

Priority	Criteria
Priority 1	Each a "Priority 1 Outage":  Service Disruption resulting in a total loss of Service; or  Service Degradation to the point where Customer is unable to use the Service and is prepared to release it for immediate testing
Priority 2	<ul> <li>Service Degradation where Customer is able to use the Service and is not prepared to release it for immediate testing.</li> </ul>
Priority 3	<ul> <li>A service problem that does not impact the Service; or</li> <li>A single non-circuit specific quality of Service inquiry.</li> </ul>

## III. Service Availability

"Service Availability" is calculated as the total number of minutes in a calendar month less the number of minutes that the FIA Service is unavailable due to a Priority 1 Outage ("Downtime"), divided by the total number of minutes in a calendar month.

The following table contains examples of the percentage of Service Availability translated into minutes of Downtime for the 99.99% Service Availability Target:

Percentage by Days Per Month	Total Minutes / Month	Downtime Minutes
99.99% for 31 Days	44,640	4.5
99.99% for 30 Days	43,200	4.3
99.99% for 29 Days	41,760	4.2
99.99% for 28 Days	40,320	4

## IV. Mean Time to Restore ("MTTR")

The MTTR measurement for Priority 1 Outages is the average time to restore Priority 1 Outages during a calendar month calculated as the cumulative length of time it takes Spectrum Enterprise to restore an FIA Service following a Priority 1 Outage in a calendar month divided by the corresponding number of trouble tickets for Priority 1 Outages opened during the calendar month for the FIA Service.

MTTR per calendar month is calculated as follows:

Cumulative length of time to restore Priority 1 Outage(s) per FIA Service
Total number of Priority 1 Outage trouble tickets per FIA Service

## V. Latency / Frame Delay

Latency or Frame Delay is the average roundtrip network delay, measured every 5 minutes during a calendar month, unless measurement is not possible as a result of an Excluded Disruption, to adequately determine a consistent average monthly performance level for frame delay for each FIA Service. The roundtrip delay is expressed in milliseconds (ms).



Latency is calculated as follows:

Latency/Frame Delay = Sum of the roundtrip delay measurements for an FIA Service

Total # of measurements for an FIA Service

## VI. Packet Loss / Frame Loss Ratio

Packet Loss or Frame Loss Ratio is defined as the percentage of frames that are not successfully received compared to the total frames that are sent in a calendar month, except where any packet or frame loss is the result of an Excluded Disruption. The percentage calculation is based on frames that are transmitted from a network origination point and received at a network destination point.

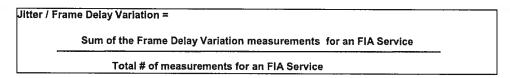
Packet Loss / Frame Loss Ratio is calculated as follows:

			Frames
Packet Loss / Frame Loss (%)	=	100 (%) —	Received (%)

## VII. Jitter / Frame Delay Variation

Jitter or Frame Delay Variation is defined as the variation in delay for two consecutive frames that are transmitted (one-way) from a network origination point and received at a network destination point. Spectrum Enterprise measures a sample set of frames every 5 minutes during a calendar month, unless measurement is not possible as a result of an Excluded Disruption, and determines the average delay between consecutive frames within each sample set. The monthly Jitter / Frame Delay Variation is calculated as the average of all of the frame delay variation measurements during such calendar month and is expressed in milliseconds (ms).

Jitter / Frame Delay Variation is calculated as follows:



## VIII. Network Maintenance

## **Maintenance Notice:**

Customer understands that from time to time, Spectrum Enterprise will perform network maintenance for network improvements and preventive maintenance. In some cases, Spectrum Enterprise will need to perform urgent network maintenance, which will usually be conducted within the routine maintenance windows. Spectrum Enterprise will use reasonable efforts to provide advance notice of the approximate time, duration, and reason for any urgent maintenance outside of the routine maintenance windows.

## **Maintenance Windows:**

Routine maintenance may be performed Monday – Friday 12 a.m. – 6 a.m. Local Time.



## IX. Remedies

#### Service Credits:

If the actual performance of an FIA Service during any calendar month is less than the SLA Targets and Customer is in compliance with the terms of the Agreement and this SLA, then Customer may request credit equal to the corresponding percentage of monthly recurring charges for the Affected Service as set forth in the table below. Any credit to be applied will be off-set against amounts due from Customer to Spectrum Enterprise in the billing cycle following the date Spectrum Enterprise makes its credit determination. Credit requests must be submitted to Spectrum Enterprise within thirty (30) days of the calendar month in which the SLA Target was missed. Spectrum Enterprise will exercise commercially reasonable efforts to respond to such credit requests within thirty (30) days of receipt thereof.

Service Availability	Mean Time To Restore ("M		Latency / Frame Delay (Roundtrip)	Jitter / Frame Delay Variation	Packet Loss / Frame Loss
30%	> 4 hours ≤ 7:59:59 hours	4%	5%	5%	5%
	> 8 hours	10%	1		

All SLA Targets are monthly measurements, and Customer may request only one credit per SLA Target per month for the Affected Service. Should one event impact more than one SLA hereunder, Customer shall receive the single highest of the qualifying credits only. Except as set forth below, the credits described in this SLA shall constitute Customer's sole and exclusive remedy, and Spectrum Enterprise's sole and exclusive liability, with respect to any missed SLA Targets. Service Credits hereunder shall not be cumulative per Service.

## **Chronic Priority 1 Outages:**

If Customer experiences and reports three (3) separate Priority 1 Outages where the Downtime exceeds four (4) hours during each Priority 1 Outage within three (3) consecutive calendar months, then Customer may terminate the Affected Service without charge or liability by providing at least thirty (30) days written notice to Spectrum Enterprise; provided, however, that (i) Customer may only terminate the Affected Service; (ii) Customer must exercise its right to terminate the Affected Service by providing written notice to Spectrum Enterprise within thirty (30) days after the event giving rise to Customer's termination right; (iii) Customer shall have paid Spectrum Enterprise all amounts due at the time of such termination for all Services provided by Spectrum Enterprise pursuant to the Agreement, and (iv) the foregoing termination right provides the sole and exclusive remedy of Customer and the sole and exclusive liability of Spectrum Enterprise for chronic Priority 1 Outages and Customer shall not be eligible for any additional credits. Termination will be effective forty-five (45) days after Spectrum Enterprise's receipt of such written notice of termination.



## **Customer Service Order**

THIS SERVICE ORDER ("Service Order"), is executed and effective upon the date of the signature set forth in the signature block below ("Effective Date") and is by and between Charter Communications Operating, LLC on behalf of those operating subsidiaries providing the Service(s) hereunder ("Spectrum") and Customer (as shown below) and is governed by and subject to the Spectrum Enterprise Commercial Terms of Service posted to the Spectrum Enterprise website, <a href="https://enterprise.spectrum.com/">https://enterprise.spectrum.com/</a> (or successor url) or, if applicable, an existing services agreement mutually executed by the parties (each, as appropriate, a "Service Agreement"). Except as specifically modified herein, all other terms and conditions of the Service Agreement shall remain unamended and in full force and effect.

Account Executive: Olivia Ortiz Phone: (562) 677-0406 ext: Cell Phone: (562) 677-0406 Email: olivia.ortiz@charter.com

Order # 11501277

Customer Information: Customer Code		
Business Name	CITY OF GARDEN GROVE	Customer Type: Existing Customer
Billing Address: 11222 Acacia Pkwy Garden Grove, CA 92840		
Attention To: Accounts Payable		
		Account Number
		8448400030194471
Billing Contact	Billing Contact Phone	Billing Contact Email Address
Authorized Contact	Authorized Contact Phone	Authorized Contact Email Address
Technical Contact	Technical Contact Phone	Technical Contact Email Address
Noel Proffitt	714-741-5097	noelp@ggcity.org



rider internet and	Ethernet Service Order Information	mation For 11222 Acacia Pk	wy Garden Grove CA	92840		
Site Name	Address Location		Location Type	B	Bandwidth	
	11222 Acacia Pkwy Garo	len Grove, CA 92840				
New and Revised S	ervices and Monthly Charges	At 11222 Acacia Pkwy , Gar	den Grove CA 92840			
				Monthly		
Descript	ion	Quantity	Sales Price	Recurring Total	Contract Term	
13 Static IP		1	\$40.00	\$40.00	36 Month	
Fiber Internet 1Gbps	<u> </u>	1	\$ 1599.00	\$ 1,599.00	36 Month	
*Total				\$ 1,639.00		
*Prices do not inclu	de taxes and fees.					
One Time fees At 1	1222 Acacia Pkwy , Garden Gi	ove CA 92840				
Descript	ion	Quantity	Sales Price		Total	
BCF Fiber Install		1		\$250.00	\$250.00	
BGP Configuration	Fee	1		5500.00	\$500.00	
Total					\$750.00	
*Prices do not inclu	de taxes and fees.					



#### Special Terms

For purposes of this Service Order only, the parties hereby agree to the following provision:

Portability. After the first twelve (12) months of the initial order term, if Customer is vacating or otherwise leaving a service location ("Closed Location") prior to the end of the initial order term, Customer may elect, upon at least sixty (60) days' prior written notice to Spectrum, to terminate the services at such Closed Location, without payment of early termination charges, provided that Customer: (a) has paid Spectrum all amounts due and owing, including any unpaid construction charges and other one-time charges, at the time of such termination for all services provided by Spectrum pursuant to the services agreement or applicable terms; (b) vacates or otherwise leaves such service location within such sixty (60) day period; (c) places a service order for replacement services at a different location within the Spectrum market area ("New Location") with an activation date no later than sixty (60) days after the termination of the original service, so long as the replacement service at the New Location has a value (determined by multiplying the number of months in the replacement service's initial order term by such service's monthly recurring service charges) equal to or greater than the original service (such value determined by multiplying the number of months remaining in the original service's remaining initial order term by such service's monthly recurring charges); and (d) pays to Spectrum upon receipt of invoice all one-time charges, if any, associated with the replacement service at the New Location, and the costs and expenses incurred by Spectrum to terminate the terminated service, including, without limitation, any applicable third-party termination liability charges. Service charges for the New Location will be billed at the standard rates applicable to the geographic area of the New Location. Except as specifically modified herein, all other terms and conditions of the agreement and/or applicable terms shall remain unamended and in full force and effect.

For purposes of this Service Order only, the parties hereby agree to the following provision:

Non-Appropriation of Funds. Notwithstanding anything to the contrary, if the funds Customer requests for services under a service order for a fiscal year are not appropriated (a 'Non-Appropriation'), Customer shall have the right to terminate, without penalty, such services at a service location listed on such service order, provided that Customer shall (a) provide Spectrum with at least thirty (30) days written notice prior to the start of such fiscal year setting forth how such Non-Appropriation did not result from the act or failure by Customer; (b) pay Spectrum all amounts due and owing at the time of such Non-Appropriation for all services provided by Spectrum pursuant to the service agreement or applicable terms; (c) pay to Spectrum, upon receipt of invoice, all construction expenses and other non-recurring charges associated with the Services, and any costs and expenses incurred by Spectrum to deal with the Non-Appropriation, including, without limitation, any applicable third-party termination liability charges; (d) promptly cease all use of any software provided by Spectrum hereunder for such service, and shall return such software to Spectrum; and (e) return to Spectrum or permit Spectrum to remove, in Spectrum's sole discretion, the equipment in the same condition as when received, ordinary wear and tear excepted. Customer shall be responsible for reimbursing Spectrum for the repair or replacement of any equipment not returned in accordance with this paragraph. Except as specifically modified herein, all other terms and conditions of the agreement and/or applicable terms shall remain unamended and in full force and effect.

Electronic Signature Disclosure		
By signing and accepting below you are acknowledging that you h	save read and agree to the terms and conditions outlined in this document.	
Authority Classes Co. C.		
Authorized Signature for Customer		
Printed Name and Title		
Date Signed		
	ADDROVED A A - A	
	APPROXED AS TO FORM	
	OMAR SANDOVAL	6

City Attorney

DATED:

City of Garden Grove