

Services Agreement (E-Rate)

This Services Agreement (“Agreement”) is made on the 10th day of February, 2016 (“Effective Date”) by and between Comcast Cable Communications Management, LLC, (“Comcast”) a Delaware limited liability company, on behalf of itself and its applicable operating affiliates and subsidiaries offering services as identified below, with offices located at One Comcast Center, 1701 JFK Blvd Philadelphia, PA 19103 and the City and County of Denver, a Colorado home rule municipal corporation on behalf of the Denver Public Library (“Customer” or “City”), with offices located at 1437 Bannock Street, Denver, CO 80202. Herein, the above shall be collectively referred to as the “Parties” and individually as “Party”.

Description of Services to be provided by Comcast to Customer:	
Two (2) 4000 Mbps Ethernet Dedicated Internet (“EDI”) Services circuits, each inclusive of Border Gateway Protocol (“BGP”), as set forth in the Sales Order Form(s) (“Sales Order Form(s)”) attached hereto;	
Ethernet Network Services (“ENS”) with 1000 Mbps at twenty-four (24) Service Location(s) and 10000 Mbps at two (2) Service Location(s), as set forth in the Sales Order Form(s) attached hereto.	
Service Term (Months): Forty-Eight (48) with an option for one (1) twelve (12) month renewal.	Agreement Number: CO-64473-021016-01
Non-Recurring Charges (“NRC”): \$0.00	Monthly Recurring Charges (“MRC”): \$51,074.00
Number of Service Location(s): Twenty-Six (26)	Estimated Service Date: On or after July 1, 2015
Notes / Comments:	
<ol style="list-style-type: none"> 1. E-Rate funding, if applicable, to be sought solely by Customer. 2. ENS (Intrastate) Services shall be provided by Comcast Phone, LLC. The Comcast Phone, LLC SPIN No. is 143034516. 3. EDI Services shall be provided by Comcast Business Communications, LLC. The Comcast Business Communications, LLC SPIN No. is 143003990. 4. Modifications made to the General Terms and Conditions of the Agreement are set forth in the First Amendment attached hereto. 	
Sales Person: Robert Timmons	Telephone Number: (303) 603-0909
General Manager: Chris Prekopa	Telephone Number: (720) 357-3264
Customer Contact: Matt Hamilton	Telephone Number: (720) 865-1174

This Agreement sets forth the terms and conditions under which Comcast Cable Communications Management, LLC and its applicable operating affiliates and subsidiaries (identified above, “Comcast”) will provide communications and other services (“Services”) to the above Customer. This Agreement consists of this document (“Service Agreement Cover Page”), the Comcast General Terms and Conditions for E-Rate (“General Terms and Conditions”), Sales Order Form(s), the applicable PSAs, and any written amendments to the Agreement and executed by both Parties (“Amendment(s)”), collectively referred to as the “Agreement”. In the event of an explicit inconsistency among these documents, precedence will be as follows: (1) Amendment(s), (2) PSA(s), (3) General Terms and Conditions, (4) this Service Agreement Cover Page, and the (4) Sales Order Form(s). This Agreement shall commence and become a legally binding agreement upon the mutual execution of this Service Agreement Cover Page by the Parties. The Agreement shall terminate as set forth in the General Terms and Conditions. All capitalized terms not defined on this Service Agreement Cover Page shall have the definitions given to them in the General Terms and Conditions.

Customer, by signing below, agrees and accepts the terms and conditions of this Agreement.

City and County of Denver, a Colorado home rule municipal corporation on behalf of the Denver Public Library

Comcast Cable Communications Management, LLC

Signature:	Signature:
Printed Name:	Printed Name:
Title:	Title:
Date:	Date:

CONFIDENTIAL and PROPRIETARY

**COMCAST CABLE COMMUNICATIONS
MANAGEMENT, LLC**

GENERAL TERMS AND CONDITIONS FOR E-RATE

ARTICLE 1. DEFINITIONS

Affiliate: Any entity that controls, is controlled by or is under common control with Comcast.

Agreement, Services Agreement or SA: Consists of the Services Agreement Cover Page executed by both Parties, these General Terms and Conditions for E-Rate (“General Terms and Conditions”), Sales Order Form(s) and the Product-Specific Attachment(s) (“PSA(s)”) referenced on the Service Agreement Cover Page, and any written amendments to the Agreement executed by both Parties including any supplemental terms and conditions (“Amendment(s)”).

Amendment(s): Any written amendment to the Agreement, executed by both Parties, including any supplemental terms and conditions.

Comcast: The operating company affiliate or subsidiary of Comcast Cable Communications Management, LLC that provides the Services under the Service Agreement. References to Comcast in the Limitation of Liability, Disclaimer of Warranties and Indemnification Articles shall also include its directors, officers, employees, agents, Affiliates, suppliers, licensors, successors, and assigns, as the case may be.

Comcast Website or Website: The Comcast website where the Comcast use, security, privacy and other policies applicable to the Agreement will be posted. Comcast may update the Website documents and/or URL from time to time.

Comcast Equipment: Any and all facilities, equipment or devices provided by Comcast or its authorized contractors at the Service Location(s) that are used to deliver any of the Services including, but not limited to, all terminals, wires, modems, lines, circuits, ports, routers, gateways, switches, channel service units, data service units, cabinets, and racks. Notwithstanding the above, inside telephone wiring within the Service Location, whether or not installed by Comcast, shall not be considered Comcast Equipment.

Confidential Information: All information regarding either Party’s business which has been marked or is otherwise communicated as being “proprietary” or “confidential.” or which reasonably should be known by the receiving party to be proprietary or confidential information. Without limiting the generality of the foregoing, Confidential Information shall include, even if not marked, the Agreement, all Licensed Software, promotional materials, proposals, quotes, rate information, discount information, subscriber information, network upgrade information and schedules, network operation information (including without limitation information about outages and planned maintenance) and

invoices, as well as the Parties’ communications regarding such items.

Customer: The company, corporation, or other entity named on the Service Agreement Cover Page.

Customer-Provided Equipment (CE): Any and all facilities, equipment or devices supplied by Customer for use in connection with the Services.

Demarcation Point: The point of interconnection between the Network and Customer’s provided equipment located at a Service Location. In some cases the Demarcation Point shall be the User to Network Interface (UNI) port on Comcast Equipment at a Service Location.

General Terms and Conditions: These General Terms and Conditions for E-Rate.

Licensed Software: Computer software or code provided by Comcast or required to use the Services, including without limitation, associated documentation, and all updates thereto.

Network: Consists of the Comcast Equipment, facilities, fiber optic cable associated with electronics and other equipment used to provide the Services.

Party: A reference to Comcast or the Customer; and in the plural, a reference to both companies.

Enterprise Services Product Specific Attachment(s) (PSA): The additional terms and conditions applicable to Services ordered by Customer under the Agreement.

Sales Order Form(s): A request for Comcast to provide the Services to a Service Location(s) submitted by Customer to Comcast (a) on a then-current Comcast form designated for that purpose or (b) if available, through a Comcast electronic order processing system designated for that purpose (“Sales Order”). The initial Sales Order is attached to the Service Agreement Cover Page.

Service(s): A service provided by Comcast pursuant to a Sales Order. All Services provided under the Agreement are for commercial use only.

Service Commencement Date: The date(s) on which Comcast first makes Service available for use by Customer.

Service Location(s): The Customer location(s) where Comcast provides the Services, to the extent the Customer owns, leases, or otherwise controls such location(s).

Service Term: The duration of time (commencing on the Service Commencement Date) for which Services are ordered, as specified on the Service Agreement Cover Page.

Tariff: A federal or state Comcast tariff and the successor documents of general applicability that replace such tariff in the event of detariffing.

CONFIDENTIAL and PROPRIETARY

ARTICLE 2. DELIVERY OF SERVICE

2.1 Orders. Customer shall submit to Comcast a properly completed Sales Order to initiate Service to a Service Location(s). A Sales Order shall become binding on the Parties when (i) it is specifically accepted by Comcast either electronically or in writing, (ii) Comcast begins providing the Service described in the Sales Order or (iii) Comcast begins Custom Installation (as defined in Article 2.7) for delivery of the Services described in the Sales Order, whichever is earlier. When a Sales Order becomes effective it shall be deemed part of, and shall be subject to, the Agreement.

2.2 Access. In order to deliver certain Services to Customer, Comcast may require access, right-of-way, conduit, and/or common room space ("Access"), both within and/or outside each Service Location. Customer shall provide an adequate environmentally controlled space and such electricity as may be required for installation, operation, and maintenance of the Comcast Equipment used to provide the Services within the Service Location(s). Customer shall be responsible for securing, and maintaining on an initial and ongoing basis during the applicable Service Term and/or Renewal Term, such Access within each Service Location unless Comcast has secured such access prior to this Agreement. In the event that Customer, fails to secure or maintain such Access within a particular Service Location, Comcast may cancel or terminate Service at such particular Service Location, without further liability, upon written notice to Customer. In such event, if Comcast has incurred any costs or expense in installing or preparing to install the Service that it otherwise would not have incurred, a charge equal to those costs and expenses shall apply to Customer's final invoice for that particular Service Location. If Comcast is unable to secure or maintain Access outside a particular Service Location, which Access is needed to provide Services to such Service Location, Customer or Comcast may cancel or terminate Service at such particular Service Location, without further liability beyond the termination date, upon a minimum thirty (30) days' prior written notice to the other Party. In such event, if Comcast has incurred any costs or expense in installing or preparing to install the Service that it otherwise would not have incurred, Comcast shall be responsible for such costs or expenses. Any other failure on the part of Customer to be ready to receive Service, or any refusal on the part of Customer to receive Service, shall not relieve Customer of its obligation to pay charges for any Service that is otherwise available for use.

2.3 Hazardous Materials. If the presence of asbestos or other hazardous materials exists or is detected at a Service Location or within the building where the Service Location is located, Comcast may immediately stop providing Services until such a time as such materials are removed. Alternatively Customer may notify Comcast to install the applicable portion of the Service in areas of any such Service Location not containing such hazardous material. Any additional expense incurred by Comcast as a result of encountering hazardous materials, including but not limited to, any additional equipment shall be borne by Customer. Customer shall use

reasonable efforts to maintain its property and Service Locations in a manner that preserves the integrity of the Services.

2.4 Comcast Equipment. At any time Comcast may remove or change Comcast Equipment in its sole discretion in connection with providing the Services. Customer shall not move, rearrange, disconnect, remove, attempt to repair, or otherwise tamper with any Comcast Equipment or permit others to do so, and shall not use the Comcast Equipment for any purpose other than that authorized by the Agreement. Comcast shall maintain Comcast Equipment in good operating condition during the term of this Agreement; provided, however, that such maintenance shall be at Comcast's expense only to the extent that it is related to and/or resulting from the ordinary and proper use of the Comcast Equipment. Customer is responsible for damage to, or loss of, Comcast Equipment caused by its acts or omissions, and its noncompliance with this Article, or by fire, theft or other casualty at the Service Location(s), unless caused by the gross negligence or willful misconduct of Comcast.

2.5 Ownership, Impairment and Removal of Network. The Network is and shall remain the property of Comcast regardless of whether installed within or upon the Service Location(s) and whether installed overhead, above, or underground and shall not be considered a fixture or an addition to the land or the Service Location(s) located thereon. Customer agrees that it shall take no action that directly or indirectly impairs Comcast's title to the Network, or any portion thereof, or exposes Comcast to any claim, lien, encumbrance, or legal process, except as otherwise agreed in writing by the Parties. Nothing in this Agreement shall preclude Comcast from using the Network for services provided to other Comcast customers. For a period of twelve (12) months following Comcast's discontinuance of Service to the Service Location(s), Comcast retains the right to remove the Network including, but not limited to, that portion of the Network that is located in the Service Location. To the extent Comcast removes such portion of the Network it shall be responsible for returning the Service Location(s) to its prior condition, reasonable wear and tear excepted.

2.6 Customer Provided Equipment ("CE"). Comcast shall have no obligation to install, operate, or maintain CE. Customer shall have sole responsibility for providing maintenance, repair, operation and replacement of all CE, inside telephone wiring and other Customer equipment and facilities on the Customer's side of the Demarcation Point. Neither Comcast nor its employees, Affiliates, agents or contractors will be liable for any damage, loss, or destruction to CE, unless caused by the gross negligence or willful misconduct of Comcast. CE shall at all times be compatible with the Network as determined by Comcast in its sole discretion. In addition to any other service charges that may be imposed from time to time, Customer shall be responsible for the payment of service charges for visits by Comcast's employees or agents to a Service Location when the service difficulty or trouble report results from the use of CE or facilities provided by any party other than Comcast.

2.7 Engineering Review. Each Sales Order submitted by Customer may be subject to an engineering review. The engineering review will determine whether and to what extent the Network must be extended, built or upgraded ("Custom Installation") in order to provide the ordered Services at the requested Service Location(s). Comcast will provide Customer written notification in the event Service installation at any Service Location will require an additional non-recurring installation fee ("Custom Installation Fee"). Custom Installation Fees may also be referred to as Construction Charges on a Sales Order or Invoice. Customer will have five (5) days from receipt of such notice to reject the Custom Installation Fee and terminate, without further liability, the Sales Order with respect to the affected Service Location(s). For certain Services, the Engineering Review will be conducted prior to Sales Order submission. In such case, Customer will have accepted the designated Custom Installation Fee upon submission of the applicable Sales Order.

2.8 Service Acceptance. Except as may otherwise be identified in the applicable PSA, the Service Commencement Date shall be the date Comcast completes installation and connection of the necessary facilities and equipment to provide the Service at a Service Location.

2.9 Administrative Website. Comcast may furnish Customer with one or more user identifications and/or passwords for use on the Administrative Website. Customer shall be responsible for the confidentiality and use of such user identifications and/or passwords and shall immediately notify Comcast if there has been an unauthorized release, use or other compromise of any user identification or password. In addition, Customer agrees that its authorized users shall keep confidential and not distribute any information or other materials made available by the Administrative Website. Customer shall be solely responsible for all use of the Administrative Website, and Comcast shall be entitled to rely on all Customer uses of and submissions to the Administrative Website as authorized by Customer. Comcast shall not be liable for any loss, cost, expense or other liability arising out of any Customer use of the Administrative Website or any information on the Administrative Website. Comcast may change or discontinue the Administrative Website, or Customer's right to use the Administrative Website, at any time. Additional terms and policies may apply to Customer's use of the Administrative Website. These terms and policies will be posted on the site.

ARTICLE 3. BILLING AND PAYMENT

3.1 Charges. Except as otherwise provided in the applicable PSA, Customer shall pay Comcast one hundred percent (100%) of the Custom Installation Fee prior to the installation of Service. Customer further agrees to pay all charges associated with the Services, as set forth or referenced in the applicable PSA, Sales Order(s) or invoice from Comcast. These charges may include, but are not limited to standard and custom non-recurring installation charges,

monthly recurring service charges, usage charges including without limitation charges for the use of Comcast Equipment, per-call charges, pay-per-view charges, charges for service calls, maintenance and repair charges, and applicable federal, state, and local taxes, fees, surcharges and recoupments (however designated). Some Services such as measured and per-call charges, pay-per-view movies or events, and interactive television (as explained in the applicable PSA) may be invoiced after the Service has been provided to Customer. Except as otherwise indicated herein or in the applicable PSA(s) monthly recurring charges for Ethernet, Video and Internet Services that are identified on a Sales Order shall not increase during the Service Term. Except as otherwise indicated herein or in the Sales Order(s), Voice Service pricing, charges and fees can be found in the applicable PSA.

3.2 Third-Party Charges. Customer may incur charges from third party service providers that are separate and apart from, or based on the amounts charged by Comcast. These may include, without limitation, charges resulting from wireless services including roaming charges, accessing on-line services, calls to parties who charge for their telephone based services, purchasing or subscribing to other offerings via the Internet or interactive options on certain Video services, or otherwise. Customer agrees that all such charges, including all applicable taxes, are Customer's sole responsibility. In addition, Customer is solely responsible for protecting the security of credit card information provided to others in connection with such transactions.

3.3 Payment of Bills. Except as otherwise indicated herein or in a PSA, Comcast will invoice Customer in advance on a monthly basis for all monthly recurring charges and fees arising under the Agreement. All other charges will be billed monthly in arrears, including without limitation certain usage based charges and third party pass through fees. Payment is due upon presentation of an invoice. Payment will be considered timely made to Comcast if received within thirty (30) days after the invoice date. Any charges not paid to Comcast within such period will be considered past due. If a Service Commencement Date is not the first day of a billing period, Customer's first monthly invoice shall include any pro-rated charges for the Services, from the date of installation to the start of the next billing period. In certain cases, Comcast may agree to provide billing services on behalf of third parties, as the agent of the third party. Any such third-party charges shall be payable pursuant to any contract or other arrangement between the third party and Customer and/or Comcast. Comcast shall not be responsible for any dispute regarding these charges between Customer and such third party. Customer must address all such disputes directly with the third party.

3.4 Partial Payment. Partial payment of any bill will be applied to the Customer's outstanding charges in amounts and proportions solely determined by Comcast. No acceptance of partial payment(s) by Comcast shall constitute a waiver of any rights to collect the full balance owed under the Agreement.

3.5 Credit Approval and Deposits. Initial and ongoing delivery of Services may be subject to credit approval. Customer shall provide Comcast with credit information requested by Comcast. Customer authorizes Comcast to make inquiries and to receive information about Customer's credit history from others and to enter this information in Customer's records. Customer represents and warrants that all credit information that it provides to Comcast will be true and correct. Comcast, in its sole discretion, may deny the Services based upon an unsatisfactory credit history. Additionally, subject to applicable regulations, Comcast may require Customer to make a deposit (in an amount not to exceed an estimated two months charge for the Services) as a condition to Comcast's provision of the Services, or as a condition to Comcast's continuation of the Services. The deposit will not, unless explicitly required by law, bear interest and shall be held by Comcast as security for payment of Customer's charges. Comcast may apply the deposit to any delinquent Customer charges upon written notice to Customer. If Comcast uses any or all of the deposit to pay an account delinquency, Customer will replenish the deposit by that amount within five (5) days of its receipt of written notice from Comcast. If the provision of Service to Customer is terminated, or if Comcast determines in its sole discretion that such deposit is no longer necessary, then the amount of the deposit (plus any required deposit interest) will be credited to Customer's account or will be refunded to Customer, as determined by Comcast.

3.6 Taxes and Fees. Except to the extent Customer provides a valid tax exemption certificate prior to the delivery of Service, Customer shall be responsible for the payment of any and all applicable local, state, and federal taxes or fees (however designated). Customer also will be responsible to pay any Service fees, payment obligations and taxes that become applicable retroactively.

3.7 Other Government-Related Costs and Fees. Comcast reserves the right to invoice Customer for any fees or payment obligations in connection with the Services imposed by governmental or quasi-governmental bodies in connection with the sale, installation, use, or provision of the Services, including, without limitation, applicable franchise fees, right of way fees and universal service fund charges (if any), regardless of whether Comcast or its Affiliates pay the fees directly or are required by an order, rule, or regulation of a taxing jurisdiction to collect them from Customer. Taxes and other government-related fees and surcharges may be changed with or without notice. In the event that any newly adopted law, rule, regulation or judgment increases Comcast's costs of providing Services, Customer shall pay Comcast's additional costs of providing Services under the new law, rule, regulation or judgment.

3.8 Disputed Invoice. If Customer disputes any portion of an invoice by the due date, Customer must pay fifty percent (50%) of the disputed charges, in addition to the undisputed portion of the invoice and submit a written claim, including all documentation substantiating Customer's claim, to Comcast

for the disputed amount of the invoice by the invoice due date. The Parties shall negotiate in good faith to resolve any billing dispute. Comcast will refund/credit all valid disputes resolved in Customer's favor as of the date the disputed charges first appeared on the Customer's invoice.

3.9 Past-Due Amounts. Any payment not made when due will be subject to a late charge of 1.5% per month or the highest rate allowed by law on the unpaid invoice, whichever is lower. If Customer's account is delinquent, Comcast may refer the account to a collection agency or attorney that may pursue collection of the past due amount and/or any Comcast Equipment that Customer fails to return in accordance with the Agreement. If Comcast is required to use a collection agency or attorney to collect any amount owed by Customer or any unreturned Comcast Equipment, Customer agrees to pay all reasonable costs of collection or other action. The remedies set forth herein are in addition to and not in limitation of any other rights and remedies available to Comcast under the Agreement or at law or in equity.

3.10 Rejected Payments. Except to the extent otherwise prohibited by law, Customer will be assessed a service charge up to the full amount permitted under applicable law for any check or other instrument used to pay for the Services that has been rejected by the bank or other financial institution.

3.11 Fraudulent Use of Services. Customer is responsible for all charges attributable to Customer with respect to the Service(s), even if incurred as the result of fraudulent or unauthorized use of the Service. Comcast may, but is not obligated to, detect or report unauthorized or fraudulent use of Services to Customer. Comcast reserves the right to restrict, suspend or discontinue providing any Service in the event of fraudulent use of Customer's Service.

3.12 E-Rate Funding. Comcast makes no representations or warranties with respect to the eligibility or ineligibility of the Services or any Service component for federal e-rate support or for other governmental and quasi-governmental telecommunications/internet discounts or entitlements (collectively, "E-Rate Funding"). Customer expressly understands and agrees that it shall pay Comcast one hundred percent (100%) of all non-recurring charges ("NRCs"), monthly recurring Service charges ("MRCs") and other amounts required under this Agreement in accordance with the payment intervals specified therein. Customer may not withhold or offset any such amounts on the basis of its actual or anticipated receipt of E-Rate Funding, except as otherwise set forth below. In the event that the Customer has received, or has been designated as a recipient of, E-Rate Funding for the Services, Customer will utilize the applicable customer-initiated reimbursement process relative to such E-Rate Funding. Comcast shall have no obligation to discount or prorate its invoices or to take other action to process such E-Rate Funding, except to the extent specifically required by law and regulation, or except as otherwise set forth above or below. Notwithstanding this, Comcast will reasonably assist Customer in the completion of those portions of the FCC

Form 472 which, as a matter of law or regulation, are required to be completed by the service provider. In the event that the Parties have expressly amended this Agreement in writing to permit E-Rate Funding to be applied in the form of discounts to, or a pro-ration of, Customer's invoices, Comcast shall have no obligations under this Agreement until Customer provides Comcast the copy of the Notification and Acceptance of Form(s) 486 from the Universal Services Administrative Company, Schools and Libraries Division ("SLD"), approving Customer's eligibility for E-Rate Funding. If during the term of this Agreement Customer fails to appropriate funds or if funds are not otherwise made available for continued performance for any fiscal period of the Agreement succeeding the first fiscal period, Customer may elect to (i) continue to receive Services under this Agreement, in which Customer shall remain bound by the terms and conditions set forth hereunder and remain responsible for all NRC and MRC, as set forth in the Sales Order Form(s) attached hereto, for the remaining term of the Agreement, irrespective of E-Rate Funding status, or, (ii) terminate this Agreement upon written notice as of the beginning of the fiscal year for which funds are not appropriated or otherwise made available. The effect of termination of the Agreement hereunder will be to discharge both Comcast and the Customer from future performance of the Agreement. However, Comcast shall be reimbursed for any and all unpaid non-recurring charges, any unpaid past due balance(s), and any additional costs already incurred by Comcast in conjunction with this Agreement. Customer shall notify Comcast in writing within thirty (30) days of fiscal budget denial indicating funds may not be available for the continuation of the Agreement for each succeeding fiscal period beyond the first year. In no event shall Comcast initiate construction of the Network until proof of funding has been received, in whole or in part, based on 100% Customer-furnished funds or partially reimbursed funds by the SLD.

ARTICLE 4. TERM; REVENUE COMMITMENT

4.1 Reserved.

4.2 Service Term. The applicable Service Term shall be set forth in the Sales Order or on the Service Agreement Cover Page.

4.3 Renewal Term. Upon the expiration of the Service Term, and unless otherwise agreed to by the Parties in writing, each Sales Order shall automatically renew on month to month bases not to exceed twelve (12) months ("Renewal Term(s)"), unless otherwise stated in these terms and conditions or prior notice of non-renewal is delivered by either Party to the other at least thirty (30) days before the expiration of the Service Term or the then current Renewal Term. Effective at any time after the end of the Service Term and from time to time thereafter, Comcast may, modify the charges for Ethernet, Internet and/or Video Services subject to thirty (30) days prior written notice to Customer. Customer will have thirty (30) days from receipt of such notice to cancel the applicable Service without further liability. Should Customer fail to

cancel within this timeframe, Customer will be deemed to have accepted the modified Service pricing.

ARTICLE 5. TERMINATION WITHOUT FAULT; DEFAULT

5.1 Termination for Convenience. Notwithstanding any other term or provision in this Agreement, Customer shall have the right, in its sole discretion, to terminate any or all Sales Order(s) at any time during the Service Term(s), upon thirty (30) days prior written notice to Comcast and subject to payment to Comcast of all outstanding amounts due for the Services, and the return of all applicable Comcast Equipment. Comcast may terminate the Agreement if Customer does not take any Service under a Sales Order for twelve (12) consecutive months or longer.

5.2 Termination for Cause. If either Party breaches any material term of the Agreement, other than a payment term, and the breach continues un-remedied for thirty (30) days after written notice of default, the other Party may terminate for cause any Sales Order materially affected by the breach. If Customer is in breach of a payment obligation (including failure to pay a required deposit) and fails to make payment in full within ten (10) days after receipt of written notice of default, Comcast may, at its option, terminate the Agreement, terminate the affected Sales Orders, suspend Service under the affected Sales Orders, and/or require a deposit, advance payment, or other satisfactory assurances in connection with any or all Sales Orders as a condition of continuing to provide Service; except that Comcast will not take any such action as a result of Customer's non-payment of a charge subject to a timely billing dispute, unless Comcast has reviewed the dispute and determined in good faith that the charge is correct. A Sales Order may be terminated by either Party immediately upon written notice if the other Party has become insolvent or involved in liquidation or termination of its business, or adjudicated bankrupt, or been involved in an assignment for the benefit of its creditors. Termination by either Party of a Sales Order does not waive any other rights or remedies that it may have under this Agreement. The non-defaulting Party shall be entitled to all available legal and equitable remedies for such breach.

5.3 Effect of Expiration/Termination of a Sales Order.

Upon the expiration or termination of a Sales Order for any reason:

- A.** Comcast shall disconnect the applicable Service;
- B.** Comcast may delete all applicable data, files, electronic messages, or other information stored on Comcast's servers or systems;
- C.** Reserved.
- D.** Customer shall, permit Comcast to retrieve from the applicable Service Location any and all Comcast Equipment. If Customer fails to permit such retrieval or if the retrieved Comcast Equipment has been damaged and/or destroyed other than by Comcast or

its agents, normal wear and tear excepted, Comcast may invoice Customer for the manufacturer's list price of the relevant Comcast Equipment, or in the event of minor damage to the retrieved Comcast Equipment, the cost of repair, which amounts shall be immediately due and payable; and

- E. Customer's right to use applicable Licensed Software shall automatically terminate, and Customer shall be obligated to return all Licensed Software to Comcast.

5.4 Resumption of Service. If a Service has been discontinued by Comcast for cause and Customer requests that the Service be restored, Comcast shall have the sole and absolute discretion to restore such Service. At Comcast's option, deposits, advanced payments, nonrecurring charges, and/or an extended Service Term may apply to restoration of Service.

5.5 Regulatory and Legal Changes. The Parties acknowledge that the respective rights and obligations of each Party as set forth in this Agreement upon its execution are based on applicable law and regulations as they exist on the date of execution of this Agreement. The Parties agree that in the event of any subsequent decision by a legislative, regulatory or judicial body, including any regulatory or judicial order, rule, regulation, decision in any arbitration or other dispute resolution or other legal or regulatory action that materially affects the provisions or ability to provide Services on economic terms of the Agreement, Comcast may, by providing written notice to the Customer, require that the affected provisions of the Agreement be renegotiated in good faith. If Customer refuses to enter such renegotiations, or the Parties can't reach resolution on new Agreement terms, Comcast may, in its sole discretion, terminate this Agreement, in whole or in part, upon sixty (60) days written notice to Customer.

ARTICLE 6. LIMITATION OF LIABILITY; DISCLAIMER OF WARRANTIES; WARNINGS

6.1 Limitation of Liability.

A, THE AGGREGATE LIABILITY OF COMCAST FOR ANY AND ALL LOSSES, DAMAGES AND CAUSES ARISING OUT OF THE AGREEMENT, INCLUDING, BUT NOT LIMITED TO, THE PERFORMANCE OF SERVICE, AND NOT OTHERWISE LIMITED HEREUNDER, WHETHER IN CONTRACT, TORT, OR OTHERWISE, SHALL NOT EXCEED DIRECT DAMAGES EQUAL TO THE SUM TOTAL OF PAYMENTS MADE BY CUSTOMER TO COMCAST DURING THE THREE (3) MONTHS IMMEDIATELY PRECEDING THE EVENT FOR WHICH DAMAGES ARE CLAIMED. THIS LIMITATION SHALL NOT APPLY TO COMCAST'S INDEMNIFICATION OBLIGATIONS AND CLAIMS FOR DAMAGE TO PROPERTY AND/OR PERSONAL INJURIES (INCLUDING DEATH) ARISING OUT OF THE GROSS NEGLIGENCE OR WILLFUL

MISCONDUCT OF COMCAST WHILE ON THE CUSTOMER SERVICE LOCATION.

B. NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY INCIDENTAL, INDIRECT, SPECIAL, COVER, PUNITIVE OR CONSEQUENTIAL DAMAGES, WHETHER OR NOT FORESEEABLE, OF ANY KIND INCLUDING BUT NOT LIMITED TO ANY LOSS REVENUE, LOSS OF USE, LOSS OF BUSINESS, OR LOSS OF PROFIT WHETHER SUCH ALLEGED LIABILITY ARISES IN CONTRACT OR TORT HOWEVER, THAT NOTHING HEREIN IS INTENDED TO LIMIT CUSTOMER'S LIABILITY FOR AMOUNTS OWED FOR THE SERVICES, OR FOR ANY EQUIPMENT OR SOFTWARE PROVIDED BY COMCAST.

6.2 Disclaimer of Warranties.

A. Services shall be provided pursuant to the terms and conditions in the applicable PSA and Service Level Agreement, and are in lieu of all other warranties, express, implied or statutory, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose, title, and non-infringement. To the maximum extent allowed by law, Comcast expressly disclaims all such express, implied and statutory warranties.

B. Without limiting the generality of the foregoing, and except as otherwise identified in a PSA or Service Level Agreement, Comcast does not warrant that the Services, Comcast Equipment, or Licensed Software will be uninterrupted, error-free, or free of latency or delay, or that the Services, Comcast Equipment, or Licensed Software will meet customer's requirements, or that the Services, Comcast Equipment, or Licensed Software will prevent unauthorized access by third parties.

C. In no event shall Comcast, be liable for any loss, damage or claim arising out of or related to: (i) stored, transmitted, or recorded data, files, or software; (ii) any act or omission of Customer, its users or third parties; (iii) interoperability, interaction or interconnection of the Services with applications, equipment, services or networks provided by Customer or third parties; or (iv) loss or destruction of any Customer hardware, software, files or data resulting from any virus or other harmful feature or from any attempt to remove it. Customer is advised to back up all data, files and software prior to the installation of Service and at regular intervals thereafter.

6.3 Disruption of Service. Notwithstanding the performance standards identified in a PSA, the Services are not fail-safe and are not designed or intended for use in situations requiring fail-safe performance or in which an error or interruption in the Services could lead to severe injury to business, persons, property or environment ("High Risk Activities"). These High Risk Activities may include, without limitation, vital business or personal communications, or

activities where absolutely accurate data or information is required.

6.4 Customer's sole and exclusive remedies are expressly set forth in the Agreement. Certain of the above exclusions may not apply if the state in which a Service is provided does not allow the exclusion or limitation of implied warranties or does not allow the limitation or exclusion of incidental or consequential damages. In those states, the liability of Comcast is limited to the maximum extent permitted by law.

ARTICLE 7. INDEMNIFICATION

7.1 Comcast's Indemnification Obligations. Comcast shall indemnify, defend, and hold harmless Customer and its parent company, affiliates, employees, directors, officers, and agents from and against all claims, demands, actions, causes of actions, damages, liabilities, losses, and expenses (including reasonable attorneys' fees) ("Claims") incurred as a result of: infringement of U.S. patent or copyright relating to the Comcast Equipment or Comcast Licensed Software hereunder; damage to tangible personal property or real property, and personal injuries (including death) arising out of the gross negligence or willful misconduct of Comcast while working on the Customer Service Location.

7.2 Customer's Indemnification Obligations. Customer shall indemnify, defend, and hold harmless Comcast from any and all Claims arising on account of or in connection with Customer's use or sharing of the Service provided under the Agreement, including with respect to: libel, slander, infringement of copyright, or unauthorized use of trademark, trade name, or service mark arising out of communications via the Service; for patent infringement arising from Customer's combining or connection of CE to use the Service; for damage arising out of the gross negligence or willful misconduct of Customer with respect to users of the Service.

7.3 Indemnification Procedures. The Indemnifying Party agrees to defend the Indemnified Party for any loss, injury, liability, claim or demand ("Actions") that is the subject of this Article 7. The Indemnified Party agrees to notify the Indemnifying Party promptly, in writing, of any Actions, threatened or actual, and to cooperate in every reasonable way to facilitate the defense or settlement of such Actions. The Indemnifying Party shall assume the defense of any Action with counsel reasonably satisfactory to the Indemnified Party. The Indemnified Party may employ its own counsel in any such case, and shall pay such counsel's fees and expenses. The Indemnifying Party shall have the right to settle any claim for which indemnification is available; provided, however, that to the extent that such settlement requires the Indemnified Party to take or refrain from taking any action or purports to obligate the Indemnified Party, then the Indemnifying Party shall not settle such claim without the prior written consent of the Indemnified Party, which consent shall not be unreasonably withheld, conditioned or delayed.

ARTICLE 8. SOFTWARE & SERVICES

8.1 License. If and to the extent that Customer requires the use of Licensed Software in order to use the Service

supplied under any Sales Order, Customer shall have a personal, nonexclusive, nontransferable, and limited license to use such Licensed Software in object code only and solely to the extent necessary to use the applicable Service during the corresponding Service Term. All Licensed Software provided to Customer, and each revised version thereof, is licensed (not sold) to Customer by Comcast only for use in conjunction with the Service. Customer may not claim title to, or an ownership interest in, any Licensed Software (or any derivations or improvements thereto), and Customer shall execute any documentation reasonably required by Comcast, including, without limitation, end-user license agreements for the Licensed Software. Comcast and its suppliers shall retain ownership of the Licensed Software, and no rights are granted to Customer other than a license to use the Licensed Software under the terms expressly set forth in this Agreement.

8.2 Restrictions. Customer agrees that it shall not: (i) copy the Licensed Software (or any upgrades thereto or related written materials) except for emergency back-up purposes or as permitted by the express written consent of Comcast; (ii) reverse engineer, decompile, or disassemble the Licensed Software; (iii) sell, lease, license, or sublicense the Licensed Software; or (iv) create, write, or develop any derivative software or any other software program based on the Licensed Software.

8.3 Updates. Customer acknowledges that the use of Service may periodically require updates and/or changes to certain Licensed Software resident in the Comcast Equipment or CE. If Comcast has agreed to provide updates and changes, such updates and changes may be performed remotely or on-site by Comcast, at Comcast's sole option. Customer hereby consents to, and shall provide free access for, such updates deemed reasonably necessary by Comcast. If Customer fails to agree to such updates, Comcast will be excused from the applicable Service Level Agreement and other performance credits, and any and all liability and indemnification obligations regarding the applicable Service.

8.4 Export Law and Regulation. Customer acknowledges that any products, software, and technical information (including, but not limited to, services and training) provided pursuant to the Agreement may be subject to U.S. export laws and regulations. Customer agrees that it will not use, distribute, transfer, or transmit the products, software, or technical information (even if incorporated into other products) except in compliance with U.S. export regulations. If requested by Comcast, Customer also agrees to sign written assurances and other export-related documents as may be required for Comcast to comply with U.S. export regulations.

8.5 Ownership of Telephone Numbers and Addresses. Customer acknowledges that use of certain Services does not give it any ownership or other rights in any telephone number or Internet/on-line addresses provided, including but not limited to Internet Protocol ("IP") addresses, e-mail addresses and web addresses.

8.6 Intellectual Property Rights in the Services. Title and intellectual property rights to the Services are owned by Comcast, its agents, suppliers or affiliates or their licensors or otherwise by the owners of such material. The copying, redistribution, bundling or publication of the Services, in whole or in part, without express prior written consent from Comcast or other owner of such material, is prohibited.

ARTICLE 9. CONFIDENTIAL INFORMATION AND PRIVACY

9.1 Disclosure and Use. All Confidential Information disclosed by either Party shall be kept by the receiving party in strict confidence and shall not be disclosed to any third party without the disclosing party's express written consent. Notwithstanding the foregoing, such information may be disclosed (i) to the receiving party's employees, affiliates, and agents who have a need to know for the purpose of performing this Agreement, using the Services, rendering the Services, and marketing related products and services (provided that in all cases the receiving party shall take appropriate measures prior to disclosure to its employees, affiliates, and agents to assure against unauthorized use or disclosure); or (ii) as otherwise authorized by this Agreement. Each Party agrees to treat all Confidential Information of the other in the same manner as it treats its own proprietary information, but in no case using a degree of care less than a reasonable degree of care.

9.2 Exceptions. Notwithstanding the foregoing, each Party's confidentiality obligations hereunder shall not apply to information that: (i) is already known to the receiving party without a pre-existing restriction as to disclosure; (ii) is or becomes publicly available without fault of the receiving party; (iii) is rightfully obtained by the receiving party from a third party without restriction as to disclosure, or is approved for release by written authorization of the disclosing party; (iv) is developed independently by the receiving party without use of the disclosing party's Confidential Information; or (v) is required to be disclosed by law or regulation.

9.3 Publicity. The Agreement provides no right to use any Party's or its affiliates' trademarks, service marks, or trade names, or to otherwise refer to the other Party in any marketing, promotional, or advertising materials or activities. Neither Party shall issue any publication or press release relating to, or otherwise disclose the existence of, the terms and conditions of any contractual relationship between Comcast and Customer, except as permitted by the Agreement or otherwise consented to in writing by the other Party. Notwithstanding the foregoing, Comcast may include Customer's name on Comcast's customer lists together with a description of Services purchased (financial terms not to be disclosed). If Customer wishes to remove Customer's name from such list or to limit the foregoing use of Customer's name, Customer may contact Comcast as set forth in Article 11.3 of these General Terms and Conditions and Comcast will effect such removal.

9.4 Reserved.

9.5 Remedies. Notwithstanding any other Article of this Agreement, the non-breaching Party shall be entitled to seek equitable relief to protect its interests pursuant to this Article 9, including, but not limited to, injunctive relief.

9.6 Monitoring of Services. Except as otherwise expressly set forth in a PSA, Comcast assumes no obligation to pre-screen or monitor Customer's use of the Service, including without limitation postings and/or transmission. However, Customer acknowledges and agrees that Comcast and its agents shall have the right to pre-screen and monitor such use from time to time and to use and disclose such results to the extent necessary to operate the Service properly, to ensure compliance with applicable use policies, to protect the rights and/or property of Comcast, or in emergencies when physical safety is at issue, and that Comcast may disclose the same to the extent necessary to satisfy any law, regulation, or governmental request. Comcast shall have no liability or responsibility for content received or distributed by Customer or its users through the Service, and Customer shall indemnify, defend, and hold Comcast and its directors, officers, employees, agents, subsidiaries, affiliates, successors, and assigns harmless from any and all claims, damages, and expenses whatsoever (including reasonable attorneys' fees) arising from such content attributable to Customer or its users.

9.7 Survival of Confidentiality Obligations. The obligations of confidentiality and limitation of use described in this Article 9 shall survive the expiration and termination of the Agreement for a period of two (2) years (or such longer period as may be required by law).

ARTICLE 10. USE OF SERVICE; USE AND PRIVACY POLICIES

10.1 Prohibited Uses and Comcast Use Policies. Customer is prohibited from using, or permitting the use of, any Service (i) for any purpose in violation of any law, rule, regulation, or policy of any government authority; (ii) in violation of any Use Policy (as defined below); (iii) for any use as to which Customer has not obtained all required government approvals, authorizations, licenses, consents, and permits; or (iv) to interfere unreasonably with the use of Comcast service by others or the operation of the Network. Customer is responsible for assuring that any and all of its users comply with the provisions of the Agreement. Comcast reserves the right to act immediately and without notice to terminate or suspend the Services and/or to remove from the Services any information transmitted by or to Customer or users, if Comcast determines that such use is prohibited as identified herein, or information does not conform with the requirements set or Comcast reasonably believes that such use or information may violate any laws, regulations, or written and electronic instructions for use. Furthermore, to the extent applicable, Services shall be subject to Comcast's acceptable use policies ("Use Policies") that may limit use. The Use Policies and other security policies concerning the Services

are posted on the Website, and are incorporated into this Agreement by reference. Comcast may update the Use Policies from time to time, and such updates shall be deemed effective immediately upon posting, with or without actual notice to Customer. Comcast's action or inaction in enforcing acceptable use shall not constitute review or approval of Customer's or any other users' use or information.

10.2 Privacy Policy. In addition to the provisions of Article 9, Comcast's commercial privacy policy applies to Comcast's handling of Customer confidential information. Comcast's privacy policy is available on the Website.

10.3 Privacy Note Regarding Information Provided to Third Parties. Comcast is not responsible for any information provided by Customer to third parties. Such information is not subject to the privacy provisions of this Agreement. Customer assumes all privacy and other risks associated with providing personally identifiable information to third parties via the Services.

10.4 Prohibition on Resale. Customer may not sell, resell, sublease, assign, license, sublicense, share, provide, or otherwise utilize in conjunction with a third party (including, without limitation, in any joint venture or as part of any outsourcing activity) the Services or any component thereof.

10.5 Violation. Any breach of this Article 10 shall be deemed a material breach of this Agreement. In the event of such material breach, Comcast shall have the right to restrict, suspend, or terminate immediately any or all Sales Orders, without liability on the part of Comcast, and then to notify Customer of the action that Comcast has taken and the reason for such action, in addition to any and all other rights and remedies under this Agreement.

ARTICLE 11. MISCELLANEOUS TERMS

11.1 Force Majeure. Neither Party (and in the case of Comcast, Comcast affiliates and subsidiaries) shall be liable to the other Party for any delay, failure in performance, loss, or damage to the extent caused by force majeure conditions such as acts of God, fire, explosion, power blackout, cable cut, acts of regulatory or governmental agencies, unavailability of right-of-way, unavailability of right-of-way or materials, or other causes beyond the Party's reasonable control, except that Customer's obligation to pay for Services provided under the Agreement shall not be excused. Changes in economic, business or competitive condition shall not be considered force majeure events.

11.2 Assignment or Transfer. Customer shall not assign any right, obligation or duty, in whole or in part, nor of any other interest hereunder, without the prior written consent of the other Party, which shall not be unreasonably withheld. All obligations and duties of either Party under this Agreement shall be binding on all successors in interest and assigns of such Party. Nothing herein is intended to limit Comcast's use of third-party consultants and contractors to perform Services

under a Sales Order.

11.3 Notices. Any notice sent pursuant to the Agreement shall be deemed given and effective when sent by facsimile (confirmed by first-class mail), or when delivered by overnight express or other express delivery service, in each case as follows: (i) with respect to Customer, to the address set forth on any Sales Order; or (ii) with respect to Comcast, to: Vice President/Enterprise Sales, One Comcast Center, 1701 JFK Blvd., Philadelphia, PA 19103, with a copy to Cable Law Department, One Comcast Center, 50th Floor, 1701 JFK Blvd., Philadelphia, PA 19103. Each Party shall notify the other Party in writing of any changes in its address listed on any Sales Order.

11.4 Entire Understanding. The Agreement, together with any applicable Tariffs, constitutes the entire understanding of the Parties related to the subject matter hereof. The Agreement supersedes all prior agreements, proposals, representations, statements, or understandings, whether written or oral, concerning the Services or the Parties' rights or obligations relating to Services. Any prior representations, promises, inducements, or statements of intent regarding the Services that are not embodied in the Agreement are of no effect. No subsequent agreement among the Parties concerning Service shall be effective or binding unless it is made in writing by authorized representatives of the Parties. Terms or conditions contained in any Sales Order, or restrictive endorsements or other statements on any form of payment, shall be void and of no force or effect.

11.5 Tariffs. Notwithstanding anything to the contrary in the Agreement, Comcast may elect or be required to file with regulatory agencies tariffs for certain Services. In such event, the terms set forth in the Agreement may, under applicable law, be superseded by the terms and conditions of the Tariffs. Without limiting the generality of the foregoing, in the event of any inconsistency with respect to rates, the rates and other terms set forth in the applicable Sales Order shall be treated as individual case based arrangements to the maximum extent permitted by law, and Comcast shall take such steps as are required by law to make the rates and other terms enforceable. If Comcast voluntarily or involuntarily cancels or withdraws a Tariff under which a Service is provided to Customer, the Service will thereafter be provided pursuant to the Agreement and the terms and conditions contained in the Tariff immediately prior to its cancellation or withdrawal. In the event that Comcast is required by a governmental authority to modify a Tariff under which Service is provided to Customer in a manner that is material and adverse to either Party, the affected Party may terminate the applicable Sales Order upon a minimum thirty (30) days' prior written notice to the other Party, without further liability

11.6 Construction. In the event that any portion of the Agreement is held to be invalid or unenforceable, the Parties shall replace the invalid or unenforceable portion with another provision that, as nearly as possible, reflects the original

intention of the Parties, and the remainder of the Agreement shall remain in full force and effect.

11.7 Survival. The rights and obligations of either Party that by their nature would continue beyond the expiration or termination of a Sales Order shall survive termination or expiration of the Sales Order.

11.8 Choice of Law. The domestic law of the state in which the Service is provided shall govern the construction, interpretation, and performance of this Agreement, except to the extent superseded by federal law.

11.9 No Third Party Beneficiaries. This Agreement does not expressly or implicitly provide any third party (including users) with any remedy, claim, liability, reimbursement, cause of action, or other right or privilege.

11.10 Parties' Authority to Contract. The persons whose signatures appear below are duly authorized to enter into the Agreement on behalf of the Parties name therein.

11.11 No Waiver; Etc. No failure by either Party to enforce any rights hereunder shall constitute a waiver of such right(s). This Agreement may be executed in counterpart copies.

11.12 Independent Contractors. The Parties to this Agreement are independent contractors. Neither Party is an agent, representative, or partner of the other Party. Neither Party shall have any right, power, or authority to enter into any agreement for, or on behalf of, or incur any obligation or liability of, or to otherwise bind, the other Party. This Agreement shall not be interpreted or construed to create an association, agency, joint venture, or partnership between the Parties or to impose any liability attributable to such a relationship upon either Party.

11.13 Article Headings. The article headings used herein are for reference only and shall not limit or control any term or provision of this Agreement or the interpretation or construction thereof.

11.14 Compliance with Laws. Each of the Parties agrees to comply with all applicable local, state and federal laws and regulations and ordinances in the performance of its respective obligations under this Agreement.

FIRST AMENDMENT
to
Services Agreement No. CO-64473-022316-01

This First Amendment (“Amendment”) is concurrently entered into on February 23, 2016 (“Effective Date”) in conjunction with the Services Agreement No. CO-64473-022316-01 (“Agreement”), by and between Comcast Cable Communications Management, LLC (“Comcast”) and the City and County of Denver, a Colorado home rule municipal corporation on behalf of the Denver Public Library (“Customer” or “City”), individually referred to herein as “Party”, and jointly referred to as “Parties”. In the event of conflict between this Amendment and the Agreement, the terms and conditions of this Amendment shall take precedence in the interpretation of the explicit matter in question. Unless otherwise set forth herein, all capitalized terms set forth herein shall have the same meaning as set forth in the Agreement.

Whereas, Customer and Comcast have previously entered into the Agreement and whereby Comcast agreed to provide Customer the Services more particularly described therein;

Whereas, the Parties desire to amend the Agreement by this writing to reflect the amended or additional terms to which the Parties have agreed to;

Now, therefore, in consideration of the mutual covenants, promises, and consideration set forth in this Amendment, the Parties agree as follows:

1. The Definition of Confidential Information as set forth in the Agreement is hereby modified to read as follows:

“Confidential Information: To the extent permitted under the Colorado Open Records Act (CORA), information regarding either Party’s business which has been marked or is otherwise communicated as being “proprietary” or “confidential.” or which reasonably should be known by the receiving party to be proprietary or confidential information. Without limiting the generality of the foregoing, and subject to CORA, Confidential Information shall include, even if not marked, the Agreement, all Licensed Software, promotional materials, proposals, quotes, rate information, discount information, subscriber information, network upgrade information and schedules, network operation information (including without limitation information about outages and planned maintenance) and invoices, as well as the Parties’ communications regarding such items. The Parties acknowledge that after execution of the Agreement the Customer shall make the Agreement and its attachments publicly available through the internet. In the event of a CORA request for confidential or proprietary information described herein, the Customer shall release such information unless Comcast intervenes to defend said release.”

2. Article 2.6 of the Agreement is hereby modified to read as follows:

“Customer Provided Equipment (“CE”). Comcast shall have no obligation to install, operate, or maintain CE. Customer shall have sole responsibility for providing maintenance, repair, operation and replacement of all CE, inside telephone wiring and other Customer equipment and facilities on the Customer’s side of the Demarcation Point. Neither Comcast nor its employees, Affiliates, agents or contractors will be liable for any damage, loss, or destruction to CE, unless caused by the negligence or willful misconduct of Comcast. CE shall at all times be compatible with the Network as determined by Comcast in its sole discretion. In addition to any other service charges that may be imposed from time to time, Customer shall be responsible for the payment of service charges for visits by Comcast’s employees or agents to a Service Location when the service difficulty or trouble report results from the use of CE or facilities provided by any party other than Comcast.”

3. Article 3.3 of the Agreement is hereby modified to read as follows:

“Payment of Bills. Subject to the City’s Prompt Payment Ordinance, §§ 20-107 to 20-118, D.R.M.C, except as otherwise indicated herein or in a PSA, Comcast will invoice Customer in advance on a monthly basis for

all monthly recurring charges and fees arising under the Agreement. All other charges will be billed monthly in arrears, including without limitation certain usage based charges and third party pass through fees. Payment is due upon presentation of an invoice. Payment will be considered timely made to Comcast if received within thirty (30) days after the invoice date; however, Comcast shall provide Customer with a fifteen (15) day Grace Period (“Grace Period”) immediately subsequent to the thirty (30) day payment remittance period. Any charges not paid to Comcast within such period will be considered past due. If a Service Commencement Date is not the first day of a billing period, Customer’s first monthly invoice shall include any pro-rated charges for the Services, from the date of installation to the start of the next billing period. In certain cases, Comcast may agree to provide billing services on behalf of third parties, as the agent of the third party. Any such third-party charges shall be payable pursuant to any contract or other arrangement between the third party and Customer and/or Comcast. Comcast shall not be responsible for any dispute regarding these charges between Customer and such third party. Customer must address all such disputes directly with the third party.”

4. Article 3.7 of the Agreement is hereby modified to read as follows:

“Other Government-Related Costs and Fees. Comcast reserves the right to invoice Customer for any fees or payment obligations in connection with the Services imposed by governmental or quasi-governmental bodies in connection with the sale, installation, use, or provision of the Services, including, without limitation, applicable franchise fees, right of way fees and universal service fund charges (if any), regardless of whether Comcast or its Affiliates pay the fees directly or are required by an order, rule, or regulation of a taxing jurisdiction to collect them from Customer. Taxes and other government-related fees and surcharges may be changed with or without notice, In the event that any newly adopted law, rule, regulation or judgment increases Comcast’s costs of providing Services, Customer shall pay Comcast’s additional costs of providing Services under the new law, rule, regulation or judgment. Except for universal service fund fees which are imposed on Ethernet Transport products including without limitation ENS service, and except for fees billed in error, Customer shall have the right to terminate this Agreement, within sixty (60) days’ of receiving an invoice which includes one of the fees identified in this provision, without further obligation to Comcast beyond the termination date, including Termination Charges.”

5. Article 3.8 of the Agreement is hereby modified to read as follows:

“Disputed Invoice. If Customer disputes any portion of an invoice by the due date, Customer must pay the undisputed portion of the invoice and submit a written claim, including all documentation substantiating Customer’s claim, to Comcast for the disputed amount of the invoice by the invoice due date. The Parties shall negotiate in good faith to resolve any billing dispute. Comcast will refund/credit all valid disputes resolved in Customer’s favor as of the date the disputed charges first appeared on the Customer’s invoice. Under no circumstances may Customer submit a billing dispute to Comcast later than sixty (60) days following Customer’s receipt of the applicable invoice. Except as otherwise provided herein, payment of any disputed amounts by Customer shall not constitute a waiver of any rights or claims of Customer.”

6. Article 3.9 of the Agreement is hereby modified to read as follows:

“Past-Due Amounts. Subject to the City’s Prompt Payment Ordinance, §§ 20-107 to 20-118, D.R.M.C., Any payment not made when due will be subject to a late charge of 1.5% per month or the highest rate allowed by law on the unpaid invoice, whichever is lower. If Customer’s account is delinquent, Comcast may refer the account to a collection agency or attorney that may pursue collection of the past due amount and/or any Comcast Equipment that Customer fails to return in accordance with the Agreement. The remedies set forth herein are in addition to and not in limitation of any other rights and remedies available to Comcast under the Agreement or at law or in equity.”

7. Article 6.1 A of the Agreement is hereby modified to read as follows:

“THE AGGREGATE LIABILITY OF COMCAST FOR ANY AND ALL LOSSES, DAMAGES AND CAUSES ARISING OUT OF THE AGREEMENT, INCLUDING, BUT NOT LIMITED TO, THE

PERFORMANCE OF SERVICE, AND NOT OTHERWISE LIMITED HEREUNDER, WHETHER IN CONTRACT, TORT, OR OTHERWISE, SHALL NOT EXCEED DIRECT DAMAGES EQUAL TO THE SUM TOTAL OF PAYMENTS MADE BY CUSTOMER TO COMCAST DURING THE TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT FOR WHICH DAMAGES ARE CLAIMED. THIS LIMITATION SHALL NOT APPLY TO COMCAST'S INDEMNIFICATION OBLIGATIONS AND CLAIMS FOR DAMAGE TO PROPERTY AND/OR PERSONAL INJURIES (INCLUDING DEATH) ARISING OUT OF THE NEGLIGENCE OR WILLFUL MISCONDUCT OF COMCAST WHILE ON THE CUSTOMER SERVICE LOCATION."

8. Article 7.1 of the Agreement is hereby modified to read as follows:

"Comcast's Indemnification Obligations. Comcast shall indemnify defend, and hold harmless Customer and its parent company, affiliates, employees, directors, officers, and agents from and against all claims, demands, actions, causes of actions, damages, liabilities, losses, and expenses (including reasonable attorneys' fees) ("Claims") incurred as a result of: infringement of U.S. patent or copyright relating to the Comcast Equipment or Comcast Licensed Software hereunder; damage to tangible personal property or real property, and personal injuries (including death) arising out of the negligence or willful misconduct of Comcast. This indemnity shall not apply to the extent any such Claim is attributed to the negligence or willful misconduct of City. Under no circumstance will Comcast be responsible for Customer's use or sharing of the Service provided under the Agreement, including without limitation claims related to libel, slander, infringement of copyright, or unauthorized use of trademark, trade name, or service mark arising out of communications via the Service; patent infringement arising from Customer's combining or connection of CE to use the Service; damage arising out of the negligence or willful misconduct of Customer with respect to users of the Service."

9. Article 7.2 of the Agreement is hereby deleted in its entirety and held as "RESERVED".

10. Article 7.3 of the Agreement is hereby modified to read as follows:

"Indemnification Procedures. Comcast agrees to defend the Customer for any loss, injury, liability, claim or demand ("Actions") that is the subject of Article 7.1. Customer agrees to notify Comcast promptly, in writing, of any Actions, threatened or actual, and to cooperate in every reasonable way to facilitate the defense or settlement of such Actions. Comcast shall assume the defense of any Action with counsel reasonably satisfactory to the Customer. The Customer may employ its own counsel in any such case, and shall pay such counsel's fees and expenses. Comcast shall have the right to settle any claim for which indemnification is available; provided, however, that to the extent that such settlement requires the Customer to take or refrain from taking any action or purports to obligate the Customer, then Comcast shall not settle such claim without the prior written consent of the Customer, which consent shall not be unreasonably withheld, conditioned or delayed."

11. Article 9.6 of the Agreement is hereby modified to read as follows:

"Monitoring of Services. Except as otherwise expressly set forth in a PSA, Comcast assumes no obligation to pre-screen or monitor Customer's use of the Service, including without limitation postings and/or transmission. However, Customer acknowledges and agrees that Comcast and its agents shall have the right to pre-screen and monitor such use from time to time and to use and disclose such results to the extent necessary to operate the Service properly, to ensure compliance with applicable use policies, to protect the rights and/or property of Comcast, or in emergencies when physical safety is at issue, and that Comcast may disclose the same to the extent necessary to satisfy any law, regulation, or governmental request. Comcast shall have no liability or responsibility for content received or distributed by Customer or its users through the Service."

12. Article 11.15 is hereby added to the Agreement to read as follows:

“Maximum Contract Amount. Notwithstanding any other provision of the Agreement, the City’s maximum annual payment obligation will not exceed Six Hundred Twelve Thousand Eight Hundred Eighty Eight Dollars (\$612,888.00) (the “Maximum Annual Contract Amount”), unless the City elects to purchase additional Services hereunder. Notwithstanding any other provision of the Agreement, the City’s maximum payment obligation will not exceed two million four hundred fifty-one thousand five hundred and fifty-two dollars (\$2,451,552.00) (the “Maximum Contract Amount”). It is understood by the Parties that the Customer is seeking E-Rate reimbursement for the initial Service Term (in which the total contract value is \$2,451,552.00) of the Agreement. The City is not obligated to execute an Agreement or any amendments for any further services, including any services provided by Comcast beyond those specifically described in this Agreement. The City’s payment obligation, whether direct or contingent, extends only to funds appropriated annually by the Denver City Council, paid into the Treasury of the City, and encumbered for the purpose of the Agreement. The City does not by the Agreement irrevocably pledge present cash reserves for payment or performance in future fiscal years. The Agreement does not and is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the City. At Customer’s election, Comcast shall invoice Customer for its applicable portion of charges for the Services for which they are responsible for (which shall be reduced in accordance with any applicable funding approved by USAC) and Comcast shall submit the Service Provider Invoice (“SPI”) form to USAC to obtain reimbursement from USAC for the remainder of the total charges for the Services that equates to the approved discount in Customer’s Funding Commitment Decision Letter (“FCDL”) from USAC.”

13. Article 11.16 is hereby added to the Agreement to read as follows:

“Examination of Records. Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access and the right to examine any pertinent books, documents, papers and records of Comcast, involving payments by the City related to the Agreement until the latter of three (3) years after the final payment under the Agreement.”

14. Article 11.17 is hereby added to the Agreement to read as follows:

“No Discrimination in Employment. In connection with the performance of work under the Agreement, Comcast may not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability.”

15. Article 11.18 is hereby added to the Agreement to read as follows:

“Insurance.

A. General Conditions: Contractor agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Contractor shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as “A-”VII or better. Each policy shall provide for notice of cancellation in accordance with policy provisions. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage which causes Contractor to no longer comply with the requirements of this Insurance section to the parties identified in the Notices section. Contractor shall be responsible for the payment of any deductible or self-insured retention under its policies. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Contractor. The Contractor shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

B. Proof of Insurance: Contractor may not commence services or work relating to the Agreement prior to placement of coverages required under this Agreement. Contractor shall provide certificate of insurance preferably an ACORD certificate, evidencing compliance with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of the City's rights or remedies under this Agreement.

C. Additional Insureds: For Commercial General Liability, Auto Liability and Excess Liability/Umbrella (if required), Contractor and subcontractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

D. Subcontractors and Subconsultants: All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Contractor. Contractor shall include all such subcontractors as additional insured under its policies (with the exception of Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Contractor agrees to provide proof of insurance for all such subcontractors and subconsultants performing work hereunder upon request by the City.

E. Workers' Compensation/Employer's Liability Insurance: Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Contractor expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Contractor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Contractor executes this Agreement.

F. Commercial General Liability: Contractor shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

G. Business Automobile Liability: Contractor shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement

H. Technology Errors & Omissions with Cyber-Liability: Contractor shall maintain Technology Errors and Omissions insurance including cyber liability, network security, privacy liability and product failure coverage with limits of \$1,000,000 per occurrence and \$1,000,000 policy aggregate.

I. Additional Provisions:

- (a) For Commercial General Liability, the policy must provide the following:
 - (i) That this Agreement is an Insured Contract under the policy;
 - (ii) Defense costs are outside the limits of liability;
 - (iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and
 - (iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City, but only with respect to losses for which Contractor is responsible hereunder.
- (b) For claims-made coverage:

(i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier.

(ii) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.”

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment as of the day and year written below and the persons signing covenant and warrant that they are duly authorized to sign for and on behalf of the respective Parties. Except as otherwise modified by this Amendment, all other terms and conditions of the original Services Agreement, inclusive of any all preceding Amendments shall remain in full force and effect.

**City and County of Denver, a Colorado home rule
municipal corporation on behalf of the Denver
Public Library**

Comcast Cable Communications Management, LLC

Signature:		Signature:	
Printed Name:		Printed Name:	
Title:		Title:	
Date:		Date:	

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Contract Control Number:

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Services Agreement (E-Rate)

This Services Agreement ("Agreement") is made on the 10th day of February, 2016 ("Effective Date") by and between Comcast Cable Communications Management, LLC, ("Comcast") a Delaware limited liability company, on behalf of itself and its applicable operating affiliates and subsidiaries offering services as identified below, with offices located at One Comcast Center, 1701 JFK Blvd Philadelphia, PA 19103 and the City and County of Denver, a Colorado home rule municipal corporation on behalf of the Denver Public Library ("Customer" or "City"), with offices located at 1437 Bannock Street, Denver, CO 80202. Herein, the above shall be collectively referred to as the "Parties" and individually as "Party".

Description of Services to be provided by Comcast to Customer: Two (2) 4000 Mbps Ethernet Dedicated Internet ("EDI") Services circuits, each inclusive of Border Gateway Protocol ("BGP"), as set forth in the Sales Order Form(s) ("Sales Order Form(s)") attached hereto; Ethernet Network Services ("ENS") with 1000 Mbps at twenty-four (24) Service Location(s) and 10000 Mbps at two (2) Service Location(s), as set forth in the Sales Order Form(s) attached hereto.	
Service Term (Months): Forty-Eight (48) with an option for one (1) twelve (12) month renewal.	Agreement Number: CO-64473-021016-01
Non-Recurring Charges ("NRC"): \$0.00	Monthly Recurring Charges ("MRC"): \$51,074.00
Number of Service Location(s): Twenty-Six (26)	Estimated Service Date: On or after July 1, 2015
Notes / Comments: 1. E-Rate funding, if applicable, to be sought solely by Customer. 2. ENS (Intrastate) Services shall be provided by Comcast Phone, LLC. The Comcast Phone, LLC SPIN No. is 143034516. 3. EDI Services shall be provided by Comcast Business Communications, LLC. The Comcast Business Communications, LLC SPIN No. is 143003990. 4. Modifications made to the General Terms and Conditions of the Agreement are set forth in the First Amendment attached hereto.	
Sales Person: Robert Timmons	Telephone Number: (303) 603-0909
General Manager: Chris Prekopa	Telephone Number: (720) 357-3264
Customer Contact: Matt Hamilton	Telephone Number: (720) 865-1174

This Agreement sets forth the terms and conditions under which Comcast Cable Communications Management, LLC and its applicable operating affiliates and subsidiaries (identified above, "Comcast") will provide communications and other services ("Services") to the above Customer. This Agreement consists of this document ("Service Agreement Cover Page"), the Comcast General Terms and Conditions for E-Rate ("General Terms and Conditions"), Sales Order Form(s), the applicable PSAs, and any written amendments to the Agreement and executed by both Parties ("Amendment(s)"), collectively referred to as the "Agreement". In the event of an explicit inconsistency among these documents, precedence will be as follows: (1) Amendment(s), (2) PSA(s), (3) General Terms and Conditions, (4) this Service Agreement Cover Page, and the (4) Sales Order Form(s). This Agreement shall commence and become a legally binding agreement upon the mutual execution of this Service Agreement Cover Page by the Parties. The Agreement shall terminate as set forth in the General Terms and Conditions. All capitalized terms not defined on this Service Agreement Cover Page shall have the definitions given to them in the General Terms and Conditions.

Customer, by signing below, agrees and accepts the terms and conditions of this Agreement.

City and County of Denver, a Colorado home rule municipal corporation on behalf of the Denver Public Library

Comcast Cable Communications Management, LLC

Signature:		Signature:	<i>[Signature]</i>
Printed Name:		Printed Name:	<i>Mark O'Leary</i>
Title:		Title:	<i>VP</i>
Date:		Date:	<i>2-26-16</i>

CONFIDENTIAL and PROPRIETARY



(i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier.

(ii) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.”

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment as of the day and year written below and the persons signing covenant and warrant that they are duly authorized to sign for and on behalf of the respective Parties. Except as otherwise modified by this Amendment, all other terms and conditions of the original Services Agreement, inclusive of any all preceding Amendments shall remain in full force and effect.

**City and County of Denver, a Colorado home rule
municipal corporation on behalf of the Denver
Public Library**

Comcast Cable Communications Management, LLC

Signature:		Signature:	<i>[Handwritten Signature]</i>
Printed Name:		Printed Name:	<i>Mark O'Leary</i>
Title:		Title:	<i>VP</i>
Date:		Date:	<i>2-26-16</i>

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Contract Control Number: BOOKS-201523269-00

Contractor Name: COMCAST CABLE COMMUNICATIONS LLC

By: *Mark O'Leary*

Name: *Mark O'Leary*
(please print)

Title: *VP ENTERPRISC Devt Sites*
(please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)



**COMCAST ENTERPRISE SERVICES PRODUCT-
SPECIFIC ATTACHMENT ETHERNET
DEDICATED INTERNET SERVICES**

ATTACHMENT IDENTIFIER: Ethernet Dedicated Internet, Version 1.4

The following additional terms and conditions are applicable to Sales Orders for Comcast's Ethernet Dedicated Internet Service:

DEFINITIONS

Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the General Terms and Conditions.

“**Estimated Availability Date**” means the target date for delivery of Service.

“**Interconnection Facilities**” means transmission capacity provided by Comcast, Customer or a third-party supplier to extend the Comcast Equipment from a Comcast terminal to any other location (e.g., a local loop provided by a local exchange company or other communications company).

“**Off-Net**” means geographical locations that are outside of Comcast's service area and/or geographical locations that are within Comcast's service area generally, but are not readily accessible by Comcast Network facilities. All Off-Net Services are provided by third-party service providers.

“**On-Net**” means geographical locations where Comcast currently provides Services through its Comcast Network. On-Net Services may be provisioned over a fiber optic network, or via a hybrid fiber coax network (“HFC Network”), as available through Comcast.

“**Services**” means Ethernet Dedicated Internet Services.

ARTICLE 1. SERVICES

This attachment shall apply to Ethernet Dedicated Internet Service. A further description of the Service is set forth in Schedule A-1 hereto which is incorporated herein by reference.

ARTICLE 2. PROVIDER

On-Net Service shall be provided by Comcast Business Communications, LLC.

On-Net Service provided over the HFC Network and Off-Net Services are available in a limited number of markets. For information on service availability, call 866-429-0152.

ARTICLE 3. CUSTOM INSTALATION FEES

Ethernet Dedicated Internet Services PSA

Once Comcast accepts a Sales Order for Service, Comcast will invoice Customer for all Custom Installation Fee(s). Customer will pay the Customer Installation Fee(s) within thirty (30) days of the invoice date unless a payment schedule is specified in the applicable Service Order.

ARTICLE 4. PROVISIONING INTERVAL

Following its acceptance of a Sales Order, Comcast shall notify Customer of the Estimated Availability Date applicable to that Sales Order. Comcast shall use commercially reasonable efforts to provision the Service on or before the Estimated Availability Date; provided, however, that Comcast's failure to provision by said date shall not constitute a breach of the Agreement.

ARTICLE 5. SERVICE COMMENCEMENT DATE

Comcast shall inform Customer when Service is available and performing in accordance with the “Technical Specifications” set forth in Schedule A-1 hereto (“Availability Notification”). Charges for Service shall begin to accrue as of the Service Commencement Date. The Service Commencement Date shall be earliest of: (A) the date on which Customer confirms receipt of and concurrence with the Availability Notification; (B) five (5) business days following the date of the Availability Notification, if Customer fails to notify Comcast that the Service does not comply materially with the specifications set forth in Schedule A-1 hereto; or (C) the date on which Customer first uses the Service.

ARTICLE 6. TERMINATION CHARGES; PORTABILITY; UPGRADES

6.1 The charges set forth or referenced in each Sales Order have been extended to Customer in reliance on the Service Term set forth therein. To the extent that a Service Term has not been expressly set forth in a Sales Order, the minimum Service Term for Services is twelve (12) months.

6.2 Termination Charges for On-Net Services.

A. In the event that On-Net Service is terminated following Comcast's acceptance of the applicable Sales Order but prior to the Service Commencement Date, Customer shall pay Termination Charges equal to the costs and expenses incurred by Comcast in installing or

preparing to install the On-Net Service plus twenty percent (20%).

B. In the event that On-Net Service is terminated on or following the Service Commencement Date but prior to the end of the applicable Service Term, Customer shall pay Termination Charges equal to a percentage of the monthly recurring charges remaining for the unexpired portion of the then-current Service Term, calculated as follows:

- i.** 100% of the monthly recurring charges with respect to months 1-12 of the Service Term; plus
- ii.** 80% of the monthly recurring charges with respect to months 13-24 of the Service Term; plus
- iii.** 65% of the monthly recurring charges with respect to months 25 through the end of the Service Term; plus
- iv.** 100% of any remaining, unpaid Custom Installation Fees.

Termination Charges shall be immediately due and payable upon cancellation or termination and shall be in addition to any and all accrued and unpaid charges for the Service rendered by Comcast through the date of cancellation or termination.

C. Termination Charges for Off-Net Services. In the event Customer terminates Off-Net Service following Comcast's acceptance of the applicable Sales Order but prior to the end of the applicable Service Term, Customer shall pay Termination Charges equal to 100% of the monthly recurring charges remaining through the end of the Service Term plus 100% of any remaining, unpaid Custom Installation Fees. Customer shall, pursuant to Article 3.2 of the General Terms and Conditions, also pay any third-party service provider ancillary fees incurred by Comcast due to the early termination of service by the Customer.

6.3 Exclusions. Termination Charges shall not apply to Service terminated by Customer as a result of Comcast's material and uncured breach in accordance with Article 5.2 of the General Terms and Conditions.

6.4 Portability. Customer may terminate an existing On-Net Service (an "Existing Service") and turn up a replacement On-Net Service (i.e., having different termination points on Comcast's network) (a "Replacement Service") without incurring Termination Charges with respect to the Existing Service, provided that (a) the Replacement Service must have a Service Term equal to or greater than the complete Service Term of the Existing Service; (b) the Replacement Service must have monthly recurring charges equal to or greater than the monthly recurring charges for the Existing Service; (c) Customer submits a Sales Order to Comcast for the Replacement Service within ninety (90) days after

termination of the Existing Service and that order is accepted by Comcast; (d) Customer reimburses Comcast for any and all installation charges that were waived with respect to the Existing Service; and (e) Customer pays the actual costs incurred by Comcast in installing and provisioning the Replacement Service.

6.5 Upgrades. Customer may upgrade the speed or capacity of an Existing Service without incurring Termination Charges, provided that (A) the upgraded Service (the "Upgraded Service") must assume the remaining Service Term of the Existing Service; (B) the Upgraded Service must have the same points of termination on Comcast's network as the Existing Service; (C) Customer submits a Sales Order to Comcast for the Upgraded Service and that order is accepted by Comcast; (D) Customer pays Comcast's applicable nonrecurring charges for the upgrade; and (E) Customer agrees to pay the applicable monthly recurring charges for the Upgraded Service commencing with the upgrade. Upgrades to Off-Net Services are subject to the applicable third party service provider rules and availability. Comcast has no obligation to upgrade Customer's Off-Net Service.

ARTICLE 7. ADDITIONAL INFORMATION

As necessary for the interconnection of the Service with services provided by others, Comcast may request (as applicable), and Customer will provide to Comcast, circuit facility assignment information, firm order commitment information, and design layout records necessary to enable Comcast to make the necessary cross-connection between the Service and Customer's other service provider(s). Comcast may charge Customer nonrecurring and monthly recurring cross-connect charges to make such connections.

ARTICLE 8. TECHNICAL SPECIFICATIONS; SERVICE LEVEL AGREEMENT

The technical specifications applicable to the Service are set forth in Schedule A-1 hereto. The service level agreement applicable to the Service is set forth in a Schedule A-2 hereto.

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET DEDICATED INTERNET SERVICES**

**SCHEDULE A-1
SERVICE DESCRIPTIONS AND TECHNICAL SPECIFICATIONS
COMCAST ETHERNET DEDICATED INTERNET SERVICES**

Ethernet Dedicated Internet Version 1.4

Comcast’s Ethernet Dedicated Internet Service (“Service”) will be provided in accordance with the service descriptions, technical specifications set forth below:

Service Descriptions

Ethernet Dedicated Internet Service (EDI). EDI provides reliable, simple, and flexible access to the Internet. The Service is offered with a 10Mbps, 100Mbps, 1Gbps or 10 Gbps Ethernet User-to-Network Interfaces (UNI) and is available in speed increments starting at 1Mbps, subject to available capacity. The Service provides an Ethernet Virtual Connection (EVC) from the Customer Service Location to a Comcast Internet Point of Presence (POP) router.

Technical Specifications

1. Ethernet User-to-Network Interface. The Service provides the bidirectional, full duplex transmission of untagged Ethernet frames using a standard IEEE 802.3 Ethernet interface (UNI) to attach to the customer’s router. Figure 1 lists the available UNI physical interfaces and their available Committed Information Rates (CIR) bandwidth increments and Committed Burst Sizes (CBS). CIR increments of less than 10 Mbps are generally not available in conjunction with Off-Net Services.

UNI Speed	UNI Physical Interface	CIR Increments	CBS (bytes)
10 Mbps	10BaseT	1 Mbps	25,000
100 Mbps	100BaseT	10 Mbps	250,000
1 Gbps	1000BaseT or 1000BaseSX	100 Mbps	2,500,000
10 Gbps	10GBase-SR or 10GBase-LR	1000 Mbps	25,000,000

Figure 1: Available UNI interface types and CBS values for different CIR Increments

2. Traffic Management. Comcast’s network traffic-policing policies restrict traffic flows to the subscribed, Committed Information Rate (CIR). If the Customer-transmitted bandwidth rate exceeds the subscription rate (CIR) and committed burst size (CBS), Comcast will discard the non-conformant packets. The Customer’s router must shape their traffic to their contracted CIR. Traffic management policies associated with any Off-Net portions of Service will conform to the policies enforced by the third-party service provider.

3. Maximum Frame Size. The Service supports a maximum transmission unit (MTU) frame size of 1518 bytes

including Layer 2 Ethernet header and FCS.

- 4. Layer 2 Control Protocol (L2CP) Processing.** All L2CP frames are discarded at the UNI.
- 5. IP Address Allocation.** IP address space is a finite resource that is an essential requirement for all Internet access services. Comcast assigns eight (8) routable IP addresses to each customer circuit. Customer can obtain additional IP addresses if required based on ARIN guidelines and by completing an IP address request form.
- 6. Domain Name Service.** Comcast provides primary and secondary Domain Name Service (DNS). DNS is the basic network service that translates host and domain names into corresponding IP addresses, and vice-versa.
- 7. Border Gateway Protocol (BGP) Routing.** Comcast supports BGP-4 routing as an optional service feature. BGP-4 allows Customers to efficiently multi-home across multiple ISP networks. The Service requires an Autonomous System Number (ASN) be assigned to a customer by the American Registry for Internet Numbers (ARIN). Customers should also be proficient in BGP routing protocol to provision and maintain the Service on their router. Additional information and requirements for BGP routing will be provided to the customer upon request. Comcast supports private peering if the Customer is multi-homed to Comcast's network only.
- 8. Online Reporting.** Comcast provides the Customer with a password-protected web portal to access online reports containing their historical network traffic information. Reports may vary based on the Customer's Service.

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET DEDICATED INTERNET SERVICES**

**SCHEDULE A-2
SERVICE LEVEL AGREEMENT**

Ethernet Dedicated Internet Version 1.4

Comcast’s Ethernet Dedicated Internet Service is backed by the following Service Level Agreement (“SLA”):

Definitions

Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Ethernet Dedicated Internet Services PSA or the General Terms and Conditions.

“Planned Service Interruption” means any Service Interruption caused by planned work such as scheduled maintenance or planned enhancements or upgrades to the network.

“Service Interruption” means a failure of the Service to meet the specifications set forth in Schedule A-1 to the Product-Specific Attachment for Ethernet Dedicated Internet Services.

Service Level Agreement (SLA)

Company’s liability for mistakes, errors, omissions, interruptions, delays, outages, or defects in transmission or switching of any Service (individually or collectively, “Liability”), shall be limited to the amounts set forth in the Tables below. The term "Liability" refers to an interruption in transmission that renders the Service unusable due to a total loss of signal for the service or the output signal presented to the customer from Comcast does not conform to the technical specifications in A-1 above. For the purposes of calculating credit for any such Liability, the Liability period begins when the Customer reports to Company an interruption in the portion of the Service, provided that the Liability is reported by Customer during the duration of the Liability, and, a trouble ticket is opened; the Liability shall be deemed resolved upon closing of the same trouble ticket or the termination of the interruption, if sooner, less any time Company is awaiting additional information or premises testing from the Customer. In no event shall the total amount of credit issued to Customer’s account on a per-month basis exceed 50% of the total monthly recurring charge (“MRC”) associated with the impacted portion of the Service set forth in the Sales Order. Service Interruptions will not be aggregated for purposes of determining credit allowances. To qualify, Customer must request the Credit from Comcast within thirty (30) days of the interruption. Customer will not be entitled to any additional credits for Service Interruptions. Comcast shall not be liable for any Liability caused by force majeure events, Planned Service Interruptions or Customer actions, omission or equipment.

TABLE 1: SLA for On-Net Services provided over a Comcast fiber-optic network

Length of Service Interruption:	Amount of Credit:
Less than 4 minutes	None
At least 4 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

TABLE 2: SLA for On-Net Services provided over the HFC Network

Length of Service Interruption:	Amount of Credit:
Less than 40 minutes	None
At least 40 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

TABLE 3: SLA for Off-Net Services

Length of Service Interruption:	Amount of Credit:
Less than 20 minutes	None
At least 20 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

THE TOTAL CREDIT ALLOWANCES PER MONTH IS CAPPED AT 50% OF THAT MONTH'S MRC FOR THE INTERRUPTED PORTIONS OF SERVICE. SEPARATELY OCCURRING SERVICE INTERRUPTIONS ARE NOT AGGREGATED FOR THE PURPOSES OF DETERMINING CREDIT ALLOWANCES.

Monitoring, Technical Support and Maintenance

1. **Network Monitoring.** Comcast monitors On-Net Service on a 24x7x365 basis.
2. **Technical Support.** Comcast provides a toll-free trouble reporting telephone number to the **Enterprise Technical Support (ETS) center** that operates on a 24x7x365 basis. Comcast provides technical support for service-related inquiries. Technical support will not offer consulting or advice on issues relating to CPE or other equipment not provided by Comcast.
 - a. **Escalation.** Reported troubles are escalated within the Comcast Business Enterprise Technical Support center ("ETS") to meet the response/restoration interval described below (Response and Restoration Standards). Service issues are escalated within Comcast ETS as follows: to a Supervisor

at the end of the applicable time interval plus one (1) hour; to a Manager at the end of the applicable time interval plus two (2) hours, and to a Director at the end of the applicable time interval plus four (4) hours.

b. **Maintenance.** Comcast’s standard maintenance window for On-Net Services is Sunday to Saturday from 12:00am to 6:00am local time. Scheduled maintenance for On-Net Services is performed during the maintenance window and will be coordinated between Comcast and the Customer. Comcast provides a minimum of forty-eight (48) hour notice for non-service impacting scheduled maintenance. Comcast provides a minimum of seven (7) notice for service impacting planned maintenance. Emergency maintenance is performed as needed without advance notice to Customer. Maintenance for Off-Net Services shall be performed in accordance with the applicable third party service provider rules. Therefore, Off-Net Service may be performed without advance notice to Customer.

3. Comcast provides certain Comcast Equipment for provisioning its services and the delivery of the UNI, which will reside on the Customer-side of the Demarcation Point. Comcast will retain ownership and management responsibility for this Comcast Equipment. This Comcast Equipment must only be used for delivering Services. Customers are required to shape their egress traffic to the Committed Information Rate (“CIR”) identified in the Sales Order. Comcast will be excused from paying SLA credits if the Service Interruption is the result of Customer’s failure to shape their traffic to the contracted CIR or utilizing Comcast Equipment for non-Comcast provided services.

Response and Restoration Standards

Comcast has the following response and restoration objectives:

CATEGORY	OBJECTIVE	MEASUREMENT	REMEDIES
<i>Mean Time to Respond Telephonically to Call</i>	15 minutes	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore On-Net Comcast Equipment</i>	4 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore Off-Net Equipment</i>	6 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore On-Net Services</i>	6 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore Off-Net Services</i>	9 hours	Averaged Over A Month	Escalation (see above)

Customer shall bear any expense incurred, e.g., dispatch/labor costs, where a Service Interruption is found to be the fault of Customer, its end users, agents, representatives or third-party suppliers.

Emergency Blocking

The parties agree that if either party hereto, in its reasonable sole discretion, determines that an emergency action is necessary to protect its own network, the party may, after engaging in reasonable and good faith efforts to notify the other party of the need to block, block any transmission path over its network by the other party where transmissions do not meet material standard industry requirements. The parties further agree that none of their respective obligations to one another under the Agreement will be affected by any such blockage except that the party affected by such blockage will be relieved of all obligations to make payments for charges relating to the circuit(s) which is so blocked and that no party will have any obligation to the other party for any claim, judgment or liability resulting from such blockage.

Remedy Processes

All claims and rights arising under this Service Level Agreement must be exercised by Customer in writing within thirty (30) days of the event that gave rise to the claim or right. The Customer must submit the following information to the Customer’s Comcast account representative with any and all claims for credit allowances: (a) Organization name; (b) Customer account number; and (c) basis of credit allowance claim (including date and time, if applicable). Comcast will

acknowledge and review all claims promptly and will inform the Customer by electronic mail or other correspondence whether a credit allowance will be issued or the claim rejected, with the reasons specified for the rejection.

Exceptions to Credit Allowances

A Service Interruption shall not qualify for the remedies set forth herein if such Service Interruption is related to, associated with, or caused by: scheduled maintenance events; Customer actions or inactions; Customer-provided power or equipment; any third party not contracted through Comcast, including, without limitation, Customer's users, third-party network providers, any power, equipment or services provided by third parties; or an event of force majeure as defined in the Agreement.

Other Limitations

The remedies set forth in this Service Level Agreement shall be Customer's sole and exclusive remedies for any Service Interruption, outage, unavailability, delay, or other degradation, or any Comcast failure to meet the service objectives.

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET TRANSPORT SERVICES**

ATTACHMENT IDENTIFIER: Ethernet Transport, Version 1.5

The following additional terms and conditions are applicable to Sales Orders for Comcast's Ethernet Transport Services:

DEFINITIONS

Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the General Terms and Conditions.

"Estimated Availability Date" means the target date for delivery of Service.

"Interconnection Facilities" means transmission capacity provided by Comcast, Customer or a third-party supplier to extend the Comcast Equipment from a Comcast terminal to any other location (e.g., a local loop provided by a local exchange company or other communications company).

"Off-Net" means geographical locations that are outside of Comcast's service area and/or geographical locations that are within Comcast's service area generally, but are not readily accessible by Comcast Network facilities. All Off-Net Services are provided by third-party service providers.

"On-Net" means geographical locations where Comcast currently provides Services through its Comcast Network. On-Net Services may be provisioned over a fiber optic network, or via a hybrid fiber coax network ("On-Net HFC"), as available through Comcast.

"Services" means Ethernet Transport Services.

ARTICLE 1. SERVICES

This attachment shall apply to Ethernet Transport Services. A further description of these Services is set forth in Schedule A-1 hereto which is incorporated herein by reference.

ARTICLE 2. PROVIDER

On-Net Service shall be provided by Comcast Business Communications, LLC.

On-Net Service provided over the On-Net HFC and Off-Net Services are available in a number of Comcast markets. For information on service availability, call 866-429-0152.

ARTICLE 3. REGULATORY APPROVAL; TRAFFIC MIX

Comcast's pricing for Service may be subject to FCC, public service commission or other regulatory approval. Further, Customer represents that its use of Service hereunder will be jurisdictionally interstate. Customer agrees to indemnify and hold Comcast harmless from any claims by third parties resulting from or arising out of Customer's failure to properly represent or certify the jurisdictional nature of its use of Service.

ARTICLE 4. CUSTOM INSTALLATION FEE

Once Comcast accepts a Sales Order for Service, Comcast will invoice Customer for all Custom Installation Fee(s). Customer will pay the Custom Installation Fee(s) within thirty (30) days of the invoice date unless a payment schedule is specified in the applicable Service Order.

ARTICLE 5. PROVISIONING INTERVAL

Following its acceptance of a Sales Order, Comcast shall notify Customer of the Estimated Availability Date applicable to that Sales Order. Comcast shall use commercially reasonable efforts to provision the Service on or before the Estimated Availability Date; provided, however, that Comcast's failure to provision by said date shall not constitute a breach of the Agreement.

ARTICLE 6. SERVICE COMMENCEMENT DATE

Comcast shall inform Customer when Service is available and performing in accordance with the "Performance Standards" set forth in Schedule A-1 hereto ("Availability Notification"). Charges for Service shall begin to accrue as of the Service Commencement Date. The Service Commencement Date shall be earliest of: (A) the date on which Customer confirms receipt of and concurrence with the Availability Notification; (B) five (5) business days following the date of the Availability Notification, if Customer fails to notify Comcast that the Service does not comply materially with the specifications set forth in Schedule A-1 hereto; or (C) the date on which Customer first uses the Service.

ARTICLE 7. TERMINATION CHARGES; PORTABILITY; UPGRADES

7.1 The charges set forth or referenced in each Sales Order have been extended to Customer in reliance on the Service Term set forth therein. To the extent that a Service Term has not been expressly set forth in a Sales Order, the minimum Service Term for Services is twelve (12) months.

7.2 Termination Charges for On-Net Services.

A. In the event On-Net Service is terminated following Comcast's acceptance of the applicable Sales Order but prior to the Service Commencement Date, Customer shall pay Termination Charges equal to the costs and expenses incurred by Comcast in installing or preparing to install the On-Net Service plus twenty percent (20%).

B. In the event that On-Net Service is terminated on or following the Service Commencement Date but prior to the end of the applicable Service Term, Customer shall pay Termination Charges equal to a percentage of the monthly recurring charges remaining for the unexpired portion of the then-current Service Term, calculated as follows:

- i. 100% of the monthly recurring charges with respect to months 1-12 of the Service Term; plus
- ii. 80% of the monthly recurring charges with respect to months 13-24 of the Service Term; plus
- iii. 65% of the monthly recurring charges with respect to months 25 through the end of the Service Term; plus
- iv. 100% of any remaining, unpaid Custom Installation Fees.

Termination Charges shall be immediately due and payable upon cancellation or termination and shall be in addition to any and all accrued and unpaid charges for the Service rendered by Comcast through the date of cancellation or termination.

C. Termination Charges for Off-Net Services. In the event Customer terminates Off-Net Service following Comcast's acceptance of the applicable Sales Order but prior to the end of the applicable Service Term, Customer shall pay Termination Charges equal to 100% of the monthly recurring charges remaining through the end of the Service Term plus 100% of any remaining, unpaid Custom Installation Fees. Customer shall, pursuant to Article 3.2 of the General Terms and Conditions, also pay any third-party charges, incurred by Comcast as a result of the early termination of service by the Customer.

7.3 Exclusions. Termination Charges shall not apply to Service terminated by Customer (a) as a result of Comcast's failure to provision Service within the intervals specified in Article 5 of this attachment or (b) as a result of Comcast's material and uncured breach in accordance with Article 5.2 of the General Terms and Conditions.

7.4 Portability. Customer may terminate an existing On-Net Service (an "Existing Service") and turn up a replacement On-Net Service (i.e., having different termination points on Comcast's network) (a "Replacement Service") without incurring Termination Charges with respect to the Existing Service, provided that (a) the Replacement Service must have a Service Term equal to or greater than the remaining Service Term of the Existing Service; (b) the Replacement Service must have monthly recurring charges equal to or greater than the monthly recurring charges for the Existing Service; (c) Customer submits a Sales Order to Comcast for the Replacement Service within ninety (90) days after termination of the Existing Service and that order is accepted by Comcast; (d) Customer reimburses Comcast for any and all installation charges that were waived with respect to the Existing Service; and (e) Customer pays the actual costs incurred by Comcast in installing and provisioning the Replacement Service.

7.5 Upgrades. Customer may upgrade the speed or capacity of an Existing Service without incurring Termination Charges, provided that (A) the upgraded Service (the "Upgraded Service") must assume the remaining Service Term of the Existing Service; (B) the Upgraded Service must have the same points of termination on Comcast's network as the Existing Service; (C) Customer submits a Sales Order to Comcast for the Upgraded Service and that order is accepted by Comcast; (D) Customer pays Comcast's applicable nonrecurring charges for the upgrade; and (E) Customer agrees to pay the applicable monthly recurring charges for the Upgraded Service commencing with the upgrade. Upgrades to Off-Net Services are subject to the applicable third party service provider rules and availability. Comcast has no obligation to upgrade Customer's Off-Net Service.

ARTICLE 8. ADDITIONAL INFORMATION

As necessary for the interconnection of the Service with services provided by others, Comcast may request (as applicable), and Customer will provide to Comcast, circuit facility assignment information, firm order commitment information, and design layout records necessary to enable Comcast to make the necessary cross-connection between the Service and Customer's other service provider(s). Comcast may charge Customer nonrecurring and monthly recurring cross-connect charges to make such connections.

ARTICLE 9. TECHNICAL SPECIFICATIONS AND PERFORMANCE STANDARDS; SERVICE LEVEL AGREEMENT

The technical specifications and performance standards applicable to the Service are set forth in Schedule A-1 hereto. The service level agreement applicable to the Service is set forth in a Schedule A-2 hereto.

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET TRANSPORT SERVICES**

**SCHEDULE A-1
SERVICE DESCRIPTIONS, TECHNICAL SPECIFICATIONS AND PERFORMANCE STANDARDS
COMCAST ETHERNET TRANSPORT SERVICES**

Ethernet Transport Version 1.5

Comcast's Ethernet Transport Services ("Service(s)") will be provided in accordance with the service descriptions, technical specifications and performance standards set forth below:

Definitions

1. Latency. Latency, also known as Frame Delay, is defined as the maximum delay measured for a portion of successfully delivered service frames over a 30 day period.
2. Jitter. Jitter, also known as Frame Delay Variation, is defined as the short-term variations measured for a portion of successfully delivered service frames over a 30 day period.
3. Packet Loss. Packet Loss, also known as Frame Loss, is the difference between the number of service frames transmitted at the ingress UNI and the total number of service frames received at the egress UNI over a 30 day period.

Service Descriptions

1. **Ethernet Network Service (ENS)**. ENS enables customers to connect physically distributed locations across a Metropolitan Area Network (MAN) or Wide Area Network (WAN) as if they are on the same Local Area Network (LAN). The service provides VLAN transparency enabling customers to implement their own VLANs without any coordination with Comcast. ENS offers three Classes of Service (CoS), as described below. The service is offered with 10/100Mbps, 1Gbps or 10Gbps Ethernet User-to-Network Interfaces (UNI) and is available in increments starting at 1Mbps. The ENS Service is not available over On-Net HFC.
2. **Ethernet Private Line (EPL)**. EPL service enables customers to connect their Customer Premises Equipment (CPE) using an Ethernet interface. EPL service enables customers to use any VLANs or Ethernet control protocol across the service without coordination with Comcast. EPL service provides one Ethernet Virtual Connection (EVC) between two customer locations. EPL offers three Classes of Service (CoS), as described below. EPL service is offered with 10/100Mbps, 1Gbps, or 10 Gbps Ethernet User-to-Network Interfaces (UNI) and is available in speed increments starting at 1Mbps.
3. **Ethernet Virtual Private Line (EVPL)**. EVPL service provides an Ethernet Virtual Connection (EVC) between two customer locations similar to Ethernet Private Line service but supports the added flexibility to multiplex multiple services (EVCs) on a single UNI at a customer's hub or aggregation site. The service multiplexing capability is not available at sites served by the Comcast On-Net HFC. EVPL offers three Classes of Service (CoS) , as described below. CoS options enable customers to select the CoS that best meets their applications' performance requirements. The service is offered with 10/100Mbps, 1Gbps, or 10 Gbps Ethernet User-to-Network Interfaces (UNI) and is available in speed increments starting at 1Mbps.

4. Off-Net Service Limitations. The above categories of Service are available as Off-Net Services, with the following limitations:

- Only available with Basic CoS;
- 10Gbps Ethernet UNIs are not available with Off-Net Services;
- Service multiplexing capability is not available on Off-Net EVPL UNIs;
- When ordering 10/100Mbps Off-Net Ethernet UNIs, speed increments may only be ordered in increments of 10 Mbps, up to a maximum size of 90Mbps; when ordering 1 Gbps Off-Net Ethernet UNIs, speed increments may only be ordered in increments of 100Mbps, up to a maximum size of 900Mbps

Ethernet Virtual Circuit (EVC) Area Types

Comcast Ethernet Transport Services are available both within and between certain major metropolitan areas throughout the United States. Each EVC is assigned an EVC Area Type based upon the locations of respective A and Z locations.

- a. Metro. EVC enables connectivity between customer locations within a Comcast defined Metro.
- b. Regional. EVC enables connectivity between customer locations that are in different Comcast defined Metro’s, but within Comcast defined geographic Regions.
- c. Continental. EVC enables connectivity between customer locations that are in different Comcast defined geographic Regions.

Technical Specifications and Performance Standards for Services

1. User-to-Network Interface. The Services provides the bidirectional, full duplex transmission of Ethernet frames using a standard IEEE 802.3 Ethernet interface. Figure 1 provides a list of available UNI physical interfaces and their available Committed Information Rate (CIR) bandwidth increments and Committed Burst Sizes (CBS). CIR increments of less than 10 Mbps are not available in conjunction with Off-Net Services.

UNI Speed	UNI Physical Interface	CIR Increments	CBS (bytes)
10 Mbps	10BaseT	1 Mbps	25,000
100 Mbps	100BaseT	10 Mbps	250,000
1 Gbps	1000BaseT or 1000BaseSX	100 Mbps	2,500,000
10 Gbps	10GBase-SR or 10GBase-LR	1000 Mbps	25,000,000

Figure 1: Available UNI interface types and CBS values for different CIR Increments

2. Class of Service (CoS) Options. As set forth in Figure 2, Comcast Ethernet Transport Services are available with three different classes of service. The CoS options allow for differentiated service performance levels for different types of network traffic. CoS is used to prioritize customer mission-critical traffic from lesser priority traffic in the network. The customer must specify a CIR for each CoS to indicate how much bandwidth should be assigned to each CoS. The performance metrics associated with each CoS are set forth in Attachment A-1.1 to the Product-Specific Attachment for Ethernet Service.

EVC Area Type	On-Net Fiber	On-Net HFC	Off-Net
Metro	Basic, Priority & Premium	Basic & Priority	Basic
Regional	Basic, Priority & Premium	Basic	Basic
Continental	Basic, Priority & Premium	Basic	Basic

Figure 2: Available CoS options by Access Type and EVC Area Type

3. CoS Identification and Marking. If a customer only implements a single CoS solution, they are not required to mark their packets using 802.1p CoS values. All packets, tagged or untagged, will be mapped into the subscribed CoS. If a customer implements a multi-CoS solution or for EVPL ports with service multiplexing, they must mark all packets using C-tag 802.1p CoS values as specified in Figure 3 to ensure the service will provide the intended CoS performance objectives specified in Figure 2. For multi-CoS solutions, untagged packets will be treated as if they are marked with a 0. Packets with other 802.1p values are mapped to the lowest subscribed CoS. In this case, C-tag VLAN ID values are not relevant as long as they are tagged with a VLAN ID in the range 1 to 4094. For EVPL ports with service multiplexing, untagged packets will be discarded and C-tag VLAN ID values are used to map traffic to applicable EVC's.

CoS	802.1p
Premium	5
Priority	2-3
Basic	0-1

Figure 3: CoS Marking

4. Traffic Management. Comcast's network traffic-policing policies restrict traffic flows to the subscribed CIR for each service class. If the customer-transmitted bandwidth rate for any CoS exceeds the subscription rate (CIR) and burst size (CBS), Comcast will discard the non-conformant packets. For packets marked with a non-conformant CoS marking, the service will transmit them using the Basic service class without altering the customer's CoS markings. Traffic management policies associated with Off-Net Services will conform to the policies enforced by the third-party service provider.

5. Maximum Frame Size. Services delivered On-Net support a Maximum Transmission Unit (MTU) packet size of 1600 bytes to support untagged or 802.1Q tagged packet sizes. Jumbo Frame sizes can be supported on an Individual Case Basis (ICB). For Services delivered On-Net HFC, frame sizes may not exceed 1518 MTU size (1522 with a single VLAN tag). All frames that exceed specifications shall be dropped. For Off-Net Services, MTU may vary by third-party provider.

6. Customer Traffic Transparency. All fields within customers Ethernet frames (unicast, multicast and broadcast, except L2CP) from the first bit of payload are preserved and transparently transported over UNI to UNI, as long as they are mapped into the EVC.

7. Ethernet Service Frame Disposition. Different types of Ethernet frames are processed differently by the Service. Frames may pass unconditionally through the network or may be limited as in the case of broadcast, unknown unicast and multicast frames to ensure acceptable service performance. Refer to Figure 7 for Comcast's service frame disposition for each service frame type.

Service Frame Type	EPL Frame Delivery	EVPL Frame Delivery	ENS Frame Delivery
Unicast	All frames delivered unconditionally	Frames delivered conditionally	All frames delivered unconditionally
Multicast	All frames delivered unconditionally	Frames delivered conditionally	Frames delivered conditionally
Broadcast	All frames delivered	Frames delivered	Frames delivered

	unconditionally	conditionally	conditionally
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Figure 7: Service Frame Delivery Disposition

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET TRANSPORT SERVICES**

**SCHEDULE A-2
SERVICE LEVEL AGREEMENT**

Ethernet Transport Version 1.5

Comcast’s Ethernet Transport Services is backed by the following Service Level Agreement (“SLA”):

Definitions:

Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Ethernet Transport Services PSA or the General Terms and Conditions.

“Planned Service Interruption” means any Service Interruption caused by planned work such as scheduled maintenance or planned enhancements or upgrades to the network.

“Service Interruption” means a complete loss of signal that renders the Service unusable.

Service Level Agreement (SLA)

Company’s liability for any Service Interruption (individually or collectively, “Liability”), shall be limited to the amounts set forth in the Tables below. For the purposes of calculating credit for any such Liability, the Liability period begins when the Customer reports to Company an interruption in the portion of the Service, provided that the Liability is reported by Customer during the duration of the Liability, and, a trouble ticket is opened; the Liability shall be deemed resolved upon closing of the same trouble ticket or the termination of the interruption, if sooner, less any time Company is awaiting additional information or premises testing from the Customer. In no event shall the total amount of credit issued to Customer’s account on a per-month basis exceed 50% of the total monthly recurring charge (“MRC”) associated with the impacted portion of the Service set forth in the Sales Order. Service Interruptions will not be aggregated for purposes of determining credit allowances. To qualify, Customer must request the Credit from Comcast within thirty (30) days of the interruption. Customer will not be entitled to any additional credits for Service Interruptions. Comcast shall not be liable for any Liability caused by force majeure events, Planned Service Interruptions or Customer actions, omission or equipment.

TABLE 1: SLA for On-Net Services provided over a fiber optic network (99.99% Availability)

Length of Service Interruption:	Amount of Credit:
Less than 4 minutes	None
At least 4 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

TABLE 2: SLA for On-Net Services provided over On-Net HFC (99.9% Availability)

Length of Service Interruption:	Amount of Credit:
Less than 40 minutes	None
At least 40 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

TABLE 3: SLA for Off-Net Services (99.95% Availability)

Length of Service Interruption:	Amount of Credit:
Less than 20 minutes	None
At least 20 minutes but less than 4 hours	5% of Total MRC
At least 4 hours but less than 8 hours	10% of Total MRC
At least 8 hours but less than 12 hours	20% of Total MRC
At least 12 hours but less than 16 hours	30% of Total MRC
At least 16 hours but less than 24 hours	40% of Total MRC
At least 24 hours or greater	50% of Total MRC

THE TOTAL CREDIT ALLOWANCES PER MONTH IS CAPPED AT 50% of THAT MONTH'S MRC FOR THE INTERRUPTED PORTIONS OF SERVICE. SEPARATELY OCCURRING SERVICE INTERRUPTIONS ARE NOT AGGREGATED FOR THE PURPOSES OF DETERMINING CREDIT ALLOWANCES.

On-Net Service Monitoring, Technical Support and Maintenance

1. **Network Monitoring.** Comcast monitors On-Net Services on a 24x7x365 basis.

2. **Technical Support.** Comcast provides a toll-free trouble reporting telephone number to the Enterprise Technical Support (ETS) center that operates on a 24x7x365 basis. Comcast provides technical support for service related inquiries. Technical support will not offer consulting or advice on issues relating to CPE or other equipment not provided by Comcast.

- a. Escalation. Reported troubles are escalated within the Comcast Business Services Network Operations Center (BNOC) to meet the response/restoration interval described below (Response and Restoration Standards). Service issues are escalated within the Comcast BNOC as follows: to a Supervisor at the end of the applicable time interval plus one (1) hour; to a Manager at the end of the applicable time interval plus two (2) hours, and to a Director at the end of the applicable time interval plus four (4) hours.
- b. Maintenance. Comcast’s standard maintenance window for On-Net Services is Sunday to Saturday from 12:00am to 6:00am local time. Scheduled maintenance for On-Net Services is performed during the maintenance window and will be coordinated between Comcast and the Customer. Comcast provides a minimum forty eight (48) hour notice for non-service impacting maintenance. Comcast provides a minimum of seven (7) days’ notice for On-Net Service impacting planned maintenance. Emergency maintenance is performed as needed without advance notice to Customer. Maintenance for Off-Net Services shall be performed in accordance with the applicable third party service provider rules. Therefore, Off-Net Service may be performed without advance notice to Customer.

3. Comcast provides certain Comcast Equipment for provisioning its services and the delivery of the UNI, which will reside on the Customer-side of the Demarcation Point. Comcast will retain ownership and management responsibility for this Comcast Equipment. This Comcast Equipment must only be used for delivering Services. Customers are required to shape their egress traffic to the Committed Information Rate (“CIR”) identified in the Sales Order. Comcast will be excused from paying SLA credits if the Service Interruption is the result of Customer’s failure to shape their traffic to the contracted CIR or utilizing Comcast Equipment for non-Comcast provided services.

Performance Standards

“Performance Standards” are set forth in Schedule A-1 to the Product-Specific Attachment for Ethernet Service.

Response and Restoration Standards

Comcast has the following response and restoration objectives:

CATEGORY	TIME INTERVAL	MEASUREMENT	REMEDIES
<i>Mean Time to Respond Telephonically to Call</i>	15 minutes	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore On-Net Comcast Equipment</i>	4 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore Off-Net Equipment</i>	6 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore On-Net Services</i>	6 hours	Averaged Over A Month	Escalation (see above)
<i>Mean Time to Restore Off-Net Services</i>	9 hours	Averaged Over A Month	Escalation (see above)

Customer shall bear any expense incurred, e.g., dispatch/labor costs, where a Service Interruption is found to be the fault of Customer, its end users, agents, representatives or third-party suppliers.

Emergency Blocking

The parties agree that if either party hereto, in its reasonable sole discretion, determines that an emergency action is necessary to protect its own network, the party may, after engaging in reasonable and good faith efforts to notify the other party of the need to block, block any transmission path over its network by the other party where transmissions do not meet material standard industry requirements. The parties further agree that none of their respective obligations to one another under the Agreement will be affected by any such blockage except that the party affected by such blockage will be relieved of all obligations to make payments for charges relating to the circuit(s) which is so blocked and that no party will have any obligation to the other party for any claim, judgment or liability resulting from such blockage.

Remedy Processes

All claims and rights arising under this Service Level Agreement must be exercised by Customer in writing within thirty (30) days of the event that gave rise to the claim or right. The Customer must submit the following information to the Customer's Comcast account representative with any and all claims for credit allowances: (a) Organization name; (b) Customer account number; and (c) basis of credit allowance claim (including date and time, if applicable). Comcast will acknowledge and review all claims promptly and will inform the Customer by electronic mail or other correspondence whether a credit allowance will be issued or the claim rejected, with the reasons specified for the rejection.

Exceptions to Credit Allowances

A Service Interruption shall not qualify for the remedies set forth herein if such Service Interruption is related to, associated with, or caused by: scheduled maintenance events; Customer actions or inactions; Customer-provided power or equipment; any third party not contracted through Comcast, including, without limitation, Customer's users, third-party network providers, any power, equipment or services provided by third parties; or an event of force majeure as defined in the Agreement.

Other Limitations

The remedies set forth in this Service Level Agreement shall be Customer's sole and exclusive remedies for any Service Interruption, outage, unavailability, delay, or other degradation, or any Comcast failure to meet the service objectives.

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ETHERNET TRANSPORT SERVICES**

**Attachment A-1.1
PERFORMANCE OBJECTIVES
COMCAST ETHERNET TRANSPORT SERVICES**

Ethernet Transport Version 1.5

Comcast Ethernet Transport Services are available both within and between major metropolitan areas throughout the United States. The performance objectives associated with traffic flows between any two customer sites are dependent upon the locations of respective A and Z sites.

Access Types

- 1. On-Net Access.** If On-Net A and Z sites reside within the same Market, Performance Tier 1 objectives will apply. If the sites are in different markets, another Performance Tier will apply. Applicable Performance Tier will appear on/with respective Comcast Sales Order Form.
- 2. Off-Net Access.** In addition to On-Net Access, Comcast enables Off-Net Access to Ethernet Transport Services via multiple third party providers. The Performance Tier for Off-Net Access is based upon the location of the Off-Net site, the location of the Network to Network Interface (NNI) between Comcast and the third party provider and the performance commitment from the third party provider. Comcast will specify applicable Performance Tier on the Comcast Sales Order Form for applicable Off-Net site. Standard Off-Net Access will have an assigned home market and will include the same performance metrics associated with On-Net connectivity within the respective market and between markets. Extended Off-Net Access provides customer with network connectivity, but at a higher performance Tier. Applicable Performance Tier will appear on/with respective Comcast Sales Order Form.

Performance Tiers

1. Performance Measurement

Comcast collects continuous in-band performance measurements for its Ethernet Transport Services. All latency, Jitter and Packet Loss Performance Metrics are based upon sample one-way measurements taken during a calendar month.

2. Performance Tier 1 (PT1) Objectives – Within Market

Performance Metric	Class of Service (CoS)		
	Basic	Priority	Premium
Latency (Network Delay)	45ms	23ms	12ms
Jitter (Network Delay Variation)	20ms	10ms	2ms
Packet Loss	<1%	<0.01%	<0.001%

3. Performance Tier 2 (PT2) Objectives

Performance Metric	Class of Service (CoS)		
	Basic	Priority	Premium
Latency (Network Delay)	80ms	45ms	23ms
Jitter (Network Delay Variation)	25ms	15ms	5ms
Packet Loss	<1%	<.02%	<.01%

4. Performance Tier 3 (PT3) Objectives

Performance Metric	Class of Service (CoS)		
	Basic	Priority	Premium
Latency (Network Delay)	100ms	80ms	45ms
Jitter (Network Delay Variation)	30ms	20ms	10ms
Packet Loss	<1%	<.04%	<.02%

5. Performance Tier 4 (PT4) Objectives

Performance Metric	Class of Service (CoS)		
	Basic	Priority	Premium
Latency (Network Delay)	120ms	100ms	80ms
Jitter (Network Delay Variation)	35ms	25ms	15ms
Packet Loss	<1%	<.05%	<.04%