

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
ACTIVECORESM - ROUTER SERVICE**

ATTACHMENT IDENTIFIER: ActiveCoreSM - Router Service, Version 1.1

The following additional terms and conditions are applicable to Sales Orders for Comcast's ActiveCoreSM Router 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 a Service.

“**Service(s)**” means ActiveCoreSM Router Service.

ARTICLE 1. SERVICES

This attachment shall apply to Comcast's ActiveCoreSM Router Service which is delivered via Comcast's ActiveCoreSM platform. A further description of the Service is set forth in Schedule A-1 hereto which incorporated herein by reference.

ARTICLE 2. PROVIDER

The Services shall be provided by Comcast Business Communications, LLC or its applicable subsidiaries or Affiliates (“Comcast”).

ARTICLE 3. CUSTOM INSTALLATION FEES

Once Comcast accepts a Sales Order for Services, 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 Sales Order.

ARTICLE 4. PROVISIONING INTERVAL

Following the Customer's 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 about the Estimated Availability Date; provided, however, that Comcast's failure to provision Services by said date shall not constitute a breach of the Agreement.

ARTICLE 5. SERVICE COMMENCEMENT DATE

A. Comcast shall inform Customer when a Service is available and performing in accordance with the “Technical Specifications” set forth in Schedule A-1 (“Availability Notification”).

- B. 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 Technical Specifications; or (C) the date on which Customer first uses the Service. In the event that a Service Term has not been expressly set forth in a Sales Order, the Service Term for such Sales Order shall be twelve (12) months.
- C. Customer acknowledges and agrees that charges may begin to accrue with respect to Comcast provided Underlay Connectivity Service (as defined below) and the Service at different times. For the avoidance of doubt, charges will begin to accrue with respect to Underlay Connectivity Services provided by Comcast in accordance with the PSA applicable thereto.

ARTICLE 6. SERVICE REQUIREMENTS

In order to provide the Service at a Service Location, the Service Location must have connectivity to the Internet or a private Ethernet network (“Underlay Connectivity Service”). The Underlay Connectivity Service must be ordered from Comcast and may be pre-existing or ordered in conjunction with the Service. Notwithstanding the foregoing, if the Service configuration requires multiple Underlay Connectivity Services:

- A. one underlay must be an Underlay Connectivity Service provided by Comcast; and,
- B. the other Underlay Connectivity Service(s) may be provided:
 - (i) by Comcast; or,
 - (ii) by the Customer as long as the Customer provided Underlay Connectivity Service(s) meets the technical specifications provided by Comcast. Comcast reserves the right to refuse to use an Underlay Connectivity Service with the Service that does not meet the Comcast technical specifications.

ARTICLE 6. TERMINATION CHARGES;

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.

6.2 Termination Charges for Services.

(A) Subject to Sections 6.2(C) and 6.2(D), in the event that a 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 Service plus twenty percent (20%).

(B) Subject to Sections 6.2(C) and 6.2(D), in the event that a 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 shall not apply to Service terminated by Customer as a result of Comcast's material and uncured breach in accordance with the General Terms and Conditions.

(D) Customer acknowledges and agrees that termination of the Comcast provided Underlay Connectivity Service shall constitute a termination of the Service and Customer shall pay Termination Charges with respect to the Service as provided herein; provided, that, if Customer terminated such Underlay Connectivity Service as a result of Comcast's material and uncured breach in accordance with the General Terms and Conditions applicable thereto, then Customer will not be obligated to pay Termination Charges with respect to the Service.

6.3 Portability. Customer may terminate an existing Service (an "Existing Service") and turn up a replacement Service (i.e., activate Service at a different Service Location) (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, but in no event less than twelve (12) months; (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 Sales 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.

ARTICLE 7. TECHNICAL SPECIFICATIONS AND PERFORMANCE STANDARDS

The technical specifications and performance standards applicable to the Service are set forth in Schedule A-1.

**COMCAST ENTERPRISE SERVICES
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SCHEDULE A-1

**ROUTER
SERVICE DESCRIPTIONS & TECHNICAL SPECIFICATIONS**

Comcast's Router Services ("Router" or "Router Service") will be provided in accordance with the service descriptions and technical specifications set forth below. **Comcast Managed Service must be ordered in conjunction with the Router Service.**

Router

The Router sits between the customer Local Area Network ("LAN") and the Wide Area Network ("WAN"). The Router solution can support connectivity speeds from 10 Mbps to 10 Gbps. The Router can support a single connectivity solution or a dual-homed solution for greater redundancy. The Router has a Layer 3/4 stateful firewall. The stateful firewall performs inspection and keeps track of each connection in the state table.

1. Technical Specifications

The Router Service is a service delivered via one of two platforms, both of which deliver a router services at the applicable Service Location: (1) one platform leverages network function virtualization to create a flexible, reliable and easy to manage router service and (2) one platform utilizes a service specific piece of equipment designed and programed to deliver router services.

- 1.1** Router Service includes either Universal Customer Premise Equipment or service specific equipment that is installed by Comcast at the Customer location. The equipment is owned by Comcast and leased to the Customer.
- 1.2** Router Service supports several routing protocols including BGP, Static, VRF and IPv4.
- 1.3** Router Service supports a stateful firewall and access control lists.
- 1.4** Router Service supports dynamic NAT with PAT, 1:1 NAT and persistent NAT.
- 1.5** Router Service supports DSCP-based prioritization and egress traffic shaping and policing for QOS.

2. Security Monitoring and Mitigation.

For the Router Service, Comcast monitors the equipment. **COMCAST DOES NOT PROVIDE MONITORING OF SECURITY EVENTS, ANY SECURITY EVENT MITIGATION OR ADVICE REGARDING SECURITY ISSUES OR THREATS.** Upon request by Customer, Comcast will modify the configuration of the Router Service in accordance with specifications provided by Customer to attempt to mitigate security events and security threats identified by Customer. Comcast's sole obligation is to implement the configuration settings requested by Customer. This Service is provided on a commercially reasonable efforts basis only and Comcast makes no guarantees with respect to the detection or blocking of viruses/worm/malware or any other types of attacks, and is not responsible for any such malicious data that may be transmitted over the provided network.

3. Technical Support and Maintenance

Comcast provides Service Level Objectives for the Service, including mean time to respond, and mean time to restore.

3.1. Mean Time to Respond

Mean Time to Respond is the average time required for Customer Enterprise Technical Support ("ETS") to begin troubleshooting a reported fault. The Mean Time to Respond objective is fifteen (15) minutes upon receipt of a fault notification or from the time a trouble ticket is opened with ETS.

3.2. Mean Time to Replace

Mean Time to Replace is the average time required to ship replacement equipment to the applicable Service Location. The Mean Time to Replace objective is as stated below for electronic equipment failure from the time a trouble ticket is opened with ETS.

Mean Time to Replace Equipment	
On-Net Services	Same day replacement
Off-Net Services	Next day replacement

“On-Net Services” means geographical locations where Comcast currently provides Services through its Comcast network.

“Off-Net Services” 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.

3.3. Technical Support

Comcast provides a toll-free trouble reporting telephone number to the 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 Customer-Premises Equipment (“CPE”) or other equipment not provided by Comcast.

- **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.
- **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, maintenance for Off-Net Service may be performed without advance notice to Customer.
- 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.

3.4. Response and Restoration Standards. Comcast has the following response and restoration objectives. The objectives below do not include the time needed to ship replacement equipment to the Customer’s location.

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.

4. Customer Responsibilities

Customers have the following responsibilities related to the installation, support, and maintenance of the Service:

- Provide an operating environment with temperatures not below fifty-five (55) or above eighty-five (85) degrees Fahrenheit. Humidity shall not exceed ninety (90) percent at eighty-five (85) degrees Fahrenheit.
- Provide secure space sufficient for access to one (1) standard, freestanding, equipment cabinet at each of the Customer facilities, no further than fifty feet from the Customer router or switch interface.
- Provide a pull rope in any existing duct that Comcast is to use and ensure existing duct is serviceable for Comcast use.
- Provide UPS AC power equipment, circuit sizing to be determined, if applicable.
- Emergency local generator backup service, if applicable.
- Provide access to the buildings and Demarcation Point at each Customer location to allow Comcast and its approved Contractors to install fiber for service installation. Provide access to each location for regular (8am - 5pm) and emergency (24 hour) service and maintenance of Comcast's equipment and facilities.
- Customer must provide a point of contact (POC) for installation, service activation and any maintenance activities.

5. 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.