

**COMCAST ENTERPRISE SERVICES
PRODUCT-SPECIFIC ATTACHMENT
THREAT MANAGEMENT SERVICES**

ATTACHMENT IDENTIFIER: Threat Management Services, Version 1.0

***THIS PSA ONLY APPLIES TO CUSTOMERS THAT PURCHASED THE THREAT MANAGEMENT SERVICE (INCLUDING THE EMERGENCY SERVICE OR SUBSCRIPTION SERVICE) PRIOR TO MARCH 5, 2019. IF A CUSTOMER PURCHASED COMCAST'S DDoS MITIGATION SERVICE ON OR AFTER MARCH 5, 2019, SUCH SERVICE IS SUBJECT TO THE ADDITIONAL TERMS AND CONDITIONS CONTAINED IN THE DDoS MITIGATION SERVICES – PRODUCT SPECIFIC ATTACHMENT, WHICH IS AVAILABLE ON THE WEBSITE.**

The following additional terms and conditions are applicable to Sales Orders for Comcast's Threat Management 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.

"HFC Network" means a hybrid fiber coax network

"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. Off-Net Services provisioned over a fiber optic network are referred to as **"Off-Net Fiber."**

"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 ("On-Net Fiber"), or via a HFC Network ("On-Net HFC"), as available through Comcast.

"Service(s)" means Threat Management Services.

ARTICLE 1. SERVICES

This attachment shall apply to Threat Management 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 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 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 Services 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 Technical Specifications (defined in Article 8); 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

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.

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 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 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.*, activate Service with termination points on Comcast's network that are different than those of the Existing Service) (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.

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, but in no event less than twelve (12) months; (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 Sales 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 third parties, 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 ("Technical Specifications"). The service level agreement applicable to the Service is set forth in a Schedule A-2 hereto and incorporated herein by reference.

SCHEDULE A-1
SERVICE DESCRIPTIONS AND TECHNICAL SPECIFICATIONS
COMCAST THREAT MANAGEMENT SERVICES

Comcast's Threat Management Service will be provided in accordance with the service descriptions and technical specifications set forth below:

Service Description

Threat Management Services ("TMS"). TMS is a managed security service that includes threat mitigation functionality to respond to certain types of distributed denial of service ("DDoS") attacks, including volumetric and flood attacks. TMS Service is available to Customer on either an emergency or subscription basis, both of which requires the purchase of EDI.

1. Emergency DDoS Mitigation Service ("Emergency Service"). Upon notification of suspicious traffic from Customer, Comcast will analyze traffic for anomaly detection and patterns to determine whether the business is under a DDoS attack. In performing this analysis Comcast will gather the appropriate network information (*e.g.*, routable IP addresses). When authorized by Customer via the execution of a Sales Order Form, which will include relevant fees. Comcast will redirect Customer's incoming Internet traffic to Comcast scrubbing centers where malicious traffic matching specific attack vectors will be filtered and legitimate traffic will be re-routed back to Customer's network.

2. Subscription DDoS Mitigation Service ("Subscription Service").

- A. The Subscription Service is a subscription-based Service offering that provides Customer with proactive network detection of DDoS attack traffic, alert notifications, and mitigation of attacks. Upon receipt of complete and accurate Customer contact and network information, Comcast will configure Customer's site(s), related IP addresses, and preconfigure countermeasure options. Customer will be notified to contact Comcast to perform an acceptance test. Customer has five (5) business days to contact Comcast to initiate the acceptance test to confirm that the Subscription Service is configured in accordance with Customer's preferences after activation and to verify the operation of Subscription Service.
- B. Comcast monitors the Customer network traffic for a specified set of IP addresses. When DDoS attack traffic is detected, an alert will be sent to both the Comcast operations center and the Customer via email and SMS. During the mitigation, Comcast will redirect Customer's incoming Internet traffic to Comcast scrubbing centers where malicious traffic matching specific attack vectors will be filtered and legitimate traffic will be re-routed back to Customer's network. After mitigation is terminated, all traffic is re-directed back to Customer's network via normal paths.
- C. Customer has a choice of On-Demand or Automatic mitigation options under the Subscription Service:
 - i. On-Demand. Customer must authorize Comcast by phone to initiate mitigation. Time to mitigate (the "Mitigation Interval") is the elapsed time from when the customer authorizes Comcast to enable mitigation until Comcast initiates mitigation of any attack traffic.
 - ii. Automatic. With the Automatic mitigation option, no Customer intervention is required. Comcast's scrubbing platform automatically initiates mitigation when an alert is generated due to the detection of attack traffic exceeding pre-set thresholds. The Mitigation Interval is the elapsed time from when the alert is generated to when Comcast initiates mitigation of any attack traffic.

- D. For those Customers receiving the Subscription Service that request additional Mitigation Incidents beyond the pre-determined limits ordered, incremental charges may apply. A “Mitigation Incident” is defined as one (1) twenty-four (24) hour window in which Comcast provides Customer with DDoS mitigation assistance as set forth above.

3. Disclaimer. Customer acknowledges the following additional terms for the DDoS Mitigation Services

- A. When Customer Internet traffic is traversing Comcast mitigation platform, Comcast makes no guarantees that only DDoS attack traffic will be prevented from reaching the Service Location nor that only legitimate traffic will be allowed to reach Customer.
- B. Comcast mitigation constitutes only one component of Customer’s overall security program and is not a comprehensive security solution; instead the DDoS Mitigation Service is intended to mitigate the impacts of certain types of DDoS attacks that are already underway
- C. Comcast makes no warranty, express or implied, that: (i) all DDoS attacks will be detected (for Customers receiving the Subscription Service); (ii) the mitigation efforts implemented by Comcast in response to such DDoS attacks will be successful in mitigating the overall impact of the incident; or (iii) or that Comcast detection, alerting, and/or mitigation will be uninterrupted or error-free. Customer also understands that there may be volumetric based attacks that exceed the amount of traffic volume that Comcast can successfully divert.
- D. Comcast’s ability to provide the DDoS Mitigation Services is contingent on Customer providing accurate and timely information to Comcast, including the provision of IP addresses.

**SCHEDULE A-2
SERVICE LEVEL AGREEMENT**

Comcast’s Threat Management Service is backed by the following Service Level Agreement (“SLA”):

1. Definitions

Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Threat Management 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 an interruption in transmission that renders the Service unusable due to a total loss of signal for the Service. The Service shall be “Available” in the absence of a Service Interruption.

2. DDoS Mitigation Services Service Level Agreement

A. Service Delivery Interval

For a customer adding Subscription Service to a new EDI service, the Subscription Service delivery interval will be the same as the EDI service delivery interval. For a customer with existing EDI service, Comcast will configure and activate Customer’s Subscription Service within ten (10) business days of submitting the order for Subscription Service.

Service Delivery Option	Service Delivery Interval	Remedy
Add Subscription Service to New EDI Service	At time of EDI service delivery	No Credit
	More than twenty-four (24) hours after EDI service delivery	50% of the DDoS Set-Up fee
Add Subscription Service to Existing EDI Service	Less than or equal to 10 business days	No Credit
	More than 10 business days	50% of the DDoS Set-Up fee

B. Mitigation Interval

Service	Mitigation Option	Mitigation Interval	Remedy
Emergency DDoS Mitigation	N/A	Less than or equal to 60 minutes	No Credit
		Greater than 60 minutes	One day of Daily Mitigation fee
Subscription DDoS Mitigation	On Demand* (whether Single Incident or Unlimited)	Less than or equal to 15 minutes from Customer authorization	No Credit
		Greater than 15 minutes from Customer authorization	1/30 of DDOS MRC
	Automatic**	Less than or equal to 5 minutes from discovery of attack traffic	No Credit
		Greater than 5 minutes from discovery of attack traffic	1/30 of DDOS MRC

*After receipt of Customer’s notification of suspicious Internet traffic and Comcast’s acceptance of the Sales Order or Customer request, Comcast shall commence On Demand Mitigation within the above stated Mitigation Intervals. **Upon identification of suspicious Internet traffic by Comcast threat detection platform, Comcast shall commence Automatic Mitigation within the above stated Mitigation Interval.

Comcast failure to meet the above Mitigation Intervals shall not constitute a Service Interruption.

Customer shall be entitled to up to one credit per day and, for any billing month, Credits may not exceed fifty percent (50%) of the total MRC of the Subscription Service.

In order to receive a Credit for Comcast's failure to meet the DDoS Mitigation SLA detailed above, Customer must open a trouble ticket with Comcast. Customer must request a credit within sixty (60) days following the initial attack event.

3. Exceptions and Terms Applicable to All SLAs

Emergency Blocking

The parties agree that if either Party hereto, in its reasonable and 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, Liability, outage, unavailability, delay, or other degradation, or any Comcast failure to meet the service objectives and Mitigation Intervals.