TREND MICRO™

Trend Micro™ TippingPoint™

Integrating SMS with Trend Micro Vision One™ Software Guide

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Integrating SMS with Trend Vision One™

This guide provides information on how to elevate your organization's threat awareness and automated responsiveness by using the Service Gateway to seamlessly integrate Trend Micro™ TippingPoint™ Security Management System (SMS) with Trend Vision One™.

The strategic benefits of this integration include the ability to forward detection events and intrusion prevention filter protection status to Trend Vision One for correlated detection and other advanced analytics. This enables higher quality alerts and more proactive incident discovery. In addition, threats detected by Trend Vision One are also actionable at the network layer, enabling you to block Suspicious Objects within minutes of detection and disrupt attacks at key locations in your network.

Beginning with version 1.0.0.10104 of Service Gateway, you can also:

- Enable Event and Filter Status Sharing to share IPS and TPS detection events and filter protection status with your SMS (version 5.5.2.1 or later) for correlation.
- Enable Device Inventory Sharing to share SMS (version 5.5.3.1 or later) device information with Trend Vision One.

Learn more about Trend Vision One.

Learn more about Service Gateway.

For information on additional SMS-related enhancements, be sure to refer to the most current *SMS Release Notes* for your TippingPoint operating system (TOS).

Integration prerequisites

Initiate Trend Vision One integration on your SMS web management console by configuring and enabling Service Gateway. A Service Gateway connection is required for sharing suspicious objects and network intrusion prevention data between the SMS and Trend Vision One, but it is *not* required for event and filter status information sharing.

After the gateway is deployed as a virtual appliance in your corporate network, it handles requests between Trend Vision One and SMS.

To get started with the integration you must have:

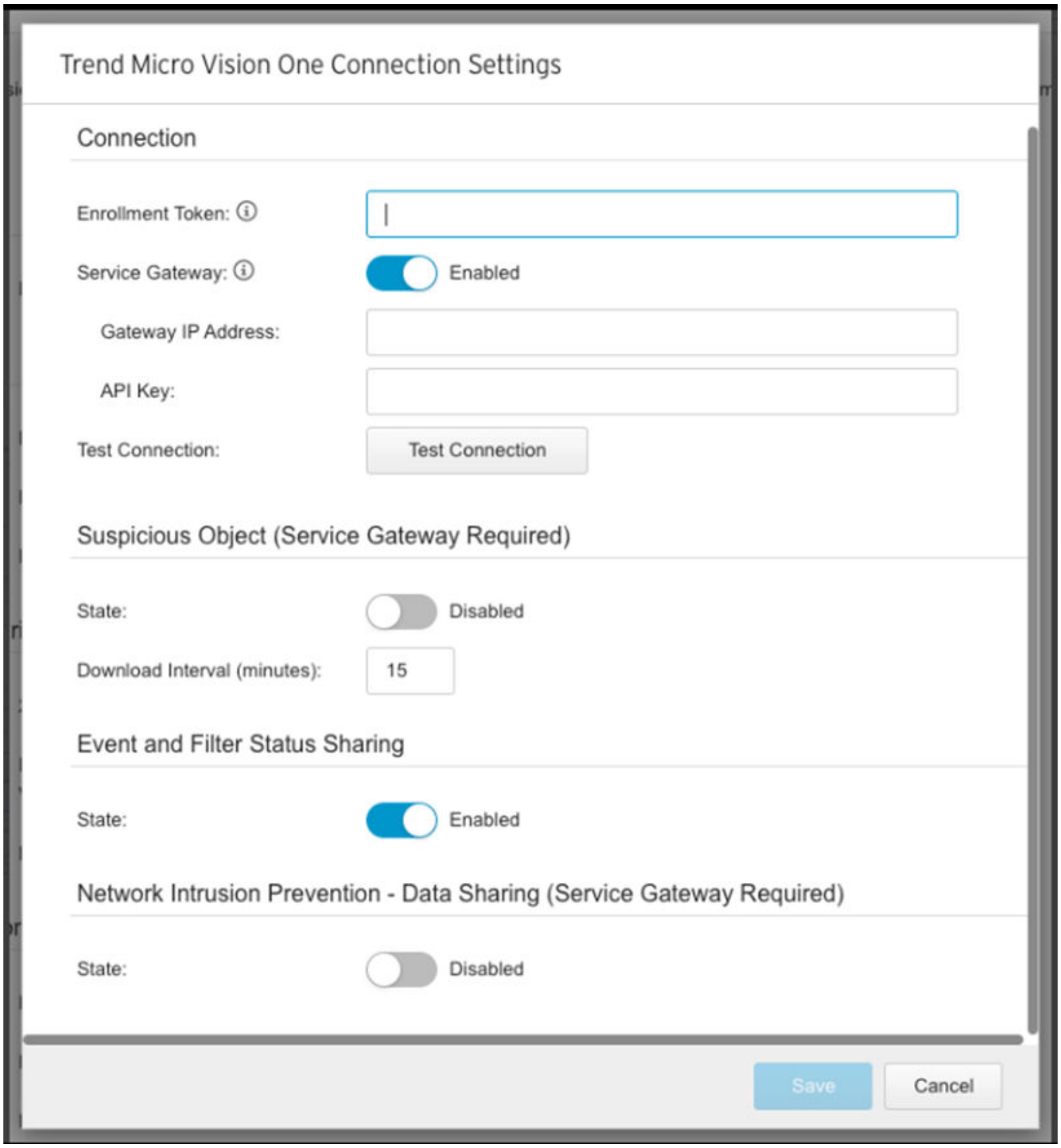
- An existing Trend Vision One account.
- A preconfigured Service Gateway deployed within your corporate network (for sharing suspicious objects and network intrusion prevention data).

To facilitate your TippingPoint and Trend Vision One integration, consider using the Essential Access apps (valid licenses and SMS activation code required). Learn more.

For more information on deploying Service Gateway, see Deploying a Service Gateway Virtual Appliance.

Configuring Trend Micro Connections Integration

To configure your integration, navigate to the **Administration** icon on your SMS web management console dashboard. Select **Trend Micro Connections** under the Administration tab. Add the required information from your Trend Vision One instance in the dialog box as shown below:



Trend Micro Vision One Connection Settings

Connection

Enrollment Token: ⓘ

Service Gateway: ⓘ Enabled

Gateway IP Address:

API Key:

Test Connection: Test Connection

Suspicious Object (Service Gateway Required)

State: Disabled

Download Interval (minutes): 15

Event and Filter Status Sharing

State: Enabled

Network Intrusion Prevention - Data Sharing (Service Gateway Required)

State: Disabled

Save Cancel

Connection

Configure your Enrollment Token, Gateway IP, and API key so that the SMS can connect to the Service Gateway and Trend Vision One. You can use the **Test Connection** button to preview the integration. Click **Save** to save your connection settings.

Note

A Service Gateway connection is required for sharing suspicious objects and network intrusion prevention data between the SMS and Trend Vision One. However, if event and filter status information sharing is all you want to configure, you can bypass the Service Gateway and its hardware infrastructure maintenance and dependencies by using a direct internet connection (if your environment is set up for it) or by enabling a proxy server for intranet connections through the SMS (**Admin > Server Properties > Network > TMC Proxy**).

Disconnecting the SMS from Trend Vision One can only be done from the Trend Vision One Product Connector (**Point Product Connections > Product Connector**). After they have been disconnected, your onboarding status changes to `False`, and the Sync Status for your connection settings will be displayed as `Failed`. Click **Test Connection** to confirm your connection status.

Learn more about configuring your Enrollment Token, Gateway IP, and API key.

Suspicious Object (Service Gateway Required)

Be sure to set the state to **Enabled** so that the SMS can retrieve Suspicious Objects from Trend Vision One. The Service Gateway syncs with SMS every 60 seconds by default. You can change this time interval setting.

Note

Resyncing might be required in some cases. For example, if you are switching to another Trend Vision One account to fetch a different Threat Intelligence feed, then you will need to disable the integration, change the gateway IP address or API key, and then enable it again. Any Suspicious Objects in the reputation database from a previous account are still retained.

Event and Filter Status Sharing

Turn on this setting to enable the SMS to share IPS and TPS detection events and intrusion prevention filter protection status with Trend Vision One. The event data gives you insight into the network events of your environment so you can determine whether suspicious activity or incidents are occurring. When an SMS-managed appliance detects an event, the event is forwarded to Trend Vision One where the logs can be searched and correlated.

Event and filter status information can be shared through one of the following:

- Service Gateway
- Direct internet connection
- Proxy server for intranet connections through the SMS

Learn more about Filter Status Sharing.

Learn more about Trend Vision One Zero Trust Risk Insights.

Network Intrusion Prevention Data Sharing (Service Gateway Required)

Turn on this setting to enable the SMS to share Network Intrusion Prevention information with Trend Vision One using the Enrollment Token and Service Gateway.

Learn more about Network Intrusion Prevention data sharing.

Consuming Suspicious Objects

This integration enables SMS to pull the latest suspicious IPv4/v6 addresses, DNS entries, and URLs into the reputation database. After the gateway is enabled, SMS can automatically consume the latest Suspicious

Objects discovered by Trend Vision One and other connected Trend products. SMS initially starts a full sync from Trend Vision One through Service Gateway. After this first sync is complete, all changes on Trend Vision One are delta-synced to SMS accordingly. The Service Gateway syncs with SMS every minute and with Trend Vision One every five minutes.

Note

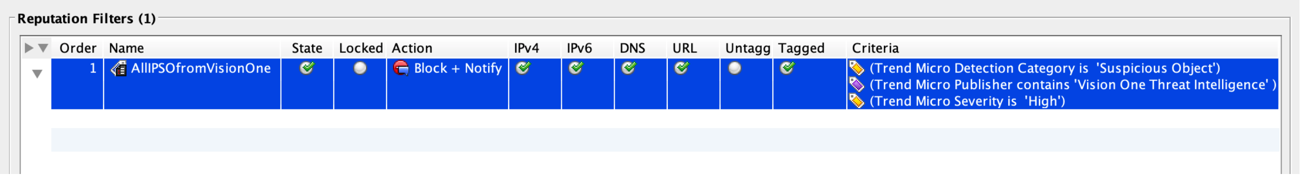
It might take a maximum of six minutes for objects to be synced to SMS from Trend Vision One. If any objects match the blocking criteria in the preconfigured reputation filter, device sync takes immediate effect.

Configuring reputation filters

To start blocking Suspicious Objects, you will need to set up criteria in the Reputation Filters table and distribute the filters to your TippingPoint security devices. Reputation filters are configured in the SMS Java client. To install the Java client, navigate to **Help > Install Client**. Learn more about the Java client and reputation filters in the *SMS User Guide*.

After the reputation filters are configured, be sure to distribute the profiles to your devices. All Suspicious Objects that match the criteria in the filter are automatically synced to your devices. For example, if you need to block all objects of high severity from Trend Vision One, the reputation filter criteria should be:

- Trend Micro Detection Category = Suspicious Object
- Trend Micro Publisher = Vision One Threat Intelligence
- Trend Micro Severity = High



Reputation Filters (1)

Order	Name	State	Locked	Action	IPv4	IPv6	DNS	URL	Untagg	Tagged	Criteria
1	AllIPSOfromVisionOne	✓	○	Block + Notify	✓	✓	✓	✓	○	✓	(Trend Micro Detection Category is 'Suspicious Object') (Trend Micro Publisher contains 'Vision One Threat Intelligence') (Trend Micro Severity is 'High')

These devices will keep blocking the objects unless you remove them or you change the blocking criteria.

Suspicious Objects default tag values

All Suspicious Objects from Trend Vision One are tagged with the default values indicated in the following table. Every object contains a *Reputation Entries TTL* tag value to track expired time. You can configure an object's expired time value on SMS or Trend Vision One.

SMS periodically cleans up these objects based on the expired time value. For more guidance on managing Suspicious Objects in Trend Vision One, see Suspicious Object lists.

Tag category name	Tag value	Description
Trend Micro Detection Category	Suspicious Object	All Trend Vision One objects are assigned these values
Trend Micro Publisher	Trend Micro Vision One Threat Intelligence	
Trend Micro Source	Trend Micro Vision One Threat Intelligence	
Trend Micro Suspicious Object Source	From Trend Micro Vision One	Possible value: UDSO, VASO

Tag category name	Tag value	Description
Reputation Entries TTL	From Trend Micro Vision One	The expiration of the object. If it never expires, a default TTL of 10 years TTL from sync time is assigned.
Trend Micro Scan Action	From Trend Micro Vision One	Suggested action: log, block.
Trend Micro Severity	From Trend Micro Vision One	Applicable values: High, Medium, Low

Event Sharing logs

With Event Sharing, you can enable the SMS to share detection events with Trend Vision One. The SMS will send these events to Trend Vision One every 60 seconds.

You can use Trend Vision One search functionality to view the shared events, which provide the following information:

Trend Vision One Key Name	Type	Description	Eample
rt	String	UNIX timestamps in milliseconds.	`1595326567163`
dvchost	String	Hostname of the managed appliance.	`device185`
ruleName	String	The name of the triggered IPS filter.	`HTTP: GNU Bash HTTP Header Remote Code Execution Vulnerability`
policyId	String	The policy UUID.	`00000002-0002-0002-0002-000000016798`
severity	int	The event severity: • `0`: Info • `1`: Low • `2`: Minor • `3`: Major • `4`: Critical	`4`
ruleUuid	String	UUID of the triggered IPS filter.	`00000001-0001-0001-0001-000000016798`
app	String	Protocol of the alert. For example: HTTP, IP, or TCP	`http`
src	String	Source IP address.	`192.0.2.0`
spt	String	Source port number	`36654`
dst	String	Destination IP address	`198.51.100.0`
dpt	String	Destination port number.	`80`
aggregatedCount	String	The aggregated number of messages received.	`1`
act	String	The action set.	`Block`

Trend Vision One Key Name	Type	Description	Eample
endpointIp	String	Client IP address. Supplied by **X-Forwarded-For & True-Client-IP** header.	`203.0.113.0`
overSsl	String	Whether or not the event is triggered by an SSL decryption stream. This string is displayed only when SSL inspection is supported.	`0`
mpname	String	Management product name.	`Trend TippingPoint Security Management System`
cves	List (String)	The corresponding CVEs of the filter for this event.	`CVE-2019-12264,CVE-2019-12259`
techniqueId	List (String)	The corresponding MITRE technique IDs of the filter for this event.	`T1021, T1078`
interestedIp	String	Interested IP of the attack of this event.	`203.0.113.0`
request	String	The URI of the http request.	`http://abc.com/solr/admin/config?action=UPLOAD`

Filter Status Sharing

With Filter Status Sharing, you can enable the SMS to share your intrusion prevention filter protection status with Trend Vision One. The SMS will send the data to Trend Vision One every hour, in addition to whenever inspection profile configurations are distributed and applied to devices successfully.

Note

Only the profiles that have been distributed to devices are considered when evaluating protection status.

You can use Trend Vision One Zero Trust Risk Insights functionality to view filter protection status with vulnerability detection results. The filter protection status data helps produce a risk score of your environment based on a Trend Vision One Risk Insights vulnerability assessment. Part of the assessment includes recommendations for virtual patching using TippingPoint intrusion prevention filters.

The following table defines each status:

Filter Status	Description
Blocked on all profiles	The filter is enabled, and the flow control action set is set to **Block** in all inspection profiles.
Not blocked on any profile	The filter is disabled, the filter is modified without distribution, or the flow control action set is not set to **Block** in all inspection profiles.
Blocked on some profiles	The filter status is protected in only some inspection profiles.

Learn more about viewing filter protection status with vulnerability detection results.

Network Intrusion Prevention Data Sharing

This enables SMS to share Network Intrusion Prevention information with Trend Vision One using the Enrollment Token and Service Gateway. This shared data includes device inventory information (name, IP address, model, software version, device health, digital vaccine version, management console) policy recommendation information (action sets, profiles, distributions), and policy enforcement information (policy configuration and deployment). You can monitor all this information using Trend Vision One without having to use separate consoles.

Note

You must enable the Service Gateway in order to use the Network Intrusion Prevention features.

Learn more about configuring a Service Gateway and generating an Enrollment Token in Integrating TippingPoint Network Sensors with Network Intrusion Prevention.

The SMS sends the data to Trend Vision One every 5 minutes.

By using Trend Vision One Network Intrusion Prevention functionality, you can view and monitor the status of your device.

Note

Only the devices that have been managed are considered when sharing Network Intrusion Prevention data.

Trend Vision One certificate expiration

When you integrate your SMS with Trend Vision One for the first time using the Enrollment Token, you are automatically provided with a Trend Vision One certificate that expires after one year.

Because configurations that involve event, filter, or data sharing require a current and valid certificate, you should, as a best practice, reintegrate your SMS to Trend Vision One with a new enrollment token before that certificate expires. Otherwise, when you attempt to configure **Network Intrusion Prevention Data Sharing** or **Event and Filter Status Sharing**, you will eventually encounter an error.