



TippingPoint™ Security Management System (SMS)

Web API Guide

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Publication: July 2021

SMS Web API

The SMS Web API provides access to the following set of SMS features:

- [Profile management](#)
- [Device administration](#)
- [SMS administration](#)
- [Virtual segment management](#)
- [Reputation database management](#)
- [Packet trace](#)
- [Responder](#)
- [Enterprise Vulnerability Remediation \(eVR\)](#)
- [STIX/TAXII](#)
- [Database access](#)
- [External database](#)
- [MIB files for the SMS](#)
- [Event Taxonomy](#)

API

TippingPoint provides two types of APIs for use with the SMS.

- The *SMS Web API Guide* describes HTTP APIs you can use to access multiple SMS features if you have HTTPS service to the SMS. To ensure that you have the latest versions of product documentation, visit the [Online Help Center](#).
- The **SMS REST API** describes RESTful APIs available to access SMS functionality. You can access the API from the SMS Web Management console. To do this, select **Help > Tools and Resources > SMS REST API Online Help**.

Authentication

Access to the SMS Web API requires that you authenticate by using HTTP authentication or the API key.

- **HTTP authentication:** `-u {username}:{password}`

```
curl -k -u {username}:{password} "https://<sms_server>/ipsProfileMgmt/exportProfile?profileName=MyProfile"
```

- **API key:** authentication mechanism that does not require a username and password. Use the API key as part of the header for HTTP requests. `X-SMS-API-KEY: <string>`

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/exportProfile?profileName=MyProfile"
```

**Note**

HTTP authentication is supported; however this authentication mechanism is deprecated and not recommended. We recommend that you authenticate by using the API key.

Keep in mind the following considerations:

- To view the API key on the SMS, go to **Admin > Authentication and Authorization > Users > Edit > Authentication > API Key**.
- To customize or replace the default SMS SSL X509 certificate on the SMS, go to **Admin > Certificate Management**.
- Only superusers should have web access for full authorization. On the SMS, go to **Admin > Authentication and Authorization > Roles**.
- HTTPS service is required to send API requests to the SMS. On the SMS, go to **Admin > Server Properties > Services**.

Errors

The SMS web API returns one of the following HTTP status codes if the request is unsuccessful.

CODE	DESCRIPTION
400	Bad request – malformed parameter or request.
401	Unauthorized – missing or incorrect credentials.
403	No web access capability. If you receive this message, check the user role capabilities, and enable the <i>Access SMS Web Services</i> capability. On the SMS, go to Admin > Authentication and Authorization > Roles > Edit > Capabilities > Admin > Access SMS Web Services .
404	Not found – invalid or nonexistent requested source.
412	Preconditioned fail – unexpected error. Check the SMS System Log. On the SMS, go to Admin > General > SMS System Log .
500	Internal server error – server-side exception. Check the SMS System Log. On the SMS, go to Admin > General > SMS System Log .

Profile management

Use this API to export, import, and distribute an SMS profile, and to create and update filters. In addition, you can retrieve profile distribution status and data about the Digital Vaccine (DV) on the SMS.

This API includes:

- [Export a profile](#)
- [Import a profile](#)
- [Distribute a profile](#)
- [Get distribution status](#)
- [Create a traffic management filter](#)

- [Delete a traffic management filter](#)
- [Get current filter settings](#)
- [Update filter settings](#)
- [Get Digital Vaccine information](#)

Export a profile

Get and export a profile package from the SMS.

- Profile packages typically remain unchanged.
- If you want to change the files within a profile package, update the md5sum in the `sms-security-manifest` file before you import the profile back to the SMS.

Definition

```
ipsProfileMgmt/exportProfile
```

Parameters

PARAMETER	TYPE	DESCRIPTION
exportMethod	string	Optional. Export destination. <ul style="list-style-type: none"> • SMS HTTPS server (default) • SMB • NFS
profileName	string	Required. Profile name to export.
profileVersion	string	Optional. Profile version to export. The latest version of the profile is used if this parameter is not specified.
remoteDirectory	string	Required. <ul style="list-style-type: none"> • SMB • NFS
remoteDirectory/SMB/userid	string	SMB user ID.
remoteDirectory/SMB/password	string	SMB password.
remoteDirectory/SMB/domain	string	SMB domain.
remoteFilename	string	Optional. Remote filename (default: "profile_name.pkg")
remoteServer	string	SMB or NFS server.

Example

```
curl -k --header "X-SMS-API-KEY: <string>"
"https://<sms_server>/ipsProfileMgmt/exportProfile?
exportMethod=SMB&profileName=Default&remoteDirectory=MyExportDirectory
&remoteServer=MyRemoteServer&userid=guest&password=guestpass&domain=Domain"
```

Import a profile

Post and import an exported profile package to the SMS. Profiles include shared settings such as action sets, notification contacts, and services.

- If the imported profile includes policies or category settings that use a particular action set, the action set is added to the SMS. The SMS does not overwrite an existing action set with the same name. Instead, the SMS renames the new action set by appending a number to the end of the file name, for example, “My Quarantine_2”.
- A notification contact that is used by an action set is also imported and renamed, if necessary.
- Existing port definitions for services on the SMS remain the same. If an imported profile includes a service with a port definition that differs from the existing service on the SMS, the service is added to the SMS service list. Review services any time a profile is imported from a different user or from a different environment.

Definition

```
ipsProfileMgmt/importProfile
```

Parameters

PARAMETER	TYPE	DESCRIPTION
importAction	string	<p>Required.</p> <ul style="list-style-type: none"> • add: Adds a completely new profile; must have an unused name or import fails. • combine_add: Adds new settings and merges non-conflicting changes into an existing profile. • combine_change: Adds new settings to and overwrites existing settings of an existing profile with settings of the new profile. • replace: Overwrites contents of SMS profile with those of the profile being imported; name and UUID remain the same; snapshot of replaced profile occurs and updated profile gets new version.
targetProfileName	string	<p>Name of the existing profile on the SMS. Required for all replace and combine actions.</p> <ul style="list-style-type: none"> • The profile must exist on the SMS. • If the specified profile does not exist or is not specified in the request, the operation fails and updates the audit log.
replacedProfileName	string	<p>Name of the imported profile that will have its contents applied to the existing profile on the SMS.</p> <ul style="list-style-type: none"> • Required for all replace and combine actions. • The profile must be specified in the request. • If the specified profile does not exist or is not specified in the request, the operation fails and updates the audit log.

Example

```
curl -k --header "X-SMS-API-KEY: <string>"-F "file=@</path/to/import.pkg>"
"https://<sms_server>/ipsProfileMgmt/importProfile?importAction=replace&
targetProfileName=<name>&replacedProfileName=<name>"
```

Distribute a profile

Get and initiate a profile distribution to a single segment target or to a segment group.

Definition

```
ipsProfileMgmt/distributeProfile
```

Parameters

PARAMETER	TYPE	DESCRIPTION
profile		<ul style="list-style-type: none"> id name version
priority	string	Distribution priority. <ul style="list-style-type: none"> high low
segmentGroup	string	Segment group.
virtualSegment	string	Virtual segment.
device/id	string	Internal ID assigned to the device.
device/shortID	integer	Internal number assigned to the device.
device/name	string	Device name.
device/ipAddress	string	Device IP address.
device/virtualSegment	string	Virtual segment on the device.

Example

```
curl -k --header "X-SMS-API-KEY: <string>"
"https://<sms_server>/ipsProfileMgmt/distributeProfile?"
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:simpleType name="uuid">
      <xs:restriction base="xs:string">
        <xs:pattern value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
      </xs:restriction>
    </xs:simpleType>

    <xs:complexType name="idname">
      <xs:choice>
        <xs:element name="id" type="uuid"/>
        <xs:element name="name" type="xs:string"/>
      </xs:choice>
    </xs:complexType>

    <xs:element name="distribution">
      <xs:complexType>
        <xs:sequence>
```

```

        <xs:element name="profile" minOccurs="1"maxOccurs="1">
          <xs:complexType>
            <xs:attribute name="id" type="uuid"/>
            <xs:attribute name="name" type="xs:string"/>
            <xs:attribute name="version" type="xs:string" use="required"/>
          </xs:complexType>
        </xs:element>

        <xs:element name="priority" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="high"/>
              <xs:enumeration value="low"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>

<xs:element name="segmentGroup" type="idname" minOccurs="0"
  maxOccurs="unbounded"/>
  <xs:element name="virtualSegment" minOccurs="0"
    maxOccurs="unbounded">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="id" type="uuid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="device" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
      <xs:sequence>
        <xs:choice>
          <xs:element name="id" type="uuid"/>
          <xs:element name="shortID" type="xs:positiveInteger"/>
          <xs:element name="name" type="xs:string"/>
          <xs:element name="ipAddress" type="xs:string"/>
        </xs:choice>
        <xs:element name="virtualSegment" type="idname"
          maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

Get distribution status

Get distribution status. Actual percent-complete progress and predicted end-time are not available.

Definition

```
ipsProfileMgmt/distributionStatus
```


Parameters

PARAMETER	TYPE	DESCRIPTION
distribution/id	string	Internal ID assigned to the distribution session.
device/id	string	Internal ID assigned to the device.
device/shortID	integer	Internal number assigned to the device.
device/name	string	Device name.
device/ipAddress	string	Device IP address.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/distributionStatus?"
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:simpleType name="uuid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="distributions">
<xs:complexType>
  <xs:sequence>
    <xs:element name="distribution" minOccurs="1"
      maxOccurs="unbounded">
<xs:complexType>
  <xs:sequence>
    <xs:element name="device" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
  <xs:choice>
    <xs:element name="name" type="xs:string"/>
    <xs:element name="id" type="uuid"/>
    <xs:element name="shortID" type="xs:positiveInteger"/>
    <xs:element name="ipAddress" type="xs:string"/>
  </xs:choice>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:attribute name="id" type="uuid"/>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

Create a traffic management filter

Create a traffic management filter.

Definition

```
ipsProfileMgmt/createTrafficMgmt
```

Parameters

PARAMETER	TYPE	DESCRIPTION
name	string	Required. Name of the traffic management filter; must be unique for each profile.
profile	string	Required. Name of the profile that contains the traffic management filter; the profile must already exist on the SMS.
srcAddr	IP address	Required. Source address for the filter. Valid values: any or IP address.
destAddr	IP address	Required. Destination address for the filter. Valid values: any or an IP address.
direction	string	Optional. Filter direction. If a parameter is not specified, the default value is used. <ul style="list-style-type: none"> AtoB (default) BtoA both
action	string	Optional. Filter action set. For rate limiting, use the rate-limit parameter. <ul style="list-style-type: none"> block (default) allow trust
rate-limit	string	Optional. Filter rate-limit action set; the action set must already be defined and set to rate-limit.
protocol	string	Optional. Filter protocol. <ul style="list-style-type: none"> ip (default) ipv6 tcp tcpv6 udp udpv6 icmp icmpv6
protocol/ip/ipFragments	boolean	Optional. Applies only to IP fragments; valid only when protocol is IP. <ul style="list-style-type: none"> false (default) true
protocol/icmp/icmptype	integer	Optional. ICMP type; valid only when protocol is ICMP. <ul style="list-style-type: none"> 0-255 (default is 0)
protocol/icmp/icmpcode	integer	Optional. ICMP code; valid only when protocol is ICMP. <ul style="list-style-type: none"> 0-255 (0 is default)

PARAMETER	TYPE	DESCRIPTION
protocol/tcp or udp/srcPort	integer	Optional. Source port; valid only when protocol is TCP or UDP. <ul style="list-style-type: none"> any 0-65535 (default is 0, and all ports)
protocol/tcp or udp/destPort	integer	Optional. Destination port; valid only when protocol is TCP or UDP. <ul style="list-style-type: none"> any 0-65535 (default is 0, and all ports)
position	integer	Optional. Filter precedence. <ul style="list-style-type: none"> 0-200 (default is 0, which uses the lowest unused value)
comment	string	Optional. Filter comments.
state	boolean	Optional. Filter state. <ul style="list-style-type: none"> enable (default) disable

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/createTrafficMgmt?name=<name>&profile=<p_name>&srcAddr=<ip_address>&destAddr=<ip_address>"
```

Delete a traffic management filter

Delete a traffic management filter.

Definition

```
ipsProfileMgmt/deleteTrafficMgmt
```

Parameters

PARAMETER	TYPE	DESCRIPTION
name	string	Required. Name of the traffic management filter to be deleted; must be unique for each profile.
profile	string	Required. Name of the profile that contains the traffic management filter; the profile must already exist on the SMS.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/deleteTrafficMgmt?name=<name_1>,<name_2>,<name_3>&profile=<p_name>"
```

Get current filter settings

Retrieve current filter settings for a profile. The Current Filter Settings Request is a POST request, and requires you to provide an XML file that identifies the profile and the filter(s). When the SMS receives a current filter settings service request, it:

- Validates the filter ID using the DV metadata.

- Finds the category the filter ID belongs to.
- Finds the setting of the category from the profile specified by the Profile ID and version.
- Sets the filter ID in the response XML.

The setting of a given filter might be changed by IPS administrators. The changes are defined in the POLICY response XML defined by the existing service interface.

Definition

```
ipsProfileMgmt/getFilters
```

Schema

The Remote Profile Management API uses the following XML schema for current filter settings status requests.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="uuid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="getFilters">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="profile">
          <xs:complexType>
            <xs:attribute name="id" type="uuid"/>
            <xs:attribute name="name" type="xs:string"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="filter" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="number" type="xs:positiveInteger" minOccurs="0"/>
              <xs:element name="name" type="xs:string" minOccurs="0"/>
              <xs:element name="signature-id" type="uuid" minOccurs="0"/>
              <xs:element name="policy-id" type="uuid" minOccurs="0"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Parameters

PARAMETER	TYPE	DESCRIPTION
profile	string	Empty element with these attributes: <ul style="list-style-type: none"> • id • name • version

PARAMETER	TYPE	DESCRIPTION
number	integer	Unique filter number.
name	string	Filter name.
signature-id	string	Internally assigned filter ID.
policy-id	string	Internally assigned policy ID.
version	integer	IPS TOS version for the filter.
locked	boolean	Indicates whether the filter is locked. You cannot remotely change a locked filter.
useParent	boolean	Indicates whether the action set on the filter is inherited from a parent profile.
comment	string	User comments.
description	string	Filter description.
severity	string	Filter severity. <ul style="list-style-type: none"> • Low • Minor • Major • Critical
enabled	boolean	<ul style="list-style-type: none"> • enabled • disabled
actionset	string	<ul style="list-style-type: none"> • refid • name
control	string	Controlling element of the filter <code>actionset</code> setting. <ul style="list-style-type: none"> • category: controlled by the category action set. • filter: controlled by the overriding default action set.
afc	boolean	Indicates whether the filter is managed by the Adaptive Filter Configuration (AFC). If a filter is managed by AFC, then the filter is automatically disabled when the IPS device is under heavy load and the given filter is triggered without an actual filter match.
policyGroup		Profile group identified by a <code>refid</code> , expressed in UUID format. This parameter is never used by a filter.
trigger		Trigger frequency detection parameter for the filter. Used only for scan/sweep filters. <ul style="list-style-type: none"> • threshold: specify the number of filter triggers. • timeout: specify the time period under which the number of triggers are being counted (in seconds).
capability		Element with a device name attribute having these child elements: <ul style="list-style-type: none"> • enabled • actionset: specifies the filter setting. • refid: maps to the action set ID for the capability.

Example

```
curl -X POST -k --header "X-SMS-API-KEY: <string>" --form name=@getFilters.xml
https://<sms_server>/ipsProfileMgmt/getFilters
```

The following sample shows how the getFilters XML file is composed according to the schema. You must provide values for the profile name and at least one of the filter search terms: number, signature ID, policy ID, or name.

```
<?xml version="1.0"?>
<getFilters>
  <profile name="Default"/>
  <filter>
    <number>3295</number>
  </filter>
  <filter>
    <signature-id>00000001-0001-0001-0001-000000000027</signature-id>
  </filter>
  <filter>
    <policy-id>00000002-0002-0002-0002-000000000051</policy-id>
  </filter>
  <filter>
    <name>0050: IP Options: Unknown Code</name>
  </filter>
</getFilters>
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="uuid">
    <xs:restriction base="xs:string">
      <xs:pattern
value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="filters">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="profile">
<xs:complexType>
  <xs:attribute name="name" type="xs:string"/>
  <xs:attribute name="id" type="xs:string"/>
  <xs:attribute name="version" type="xs:string"/>
</xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element name="filter" maxOccurs="unbounded">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="name" type="xs:string"/>
        <xs:element name="policy-id" type="uuid"/>
        <xs:element name="version" type="xs:string"/>
        <xs:element name="locked" type="xs:boolean"/>
        <xs:element name="useParent" type="xs:boolean"/>
        <xs:element name="comment" type="xs:string" minOccurs="0"/>
        <xs:element name="description" type="xs:string" minOccurs="0"/>
        <xs:element name="severity" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element name="severity" minOccurs="0"/>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Low"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```

```

        <xs:enumeration value="Minor"/>
        <xs:enumeration value="Major"/>
        <xs:enumeration value="Critical"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="enabled" type="xs:boolean"/>
<xs:element name="actionset" minOccurs="0">
    <xs:complexType>
        <xs:attribute name="refid" type="uuid"/>
        <xs:attribute name="name" type="xs:string"/>
    </xs:complexType>
</xs:element>
<xs:element name="control">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="Category"/>
            <xs:enumeration value="Filter"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="afc" type="xs:boolean"/>
<xs:element name="policyGroup" minOccurs="0">
    <xs:complexType>
        <xs:attribute name="refid" type="uuid"/>
    </xs:complexType>
</xs:element>
<xs:element name="trigger" minOccurs="0">
    <xs:complexType>
        <xs:attribute name="threshold">
            <xs:simpleType>
                <xs:restriction base="xs:integer">
                    <xs:minInclusive value="2"/>
                    <xs:maxInclusive value="10000"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="timeout">
            <xs:simpleType>
                <xs:restriction base="xs:long">
                    <xs:minInclusive value="0"/>
                    <xs:maxInclusive value="999999"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:attribute>
    </xs:complexType>
</xs:element>
<xs:element name="capability" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="enabled" type="xs:boolean"/>
            <xs:element name="actionset" minOccurs="0">
                <xs:complexType>
                    <xs:attribute name="refid" type="uuid"/>
                    <xs:attribute name="name" type="xs:string"/>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attribute name="name" type="xs:string"/>
    </xs:complexType>

```

```

    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

Update filter settings

Apply policy changes, such as profile and filter details, to a profile.

Definition

```
ipsProfileMgmt/setFilters
```

Parameters

PARAMETER	TYPE	DESCRIPTION
actionset	string	<ul style="list-style-type: none"> refid name
afc	boolean	Indicates whether the filter is managed by the IPS Adaptive Filter Configuration (AFC) If a filter is managed by AFC, then the filter will be automatically disabled when the device is under heavy load and the given filter is being triggered without actual filter match.
comment	string	Filter comments.
control	string	<ul style="list-style-type: none"> category: action set is controlled by the category action set. filter: action set is controlled by overriding the default action set.
enabled	boolean	<ul style="list-style-type: none"> enabled disabled
filter		Read-only parent element.
locked	boolean	Boolean variable indicating if the filter is locked. Locked filters cannot be remotely changed.
number	integer	Read-only internal assigned number for the filter.
name	string	Read-only filter name.
policy-id	string	Read-only internal ID assigned to the policy, expressed in UUID format.
profile	string	<ul style="list-style-type: none"> id name
signature-id	string	Read-only internal ID assigned to the filter, expressed in UUID format.

PARAMETER	TYPE	DESCRIPTION
trigger		Trigger frequency detection parameter for the filter. Used only for scan/sweep filters. <ul style="list-style-type: none"> threshold: specify the number of filter triggers. timeout: specify the time period under which the number of triggers are being counted (in seconds).
useParent	boolean	Indicates whether the action set setting for the filter is inherited from a parent profile.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/setFilters?"
```

Response

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="uuid">
    <xs:restriction base="xs:string">
<xs:pattern value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="setFilters">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="profile">
          <xs:complexType>
            <xs:attribute name="name" type="xs:string"/>
            <xs:attribute name="id" type="uuid"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="filter" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:choice>
                <xs:element name="policy-id" type="uuid"/>
                <xs:element name="signature-id" type="uuid"/>
                <xs:element name="number" type="xs:positiveInteger"/>
                <xs:element name="name" type="xs:string"/>
              </xs:choice>
              <xs:element name="locked" type="xs:boolean" minOccurs="0"/>
              <xs:element name="comment" type="xs:string" minOccurs="0"/>
              <xs:element name="control" minOccurs="0">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:enumeration value="Category"/>
                    <xs:enumeration value="Filter"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
              <xs:element name="actionset" minOccurs="0">
                <xs:complexType>
                  <xs:attribute name="refid" type="uuid"/>
                  <xs:attribute name="name" type="xs:string"/>
                </xs:complexType>
              </xs:element>
              <xs:element name="enabled" type="xs:boolean" minOccurs="0"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

```

<xs:element name="afc" type="xs:boolean" minOccurs="0"/>
<xs:element name="useParent" type="xs:boolean" minOccurs="0"/>
<xs:element name="trigger" minOccurs="0">
  <xs:complexType>
    <xs:attribute name="threshold">
      <xs:simpleType>
        <xs:restriction base="xs:integer">
          <xs:minInclusive value="2"/>
          <xs:maxInclusive value="10000"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="timeout">
      <xs:simpleType>
        <xs:restriction base="xs:long">
          <xs:minInclusive value="0"/>
          <xs:maxInclusive value="999999"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

Get Digital Vaccine information

Get the active Digital Vaccine and all Digital Vaccines on the SMS.

Definition

```
ipsProfileMgmt/dvInfo
```

Parameters

PARAMETER	TYPE	DESCRIPTION
request	string	Required. <ul style="list-style-type: none"> active all

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/ipsProfileMgmt/dvInfo?"
```

Device administration

Use this API to retrieve the Layer-2 Fallback status, and to place a device or device group into or out of Layer-2 Fallback.

This API includes:

- [Get fallback status](#)
- [Set fallback status](#)

Get fallback status

Retrieve the Layer-2 Fallback status for any current device or device group on the SMS.

Definition

```
deviceAdmin/getFallback
```

Parameters

PARAMETER	TYPE	DESCRIPTION
deviceName	string	Required. Device that will return the Layer-2 Fallback status.
deviceGroupName	string	Optional. Device group name that will return a comma-delimited list that shows the Layer-2 Fallback status for each device in the device group.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/deviceAdmin/getFallback?deviceGroupName=exampleDeviceGroupName"
```

Set fallback status

Place a device or device group into or out of Layer-2 Fallback.

Definition

```
deviceAdmin/setFallback
```

Parameters

PARAMETER	TYPE	DESCRIPTION
deviceName	string	Required. Name of the device that will be put into or out of Layer-2 Fallback status.
deviceGroupName	string	Optional. Comma-delimited list that contains the names of the devices within the device group that will be put into or out of Layer-2 Fallback.
L2FB	boolean	Required. Represents the Layer-2 Fallback status that the device or device group will be set to. <ul style="list-style-type: none"> • true • false

Example

```
curl -X POST -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/deviceAdmin/setFallback?deviceName=exampleTpsDevice&L2FB=true"
```

SMS administration

Use this API to create a backup the SMS database, and to retrieve SMS software version information.

This API includes:

- [Backup SMS database](#)
- [SMS software version](#)
- [Restore backup file](#)

Backup SMS database

Create a backup of the SMS database.

Definition

```
smsAdmin/backup
```

Parameters

PARAMETER	TYPE	DESCRIPTION
type	string	Destination type. <ul style="list-style-type: none"> • smb • nfs • scp • sftp • sms (Stored locally on the SMS. Only one backup allowed at a time.)
location	string	Destination path for backup file. Does not apply for type/sms.
username	string	Type-specific username. Required for type/smb, scp, or sftp.
password	string	Type-specific password. Required for type/smb, scp, or sftp .
domain	string	Type-specific domain; only used for destination type smb
tos	integer	Number of most recent TOS packages to include. Default is 0.
dv	integer	Number of most recent DV packages to include. Default is 1.
events	boolean	Whether to include events data. <ul style="list-style-type: none"> • true • false (default)
sslPrivateKeys	boolean	Whether to include SSL private key. <ul style="list-style-type: none"> • true • false (default)
notify	boolean	Whether to send email notifications when a backup has completed or failed. <ul style="list-style-type: none"> • true (default) • false

PARAMETER	TYPE	DESCRIPTION
timestamp	boolean	Whether to include the timestamp. <ul style="list-style-type: none"> true (default) false
encryptionPass	string	Encrypt backup using supplied password. Default is <code>null</code> , do not encrypt.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/smsAdmin/backup?
type=<smb>&location=//198.51.100.100/backups/sms.bak&username=<smb_user>&
password=<smb_pwd>&domain=<dom00>&tos=<1>&dv=<1>&events=<false>&notify=<false>&
timestampName=<true>"
```

SMS software version

Retrieve the SMS software version.

Definition

```
smsAdmin/info
```

Parameters

PARAMETER	TYPE	DESCRIPTION
request	string	Returns a version number.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/smsAdmin/info?request=version"
```

Restore backup file

Restore the backup file.

Definition

```
smsAdmin/restore
```

Parameters

PARAMETER	TYPE	DESCRIPTION
encryptionPassword	string	Password. Default is <code>null</code> .
restoreAdminSetting	boolean	Whether to restore the backup file. <ul style="list-style-type: none"> true false (default)

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/smsAdmin/restore?
encryptionPassword=<password>&restoreAdminSetting=true"
```

Virtual segment management

Use this API to create, update, and delete virtual segments. You can retrieve a list of virtual segments from a device.

- You can create a virtual segment that does not initially contain a physical segment.
- IPS devices with virtual segments that were configured locally on an IPS device and then added to the SMS are merged to the global virtual segment listing.
- A virtual segment must include at least one VLAN ID, source IP address, or destination IP address.
- Named resources must already exist on the SMS.

This API includes:

- [Create a virtual segment](#)
- [Update a virtual segment](#)
- [Delete a virtual segment](#)
- [Get list of virtual segments](#)

Response codes

The API captures a response code for virtual segment operations.

WEB API RESPONSE CODE	HTTP RESPONSE CODE	DESCRIPTION
0	200	Successful completion.
100	401	Authentication error.
200	400	Missing parameter error.
205	400	Operation error.
300	400	Input XML file error.
305	500	Output result file error.
310	400	Validation error.
320	400	Resource error.
500	500	Unexpected error.

Create a virtual segment

Add a virtual segment to the SMS database by using a file.

Definition

```
virtualSegment/create
```

Parameters

PARAMETER	TYPE	DESCRIPTION
file		Name of the file that contains the virtual segment XML.

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>" -F "file=@Name.xml"
"https://<sms_server>/virtualSegment/create?"
```

Update a virtual segment

Update a virtual segment on the SMS by using a file.

Definition

```
virtualSegment/update
```

Parameters

PARAMETER	TYPE	DESCRIPTION
file		Name of the file that contains the virtual segment XML.
vs	string	Virtual segment name.

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>" -F "file=@update.xml"
"https://<sms_server>/virtualSegment/update?&vs=<name>"
```

Delete a virtual segment

Delete a virtual segment.

Definition

```
virtualSegment/delete
```

Parameters

PARAMETER	TYPE	DESCRIPTION
vs		Name of the virtual segment to be deleted from the device and from the SMS.

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/virtalsegment/delete?
&vs="NamedResourceExample"
```

Get list of virtual segments

Retrieve a list of all of the virtual segments on the SMS in XML format. The request also returns the device NAME from the DEVICE table. See [DEVICE table](#).



Note

Use the following links to download the XML schema from the SMS: https://<sms_ip_or_hostname>/xsds/VirtualSegment.xsd or https://<sms_ip_or_hostname>/xsds/sms/response/xsd.

Definition

virtalsegment/get

Parameters

PARAMETER	TYPE	DESCRIPTION
name	string	Name of the virtual segment
description (optional)	string	Description for the virtual segment
virtualSegPosition		Indicates where in the list virtual segment is placed. You define the priority order for a virtual segment so that any overlapping definitions are resolved. Attempting to define an overlapping virtual segment on a device which does not allow it will produce an error.
virtualSegPosition/positionType	ORDINAL_POSITION, FIRST, LAST	Attribute; must be one of the three values
virtualSegPosition/ordinalPosition	positive integer	Must be provided when positionType is ORDINAL_POSITION
vlanIdList (optional)		Used to assign a list of VLAN IDs, and/or VLAN ranges or a named object referencing a named VLAN group
vlanIdList/vlanList		Used when assigning a list of VLAN IDs and/or VLAN ranges to the virtual segment
vlanIdList/vlanList/vlan		Single element for either a VLAN ID or VLAN range
vlanIdList/vlanList/vlan/vlanID	integer (1 to 4094)	VLAN ID
vlanIdList/vlanList/vlan/vlanID/vlanRange		Element containing a VLAN range
vlanIdList/vlanList/vlan/vlanID/vlanRange/start	integer (1 to 4094)	VLAN ID start of the range
vlanIdList/vlanList/vlan/vlanID/vlanRange/end	integer (1 to 4094)	VLAN ID end of the range
vlanIdList/namedVlanGroup	string	Named VLAN group identifier
sourceAddressList (optional)		Used to assign a list of IP addresses and/or IP address blocks or a named object referencing a named address group for the source address
sourceAddressList/cidrList		Used when providing a list of IP addresses and/or IP address blocks
sourceAddressList/cidrList/cidr		IP address or IP address block
sourceAddressList/namedAddrGroup	string	Named address group identifier
destinationAddressList (optional)		Used to assign a list of IP addresses, and/or IP address blocks or a named object referencing a named address group for the destination address
destinationAddressList/cidrList		Used when providing a list of IP addresses and/or IP address blocks
destinationAddressList/cidrList/cidr		IP address or IP address block
destinationAddressList/namedAddrGroup	string	Named address group identifier

PARAMETER	TYPE	DESCRIPTION
segmentGroup		Used when assigning a virtual segment to a segment group
segmentGroup/segmentGroupID		Identifier element for the segment group
segmentGroup/segmentGroupID/name	string	Name of the segment group
segmentGroup/segmentGroupID/id	string	ID of the segment group
physicalSegments (optional)		Used for assigning the virtual segment to one or more segments on one or more devices
physicalSegments/physicalSegment		Identifies the device and the segments to assign the virtual segment to
physicalSegments/physicalSegment/device		Identifies the device
physicalSegments/physicalSegment/device/uuid	string	UUID of the device
physicalSegments/physicalSegment/device/shortID	positive integer	Short ID of the device
physicalSegments/physicalSegment/device/name	string	Name of the device
physicalSegments/physicalSegment/device/ipAddress	string	IP Address of the device
physicalSegments/physicalSegment/segmentNameList		Element containing a list of the segment names
physicalSegments/physicalSegment/segmentNameList/segmentNames	string	Name of the segment

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/virtalsegment/get?"
```

Response

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema" >

<xs:simpleType name="uuid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="vs_name">
  <xs:restriction base="xs:string">
    <xs:maxLength value="127"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="vlan_Constraint">
  <xs:restriction base="xs:int">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="4095"/>
  </xs:restriction>
</xs:simpleType>
```

```
</xs:simpleType>

<xs:simpleType name="vs_description">
  <xs:restriction base="xs:string">
    <xs:maxLength value="250"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="positionType">
  <xs:restriction base="xs:string">
    <xs:annotation>
      <xs:documentation>Placement of the object in the list, first, last,
        or somewhere in between</xs:documentation>
    </xs:annotation>
    <xs:enumeration value="FIRST" />
    <xs:enumeration value="LAST" />
    <xs:enumeration value="ORDINAL_POSITION" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="messageList">
  <xs:sequence>
    <xs:element type="xs:string" name="message"
      minOccurs="1"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="deviceResult">
  <xs:all>
    <xs:element name="device" type="deviceType"/>
    <xs:element name="success" type="xs:boolean"/>
    <xs:element name="messages" type="messageList"
      minOccurs="0" maxOccurs="1"/>
  </xs:all>
</xs:complexType>

<xs:complexType name="deviceResultList">
  <xs:sequence>
    <xs:element type="deviceResult" name="deviceResult"
      minOccurs="1" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="rangeType">
  <xs:all>
    <xs:annotation>
      <xs:documentation>Range (i.e. 5 - 90)</xs:documentation>
    </xs:annotation>
    <xs:element type="vlan_Constraint" name="start"/>
    <xs:element type="vlan_Constraint" name="end"/>
  </xs:all>
</xs:complexType>

<xs:complexType name="idName">
  <xs:choice>
    <xs:element name="id" type="xs:string"/>
  </xs:choice>
</xs:complexType>
```

```

    <xs:element name="name" type="xs:string"/>
  </xs:choice>
</xs:complexType>

<xs:complexType name="cidrListType">
  <xs:sequence>
    <xs:element type="xs:string" name="cidr" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>1 or more repetitions:1
          or more repetitions:</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:element name="virtualSegment" type="virtualSegmentType"
  nillable="false" />
  <xs:element name="virtualSegmentList" type="virtualSegmentListType"
    nillable="false"/>

<xs:complexType name="segmentGroupType">
  <xs:sequence>
    <xs:element type="segmentGroupIDType" name="segmentGroupID"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="sourceAddressListType">
  <xs:choice>
    <xs:annotation>
      <xs:documentation>You have a CHOICE of the next
        2 items at this level</xs:documentation>
    </xs:annotation>
    <xs:element type="cidrListType" name="cidrList">
      </xs:element>
    <xs:element type="xs:string" name="namedAddrGroup">
      </xs:element>
    </xs:choice>
  </xs:complexType>

<xs:complexType name="vlanIdListType">
  <xs:sequence>
    <xs:annotation>
      <xs:documentation>VLAN can either be a 1 named resource
        or a list of integer/ranges</xs:documentation>
    </xs:annotation>
    <xs:choice>
      <xs:element type="vlanListType" name="vlanList" >
      </xs:element>
      <xs:element type="xs:string" name="namedVlanGroup">
      </xs:element>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="virtualSegmentType" >
  <xs:annotation>
    <xs:documentation>Definition of the virtual segment</xs:documentation>
  <xs:documentation>Any optional fields should be omitted,
    no empty elements</xs:documentation>
  <xs:documentation>Required: Name, segmentGroup, one,

```

```

                two or all of: [vlanIdList,sourceAddressList,
                destinationAddressList]</xs:documentation>
<xs:documentation>Optional: description, and physicalSegments.
                If physicalSegments is not provided no devices will be updated with the
                virtual segment</xs:documentation>
</xs:annotation>

<xs:all>
  <xs:element type="vs_name" name="name" />
<xs:element type="vs_description" name="description"
  nillable="false" minOccurs="0"/>
<xs:element type="virtualSegPositionType" name="virtualSegPosition"/>
<xs:element type="vlanIdListType" name="vlanIdList"
  nillable="false" minOccurs="0">
</xs:element>
<xs:element type="sourceAddressListType" name="sourceAddressList"
  nillable="false" minOccurs="0">
</xs:element>
<xs:element type="destinationAddressListType" name="destinationAddressList"
  nillable="false" minOccurs="0">
</xs:element>
<xs:element type="segmentGroupType" name="segmentGroup" />
<xs:element type="physicalSegmentsType" name="physicalSegments"
  nillable="false" minOccurs="0">
</xs:element>
</xs:all>
</xs:complexType>

<xs:complexType name="virtualSegmentListType">
  <xs:sequence>
    <xs:element type="virtualSegmentType" name="virtualSegment"
      nillable="false" minOccurs="1" maxOccurs="unbounded">
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="destinationAddressListType">
  <xs:choice>
    <xs:annotation>
      <xs:documentation>You have a CHOICE of the next
        2 items at this level</xs:documentation>
    </xs:annotation>
    <xs:element type="cidrListType" name="cidrList">
    </xs:element>
    <xs:element type="xs:string" name="namedAddrGroup">
    </xs:element>
  </xs:choice>
</xs:complexType>

<xs:complexType name="segmentGroupIDType">
  <xs:choice>
    <xs:annotation>
      <xs:documentation>You have a CHOICE of the next
        2 items at this level</xs:documentation>
    </xs:annotation>
    <xs:element type="xs:string" name="id">
    </xs:element>
    <xs:element type="xs:string" name="name"/>
  </xs:choice>
</xs:complexType>

```

```

<xs:complexType name="virtualSegPositionType">
  <xs:sequence>
    <xs:element nillable="true" type="xs:positiveInteger"
      minOccurs="0" name="ordinalPosition"/>
  </xs:sequence>
  <xs:attribute type="positionType" name="positionType"/>
</xs:complexType>

<xs:complexType name="deviceType">
  <xs:choice>
    <xs:annotation>
      <xs:documentation>You have a CHOICE of the next
        4 items at this level</xs:documentation>
    </xs:annotation>
    <xs:element type="uuid" name="id"/>
    <xs:element type="xs:positiveInteger" name="shortID"/>
    <xs:element type="xs:string" name="name"/>
    <xs:element type="xs:string" name="ipAddress"/>
  </xs:choice>
</xs:complexType>

<xs:complexType name="segmentNameListType">
  <xs:sequence>
    <xs:element type="xs:string" name="segmentNames"
      minOccurs="1" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>1 or more device segment names</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="vlanIdRangeType" >
  <xs:choice>
    <xs:element name="vlanID" type="vlan_Constraint"/>
    <xs:element name="vlanRange" type="rangeType"/>
  </xs:choice>
</xs:complexType>

<xs:complexType name="vlanListType" >
  <xs:sequence>
    <xs:element name="vlan" type="vlanIdRangeType"
      minOccurs="1" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="physicalSegmentsType">
  <xs:sequence>
    <xs:annotation>
      <xs:documentation>1 or more repetitions:</xs:documentation>
    </xs:annotation>
    <xs:element type="deviceSegmentsType" name="physicalSegment"
      maxOccurs="unbounded">
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="deviceSegmentsType">
  <xs:sequence>
    <xs:element type="deviceType" name="device"/>
    <xs:element type="segmentNameListType" name="segmentNameList"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

Reputation database management

Use this API to manage the SMS Reputation database. The following factors can affect performance levels:

- Method used for the Reputation entries submission – `import` or `add`. Use `import` with a large number of entries to reduce the number of distributions.
- Number of files to be imported into the Reputation database and the number of entries in each file.
- Number of entries on the SMS. A bigger reputation database takes longer to copy and distribute, resulting in less frequent distributions. For improved performance, limit the entries in the Reputation database to 6,000,000.
- Number and type of devices that the SMS manages. Newer models load the entries faster. If you have a large number of devices, increase the interval of entry submission so that the SMS is not overloaded with frequent distributions.



Note

Monitor the device distribution queue to identify the appropriate time interval for submitting the Reputation Management API requests in your environment.

This API includes:

- [Import a Reputation entry](#)
- [Add a Reputation entry](#)
- [Delete a Reputation entry](#)
- [Query the Reputation database](#)

Import a Reputation entry

Post and upload a file with one or more Reputation entries.

- **IP and DNS entries** — Import file must be in a comma-separated value (CSV) format with each line representing a Reputation entry without any blank lines. Each line is made up of one or more fields separated by commas. The SMS can upload one file at a time, and each file can contain multiple entries.
- **URL entries** — Import file must be delimited by a pipe (|) instead of a comma with each entry representing *URLs only* or *URLs associated with one or more tags*. Each line is made up of one or more fields separated by pipes. For more information about the URL import guidelines, see the *URL Reputation Filtering Deployment and Best Practices Guide*.
- Comment lines are discarded during import.

- Each request results in a distribution and a sync time to the managed devices.
- For improved performance, limit the number of entries in a file to between 1,000 and 10,000.

Definition

```
repEntries/import
```

Parameters

PARAMETER	TYPE	DESCRIPTION
type	string	Optional. Address type of the Reputation entry. Only one type is allowed within a file. <ul style="list-style-type: none"> • ipv4 (default) • ipv6 • dns • url
Address	string	Required. <ul style="list-style-type: none"> • The first field on each line must be the IPv4 address, IPv6 address, DNS name, or URL for that entry. The remaining fields on a line are optional. If present, remaining fields are processed as tag category/tag value pairs. • Only one type of address (IPv4, IPv6, DNS name, or URL) can be contained in a file. • A DNS entry matches any lookups that contain the specified string. For example, <code>foo.com</code> matches <code>foo.com</code>, <code>www.foo.com</code>, and <code>images.foo.com</code>. To specify an exact DNS entry match, enclose the DNS name in square brackets. For example, <code>[foo.com]</code>. • CIDR values are normalized. Any bits outside the portion of the address specified by the prefix length are changed to zero. For example, <code>192.168.66.127/24</code> is stored as <code>192.168.66.0/24</code>.

PARAMETER	TYPE	DESCRIPTION
Tag category/tag value pairs	string	<p>Optional. If the Reputation entry within the file does not have tags, the imported entry merges with the values of the existing entry. If the Reputation entry within the file does have tags, the imported entry merges and overwrites the values of the existing entry.</p> <ul style="list-style-type: none"> Any tag categories in the file must exist on the SMS prior to import. Tag category/value pairs do not have to be listed in the same order on each line. The entries in the file do not have to list all the tag categories or specify the ones shared with other entries in the file. Empty pairs of fields are ignored. If a tag category field is empty, an error occurs and the entry is not imported. If a tag value field is empty, the corresponding tag category is discarded and the next field of the entry is processed; the net result is equivalent to the tag category not appearing on that line at all. Except for yes/no tag categories, character case is significant in all tag category names and tag values. For yes/no tag categories, <i>yes</i>, <i>true</i>, <i>t</i>, and <i>y</i>, regardless of case, denote a yes (true) value. Other text is considered a no (false) value. For list categories, the list values must be separated by ~~~. A field can be enclosed in double-quotes; this is mandatory when a value contains a comma that should not be treated as a field separator. To represent a double-quote character within a quoted value, use two double-quotes.

Example

```
curl -v -k --header "X-SMS-API-KEY: <String>"
-F "file=@/path/to/file.csv" "https://<sms_server>/repEntries/import?&type=ipv4"
```

Note

When you request back-to-back imports with files that have 10 or less Reputation entries, the SMS groups those entries to use the `add` method instead to reduce the number of distributions.

Add a Reputation entry

Create a Reputation entry.

- Each request can result in a distribution and a sync time to the managed devices.
- For improved performance, send requests in bursts up to 1,000 entries in time intervals that allow distributions to complete in a timely manner.

Definition

```
repEntries/add
```

Parameters

Only one of the following parameters can be used in the request.

PARAMETER	TYPE	DESCRIPTION
ip	IP address	IPv4 or IPv6 address of the Reputation entry.
dns	string	DNS address of the Reputation entry.
url	url	Reputation URL entry.
TagData	string	Optional. One or more tag categories and their values. Must be UTF-8 encoded and separated by a comma (,). Reputation entries with a list tag category can include multiple values only when the Allow Multiple Values? check box is selected from the Edit Tag Category box on the SMS. The list values must be separated by ~~~. MalwareIpType,malwareSource~~~cncHost

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>"
"https://<sms_server>/repEntries/add?&ip=1.1.1.1&TagData=MalwareIpType,
infectedHost,CreateDate,%22Jan%2022,%202014%22"
```

Query the Reputation database

Search the Reputation database for one or more user Reputation entries.

- Specify up to 10,000 entries in a single request.
- The SMS returns all matching entries in the query in UTF-8 encoding.
- Returned entries are ordered from lowest to highest address, regardless of the order in which they are specified in the query.
- Each entry is terminated by a newline character.

Definition

```
repEntries/query
```

Parameters

Only one parameter can be used in a request.

PARAMETER	TYPE	DESCRIPTION
ip	IP address	IPv4 or IPv6 address of the Reputation entry.
dns	string	DNS address of the Reputation entry.
url	url	Reputation URL entry.

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/repEntries/
query?&ip=1.1.1.1&ip=1.1.1.2"
```

Response

```
1.1.1.1,AtaHost,myata.device.com,MalwareIpType,infectedHost
1.1.1.2,AtaHost,myata.device.com,ThreatScore,28,MalwareIpType,cncHost~~~infectedHost
```

Delete a Reputation entry

Get and delete a Reputation entry.

- Each request can result in a distribution and a sync time to the managed devices.
- For optimal performance, delete Reputation entries with a file.

Definition

```
repEntries/delete
```

Parameters

PARAMETER	TYPE	DESCRIPTION
ip	IP address	IPv4 or IPv6 address of the Reputation entry.
dns	string	DNS address of the Reputation entry.
url	url	Reputation URL entry.
criteria	integer	Required. <ul style="list-style-type: none"> • <code>all</code>: deletes all Reputation entries, including user-defined, RepDV, and the ThreatDV URL feed. • <code>user</code>: deletes all user-defined entries. • <code>repdv</code>: deletes all RepDV entries. • <code>entry</code>: deletes specified entries. • <code>threat-url</code>: deletes the ThreatDV URL package.
type		Import a file with Reputation entries to delete on this SMS. This is required to delete a large number of Reputation entries by using a file. Address type of the Reputation entry. Only one type is allowed within a file. <ul style="list-style-type: none"> • <code>ipv4</code> (default) • <code>ipv6</code> • <code>dns</code> • <code>url</code>

Example

```
curl -v -k --header "X-SMS-API-KEY: <string>"
"https://<sms_server>/repEntries/delete?&ip=1.1.1.1&ip=1.1.1.2&
dns=malware.source1.com&dns=malware.source2.com&criteria=entry"
```

Packet trace

The SMS Packet Trace feature compiles information about packets that have triggered a filter. Packet trace encapsulates the information according to requirements set for the filter in the SMS.

Packet trace options are configured for an action set, and an action set is specified for each filter. Filters are distributed to devices according to profiles. If a filter uses an action set for which packet trace logging is enabled, then you can view the compiled and stored packet trace information for events that triggered the filter.

The SMS saves packet trace information to a PCAP file. Two retrieval options are available for a packet trace:

- [Device-based packet trace](#)
- [Events-based packet trace](#)

Device-based packet trace

Device-based packet trace compiles PCAP information for a particular device from the SMS database. For more information, see [DEVICE table](#).

Definition

```
pcaps/getByDevice
```

Parameters

PARAMETER	TYPE	DESCRIPTION
device/id	string	Internal ID assigned to the device. This is the SHORT_ID for the device.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/pcaps/getByDevice?deviceId=<SHORT_ID>"
```

Events-based packet trace

To obtain all the PCAP information from the SMS for a group of events, you must know the event IDs. Event IDs are included in data sent to a remote syslog server.

Definition

```
pcaps/getByEventIds
```

Set up event-based packet trace

1. Set up a remote syslog server.
2. Add all the event IDs to a file as a comma separated list. New line breaks are allowed. The result outputs to STDOUT and can be redirected to a file with a '>' operator.

```
curl -k --header "X-SMS-API-KEY: <string>" -F "file=@<path/to/file.txt>" "https://<sms_server>/pcaps/getByEventIds?"
```

Responder

Responder is a policy-based service in SMS that reacts to inputs to perform a set of actions. Its reactions, and the set of actions it takes, are based on the Responder policies that have been configured.

By default, no policies can be externally triggered. To enable external triggering, configure the active response policy to allow an SNMP trap or web service to invoke the policy.

This API includes the following:

- [Quarantine](#)
- [Unquarantine](#)

Quarantine

Quarantine an IP address and create a response.

Definition

```
quarantine/quarantine
```

Parameters

PARAMETER	TYPE	DESCRIPTION
ip	IP address	IP address for the target host. Required to create or close a response.
id	integer	Response History ID that is displayed in the Response History table on the SMS. <ul style="list-style-type: none"> To close a response, either IP or ID must be specified.
policy	string	Specific Active Response Policy to implement. <ul style="list-style-type: none"> The policy name is case sensitive and must match an existing SMS Active Response policy name. The Allow an SNMP Trap or Web Service call to invoke this Policy initiation setting must be enabled for this policy. This argument is not necessary to close a response and, if provided, is ignored.
timeout	long	Optional argument to specify the duration of response. <ul style="list-style-type: none"> The specified value overrides the default already in the policy. If no parameter is specified, the timeout value from the policy is used. This argument is not necessary to close a response and, if provided, is ignored.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/quarantine/quarantine?ip=<target_ip>&policy=<policy_name>&timeout=<minutes_to_quarantine>"
```

Unquarantine

Unquarantine an IP address and close a response.

Definition

```
quarantine/unquarantine
```

Parameters

PARAMETER	TYPE	DESCRIPTION
ip	IP address	IP address for the target host. Required to create or close a response.
id	integer	Response History ID that is displayed in the Response History table on the SMS. <ul style="list-style-type: none"> To close a response, either IP or ID must be specified.

PARAMETER	TYPE	DESCRIPTION
policy	string	<p>Specific Active Response Policy to implement.</p> <ul style="list-style-type: none"> The policy name is case sensitive and must match an existing SMS Active Response policy name. The Allow an SNMP Trap or Web Service call to invoke this Policy initiation setting must be enabled for this policy. This argument is not necessary to close a response and, if provided, is ignored.
timeout	long	<p>Optional argument to specify the duration of response.</p> <ul style="list-style-type: none"> The specified value overrides the default already in the policy. If no parameter is specified, the timeout value from the policy is used. This argument is not necessary to close a response and, if provided, is ignored.

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/quarantine/unquarantine?ip=<target_ip>"
```

Enterprise Vulnerability Remediation (eVR)

Use this API to import vulnerability scan (eVR) files to the SMS. After you import a vulnerability scan, you review the following on the SMS:

- Vulnerabilities (listed by CVE) that have been discovered in your network.
- Which assets impacted by those vulnerabilities.
- Which DV filters can defend those assets from the discovered vulnerabilities.

This API includes:

- [Import a vulnerability scan](#)
- [Convert a vulnerability scan](#)

eVR specifications

The minimum data required for a native SMS-standard vulnerability scan is:

- **IP Address** - (host IP addresses) The maximum number of host IP address and vulnerability combinations that you can import on the SMS is 10 million. When the SMS reaches the maximum limit, it displays an error message, and you must delete vulnerability scans on the SMS before you can import a new scan using this API.
- **CVE IDs** - CVE must be in the format CVE-YYYY-NNNN where YYYY is a 4 digit year and NNNN is a sequence number.
- **Severity** - Vulnerabilities are assigned a severity levels to define the urgency associated with remediating each vulnerability. Rankings are based on a variety of industry standards including CVE.

CSV file specifications

Vulnerability scans must be in a native, comma-separated value (CSV) format before they can be used on the SMS. If you use a supported vulnerability management product, custom converters are available for Qualys®, Nexpose®, and Nessus®.

- The first line in the CSV file must be the column headers for each of the columns.
- Each row after the header must contain the same number of columns that are in the header.
- Each column must be delimited with a comma.
- The value within each column must be wrapped in double quotes; however, embedded double quotes are not permitted ("This is "invalid" data").
- Each row in a CSV file must be less than 65536 bytes.

Import a vulnerability scan

Import a vulnerability scan (eVR) file that is in native SMS-standard format.

Definition

```
vulnscanner/import
```

Parameters

PARAMETER	TYPE	DESCRIPTION
vendor	string	Required. Name of the vulnerability management vendor. <ul style="list-style-type: none"> • Native SMS-standard format: Use SMS-Standard. • For other values, see Convert a vulnerability scan.
product	string	Required. Product name associated with the vulnerability scanner, and can be any value.
version	string	Required. Version of the vulnerability scanning file format, and can be any value.
runtime	date	Required. <ul style="list-style-type: none"> • Scan start time and end time, and can be a single date or a date range. • When entering a date range, you must use a forward slash (/) to separate the scan start and scan end dates. • Date format must be yyyy-MM-dd'T'HH:mm:ss.SSS'Z

Examples

```
curl -k --header "X-SMS-API-KEY: <string>" -F "file=@ScanSample.csv"
"https://<sms_server>/vulnscanner/import?&vendor=Example&product=VulnScanner&version=2.2
&runtime=2018-12-15T13:01:15.255Z/"
```

Convert a vulnerability scan

Convert a vulnerability scan (eVR) file that is not in native SMS-standard format to import to the SMS.

Definition

```
vulnscanner/convert
```

Parameters

PARAMETER	TYPE	DESCRIPTION
vendor	string	Required. Name of the vulnerability management vendor. <ul style="list-style-type: none"> • Nexpose • Qualys-CSV • Nessus
product	string	Required. Product name associated with the vulnerability scanner, and can be any value.
version	string	Required. Version of the vulnerability scanning file format, and can be any value.
runtime	date	Required. <ul style="list-style-type: none"> • Scan start time and end time, and can be a single date or a date range. • When entering a date range, you must use a forward slash (/) to separate the scan start and scan end dates. • The date format must be yyyy-MM-dd'T'HH:mm:ss.SSS'Z

Examples

Import a vulnerability scan (eVR) in the Nexpose format:

```
curl -v -k --header "X-SMS-API-KEY: <string>" -F "file=@vulnScanSampleNexpose.xml"
"https://<sms_server>/vulnscanner/convert?&vendor=Nexpose&product=Nexpose&version=1.0
&runtime=2014-01-20T13:01:15.255Z/2014-01-20T13:22:14.333Z"
```

Import a vulnerability scan (eVR) in the Qualys-CSV format:

```
curl -v -k --header "X-SMS-API-KEY: <string>" -F "file=@vulnScanSampleQualys.csv"
"https://<sms_server>/vulnscanner/convert?&vendor=Qualys-CSV&product=Qualys&version=1.0
&runtime=2014-01-20T13:01:15.255Z/2014-01-20T13:22:14.333Z"
```

Import a vulnerability scan (eVR) in the Nessus format:

```
curl -v -k --header "X-SMS-API-KEY: <string>" -F "file=@vulnScanSampleNessus.nessus"
"https://<sms_server>/vulnscanner/convert?&vendor=Nessus&product=Nessus-Sample&version=1.0
&runtime=2014-01-20T13:01:15.255Z/2014-01-20T13:22:14.333Z"
```

STIX/TAXII

The SMS incorporates external threat intelligence. Structured Threat Information eXpression (STIX™) 2.0 data provides open source cyber threat intelligence, which can be transferred to the SMS using a Trusted Automated eXchange of Indicator Information (TAXII) service. The advanced threat intelligence provided in tag categories keeps the Reputation Database updated, and enables robust reputation filters for enhanced protection of your system. You can use STIX/TAXII for IPS enforcement of IP, DNS, and URL Indicators of Compromise (IoCs).

Reputation database

The SMS automatically includes the following predefined tag categories for STIX/TAXII data. Use the following table to map STIX objects with user-provided Reputation tag categories.

REPUTATION TAG	STIX OBJECT PROPERTY	DESCRIPTION
STIX - ID	id	Identifies the STIX Indicator object, which is the only STIX 2.0 Domain Object the SMS imports. Indicators contain a pattern that can be used to detect suspicious or malicious cyber activity. For example, an indicator may be used to represent a set of malicious IP addresses, domains, or URLs. To be imported to the Reputation database, an indicator STIX object must: <ul style="list-style-type: none"> • Only contain a single comparison expression. • Object path pattern must be domain, URL, IPv4, or IPv6.
STIX - Severity	labels	Identifies the severity for the discovered threat, based on rules that match severity. This is not a standard property for STIX 2.0.
STIX - Confidence	labels	Identifies the confidence for the discovered threat, based on rules that match a confidence score. This is not a standard property for STIX 2.0.
Reputation Entries TTL	valid_until	Identifies the date SMS will remove the entry.
-	revoked	The SMS deletes the entry when it is tagged true.

Versions

This feature implements STIX/TAXII 2.

Import rules

- To automatically send STIX data to the SMS, enable the TAXII service. The TAXII service is enabled by default. For more information, see "Enable SMS Services" in the *SMS User Guide*.
- Only STIX Indicator objects can be added to the Reputation database.
- STIX Indicator objects must only contain a single comparison expression.
- You cannot export STIX objects from the SMS.

Data format

Bundle

Collection of STIX objects grouped together in a single container.

Properties

PARAMETER	DESCRIPTION
type	Bundle type.

PARAMETER	DESCRIPTION
id	Bundle identifier.
spec_version	STIX specification version used to represent the content in the bundle.
objects	(Optional). Specifies a set of one or more STIX Objects.

Example

```
{
  "id": "bundle--eac5fcf6-e5a4-40d9-8721-f0e79efdadf6",
  "objects": [
    {
      "created": "2016-02-26T18:24:18.396Z",
      "id": "indicator--a6f43caf-be25-4335-bfa1-badfc13b0bae",
      "labels": [
        "malicious-activity",
        "sms-severity-high",
        "sms-confidence-75"
      ],
      "modified": "2016-02-26T18:24:18.396Z",
      "pattern": "[domain-name:value = 'example.com']",
      "type": "indicator",
      "valid_from": "2016-02-26T18:24:18.396Z"
    }
  ],
  "spec_version": "2.0",
  "type": "bundle"
}
```

Indicators

Pattern that can be used to detect suspicious or malicious cyber activity.

Properties

PARAMETER	TYPE	DESCRIPTION
type		Value, must be indicator.
id		Object ID.
created	timestamp	The time that the first version of the object was created.
modified	timestamp	The time that this particular version was created.
labels	One or multiple open vocabulary	Values that comes from the indicator-label-ov vocabulary.
pattern	valid pattern string	Detection pattern.
valid_from	timestamp	The time when the indicator will not be valid.
valid_until	timestamp	The time when the indicator will not be valid.
revoked	boolean	Indicates whether the object has been revoked.

Example

```
{
  "id": "bundle--eac5fcf6-e5a4-40d9-8721-f0e79efdadf6",
```

```
"objects":[
  {
    "created":"2016-02-26T18:24:18.396Z",
    "id":"indicator--a6f43caf-be25-4335-bfa1-badfc13b0bae",
    "labels":[
      "malicious-activity",
      "sms-severity-high",
      "sms-confidence-75"
    ],
    "modified":"2016-02-26T18:24:18.396Z",
    "pattern":"[domain-name:value = 'example.com']",
    "type":"indicator",
    "valid_from":"2016-02-26T18:24:18.396Z"
  }
],
"spec_version":"2.0",
"type":"bundle"
}
```

Pattern

STIX Patterns are composed of multiple building blocks, ranging from simple key-value comparisons to more complex, context-sensitive expressions. The SMS only supports a pattern with a single comparison expression.

```
"pattern":"[domain-name:value='example.com']"
```

Comparison expression

Object path

SMS only receives the following paths:

- domain-name:value
- ipv6-addr:value
- ipv4-addr:value
- url:value

Comparison operator

The SMS Web API only supports the "=" comparison operator.

Labels

Labels come from the indicator-label-ov vocabulary.

Indicator label vocabulary

If an object contains a "benign" label, it is not added into the Reputation database.

- anomalous-activity
- anonymization
- benign

- compromised
- malicious-activity
- attribution

STIX - Severity

The SMS tags the severity level as either low, medium, or high.

LABEL	SEVERITY
-severity-high	-
a-b-severity-low	low
severity-low	low
severity-LOW	low
severity-low-aaa	-
threatstream-severity-high	high
threatstream-severity-highba	-
threatstream-severity-very-high	high

STIX - Confidence

The following table includes examples of how the SMS tags STIX - Confidence labels.

LABEL	CONFIDENCE
confidence-99	99
aaa-confidence-99	99
confidence-50	50
confidence-101	-
-confidence-99	-

Server discovery

Provides general information about the TAXII server.

- Common entry point for TAXII clients into the data and services provided by a TAXII server.
- API Roots are logical groupings of TAXII channels, collections, and related functionality.

Definition

```
taxii
```

Parameters

PARAMETER	DESCRIPTION
title	Server name.

PARAMETER	DESCRIPTION
api_roots	List of URLs that identify known API roots.
default	Default API root.

Example

```
{
  "title": "TippingPoint Security Management System",
  "default": "https://1.2.3.4/taxii/feeds/",
  "api_roots": [
    "https://1.2.3.4/taxii/feeds/"
  ]
}
```

Get API root information

Provides general information about the API Root.

Definition

taxii/feeds

Parameters

PARAMETER	DESCRIPTION
title	Name.
versions	List of compatible TAXII versions.
max_content_length	Maximum size of the request body in octets (8-bit bytes).

Example

```
{
  "title": "TAXII feeds",
  "versions": ["taxii-2.0"],
  "max_content_length": 2097152
}
```

Get collections

Provides information about the collections.

Request

taxii/feeds/collections

Parameters

PARAMETER	DESCRIPTION
id	Collection ID.
title	Name used to identify the collection.

PARAMETER	DESCRIPTION
can_read	Indicates if you can read (GET) objects from the collection.
can_write	Indicates if you can write (POST) objects to the collection.

Response

```
{
  "collections": [
    {
      "id": "00000000-0000-0000-0000-000000000001",
      "title": "User Reputation Entries",
      "can_read": true,
      "can_write": false
    }
  ]
}
```

Get objects

Retrieves objects from a collection.

Request

```
taxii/feeds/collections
```

Add objects

Adds objects to a collection.

Definition

```
taxii/feeds/collections/
```

Example

```
{
  "id": "bundle--eac5fcf6-e5a4-40d9-8721-f0e79efdadf6",
  "objects": [
    {
      "created": "2016-02-26T18:24:18.396Z",
      "id": "indicator--a6f43caf-be25-4335-bfa1-badfc13b0bae",
      "labels": [
        "malicious-activity",
        "sms-severity-high",
        "sms-confidence-75"
      ],
      "modified": "2016-02-26T18:24:18.396Z",
      "pattern": "[domain-name:value = 'example.com']",
      "type": "indicator",
      "valid_from": "2016-02-26T18:24:18.396Z"
    }
  ],
  "spec_version": "2.0",
  "type": "bundle"
}
```

Get status

Provides information about the status of a previous request. In TAXII 2.0, the only request that can be monitored is one to add objects to a Collection.

Definition

```
taxii/feeds/status
```

Parameters

PARAMETER	DESCRIPTION
id	ID
status	Status of a previous POST request; the value of this property is <code>complete</code> or <code>pending</code> .
total_count	Total number of objects in the request.
success_count	Number of objects that were successfully created.
successes	List of object IDs that were successfully processed.
failure_count	Number of objects that failed to be created.
failures	List of status failures including object ID and message.
pending_count	Number of objects that have not been processed.
pendings	List of objects that have not been processed.

Response

```
{
  "id": "2d086da7-4bdc-4f91-900e-d77486753710",
  "status": "pending",
  "total_count": 3,
  "success_count": 1,
  "successes": [
    "indicator--c410e480-e42b-47d1-9476-85307c12bcbf"
  ],
  "failure_count": 1,
  "failures": [
    {
      "id": "malware--664fa29d-bf65-4f28-a667-bdb76f29ec98",
      "message": "Malware is an unsupported type"
    }
  ],
  "pending_count": 1,
  "pendings": [
    "indicator--252c7c11-daf2-42bd-843b-be65edca9f61"
  ]
}
```

Get an object

Gets an object from a Collection according to the ID.

Definition

```
taxii/feeds/collections/objects/<object-id>/
```

Get object manifests

Retrieves a manifest about objects from a collection.

Definition

```
taxii/feeds/collections/manifest
```

Database access

Used to access the SMS Web API.

Definition

```
dbAccess/tptDBServlet
```

Parameters

PARAMETER	DESCRIPTION
method	<p>Required.</p> <ul style="list-style-type: none"> • DataDictionary • GetData - Events data • GetNewestRecord • GetOldestRecord • Schema • Status • Version

Usage sequence

Follow this sequence when accessing the SMS database:

1. Use the [schema method](#) to retrieve the schema definition. Apply the returned data to user-defined database.
2. Use the [DataDictionary method](#) to retrieve supporting data. Apply the returned data to database, and repeat as needed to create profiles or activate Digital Vaccines.

When the SMS receives a valid request using this method, it can return an XML response. Specific response content depends on data you specify in the request.

3. Use the [GetData method](#) to receive event data that you can then import into the database.

DataDictionary

Obtain SMS data dictionary information related to profiles, devices, segments, and virtual segments.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary
```

Parameters

PARAMETER	DESCRIPTION
format	Optional. <ul style="list-style-type: none"> sql (default) csv xml
mode	Optional. <ul style="list-style-type: none"> insert (default) – use with sql format. update replace – use with MySQL.
table	Optional. If you do not specify a table, all tables are included. <ul style="list-style-type: none"> ACTIONSET table ALERT_TYPE table DEVICE table POLICY table PRODUCT_CATEGORY table PROFILE table PROFILE_INSTALL_INVENTORY table QUARANTINE_NETWORK_DEVICES table SEGMENT table SEGMENT_GROUP table SIGNATURE table TAXONOMY_MAJOR table TAXONOMY_MINOR table TAXONOMY_PLATFORM table TAXONOMY_PROTOCOL table THRESHOLD_UNITS table VIRTUAL_SEGMENT table

ACTIONSET table

Record defined by the user and applied to a POLICY. Used to determine the action that is taken when a POLICY is triggered.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=ACTIONSET
```


Parameters

COLUMN	DESCRIPTION
ID	Unique identifier. use this column to join from other tables.
NAME	Descriptive name.
RATE	Rate limit value applied to the action set. Has a value specifying the RATE to be applied for rate limit action sets.
FLOW_CONTROL	Traffic flow indicator. <ul style="list-style-type: none"> • ALLOW • DENY • TRUST • RATE

ALERT_TYPE table

Descriptive name for alerts.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=ALERT_TYPE
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
NAME	Descriptive name.

DEVICE table

Record for each of the IPS devices managed on the SMS.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=DEVICE
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
SHORT_ID	Lookup identifier.
NAME	Descriptive name of the device provided during device installation.
MODEL	String that represents the model of the device.
SERIAL_NUMBER	Alpha-numeric TippingPoint serial number.
IP_ADDRESS	IP address for the management port for the device.
LOCATION	Descriptive location text entered during device installation.

COLUMN	DESCRIPTION
DV_VERSION	Current version of the Digital Vaccine installed on the device; if the device is a Core Controller, this field is null.
OS_VERSION	Current version of the TOS installed on the device.
DEVICE_GROUP	Name of the group to which the device belongs.
MANAGED	Boolean to show if the device is currently managed on the SMS.

POLICY table

Holds objects that determine what actions to take for a SIGNATURE.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=POLICY
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
PROFILE_ID	Identifier of the PROFILE object that contained this POLICY.
SIGNATURE_ID	Identifier of the SIGNATURE this object is defining in a POLICY.
ACTIONSET_ID	Identifier for the ACTIONSET applied to this object.
DISPLAYNAME	Descriptive name for the POLICY, which is usually the same as the SIGNATURE referenced by SIGNATURE_ID; however, THRESHOLDS allow you to name the POLICY.
MULTIPART_GROUP_ID	Identifier for SMS policy group.

PRODUCT_CATEGORY table

Maintains the names used for SIGNATURE categories. The SIGNATURE table contains a number that is joined to the ID field in this PRODUCT_CATEGORY table.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=PRODUCT_CATEGORY
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier. Use this column to join from other tables.
NAME	Descriptive name.

PROFILE table

Container for your POLICY entries. Name the PROFILE, make changes to the POLICY objects, and then distribute to a segment group.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=PROFILE
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
VERSION	Current profile version.
NAME	Profile name.
DESCRIPTION	Profile description.

PROFILE_INSTALL_INVENTORY table

Container for items associated with PROFILE entries.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=PROFILE_INSTALL_INVENTORY
```

Parameters

COLUMN	DESCRIPTION
VIRTUAL_SEGMENT_ID	Lookup identifier for the virtual segment where the profile was distributed.
PROFILE_ID	Lookup identifier for the profile details.
PROFILE_VERSION	Profile version.
DISTRIBUTE_ID	Lookup identifier for the distribution details.
COMPLETE_TIME	Time the profile distribution completed. <ul style="list-style-type: none"> Value is in milliseconds since Jan. 1, 1970 00:00:00 GMT

QUARANTINE_NETWORK_DEVICES table

Contains the defined quarantine switches.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=QUARANTINE_NETWORK_DEVICES
```

Parameters

COLUMN	DESCRIPTION
NAME	Descriptive name for the network device switch type.
IP_ADDRESS	IP address for the switch.

SEGMENT table

Represents a physical segment on a device.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=SEGMENT
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
DEVICE_ID	Device to which this segment belongs.
NAME	Descriptive name.
IP_ADDRESS	OBSOLETE IP Address that may be given to the segment.
SLOT_INDEX	Internal chassis slot number. <ul style="list-style-type: none"> Physical segments: 3 Virtual segments: 0
SEGMENT_INDEX	<ul style="list-style-type: none"> Physical segments: Physical segment number Virtual segments: 0

SEGMENT_GROUP table

Represents a group of physical segments.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=SEGMENT_GROUP
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
NAME	Descriptive name for the segment group when it was created.

SIGNATURE table

Details the currently active Digital Vaccine package on the SMS for use with devices. The table grows as new Digital Vaccines are released, downloaded, and activated.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=SIGNATURE
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
NUMBER	Integer used to reference the signature, which is assigned by TippingPoint.

COLUMN	DESCRIPTION
SEVERITY_ID	Identifier for the SEVERITY of the SIGNATURE. <ul style="list-style-type: none"> Join to SEVERITY.ID to obtain a descriptive name of the SEVERITY.
NAME	Signature name.
CLASS	Descriptive classification for the SIGNATURE.
PRODUCT_CATEGORY_ID	Category ID from PRODUCT_CATEGORY table, provided by TippingPoint.
PROTOCOL	Signature protocol.
TAXONOMY_ID	Taxonomy classification.
CVE_ID	Comma-separated list of CVE IDs that can be used to link to the CVE database.
BUGTRAQ_ID	Comma-separated list of BugTraq IDs that can be used to link to the BugTraq database.
DESCRIPTION	Signature description, which is provided by TippingPoint.
MESSAGE	Message that can be filled in with ALERTS. <ul style="list-style-type: none"> MESSAGE_PARS values to create a dynamic message for this SIGNATURE.

TAXONOMY_MAJOR table

Details the TippingPoint signature taxonomy major classifications.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=TAXONOMY_MAJOR
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
NAME	Short name.
DESCRIPTION	Description.

TAXONOMY_MINOR table

Details the TippingPoint signature taxonomy minor classifications.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=TAXONOMY_MINOR
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
MAJOR_ID	Identifier of the major classification ID to which this minor classification relates.
DESCRIPTION	Description.

TAXONOMY_PLATFORM table

Details the TippingPoint signature platforms.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=TAXONOMY_PLATFORM
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
DESCRIPTION	Description.

TAXONOMY_PROTOCOL table

Details the TippingPoint signature protocols.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=TAXONOMY_PROTOCOL
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
DESCRIPTION	Description.

THRESHOLD_UNITS table

Defines the units in which thresholds can be specified.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=THRESHOLD_UNITS
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
NAME	Descriptive name for the unit entry.

VIRTUAL_SEGMENT table

Represents a virtual physical segment on a device.

Definition

```
dbAccess/tptDBServlet?method=DataDictionary&table=VIRTUAL_SEGMENT
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier.
DEVICE_ID	Device to which this segment belongs.
SEGMENT_GROUP_ID	Segment group to which this segment belongs.
NAME	Descriptive name.

GetData - Events data

Request data from specified tables.

Definition

```
dbAccess/tptDBServlet?method=GetData
```

Parameters

PARAMETER	VALUE	DESCRIPTION
begin_time	integer	Required. <ul style="list-style-type: none"> Expressed as the number of milliseconds since 01-01-1970 00:00:00 GMT
end_time	integer	Required. <ul style="list-style-type: none"> Expressed as the number of milliseconds since 01-01-1970 00:00:00 GMT
format		Optional. <ul style="list-style-type: none"> csv (default) sql xml
limit	integer	Optional. <ul style="list-style-type: none"> Maximum number of values returned. All values are returned by default.
table		Required. Events data: <ul style="list-style-type: none"> ALERTS table DDOS_STATS table FIREWALL_BLOCK_ALERTS table FIREWALL_TRAFFIC_ALERTS table PORT_TRAFFIC_STATS table QUARANTINE_HOSTS table RATELIMIT_STATS table

ALERTS table

Contains information pertaining to the event that caused a POLICY to trigger.

- When an ACTIONSET is applied to a POLICY and it has a **Management Console** notification selected, it is put in the ALERTS table.
- The primary key, a unique key, is a four column index, DEVICE_ID, ALERT_TYPE_ID, SEQUENCE_NUM, and END_TIME.
- The table is expected to have a continuous growth pattern and contain millions of records.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=ALERTS
```

Parameters

COLUMN	DESCRIPTION
SEQUENCE_NUM	Reference to a particular logs row entry counter. <ul style="list-style-type: none"> • The ALERT_TYPE column defines the log being referenced. • This sequence number is not reliable as far as counting on it behaving as an ever increasing sequential number. It can be reset on the device and repeated for new events.
DEVICE_ID	Identifier for the DEVICE entry that sent the notification. <ul style="list-style-type: none"> • Second part of the ALERTS table unique index. • A foreign key to the DEVICE table was left off for the purpose of performance and due to the possibility that a DEVICE entry may not have been yet stored in the DEVICE table for this external database.
ALERT_TYPE_ID	The TYPE column is the third and final primary key constraint on the ALERTS table. <ul style="list-style-type: none"> • This field can be joined to the ALERT_TYPE table for a descriptive name for this column.
POLICY_ID	Identifier used to map this alert to a POLICY table entry.
SIGNATURE_ID	Identifier used to map this alert to a SIGNATURE table entry.
BEGIN_TIME	Time at which the event was first started or previously logged. <ul style="list-style-type: none"> • Value is in milliseconds elapsed since Jan. 1, 1970 00:00:00 GMT • When using notification aggregation, this value and the END_TIME typically are off by the number of minutes specified in the aggregation setting. • The difference between BEGIN_TIME and END_TIME may be larger if a lot of time passes between attack events. • When aggregation is turned off, the BEGIN_TIME usually is the same as the END_TIME.
END_TIME	Time at which the notification was logged and sent to the Management Console. <ul style="list-style-type: none"> • Value is in milliseconds elapsed since Jan. 1, 1970 00:00:00 GMT • Subtract BEGIN_TIME from END_TIME to determine the length of an attack, if aggregation is being used. • Difference between BEGIN_TIME and END_TIME might be unexpectedly large if a lot of time passes between attack events.
HIT_COUNT	Counter displaying the number of times the event triggered before the notification was sent to the Management Console.
SRC_IP_ADDR	Source IP of the packet causing the notification. Numeric value of an IPv4 address, or the low-order 64 bits for an IPv6 address if SRC_IP_ADDR_HIGH is not NULL.

COLUMN	DESCRIPTION
SRC_IP_ADDR_HIGH	Source IP of the packet causing the notification. Numeric value of high-order 64 bits for an IPv6 address.
SRC_PORT	Source port of the packet causing the notification.
DST_IP_ADDR	Destination IP of the packet causing the notification. Numeric value of an IPv4 address, or the low-order 64 bits for an IPv6 address if DST_IP_ADDR_HIGH is not NULL.
DST_IP_ADDR_HIGH	Destination IP of the packet causing the notification. Numeric value of high-order 64 bits for an IPv6 address.
DST_PORT	Destination port of the packet causing the notification.
VIRTUAL_SEGMENT_INDEX	Identifier for which device segment this alert was seen on.
PHYSICAL_PORT_IN	Device port on which the event was detected.
VLAN_TAG	VLAN identifier contained in the event.
SEVERITY	SEVERITY of the event. Usually corresponds to the SIGNATURE.SEVERITY column, joined by the SIGNATURE_ID column. A foreign key constraint to the SEVERITY table has been applied here.
PACKET_TRACE	Indicates if a packet trace is available on the device.
DEVICE_TRACE_BUCKET	Part of the device packet trace identifier.
DEVICE_TRACE_BEGIN_SEQ	Part of the device packet trace identifier.
DEVICE_TRACE_END_SEQ	Part of the device packet trace identifier.
MESSAGE_PARMS	<p>Variable list of message parameters.</p> <ul style="list-style-type: none"> Value can be tokenized and combined with the SIGNATURE.MESSAGE data to display a dynamic ALERT message. Join SIGNATURE_ID with SIGNATURE.ID to retrieve the SIGNATURE.MESSAGE data. The MESSAGE_PARMS string is a delimited string, the delimiter is the “ ” character. The SIGNATURE.MESSAGE string contains place holders for these strings, the place holders are %1, %2, ..., %n. The tokenized MESSAGE_PARMS replaces the %n values based on their location in the string. <p>Example</p> <p>MESSAGE_PARMS=Austin Texas SIGNATURE.MESSAGE=%1 is in %2.</p> <p>The preceding parameters and message generates the following message:</p> <p>Austin is in Texas.</p>
QUARANTINE_ACTION	Quarantine action taken, either Added or Removed; used only in quarantine logs.
FLOW_CONTROL	Action taken by the action set: Permit, Rate Limit, or Trust.
ACTION_SET_UUID	Action set UUID; used only in rate limit logs.
ACTION_SET_NAME	Rate limit action; used only in rate limit logs.
RATE_LIMIT_RATE	Rate for rate limit logs; a numerical value followed by a unit. The unit can be Kbps or Mbps.
CLIENT_IP_ADDR	Long value of the Client IP address (Capture Additional Event Information must be enabled).
CLIENT_IP_ADDR_HIGH	Long value of the Client IP address (Capture Additional Event Information must be enabled). For IPV6 only.

COLUMN	DESCRIPTION
XFF_IP_ADDR	Long value of the X-Forwarded-For IP address (Capture Additional Event Information must be enabled).
XFF_IP_ADDR_HIGH	Long value of the X-Forwarded-For IP address (Capture Additional Event Information must be enabled). For IPV6 only.
TCIP_IP_ADDR	Long value of the True-Client-IP address (Capture Additional Event Information must be enabled).
TCIP_IP_ADDR_HIGH	Long value of the True-Client-IP address (Capture Additional Event Information must be enabled). For IPV6 only.
URI_METHOD	Method of the URI.
URI_HOST	Host of the URI.
URI_STRING	URI string.
SRC_USER_NAME	User name on the source machine. <ul style="list-style-type: none"> User ID IP Correlation must be configured on the SMS to retrieve this information. User ID IP Correlation is a feature that enables the SMS to collect user authentication data directly and continuously from an Identity Agent device.
SRC_DOMAIN	Name of the source domain.
SRC_MACHINE	Name of the source machine.
DST_USER_NAME	User name on the destination machine.
DST_DOMAIN	Name of the destination domain
DST_MACHINE	Name of the destination machine.

DDOS_STATS table

Data accumulated from the device for Advanced DDoS policies.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=DDOS_STATS
```

Parameters

COLUMN	DESCRIPTION
POLICY_ID	POLICY ID.
STAT_TIME	Time the data was collected. <ul style="list-style-type: none"> Time is stored in milliseconds since Jan. 1, 1970 00:00:00 GMT
REJECT_SYNS	Number of rejected SYN requests for the stat period.
PROXIED_CXNS	Number of proxied connections for the stat period.
CPS_CXNS	Number of Connections Per Second over stat period.
BLOCKED_CPS_CXNS	Number of blocked CPS in stat period.
CFLOOD_CXNS	Number of Connection Flood connections in stat period.
BLOCKED_CFLOOD_CXNS	Number of blocked Connection Flood connections in stat period.

FIREWALL_BLOCK_ALERTS table

Contains information pertaining to logs where traffic has been permitted by firewall rules that have logging enabled, including packets that were permitted by the content filtering configuration.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=FIREWALL_BLOCK_ALERTS
```

Parameters

COLUMN	DESCRIPTION
SEQUENCE_NUM	Reference to a particular logs row entry counter.
DEVICE_ID	Identifier for the DEVICE entry that sent the notification.
BEGIN_TIME	Time in which the event was first started. <ul style="list-style-type: none"> When using notification aggregation, this value and the TIME_END typically are off by the number of minutes specified in the aggregation setting. When aggregation is turned off, the BEGIN_TIME usually is the same as the TIME_END. This value is in milliseconds since Jan. 1, 1970 00:00:00 GMT.
END_TIME	Time in which the notification was sent to the Management Console. <ul style="list-style-type: none"> Subtracting BEGIN_TIME from TIME_END can determine the length of an attack if aggregation is being used. This value is in milliseconds since Jan. 1, 1970 00:00:00 GMT
HIT_COUNT	Number of times the firewall rule was applied.
SRC_IP_ADDR	Source IP of the packet causing the notification.
SRC_PORT	Source port of the packet causing the notification.
DST_IP_ADDR	Destination IP of the packet causing the notification.
DST_PORT	Destination port of the packet causing the notification.
RULE_ID	Unique identifier for rule to monitor traffic between security zones.
PROTOCOL_NAME	Packet type.
PROTOCOL_NUMBER	Number associated with the protocol in the filter.
PROTOCOL_TYPE	Protocol that was used to respond to the event.
IN_ZONE_UUID	Security zone from which the attack originated.
OUT_ZONE_UUID	Security zone from which the attack was targeted.
PHYSICAL_PORT_IN	Device port on which the attack was detected.
VLAN	Local VLAN that was targeted.
CATEGORY	Type of traffic filter that was activated.
URL	URL associated with the attack.
URL_INFO	Additional information relevant to the URL.
SEVERITY_ID	Severity of the attack.

FIREWALL_TRAFFIC_ALERTS table

Contains information pertaining to logs where traffic has been permitted by firewall rules that have logging enabled, including packets that were permitted by the content filtering configuration.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=FIREWALL_TRAFFIC_ALERTS
```

Parameters

COLUMN	DESCRIPTION
SEQUENCE_NUM	Reference to a particular logs row entry counter.
DEVICE_ID	Identifier for the DEVICE entry that sent the notification.
END_TIME	Time in which the notification was sent to the Management Console. <ul style="list-style-type: none"> Value is in milliseconds (since Jan. 1, 1970 00:00:00 GMT) Subtract BEGIN_TIME from TIME_END to determine the length of an attack, if aggregation is being used.
SRC_IP_ADDR	Packet source IP address.
SRC_PORT	Packet source port.
DST_IP_ADDR	Packet destination IP address.
DST_PORT	Packet destination port.
RULE_ID	Unique identifier to monitor traffic between security zones.
PROTOCOL_NAME	Packet type.
PROTOCOL_NUMBER	Protocol number in the filter.
IN_ZONE_UUID	Security zone from which the attack originated.
OUT_ZONE_UUID	Security zone from which the attack was targeted.
CATEGORY	Type of traffic filter that was activated.
DURATION	Duration of the attack.
URL	URL that was associated with the attack.
TRANSFER_BYTES	Number of bytes transferred for the event.
MESSAGE	Dynamic ALERT message.

PORT_TRAFFIC_STATS table

Contains information of traffic going through each IPS port.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=PORT_TRAFFIC_STATS
```

Parameters

COLUMN	DESCRIPTION
DEVICE_ID	Identifier for the DEVICE entry that sent the notification.
PORT_ID	Identifier for the PORT entry that the traffic is going through.
SMS_TIME	SMS time in which the statistics get captured.
DEVICE_TIME	Device SMS time in which the statistics get captured.
IN_OCTETS	Device SMS time in which the statistics get captured.
OUT_OCTETS	Total traffic going out the port.

QUARANTINE_HOSTS table

Contains device and SMS quarantine actions.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=QUARANTINE_HOSTS
```

Parameters

COLUMN	DESCRIPTION
ID	Unique identifier for the table entry.
QUARANTINED_IP	IP address of the quarantined host.
QUARANTINED_MAC	MAC address of the quarantined host.
POLICY_NAME	Descriptive name for the policy that triggered the host quarantine.
STATE	Current state of the host. <ul style="list-style-type: none"> • UNQUARANTINED • QUARANTINED • INITIAL • ERROR
AUTHORITY	Source of the quarantine state for the host.
CREATE_TIME	Time the initial quarantine state was set.
LAST_UPDATE	Time of the last quarantine state change.

RATELIMIT_STATS table

When using RATELIMIT ACTIONSETS, this data is accumulated from the DEVICE.

If you are using RATELIMIT ACTIONSETS, this table is expected to have a continuous growth pattern and contain millions of records.

Definition

```
dbAccess/tptDBServlet?method=GetData&table=RATELIMIT_STATS
```

Parameters

COLUMN	DESCRIPTION
ACTIONSET_ID	Identifier of the ACTIONSET table entry for this record.
STAT_TIME	Time this stat was recorded. <ul style="list-style-type: none"> Time is milliseconds since Jan. 1, 1970 00:00:00 GMT
DEVICE_ID	Identifier for the DEVICE.
RATE	RATE in kbps.
VALUE	Number of Bytes.

GetNewestRecord

Retrieve the newest record of a specific table.

Definition

```
/dbAccess/tptDBServlet?method=GetNewestRecord
```

Parameters

PARAMETER	DESCRIPTION
table	<ul style="list-style-type: none"> ALERTS table DDOS_STATS table FIREWALL_BLOCK_ALERTS table FIREWALL_TRAFFIC_ALERTS table PORT_TRAFFIC_STATS table QUARANTINE_HOSTS table RATELIMIT_STATS table

GetOldestRecord

Retrieve the oldest record of a specific table.

Definition

```
/dbAccess/tptDBServlet?method=GetOldestRecord
```

Parameters

PARAMETER	DESCRIPTION
table	<ul style="list-style-type: none"> • ALERTS table • DDOS_STATS table • FIREWALL_BLOCK_ALERTS table • FIREWALL_TRAFFIC_ALERTS table • PORT_TRAFFIC_STATS table • QUARANTINE_HOSTS table • RATELIMIT_STATS table

Schema

Obtain SMS database schema information. The SMS returns the schema information in Oracle 8i or MySQL 4.0 compliant data definition language (DDL) statements.

Definition

```
dbAccess/tptDBServlet?method=Schema
```

Parameters

PARAMETER	DESCRIPTION
database	Only valid for sql format. <ul style="list-style-type: none"> • MySQL (default) • Oracle

Example

```
curl -k --header "X-SMS-API-KEY: <string>" "https://<sms_server>/dbAccess/tptDBServlet?method=Schema"
```

Status

Returns the status of the SMS web API support.

Definition

```
dbAccess/tptDBServlet?method=Status
```

Response

- OK: SMS web API support is enabled and running.
- Not Found: SMS web API support is not enabled.

Version

Returns the version number of the SMS.

Definition

```
dbAccess/tptDBServlet?method=Version
```

External database

The external database can be used for customized reporting. For custom reports, you can access the SMS database directly or replicate the SMS to your external server. If you require data that the SMS reports do not routinely provide, you can set up an SMS External Database with a reporting tool of your choice.

The SMS supports the following database options:

- External access - direct access to the database.
- External replication - remote replication of the database, which provides a copy of the database that can be edited, backed up, or used for offloading report functions. Data that you access remotely is read-only and cannot be changed.

External access

- [Set up the access service](#) to allow an external database tool to access data on the SMS. Do this before you configure the external application.
- Reboot the SMS to enable or disable this service.

External replication

- [Set up the replication service](#) to allow an external database server to replicate data from the SMS.
- Reboot the SMS to enable or disable this service.

Configure the SMS for external access

Open a MariaDB read-only database for any third-party access or reporting tool. The read-only database is named **ExternalAccess**.

Procedure

1. On the SMS, go to **Admin > Database > External Database Settings > Edit**.
2. Select **External Access Settings > Enable external database access**.
3. Enter the following:
 - **Username** – Provide the user name for an account with sufficient rights to read all the desired data from the SMS database.
 - **Password** – Enter and confirm the password.
4. If you changed the external access settings, click **Reboot** to restart the SMS server and initialize the service.



Note

Follow your company's server downtime policies, including notification to SMS clients of a pending reboot. Before you reboot the SMS, gracefully stop other client connections to the server.

5. Click **OK**.

If verification fails:

- Verify that the username/password on the database matches the SMS.
- Reboot the SMS before you try to access the database.
- Running a complex report against SMS server may slow down the SMS response time significantly.

ALERTS table - ExternalAccess

The database name is **ExternalAccess**.

Parameters

COLUMN	DESCRIPTION
SEQUENCE_NUM	Reference to a particular logs row entry counter.
DEVICE_ID	Identifier for the DEVICE entry that sent the notification.
ALERT_TYPE_ID	This field can be joined to the ALERT_TYPE table for a descriptive name for this column.
POLICY_ID	Identifier used to map this alert to a POLICY table entry.
SIGNATURE_ID	Identifier used to map this alert to a SIGNATURE table entry.
BEGIN_TIME	Time at which the event was first started or previously logged.
END_TIME	Time at which the notification was logged and sent to the Management Console.
HIT_COUNT	Counter displaying the number of times the event triggered before the notification was sent to the Management Console.
SRC_IP_ADDR	Source IP of the packet causing the notification.
SRC_IP_ADDR_2	Represents the higher 64 bit for the IPv6 source addresses. For IPv4 address, this field has a NULL value.
SRC_PORT	Source port of the packet causing the notification.
DST_IP_ADDR	Destination IP of the packet causing the notification.
DST_IP_ADDR_2	Represents the higher 64 bit for the IPv6 destination addresses. For IPv4 address, this field has a NULL value.
DST_PORT	Destination port of the packet causing the notification.
VIRTUAL_SEGMENT_INDEX	Identifier for which device segment this alert was seen on.
PHYSICAL_PORT_IN	Device port on which the event was detected.
VLAN_TAG	VLAN identifier contained in the event.
SEVERITY	SEVERITY of the event. Usually corresponds to the SIGNATURE.SEVERITY column, joined by the SIGNATURE_ID column. A foreign key constraint to the SEVERITY table has been applied here.
PACKET_TRACE	Indicates if a packet trace is available on the device.
DEVICE_TRACE_BUCKET	Part of the device packet trace identifier.
DEVICE_TRACE_BEGIN_SEQ	Part of the device packet trace identifier.
DEVICE_TRACE_END_SEQ	Part of the device packet trace identifier.

COLUMN	DESCRIPTION
MESSAGE_PARMS	Variable list of message parameters.
QUARANTINE_ACTION	Quarantine action taken, either Added or Removed; used only in quarantine logs.
FLOW_CONTROL	Action taken by the action set: Permit, Rate Limit, or Trust.
ACTION_SET_UUID	Action set UUID; used only in rate limit logs.
ACTION_SET_NAME	Rate limit action; used only in rate limit logs.
RATE_LIMIT_RATE	Rate for rate limit logs; a numerical value followed by a unit. The unit can be Kbps or Mbps.
CLIENT_IP_ADDR	Long value of the Client IP address (Capture Additional Event Information must be enabled).
CLIENT_IP_ADDR_HIGH	Long value of the Client IP address (Capture Additional Event Information must be enabled). For IPV6 only.
XFF_IP_ADDR	Long value of the X-Forwarded-For IP address (Capture Additional Event Information must be enabled).
XFF_IP_ADDR_HIGH	Long value of the X-Forwarded-For IP address (Capture Additional Event Information must be enabled). For IPV6 only.
TCIP_IP_ADDR	Long value of the True-Client-IP address (Capture Additional Event Information must be enabled).
TCIP_IP_ADDR_HIGH	Long value of the True-Client-IP address (Capture Additional Event Information must be enabled). For IPV6 only.
URI_METHOD	URI method.
URI_HOST	URI host.
URI_STRING	URI string.
SRC_USER_NAME	Source machine user name.
SRC_DOMAIN	Source domain name.
SRC_MACHINE	Source machine name.
DST_USER_NAME	Destination machine user name.
DST_DOMAIN	Destination domain name.
DST_MACHINE	Destination machine name.

Configure the SMS for replication

This service allows an external database server to replicate data from the SMS. Using an external database for data replication allows you to offload report processing to an external server which can provide performance gains to your existing system. Reboot the SMS to completely enable or disable this service.

Before you begin, make sure that your replication system has sufficient disk space to accommodate the database and any increase in size due to additional data or reporting.

Procedure

1. In the SMS, go to **Admin > Database**.
2. On the External Database Settings panel, click **Edit**.

3. In the Edit External Database Settings wizard, select **External Replication Settings**.

**Note**

To configure external database replication, you must create an SMS database snapshot, and then copy the snapshot to the target replication system and import it into a MariaDB database before the SMS server can replicate its data to the target system.

4. Select **Enable external database replication** to enable the service. (To disable the service, clear the check box.)
5. Provide the following:
 - **Username** – Provide the user name for an account with sufficient rights to read all the desired data from the SMS database.
 - **Password** – Provide the password for the user account. Retype the password in the Confirm Password field.
6. If you changed the replication settings, click **Reboot** to restart the SMS server and initialize the service.

**Note**

Follow your company's server downtime policies, including notification to SMS clients of a pending reboot. Before you reboot the SMS, gracefully stop other client connections to the server.

7. Click **Create Snapshot**, and select **Include Events in Snapshot** if you want the snapshot to include event data.

**Note**

The snapshot is saved locally on the SMS server. You must copy the snapshot to the target replication system and import it into a new or existing MariaDB database before the SMS server can replicate its data to the target system.

8. Click **OK**.

**Note**

External database replication and the SMS High Availability (HA) features both leverage the same functionality in the underlying MariaDB database. The SMS database does not support replication to multiple destinations; therefore, we do not recommend using SMS HA and external database replication at the same time.

Replication – database schema

Includes the following tables created when you dump the snapshot file to the replicated database server.

Some of the tables are for internal use only. The rest of tables are divided into two categories: *DataDictionary* and *Events Data*.

Configure the SMS to enable restricted access

This service allows access to the external database to be restricted to a set of IP addresses.

Procedure

1. In the SMS, go to **Admin > Database**.
 2. On the External Database Settings panel, click **Edit**.
 3. In the Edit External Database Settings wizard, select **Access Restrictions**.
 4. Select **Enable restricted access** to enable the service. (To disable the service, clear the check box.)
 5. Provide the following:
 - **Named IP Address Group** – To restrict a set of IP addresses, click the arrow, and either select a Named IP Address Group or create a new one.
 6. Click **OK**.
-

MIB files for the SMS

A management information base (MIB) is a type of database that is used to manage devices in a communications network. Database entries are addressed through object identifiers (OIDs). MIB files are descriptions of network objects that can be managed using the Simple Network Management Protocol (SNMP). The format of the MIB is defined as part of the SNMP.

This information includes the following topics:

[SMS MIBs](#)

[Public MIB files](#)

[Health monitoring](#)

SMS MIBs

You can download TippingPoint SMS MIB files from the TMC at <https://tmc.tippingpoint.com>. On the TMC website, navigate to the Documentation area for this product release, and then select **SMS MIBS**.

The compressed file contains two MIB files:

- **TPT-SMSMIBS** defines monitoring functions
- **TPT-SMS-TRAP-MIB** defines the SMS traps

For more information about these MIBs, refer to the *TippingPoint MIB Guide for TOS v3.9.0*, available on the TMC.

Public MIB files

Publicly available UCD-SNMP-MIB and UCD-DISKIO-MIB definitions can be used to query SMS health values. These files can be downloaded from the following locations:

- <http://net-snmp.sourceforge.net/docs/mibs/>
- <http://net-snmp.sourceforge.net/docs/mibs/UCD-SNMP-MIB.txt>
- <http://net-snmp.sourceforge.net/docs/mibs/UCD-DISKIO-MIB.txt>

Note that only the SMS Health Section OIDs listed in [Health monitoring](#) are supported.

Health monitoring

The following table lists the OIDs that are used to graph and display values in the SMS Health section of the SMS client.

SECTION	DESCRIPTION	OID
CPU	CPU_USER	1.3.6.1.4.1.2021.11.50.0
	CPU_SYS	1.3.6.1.4.1.2021.11.52.0
	CPU_IDLE	1.3.6.1.4.1.2021.11.53.0
Filesystem	FS_DSKPATH	1.3.6.1.4.1.2021.9.1.2
	FS_DEVPATH	1.3.6.1.4.1.2021.9.1.3
	FS_TOTAL	1.3.6.1.4.1.2021.9.1.6
	FS_AVAIL	1.3.6.1.4.1.2021.9.1.7
	FS_USED	1.3.6.1.4.1.2021.9.1.8
	FS_PERCENT	1.3.6.1.4.1.2021.9.1.9
	FS_IPERCENT	1.3.6.1.4.1.2021.9.1.10
High Availability	HA	1.3.6.1.4.1.2021.8.1.101.34
Memory	SWAP_TOTAL	1.3.6.1.4.1.2021.4.3.0
	SWAP_AVAIL	1.3.6.1.4.1.2021.4.4.0
	REALMEM_TOTAL	1.3.6.1.4.1.2021.4.5.0
	REALMEM_AVAIL	1.3.6.1.4.1.2021.4.6.0

SECTION	DESCRIPTION	OID
Network Traffic	ETHO_RX_BYTES	1.3.6.1.4.1.2021.8.1.101.1
	ETHO_RX_PACKETS	1.3.6.1.4.1.2021.8.1.101.2
	ETHO_RX_ERRORS	1.3.6.1.4.1.2021.8.1.101.3
	ETHO_RX_DROPPED	1.3.6.1.4.1.2021.8.1.101.4
	ETHO_RX_FIFO_ERRORS	1.3.6.1.4.1.2021.8.1.101.5
	ETHO_RX_FRAME_ERRORS	1.3.6.1.4.1.2021.8.1.101.6
	ETHO_RX_COMPRESSED	1.3.6.1.4.1.2021.8.1.101.7
	ETHO_TX_BYTES	1.3.6.1.4.1.2021.8.1.101.8
	ETHO_TX_PACKETS	1.3.6.1.4.1.2021.8.1.101.9
	ETHO_TX_ERRORS	1.3.6.1.4.1.2021.8.1.101.10
	ETHO_TX_DROPPED	1.3.6.1.4.1.2021.8.1.101.11
	ETHO_TX_FIFO_ERRORS	1.3.6.1.4.1.2021.8.1.101.12
	ETHO_TX_CARRIER_ERRORS	1.3.6.1.4.1.2021.8.1.101.13
	ETHO_TX_COMPRESSED	1.3.6.1.4.1.2021.8.1.101.14
	ETHO_MULTICAST	1.3.6.1.4.1.2021.8.1.101.15
	ETHO_COLLISIONS	1.3.6.1.4.1.2021.8.1.101.16
	ETH1_RX_BYTES	1.3.6.1.4.1.2021.8.1.101.17
	ETH1_RX_PACKETS	1.3.6.1.4.1.2021.8.1.101.18
	ETH1_RX_ERRORS	1.3.6.1.4.1.2021.8.1.101.19
	ETH1_RX_DROPPED	1.3.6.1.4.1.2021.8.1.101.20
	ETH1_RX_FIFO_ERRORS	1.3.6.1.4.1.2021.8.1.101.21
	ETH1_RX_FRAME_ERRORS	1.3.6.1.4.1.2021.8.1.101.22
	ETH1_RX_COMPRESSED	1.3.6.1.4.1.2021.8.1.101.23
	ETH1_TX_BYTES	1.3.6.1.4.1.2021.8.1.101.24
	ETH1_TX_PACKETS	1.3.6.1.4.1.2021.8.1.101.25
	ETH1_TX_ERRORS	1.3.6.1.4.1.2021.8.1.101.26
	ETH1_TX_DROPPED	1.3.6.1.4.1.2021.8.1.101.27
	ETH1_TX_FIFO_ERRORS	1.3.6.1.4.1.2021.8.1.101.28
	ETH1_TX_CARRIER_ERRORS	1.3.6.1.4.1.2021.8.1.101.29
	ETH1_TX_COMPRESSED	1.3.6.1.4.1.2021.8.1.101.30
	ETH1_MULTICAST	1.3.6.1.4.1.2021.8.1.101.31
	ETH1_COLLISIONS	1.3.6.1.4.1.2021.8.1.101.32
Temperature	TEMPERATURE	1.3.6.1.4.1.2021.8.1.101.33

Event Taxonomy

The following sections help you get started with the Event Taxonomy:

- [Taxonomy Event ID](#)
- [Major categories](#)
- [Minor categories](#)
- [Protocol type](#)
- [Platform type](#)

Event Taxonomy

This information provides details about the Trend Micro TippingPoint event taxonomy for use with the SMS Web Services API with SMS version 4.1 and later.

The event taxonomy provides further information for use with following taxonomy tables:

- TAXONOMY_MAJOR
- TAXONOMY_MINOR
- TAXONOMY_PROTOCOL
- TAXONOMY_PLATFORM

Taxonomy Event ID

The Taxonomy Event ID for a particular event is a 10-digit number constructed with the following components:

- Major Category (0-127)
- Minor Category (0-255)
- [Protocol Type optional] (0-255)
- [Platform Type optional] (0-255)

The number is then calculated much like a decimal IP address conversion: $(\text{Major} * 16777216) + (\text{Minor} * 65536) + (\text{Protocol} * 256) + (\text{Platform octet})$.



Note

The maximum value for a Taxonomy Event ID is 2,147,483,647.

Data detail examples

The following are data detail examples.

Example 1

TP ID - 17107965

Filter 2813: HTTP: HP Web Jetadmin Remote Command Injection Vulnerability

001 (Vulnerability) + 005 (Command Injection) + 011 (http protocol) + 253 (Multi-platform Server Application or Service) = $1*16777216 + 5*65536 + 11*256 + 253 = 17107965$

Example 2

TP ID - 67214080

Filter 1511: Kazaa: File Download/Upload

004 (Security Policy) + 001 (P2P) + 155 (FastTrack) + 001 (Windows Client Application) = $3*16777216 + 0*65536 + 112*256 + 252 = 4*16777216 + 1*65536 + 155*256 + 1 = 67214080$

Example 3

TP ID - 84151551

Filter 164: ICMP: Echo Request (Ping)

005 (Reconnaissance/ Suspicious Access) + 004 (Host Scan) + 012 (ICMP) + 255 (Other) = $5*16777216 + 4*65536 + 12*256 + 255 = 84151551$

Example 4

TP ID - 33693185

Filter 2785: POP/IMAP: Netsky-P Virus Propagation

002 (Malicious Code) + 002 (virus) + 030 (pop/imap) + 001 (Windows Client Application) = $2*16777216 + 2*65536 + 30*256 + 1 = 33693185$

Example 5

TP ID - 100750333

Filter 2824: SIP: From Field Anomaly

006 (Application/ Protocol Anomaly) + 001 (Protocol Anomaly) + 083 (sip) + 253 (Multi-platform Server Application or Service) = $6*16777216 + 1*65536 + 83*256 + 253 = 100750333$

Major categories

The following table gives the codes and descriptions for major categories.

CATEGORY CODE	CATEGORY	DESCRIPTION
001	Vulnerability	This category includes events triggered by an attempt to exploit a vulnerability in any application, operating system, or networked hardware device.
002	Malicious Code	This includes events triggered by viruses, worms, Trojans, backdoors, and all manner of blended malware threats.
003	Distributed Denial of Service (DDoS)	This category includes events triggered by traffic thresholds that indicate an attempt to make a resource unavailable.
004	Security Policy	This category includes events that indicate an attempt to violate an organization's security policy. It covers P2P, IM, email attachments, IRC, and other network communication types.
005	Reconnaissance or Suspicious Access	This category includes events that indicate network activity usually associated with common information gathering techniques used by attackers to launch more sophisticated attacks.

CATEGORY CODE	CATEGORY	DESCRIPTION
006	Application or Protocol Anomaly	This category includes events that indicate a violation of a protocol or application's RFC.
007	Traffic Thresholds	This category includes events triggered by predefined thresholds for specific applications or ports.
008	IP Filters	This category includes events triggered by predefined IP access control lists.

Minor categories

The following table gives the codes and descriptions for minor categories.

CATEGORY CODE	CATEGORY	DESCRIPTION
001	Vulnerability	Buffer/Heap Overflow
002	Vulnerability	Denial of Service (Crash/Reboot)
003	Vulnerability	Configuration Error
004	Vulnerability	Race Condition
005	Vulnerability	Invalid Input (Command Injection, Cross-Site Scripting, SQL Injection, etc.)
006	Vulnerability	Access Validation
255	Vulnerability	Other
001	Malicious Code	Worm
002	Malicious Code	Virus
003	Malicious Code	Trojan/Backdoor
004	Malicious Code	IRC Botnet/Blended Threat
005	Malicious Code	Phishing
255	Malicious Code	Other
001	DDoS	SYN Flood Attack
002	DDoS	Other Flood Attack (e.g., ACK, CPS, etc.)
003	DDoS	Iterative Application Attack (Hammer)
255	DDoS	Other
001	Security Policy	P2P
002	Security Policy	Chat and Instant Messaging
003	Security Policy	Streaming Media
004	Security Policy	Email Attachments
005	Security Policy	Forbidden Application Access or Service Request (Telnet, SMB Null Session, etc.)
006	Security Policy	Authentication Failure (Telnet login failed, brute force, etc.)
007	Security Policy	Spyware

CATEGORY CODE	CATEGORY	DESCRIPTION
255	Security Policy	Other
001	Reconnaissance or Suspicious Access	Port Scan
002	Reconnaissance or Suspicious Access	Suspicious Application Access
003	Reconnaissance or Suspicious Access	Suspicious Service Request
004	Reconnaissance or Suspicious Access	Host Scan
255	Reconnaissance or Suspicious Access	Other
001	Application or Protocol Anomaly	Protocol Anomaly
002	Application or Protocol Anomaly	Evasion Technique
003	Application or Protocol Anomaly	Application Anomaly
255	Application or Protocol Anomaly	Other Anomaly
001	Traffic Thresholds	Traffic Threshold
002	Traffic Thresholds	Application Threshold
255	Traffic Thresholds	Other
001	IP Filters	Deny
002	IP Filters	Accept
255	IP Filters	Other

Protocol type

The following table lists the type codes for protocols.

TYPE CODE	PROTOCOL
001	appletalk
002	auth
003	bgp
004	cdp
005	clns
006	dhcp
007	dns
008	finger

TYPE CODE	PROTOCOL
009	ftp
010	hsrp
011	http
012	icmp
013	igmp
014	igrp/eigrp
015	ipv6
016	ipx
017	irc
018	is-is
019	isakmp/ike
020	ldap
021	mpls
022	ms-rpc
023	ms-sql
024	nat
025	netbios
026	nntp
027	ntp
028	oracle (sqlnet, etc.)
029	ospf
030	pop/imap
031	portmapper
032	qos
033	rip
034	rpc services
035	smb
036	smtp
037	snmp
038	sql
039	ssh
040	ssl/tls
041	tacacs

TYPE CODE	PROTOCOL
042	tcp (generic)
043	telnet
045	udp (generic)
046	uucp
048	x-window
049	fttp
050	IP
051	nfs
052	wins
080	h.323 (voip)
081	megaco (voip)
082	mgcp (voip)
083	sip (voip)
084	rtp/rtcp (voip)
099	voip (other)
100	aim (IM)
101	msn (IM)
102	yahoo! (IM)
103	icq (IM)
119	IM (other)
120	musicMatch
121	winamp
122	shoutcast
123	windows media
124	quicktime
125	rtsp
149	streaming media (other)
150	bittorrent
151	blubster/piolet/rockitnet
152	directconnect
153	earthstation5
154	edonkey/overnet/emule/mldonkey
155	fasttrack

TYPE CODE	PROTOCOL
156	gnutella
157	twister
158	winmx
180	p2p (other)
190	DNP3 (SCADA)
191	ICCP (SCADA)
192	IEC (SCADA)
193	MODBUS (SCADA)
194	OPC (SCADA)
199	SCADA (other)
254	Multi-protocol
255	Other Protocol

Platform type

The following table lists the codes and descriptions for platforms.

CATEGORY CODE	DESCRIPTION
001	Windows Client Application
002	Mac OS Client Application
003	UNIX/Linux Client Application
004	Novell Client Application
075	Windows Server Application or Service
076	Mac OS Server Application or Service
077	UNIX/Linux Server Application or Service
078	Novell Server Application or Service
150	Networked Hardware Device (router, switch, printer, etc.) Application or Service
252	Multi-Platform Client Application
253	Multi-Platform Server Application or Service
254	Other Client Application
255	Other Service or Server Application