IPsec

API calls for real-time monitoring of IPsec information:

- **Inbound Connections**
- **Local SA**
- **Outbound Connections**

## Inbound Connections

Display information about IPsec tunnels that originate on remote routers (on vEdge routers only).

**CLI Equivalent:** `show ipsec inbound-connections`

**URL:** `https://vmanage-ip-address/dataservice/device/ipsec/inbound?deviceId=deviceId`

**Method:** GET

**Request Parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Required</th>
<th>Description</th>
<th>Parameter Type</th>
<th>Data Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>deviceId</td>
<td>Yes</td>
<td>IP address of device</td>
<td>Query</td>
<td>String</td>
</tr>
<tr>
<td>local-tloc-color</td>
<td>Optional</td>
<td>Local TLOC color</td>
<td>Query</td>
<td>String</td>
</tr>
<tr>
<td>remote-tloc-address</td>
<td>Optional</td>
<td>IP address of the remote TLOC</td>
<td>Query</td>
<td>IPv4</td>
</tr>
<tr>
<td>remote-tloc-color</td>
<td>Optional</td>
<td>Remote TLOC color</td>
<td>Query</td>
<td>String</td>
</tr>
</tbody>
</table>

**Response Content Type:** `application/json`

**Response Object:** See Response Object, below.

## Local SA

Display security association information for the IPsec tunnels that have been created for local TLOCs (on vEdge routers only).

**CLI Equivalent:** `show ipsec local-sa`

**URL:** `https://vmanage-ip-address/dataservice/device/ipsec/localsa?deviceId=deviceId`

**Method:** GET

**Request Parameters**
<table>
<thead>
<tr>
<th>Name</th>
<th>Required</th>
<th>Description</th>
<th>Parameter Type</th>
<th>Data Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>deviceId</td>
<td>Yes</td>
<td>IP address of device</td>
<td>Query</td>
<td>String</td>
</tr>
</tbody>
</table>

Response Content Type: application/json

Response Object: See Response Object, below.

---

**Outbound Connections**

Display information about the IPsec connections to remote routers (on vEdge routers only).

CLI Equivalent: `show ipsec outbound-connections`

URL: `https://vmanage-ip-address/dataservice/device/ipsec/outbound?deviceId=deviceId`

Method: GET

**Request Parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Required</th>
<th>Description</th>
<th>Parameter Type</th>
<th>Data Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>deviceId</td>
<td>Yes</td>
<td>IP address of device</td>
<td>Query</td>
<td>String</td>
</tr>
<tr>
<td>remote-tloc-address</td>
<td>Optional</td>
<td>IP address of the remote TLOC</td>
<td>Query</td>
<td>IPv4</td>
</tr>
<tr>
<td>remote-tloc-color</td>
<td>Optional</td>
<td>Remote TLOC color</td>
<td>Query</td>
<td>String</td>
</tr>
</tbody>
</table>

Response Content Type: application/json

Response Object: See Response Object, below.

---

**Response Object for Real-Time Monitoring API Calls**

Real-time monitoring API call responses have the following format:

```json
{
   "header": {
      "generatedOn": timestamp, milliseconds (UNIX time format),
      "viewKeys": {
         "uniqueKey": ["key"]
      },
      "fields": {
         properties and types
      },
   },
   "data": [array of objects]
}
```

---

**Additional Information**

**Using the vManage REST API**