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?deviceld=deviceld

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>deviceld</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>
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<tr>
<td>remote-tloc-color</td>
<td>Optional</td>
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<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

https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/vManage_REST_APIs/Real-Time_Monitoring_API