



# Configuring Network Detection and Response

---

- [Prerequisites for Network Detection and Response, on page 1](#)
- [Restrictions for Network Detection and Response, on page 1](#)
- [Information About Network Detection and Response, on page 2](#)
- [How to Configure Network Detection and Response, on page 2](#)
- [Verifying Network Detection and Response Configuration, on page 11](#)
- [Configuration Examples for Network Detection and Response, on page 12](#)
- [Feature History for Network Detection and Response, on page 15](#)

## Prerequisites for Network Detection and Response

- All the devices in a network must have reachability to the Stealthwatch Cloud portal. Also, all the encrypted traffic must use HTTPS (TCP port 443) to reach the Stealthwatch Cloud portal.
- Applicable root certificate authorities (CAs) must be configured on a device to validate the certificates provided by the Stealthwatch Cloud portal.
- Ensure that there is sufficient bandwidth to avoid loss of data.

## Restrictions for Network Detection and Response

- Cisco Encrypted Traffic Analytics is not supported on the Stealthwatch Cloud portal.
- HTTPs proxy is not supported.
- Stealthwatch Cloud portal uses only the primary DNS server. An error is displayed if the primary DNS server fails.
- If DNS servers configured on the device are unable to resolve the Stealthwatch cloud monitor URLs, file uploads fail even if the Stealthwatch cloud sensor is registered to the Stealthwatch cloud portal.

# Information About Network Detection and Response

Cisco Secure Network Analytics (also known as the Stealthwatch Cloud) is a Network Detection and Response solution that uses enterprise telemetry to detect threats and provide accelerated threat response along with network segmentation. Cisco Secure Network Analytics also allows a network administrator to track all users logged into the network, and monitor their activities.

As part of the Network Detection and Response solution for Cisco Catalyst Switches, the enterprise telemetry used for analysis is Flexible NetFlow flows.

You must configure Stealthwatch Cloud properties on a device. You must then create a flow record and a flow exporter for the Stealthwatch Cloud portal.



**Note** A flow record must have the mandatory 5-tuple fields—protocol, source address, source port, destination address, and destination port configured along with the flow start, flow end, number of packets, and number of bytes for the records to be uploaded into the Stealthwatch Cloud portal.

Configure the flow record and flow exporter to a flow monitor. All the flows that are then generated from the flow monitor are converted into custom format and uploaded into the Stealthwatch Cloud portal.

## How to Configure Network Detection and Response

The following sections provide configuration information on network detection and response.

### Configuring a Certificate for Registration

To configure a certificate for registration, perform this procedure.

#### SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **crypto pki trustpoint** *name*
4. **revocation-check** *method1* [*method2 method3*]
5. **enrollment** *mode*
6. **exit**
7. **crypto pki authenticate** *name*
8. **exit**
9. **show pki trustpoints** *name*

#### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>enable</b>	Enables privileged EXEC mode.
	<b>Example:</b>	Enter your password, if prompted.

	Command or Action	Purpose
	Device> <b>enable</b>	
<b>Step 2</b>	<b>configure terminal</b>  <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>crypto pki trustpoint name</b>  <b>Example:</b> Device(config)# <b>crypto pki trustpoint stealthwatch1</b>	Declares the trustpoint and a given name and enters ca-trustpoint configuration mode.
<b>Step 4</b>	<b>revocation-check method1 [method2 method3]</b>  <b>Example:</b> Device(ca-trustpoint)# <b>revocation-check none</b>	Checks the revocation status of a certificate.  <b>none:</b> Certificate checking is ignored.
<b>Step 5</b>	<b>enrollment mode</b>  <b>Example:</b> Device(ca-trustpoint)# <b>enrollment terminal</b>	Specifies terminal as the enrollment mode of the certificate.
<b>Step 6</b>	<b>exit</b>  <b>Example:</b> Device(ca-trustpoint)# <b>exit</b>	Exits ca-trustpoint configuration mode and returns to global configuration mode.
<b>Step 7</b>	<b>crypto pki authenticate name</b>  <b>Example:</b> Device(config)# <b>crypto pki authenticate stealthwatch1</b> Enter the base 64 encoded CA certificate. End with a blank line or the word "quit" on a line by itself	Authenticates the trustpoint name and enters ca-trustpoint configuration mode.  When prompted, copy and paste the Starfield Services Root Certificate from <a href="https://www.amazontrust.com/repository/SFC2CA-SFSRootCAG2.pem">https://www.amazontrust.com/repository/SFC2CA-SFSRootCAG2.pem</a> .  The system prompts you with the following statement:  % Do you accept this certificate? [yes/no]:  Enter <b>yes</b> to confirm.
<b>Step 8</b>	<b>exit</b>  <b>Example:</b> Device(config)# <b>exit</b>	Returns to privileged EXEC mode.
<b>Step 9</b>	<b>show pki trustpoints name</b>  <b>Example:</b> Device# <b>show crypto pki trustpoints stealthwatch1</b>	(Optional) Displays information about the configured trustpoint.

## Configuring a Certificate for File Upload

To configure a certificate for file upload, perform this procedure.

**Before you begin**

Download the Baltimore CyberTrust Root certificate:

1. Open <https://www.digicert.com/kb/digicert-root-certificates.htm> in a web browser.
2. Under **Baltimore CyberTrust Root**, click **Download PEM**.
3. Choose a location and save the BaltimoreCyberTrustRoot.crt.pem file.

**SUMMARY STEPS**

1. **enable**
2. **configure terminal**
3. **crypto pki trustpoint** *name*
4. **revocation-check** *method1* [*method2 method3*]
5. **enrollment terminal**
6. **exit**
7. **crypto pki authenticate** *name*
8. **exit**
9. **show pki trustpoints** *name*

**DETAILED STEPS**

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b> <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode. Enter your password, if prompted.
<b>Step 2</b>	<b>configure terminal</b> <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>crypto pki trustpoint</b> <i>name</i> <b>Example:</b> Device(config)# <b>crypto pki trustpoint stealthwatch2</b>	Declares the trustpoint and a given name and enters ca-trustpoint configuration mode.
<b>Step 4</b>	<b>revocation-check</b> <i>method1</i> [ <i>method2 method3</i> ] <b>Example:</b> Device(ca-trustpoint)# <b>revocation-check none</b>	Checks the revocation status of a certificate. <b>none:</b> Certificate checking is ignored.
<b>Step 5</b>	<b>enrollment terminal</b> <b>Example:</b> Device(ca-trustpoint)# <b>enrollment terminal</b>	Specifies <b>terminal</b> as the enrollment mode of the certificate.
<b>Step 6</b>	<b>exit</b> <b>Example:</b> Device(ca-trustpoint)# <b>exit</b>	Exits ca-trustpoint configuration mode and returns to global configuration mode.

	Command or Action	Purpose
Step 7	<b>crypto pki authenticate <i>name</i></b>  <b>Example:</b> <pre>Device(config)# <b>crypto pki authenticate stealthwatch2</b> Enter the base 64 encoded CA certificate. End with a blank line or the word "quit" on a line by itself</pre>	Authenticates the trustpoint name and enters ca-trustpoint configuration mode.  When prompted, copy and paste the text from the BaltimoreCyberTrustRoot.crt.pem file.  The system prompts you with the following statement: <pre>% Do you accept this certificate? [yes/no]:</pre> Enter <b>yes</b> to confirm.
Step 8	<b>exit</b>  <b>Example:</b> <pre>Device(config)# <b>exit</b></pre>	Returns to privileged EXEC mode.
Step 9	<b>show pki trustpoints <i>name</i></b>  <b>Example:</b> <pre>Device# <b>show crypto pki trustpoints stealthwatch2</b></pre>	(Optional) Displays information about the configured trustpoint.

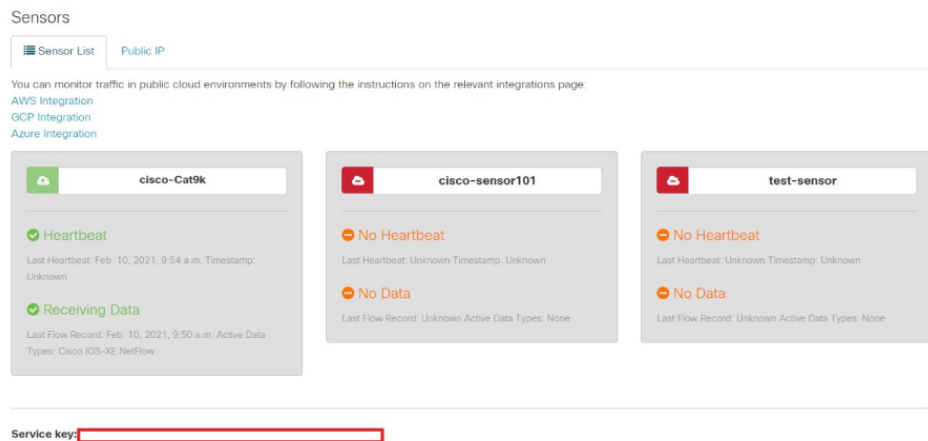
## Configuring Stealthwatch Cloud on a Device

To configure Stealthwatch Cloud on a device, perform this procedure.

### Before you begin

To view the service key from the Stealthwatch Cloud portal, perform the following steps:

1. Open the Stealthwatch Cloud portal from a browser.
2. In the **Dashboard** view, click the cloud icon located on the right corner of the window, and select **Sensors**.
3. Navigate to the bottom of the window to locate the service key.



## SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **stealthwatch-cloud-monitor**
4. **service-key** *SwC-service-key*
5. **sensor-name** *SwC-sensor-name*
6. **url** *SwC-server-url*
7. **end**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b> <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode. Enter your password, if prompted.
<b>Step 2</b>	<b>configure terminal</b> <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>stealthwatch-cloud-monitor</b> <b>Example:</b> Device(config)# <b>stealthwatch-cloud-monitor</b>	Configures the Stealthwatch Cloud monitor and enters stealthwatch-cloud-monitor configuration mode.
<b>Step 4</b>	<b>service-key</b> <i>SwC-service-key</i> <b>Example:</b> Device(config-stealthwatch-cloud-monitor)# <b>service-key</b> <b>xx</b>	Configures the Stealthwatch Cloud service key.
<b>Step 5</b>	<b>sensor-name</b> <i>SwC-sensor-name</i> <b>Example:</b> Device(config-stealthwatch-cloud-monitor)# <b>sensor-name</b> <b>mysensor</b>	(Optional) Sets a sensor name for the Stealthwatch Cloud registration. By default, the device serial number is used as the sensor name.
<b>Step 6</b>	<b>url</b> <i>SwC-server-url</i> <b>Example:</b> Device(config-stealthwatch-cloud-monitor)# <b>url</b> <b>https://sensors.eu-2.obsrvbl.com</b>	(Optional) Configures the URL of the Stealthwatch Cloud server. To avoid redirects, configure the appropriate Stealthwatch Cloud server URL. If no URL is configured, by default, the URL of the Stealthwatch Cloud server, located in the U.S, is used. Based on your location, the default URL redirects you to the nearest Stealthwatch Cloud server URL.
<b>Step 7</b>	<b>end</b> <b>Example:</b> Device(config-stealthwatch-cloud-monitor)# <b>end</b>	Returns to privileged EXEC mode.

# How to Integrate Flexible NetFlow with the Stealthwatch Cloud Portal

The following sections provide configuration information on how to integrate Flexible Netflow with the Stealthwatch Cloud portal.

## Creating a Flow Record

To create a flow record, perform this procedure.

### SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **flow record** *record-name*
4. **description** *description*
5. **match ipv4 source address**
6. **match ipv4 destination address**
7. **match transport source-port**
8. **match transport destination-port**
9. **match ipv4 protocol**
10. **collect counter bytes long**
11. **collect counter packets long**
12. **collect timestamp absolute first**
13. **collect timestamp absolute last**
14. **end**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b>  <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode.  Enter your password, if prompted.
<b>Step 2</b>	<b>configure terminal</b>  <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>flow record</b> <i>record-name</i>  <b>Example:</b> Device(config)# <b>flow record</b> SWCRec	Creates a flow record and enters flow-record configuration mode.
<b>Step 4</b>	<b>description</b> <i>description</i>  <b>Example:</b> Device(config-flow-record)# <b>description</b> swc flow	(Optional) Creates a description for the flow record.
<b>Step 5</b>	<b>match ipv4 source address</b>  <b>Example:</b>	Configures the IPv4 source address as a key field for the record.

	Command or Action	Purpose
	Device(config-flow-record)# <b>match ipv4 source address</b>	
<b>Step 6</b>	<b>match ipv4 destination address</b> <b>Example:</b> Device(config-flow-record)# <b>match ipv4 destination address</b>	Configures the IPv4 destination address as a key field for the record.
<b>Step 7</b>	<b>match transport source-port</b> <b>Example:</b> Device(config-flow-record)# <b>match transport source-port</b>	Configures the source port as a key field for the record.
<b>Step 8</b>	<b>match transport destination-port</b> <b>Example:</b> Device(config-flow-record)# <b>match transport destination-port</b>	Configures the destination port as a key field for the record.
<b>Step 9</b>	<b>match ipv4 protocol</b> <b>Example:</b> Device(config-flow-record)# <b>match ipv4 protocol</b>	Configures the IPv4 protocol as a key field for the record.
<b>Step 10</b>	<b>collect counter bytes long</b> <b>Example:</b> Device(config-flow-record)# <b>collect counter bytes long</b>	Configures the number of bytes seen in a flow as a nonkey field and enables collecting the total number of bytes from the flow.
<b>Step 11</b>	<b>collect counter packets long</b> <b>Example:</b> Device(config-flow-record)# <b>collect counter packets long</b>	Configures the number of packets seen in a flow as a nonkey field and enables collecting the total number of packets from the flow.
<b>Step 12</b>	<b>collect timestamp absolute first</b> <b>Example:</b> Device(config-flow-record)# <b>collect timestamp absolute first</b>	Configures the timestamp seen in a flow as a nonkey field and enables the collection of the absolute time the first packet was seen, from the flow.
<b>Step 13</b>	<b>collect timestamp absolute last</b> <b>Example:</b> Device(config-flow-record)# <b>collect timestamp absolute last</b>	Configures the timestamp seen in a flow as a nonkey field and enables the collection of the absolute time the most recent packet was seen, from the flow.
<b>Step 14</b>	<b>end</b> <b>Example:</b> Device(config-flow-record)# <b>end</b>	Returns to privileged EXEC mode.



## Creating a Flow Exporter

To create a flow exporter, perform this procedure.



**Note** Only one active flow exporter can be configured for Stealthwatch Cloud.

### SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **flow exporter** *name*
4. **destination** *{hostname}*
5. **end**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b>  <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode.  Enter your password, if prompted.
<b>Step 2</b>	<b>configure terminal</b>  <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>flow exporter</b> <i>name</i>  <b>Example:</b> Device(config)# <b>flow exporter SWCExp</b>	Creates a flow exporter and enters flow-exporter configuration mode.
<b>Step 4</b>	<b>destination</b> <i>{hostname}</i>  <b>Example:</b> Device(config-flow-exporter)# <b>destination stealthwatch-cloud</b>	Sets the IPv4 destination address or hostname for this exporter.
<b>Step 5</b>	<b>end</b>  <b>Example:</b> Device(config-flow-record)# <b>end</b>	Returns to privileged EXEC mode.

## Configuring a Flow Monitor

To configure a flow monitor, perform this procedure.

### SUMMARY STEPS

1. **enable**

2. **configure terminal**
3. **flow monitor** *flow-monitor-name*
4. **cache timeout active** *seconds*
5. **exporter** *flow-exporter-name*
6. **record** *flow-exporter-name*
7. **end**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b> <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode. Enter your password, if prompted.
<b>Step 2</b>	<b>configure terminal</b> <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 3</b>	<b>flow monitor</b> <i>flow-monitor-name</i> <b>Example:</b> Device(config)# <b>flow monitor</b> SWCMon	Defines the flow monitor.
<b>Step 4</b>	<b>cache timeout active</b> <i>seconds</i> <b>Example:</b> Device(config-flow-monitor)# <b>cache timeout active</b> 60	Specifies the active flow timeout in seconds.
<b>Step 5</b>	<b>exporter</b> <i>flow-exporter-name</i> <b>Example:</b> Device(config-flow-monitor)# <b>exporter</b> SWCExp	Exports the flow information to the exporter.
<b>Step 6</b>	<b>record</b> <i>flow-exporter-name</i> <b>Example:</b> Device(config-flow-monitor)# <b>record</b> SWCRec	Specifies the flow record with a basic IPv4 template.
<b>Step 7</b>	<b>end</b> <b>Example:</b> Device(config-flow-monitor)# <b>end</b>	Returns to privileged EXEC mode.

## Applying a Flow to an Interface

To apply a flow to an interface, perform this procedure.

## SUMMARY STEPS

1. **enable**

2. **configure terminal**
3. **interface** *type number*
4. **ip flow monitor** *monitor-name* **input**
5. **ip flow monitor** *monitor-name* **output**
6. **end**

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>enable</b> <b>Example:</b> Device> <b>enable</b>	Enables privileged EXEC mode. Enter your password, if prompted.
Step 2	<b>configure terminal</b> <b>Example:</b> Device# <b>configure terminal</b>	Enters global configuration mode.
Step 3	<b>interface</b> <i>type number</i> <b>Example:</b> Device(config)# <b>interface</b> <b>gigabitethernet</b> 1/0/1	Specifies an interface and enters interface configuration mode.
Step 4	<b>ip flow monitor</b> <i>monitor-name</i> <b>input</b> <b>Example:</b> Device(config-if)# <b>ip flow monitor</b> <b>SWCMon</b> <b>input</b>	Associates an IPv4 flow monitor to the interface for input packets.
Step 5	<b>ip flow monitor</b> <i>monitor-name</i> <b>output</b> <b>Example:</b> Device(config-if)# <b>ip flow monitor</b> <b>SWCMon</b> <b>output</b>	Associates an IPv4 flow monitor to the interface for output packets.
Step 6	<b>end</b> <b>Example:</b> Device(config-if)# <b>end</b>	Exits interface configuration mode and returns to privileged EXEC mode.

## Verifying Network Detection and Response Configuration

Use the following commands in privileged EXEC mode to verify Network Detection and Response configuration.

**Table 1: Commands to Verify Network Detection and Response Configuration**

Command	Purpose
<b>show stealth-watch-cloud detail</b>	Displays the Stealthwatch Cloud registration status and its configured values.

Command	Purpose
<b>show platform software fed switch</b> <i>switch-number</i> <b>swc statistics</b>	Displays the statistical information of the Stealthwatch Cloud integration.
<b>clear platform software fed switch</b> <i>switch-number</i> <b>swc statistics</b>	Clears the statistical information of the Stealthwatch Cloud integration.
<b>show platform software fed switch</b> <i>switch-number</i> <b>swc connection</b>	Displays the connection details and events of the Stealthwatch Cloud integration.
<b>clear platform software fed switch</b> <i>switch-number</i> <b>swc connection</b>	Clears the connection details and events of the Stealthwatch Cloud integration.

## Configuration Examples for Network Detection and Response

The following sections provide configuration examples for Network Detection and Response.

### Example: Configuring and Integrating Stealthwatch Cloud on a Device

The following example shows how to configure and integrate Stealthwatch Cloud on a device:

```

Device> enable
Device# configure terminal
Device(config)# stealthwatch-cloud-monitor
Device(stealthwatch-cloud-monitor)# service-key XXXXXXXXXXXXXXXXXXXX
Device(stealthwatch-cloud-monitor)# sensor-name mysensor
Device(stealthwatch-cloud-monitor)# url https://sensors.eu-2.observbl.com
Device(stealthwatch-cloud-monitor)# exit
Device(config)# flow record SWCRec
Device(config-flow-record)# description for stealthwatch cloud
Device(config-flow-record)# match ipv4 source address
Device(config-flow-record)# match ipv4 destination address
Device(config-flow-record)# match ipv4 protocol
Device(config-flow-record)# match transport source-port
Device(config-flow-record)# match transport destination-port
Device(config-flow-record)# match flow cts source group-tag
Device(config-flow-record)# match flow cts destination group-tag
Device(config-flow-record)# collect counter byte long
Device(config-flow-record)# collect counter packet long
Device(config-flow-record)# collect timestamp absolute first
Device(config-flow-record)# collect timestamp absolute last
Device(config-flow-record)# exit
Device(config)# flow exporter SWCExp
Device(config-flow-exporter)# destination stealthwatch-cloud
Device(config-flow-exporter)# exit
Device(config)# flow monitor SWCMon
Device(config-flow-monitor)# cache timeout active 60
Device(config-flow-monitor)# exporter SWCExp
Device(config-flow-monitor)# record SWCRec
Device(config-flow-monitor)# exit
Device(config)# interface gigabitethernet 1/0/1
Device(config-if)# ip flow monitor SWCMon input

```

```
Device(config-if)# ip flow monitor SWCMon output
Device(config-if)# end
```

## Example: Verifying Stealthwatch Cloud Configuration

The following example shows a sample output of the **show stealthwatch-cloud detail** command:

```
Device> enable
Device# show stealthwatch-cloud detail
=====
Stealthwatch Cloud Parameters
=====
Service Key   : XXXXXXXXXXXXXXXXXXXXXXXX
Sensor Name   : C9200
URL           : https://sensor.eu-prod.obsrvbl.com
=====
Stealthwatch Cloud Sensor Info
=====
Sensor Status : Registered
Last heartbeat : 2020-08-21T10:35:16
```

The following is a sample output of the **show platform fed switch active swc statistics** command:

```
Device> enable
Device# show platform software fed switch active swc statistics
=====
SWC Upload Statistics:
=====
1: Last file uploaded   : 202102100928_1
2: Time of upload      : 02/10/21 09:29:41 UTC
3: Current file uploading :
4: Files queued for upload :
5: Number of files queued : 0
6: Last failed upload   :
7: Files failed to upload : 0
8: Files successfully uploaded : 1
=====
SWC File Creation Statistics:
=====
9: Last file created   : 202102100929_1
10: Time of creation  : 02/10/21 09:29:08 UTC
=====
SWC Flow Statistics:
=====
11: Number of flows in prev file: 15
12: Number of flows in curr file: 11
13: Invalid dropped flows : 0
14: Error dropped flows  : 0
=====
SWC Flags:
=====
15: Is Registered : Registered
16: Delete debug  : Disabled
```

## Example: Verifying Stealthwatch Cloud Configuration

```

17: Exporter delete debug : Disabled
18: Certificate Validation : Enabled

```

The following is a sample output of the **show platform software fed switch active swc connection** command:

```

Device> enable
Device# show platform software fed switch active swc connection
Stealthwatch-Cloud details
  Registration
    #ID          : 0xc000001
    URL          : https://sensor.ext.obsrvbl.com
    Service Key  : XXXXXXXXXXXXXXXXXXXXXXXXXX
    Sensor Name  : C9200
    Registered   : N/A
  Connection
    Status       : DOWN
<<- Status will be in UP state only when the flow uploads into the Stealthwatch Cloud.
    Last status update : 02/09/2021 10:10:47
    # Flaps            : 0
    # Heartbeats       : 0
    # Lost heartbeats  : 0
    Total RX bytes     : 7360
    Total TX bytes     : 869
    Upload Speed (B/s) : 127
    Download Speed (B/s) : 58
    # Open sessions    : 0
    # Redirections     : 0
    # Timeouts         : 0

  HTTP Events
    GET response       : 4
    GET request        : 4
    GET Status Code 2XX : 4
    PUT response       : 12
    PUT request        : 12
    PUT Status Code 2XX : 2
    POST response      : 2
    POST request       : 2
    POST Status Code 2XX : 2

  API Events
    TX                 : 4
    OK                 : 2
    Error              : 2

  Event History
    Timestamp          #Times  Event          RC Context
    -----
    02/10/2021 09:29:41.126 2      SEND_OK        0 ID:0003
    02/10/2021 09:29:39.795 2      SIGNAL_DATA     0 ID:0003
    02/10/2021 09:29:38.279 12     PUT_DATA        0 ID:0003
    02/10/2021 09:29:37.962 4      GET_URL         0 ID:0003
    02/10/2021 09:29:37.961 4      SEND_START      0 ID:0003
    02/10/2021 09:27:41.484 2      SEND_ERR        0 ID:0001

```

```

02/10/2021 09:27:41.484 2      MAX_ATTEMPTS      0 ID:0001
02/10/2021 09:22:53.670 4      REGISTER_OK       0 Not applicable
02/10/2021 09:22:53.670 4      SEND_ABORT_ALL    0 config change
02/10/2021 09:22:53.670 1      OPTIONS_CONFIG    0 File Extension: .csv.gz (reset)
02/10/2021 09:22:53.669 1      OPTIONS_CONFIG    0 Data Type: ios-xe-catalyst
02/10/2021 09:22:53.669 1      OPTIONS_CONFIG    0 URL: https://sensor.ext.obsrvbl.com
(res
02/10/2021 09:22:53.668 1      OPTIONS_CONFIG    0 Sensor Name: niinamdaUS (reset)
02/10/2021 09:22:53.553 1      OPTIONS_CONFIG    0 Service Key:
b5tQtXJM8AGZSp6oB8PvK4H0FiW

```

## Feature History for Network Detection and Response

This table provides release and related information for the features explained in this module.

These features are available in all the releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Bengaluru 17.5.1	Network Detection and Response	Cisco Secure Network Analytics (also known as Stealthwatch Cloud) is a Network Detection and Response solution that provides advanced threat detection, accelerated threat response, and simplified network segmentation

Use the Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>.

