



# 300-435<sup>Q&As</sup>

Automating and Programming Cisco Enterprise Solutions (ENAUTO)

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### QUESTION 1

Refer to the exhibit.

## Monitoring - Alarms Details

GET /alarms/stats Get alarm statistics

Implementation Notes  
Get alarm statistics.

Response Messages

HTTP Status Code	Reason	Response Model
200	Success	
400	Bad request	
403	Forbidden	
500	Internal Server Error	

Request URL  
`https://sandbox-sdwan-1.cisco.com:443/dataservice/alarms/stats`

Response Body

```
{
  "Correlation Engine": {
    "Added Events": 10
  },
  "Link Update Correlator": {
    "Total Events": 8,
    "Added Events": 8,
    "Purged Alarms": 0,
    "Threads": {
      "bfd-state-change": {
        "Current State": "Starting thread",
        "Current Events Counter": 0,
        "Ticks": 0,
        "Total Events Counter": 0,
        "Total DB Counter": 0,

```



```
import requests, urllib3
import json

urllib3.disable_warnings()

url = "https://sandbox-edwan-1.cisco.com"
headers = {"Content-Type": "application/x-www-form-urlencoded"}
credentials = {"j_username": "devnetuser", "j_password": "RG!_Yw919_83"}
cookie_response = requests.post(url + "/j_security_check", headers=headers,
data=credentials, verify=False)
```

An API request must display an alert message if change in OSPF neighbors is detected. Which code snippet must be added to complete the requests?



```
alarm stats = requests.post(url +
                            "/dataservice/alarms/stats",
                            cookies=cookie response.cookies,
                            verify=False)
if alarm stats.status code == 200:
    if json.loads(alarm stats.text)
    ['Correlation Engine']
    ['ospf-neighbor-state-change']
    ['Current State'] != 0:
        print('OSPF neighbor change detected!')
```

```
alarm stats = requests.post(url +
                            "/dataservice/alarms/stats",
                            cookies=cookie response.cookies,
                            verify=False)
if alarm stats.status code == 200:
    if json.loads(alarm stats.text)['Correlation
    Engine']['ospf-neighbor-state-change']
    ['Total Events Counter'] != 0:
        print('OSPF neighbor change detected!')
```

```
alarm stats = requests.post(url +
                            "/dataservice/alarms/stats",
                            cookies=cookie response.cookies,
                            verify=False)
if alarm stats.status code == 200:
    if json.loads(alarm stats.text)
    ['Correlation Engine']
    ['ospf-neighbor-state-change']
    ['Current State'] != 0:
        print('OSPF neighbor change detected!')
```

```
alarm stats = requests.post(url +
                            "/dataservice/alarms/stats",
                            cookies=cookie response.cookies,
                            verify=False)
if alarm stats.status code == 200:
    if json.loads(alarm stats.text)['Correlation
    Engine']['ospf-neighbor-state-change']
    ['Total Events Counter'] != 0:
        print('OSPF neighbor change detected!')
```

A. Option A

B. Option B



C. Option C

D. Option D

Correct Answer: A

---

### QUESTION 2

Which setting is used for the dampening period when configuring an on-change publication for YANG-push versus OpenConfig?

A. null

B. -1

C. 0

D. 1000

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1612/b\\_1612\\_programmability\\_cg/model\\_driven\\_telemetry.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1612/b_1612_programmability_cg/model_driven_telemetry.html)

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### QUESTION 3

Which function is available in NETCONF and unavailable in RESTCONF?

A. configuration changes are automatically activated

B. uses the YANG data models to communicate

C. supports JSON and data encoding

D. validates the content of a candidate datastore

Correct Answer: D

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b\\_169\\_programmability\\_cg/configuring\\_yang\\_datamodel.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b_169_programmability_cg/configuring_yang_datamodel.html)

---

### QUESTION 4



```
telemetry ietf subscription 154
  encoding encode-tdl
  filter xpath /memory-ios-xe-oper:memory-statistics/memory-statistic
  source-vrf Mgmt-intf
  stream yang-push
  update-policy periodic 6000
```

Refer to the exhibit. The configuration commands are entered in CLI config mode to configure a static telemetry subscription on a Cisco IOS XE device. The commands are accepted by the device, but the consumer receives no telemetry data. Which change must be made to ensure that the consumer receives the telemetry data?

- A. The IP address of the receiver must be set.
- B. The stream type must be set to YANG.
- C. The update policy period must be shortened.
- D. The sender IP address must be set.

Correct Answer: B

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b\\_1610\\_programmability\\_cg/model\\_driven\\_telemetry.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b_1610_programmability_cg/model_driven_telemetry.html)

---

## QUESTION 5

DRAG DROP



```
$ pyang -f tree ietf-interfaces.yang
module: ietf-interfaces
  +--rw interfaces
  |   +--rw interface* [name]
  |   |   +--rw name                string
  |   |   +--rw description?       string
  |   |   +--rw type                identityref
  |   |   +--rw enabled?           boolean
  |   |   +--ro statistics
  |   |   |   +--ro discontinuity-time yang:date-and-time
  |   |   |   +--ro in-unicast-pkts?  yang:counter64
  |   |   |   +--ro in-broadcast-pkts? yang:counter64
  |   x--ro interfaces-state
  |   |   x--ro interface* [name]
  |   |   |   x--ro name                string
  |   |   |   x--ro type                identityref
  |   |   |   x--ro admin-status       enumeration {if-mib}?
  |   |   |   x--ro oper-status       enumeration
  |   |   |   x--ro statistics
  |   |   |   |   x--ro discontinuity-time yang:date-and-time
  |   |   |   |   x--ro in-octets?      yang:counter64
  |   |   |   |   x--ro in-unicast-pkts? yang:counter64
```

Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to complete the ncclient request that captures the operational data of the interfaces of a Cisco IOS XE device. Options may be used once, more than once, or not at all.

Select and Place:



```
from ncclient import manager
import xml.dom.minidom

USERNAME = 'cisco'
PASSWORD = 'cisco'
HOST = '10.10.20.181'

data = '''
  < [ ] xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    < [ ] >
      <statistics></statistics>
    </ [ ] >
  </ [ ] >
'''

with manager.connect(host=HOST, password=PASSWORD, port=830, username=USERNAME,
                    hostkey_verify=False, device_params={'name': 'iosxe'}) as m:
    c = m.get(filter=(" [ ] ", data)).data_xml

    xml = xml.dom.minidom.parseString(c)
    xml_pretty_str = xml.toprettyxml()
    print(xml_pretty_str)
```

interfaces-state

interface-state

interfaces

xpath

subtree

interface

Correct Answer:





```
from ncclient import manager
import xml.dom.minidom

USERNAME = 'cisco'
PASSWORD = 'cisco'
HOST = '10.10.20.181'

data = '''
  < interfaces-state xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    < xpath >
      <statistics></statistics>
    </ interface >
  </ interfaces-state >
'''

with manager.connect(host=HOST, password=PASSWORD, port=830, username=USERNAME,
                    hostkey_verify=False, device_params={'name':'iosxe'}) as m:
    c = m.get(filter=(" subtree ", data)).data_xml

    xml = xml.dom.minidom.parseString(c)
    xml_pretty_str = xml.toprettyxml()
    print(xml_pretty_str)
```

interfaces-state

interface-state

interfaces

xpath

subtree

interface

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