

Modelos de YANG do achado no Software Cisco IOS XR (cXR e eXR)

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Introdução

Este original descreve como encontrar contudo uns outros modelos da próxima geração (YANG) em um roteador. A fim saber que YANG modela é apoiado em uma liberação particular de Cisco IOS® XR pode ser fastidioso, e os novos modelos são adicionados de vez em quando ou os modelos atuais são mudados. Para a referência, você pode igualmente encontrar modelos de YANG no github, mas não puderam ser atualizados.

Está aqui uma relação ao repositório do github. [repositório do github](#)

Modelos de YANG do achado no XR

Está aqui um exemplo onde você tem dois modelos que não são resolved:

```
RP/0/RSP0/CPU0:ASR9904-B#show telemetry model-driven subscription 1
```

```
Mon Apr 30 04:33:42.421 EST
```

```
Subscription: 1
```

```
-----
```

```
State:          NOT ACTIVE
```

```
Sensor groups:
```

```
Id: Memory
```

```
Sample Interval: 10000 ms
```

```
Sensor Path:     Cisco-IOS®-XR-nto-misc-oper:memory-summary/nodes/node/summary
```

```
Sensor Path State: Not Resolved
```

```
Sensor Path:     Cisco-IOS®-XR-procmem-oper:processes-memory/nodes/node/process-ids/process-id
```

```
Sensor Path State: Not Resolved
```

Grupos da coleção:

```
-----
```

```
No active collection groups
```

The first thing to do after going into the shell is to change directories to /pkg/yang. This is where the yang models are stored.

The models we specified in the configuration are not resolved because the models do not exist on the router as we can see from the 'ls' commands. When we search for the 'procmem' yang model for instance we see that it has changed from Cisco-IOS®-XR-procmem-oper to Cisco-IOS®-XR-nto-misc-shprocmem-oper.

However, we should examine this file further to see if anything else has changed in the model structure.

```
As we can see with this model the container/list process-ids/process-id has changed to job-ids/job-id. RP/0/RSP0/CPU0:ASR9904-B# RP/0/RSP0/CPU0:ASR9904-B# RP/0/RSP0/CPU0:ASR9904-B#run Mon Apr 30 04:34:04.911 EST # cd /pkg/yang # ls -l Cisco-IOS®-XR-nto-misc-oper* ls: No such file or directory (Cisco-IOS-XR-nto-misc-oper*) # ls -l Cisco-IOS®-XR-procmem-oper* ls: No such file or directory (Cisco-IOS-XR-procmem-oper*) # ls -l Cisco-IOS®-XR-nto-misc* -rw-r--r-- 2 13707 25 4320 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shmem-oper-sub1.yang -rw-r--r-- 2 13707 25 1732 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shmem-oper.yang -rw-r--r-- 2 13707 25 1388 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shprocmem-oper-sub1.yang -rw-r--r-- 2 13707 25 1719 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shprocmem-oper.yang # ls -l Cisco-IOS®-XR*procmem* -rw-r--r-- 2 13707 25 1388 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shprocmem-oper-sub1.yang -rw-r--r-- 2 13707 25 1719 Jun 29 2017 Cisco-IOS®-XR-nto-misc-shprocmem-oper.yang # # more Cisco-IOS®-XR-nto-misc-shprocmem-oper.yang module Cisco-IOS®-XR-nto-misc-shprocmem-oper { /**/ namespace "http://cisco.com/ns/yang"+ "/Cisco-IOS®-XR-nto-misc-shprocmem-oper"; prefix "nto-misc-shprocmem-oper"; /**/ LINKAGE (IMPORTS / INCLUDES) /**/ import Cisco-IOS®-XR-types { prefix "xr"; } include Cisco-IOS®-XR-nto-misc-shprocmem-oper-sub1 { revision-date 2015-11-09; } /**/ META INFORMATION /**/ organization "Cisco Systems, Inc."; contact "Cisco Systems, Inc. Customer Service Postal: 170 West Tasman Drive San Jose, CA 95134 Tel: +1 800 553-NETS E-mail: cs-yang@cisco.com"; description "This module contains a collection of YANG definitions for Cisco IOS®-XR nto-misc-shprocmem package operational data. This module contains definitions for the following management objects: processes-memory: Process statistics Copyright (c) 2013-2016 by Cisco Systems, Inc. All rights reserved."; revision "2015-11-09" { description "IOS® XR 6.0 revision."; } container processes-memory { config false; description "Process statistics"; container nodes { description "List of nodes"; list node { key "node-name"; description "Node ID"; container job-ids { description "List of jobs"; list job-id { key "job-id"; description "Job Id"; leaf job-id { type int32; description "Job Id"; } uses PROCESSESMEMORY-ENTRY; } } leaf node-name { type xr:Node-id; description "Node name"; } } } } # exit
```

Depois que você compromete estas mudanças, você pode ver que os dois modelos estão resolvidos agora.

São aqui igualmente alguns exemplos que mostra que parte do trajeto do sensor pode ser especificado e o recipiente dos trabalho-ids deve ser especificado para a Cisco-IOS®-XR-NTO-MISC-SHPROCMEEm-operação e não os processo-ids.

```
RP/0/RSP0/CPU0:ASR9904-B#show telemetry model-driven subscription 1
Tue May 1 06:33:15.986 EST
Subscription: 1
-----
State:          NOT ACTIVE
Sensor groups:
Id: Memory
  Sample Interval:      10000 ms
  Sensor Path:          Cisco-IOS®-XR-nto-misc-oper:memory-summary/nodes/node/summary
  Sensor Path State:    Not Resolved
  Sensor Path:          Cisco-IOS®-XR-nto-misc-shmem-oper:memory-summary
  Sensor Path State:    Resolved
  Sensor Path:          Cisco-IOS®-XR-nto-shmem-misc-oper:memory-summary
```

```
Sensor Path State:    Not Resolved
Sensor Path:          Cisco-IOS@-XR-nto-misc-shmem-oper:memory-summary/nodes/node/summary
Sensor Path State:    Resolved
Sensor Path:          Cisco-IOS@-XR-nto-misc-shprocmem-oper:processes-
memory/nodes/node/process-ids/process-id
Sensor Path State:    Not Resolved
Sensor Path:          Cisco-IOS@-XR-nto-misc-shprocmem-oper:processes-memory/nodes/node/job-
ids/job-id
Sensor Path State:    Resolved
Sensor Path:          Cisco-IOS@-XR-procmem-oper:processes-memory/nodes/node/process-
ids/process-id
Sensor Path State:    Not Resolved

Collection Groups:
-----
No active collection groups
```

Modelos de YANG do achado no modo Admin (eXR)

Os mesmos diretores podem ser aplicados a fim encontrar um modelo de YANG no XR ao modo admin, a única diferença são o trajeto.

O trajeto onde os modelos de YANG são encontrados está aqui:
`/opt/cisco/calvados/1.00/etc/confd/yang`