

MGX交换机SNMP走配置示例

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简介

本文在有一个用户配置的SNMP组的Cisco MGX交换机描述如何执行简单网络管理协议(SNMP)走。

[先决条件](#)

[要求](#)

Cisco建议您符合此要求，在您尝试此配置前：在MGX的InPci接口配置的IP地址一定是可及的从您打算执行SNMP走的系统。

[使用的组件](#)

本文根据与PXM45C的一MGX8850作为处理器卡。然而，本文不限于特定软件和硬件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

[背景](#)

当您轮询与SNMP时的—Object Identifier (OID)在MGX的一个公共专用组走，工作良好(请参阅输出)。但是，如果定义了一个新的SNMP组并且进行走，您接受超时。

```
MGX.7.PXM.a > dspsnmpgroups
```

GroupName	SecurityModel	SecurityLevel
public	SNMPV1	NoAuthNoPriv
private	SNMPV1	NoAuthNoPriv
cisco_group	SNMPV3	AuthPriv
trapCommunity	SNMPV1	NoAuthNoPriv

```
snmp_server% snmpwalk -Os -c public -v1 192.168.2.2 system
sysDescr.0 = STRING: Cisco MGX8880 Media Gateway
sysObjectID.0 = OID: enterprises.9.1.598
sysUpTimeInstance = Timeticks: (497996272) 57 days, 15:19:22.72
sysContact.0 = STRING:
sysName.0 = STRING: MGX
sysLocation.0 = STRING:
sysServices.0 = INTEGER: 72
```

```
snmp_server% snmpwalk -Os -c private -v1 192.168.2.2 system
sysDescr.0 = STRING: Cisco MGX8850 Wide Area Switch
sysObjectID.0 = OID: enterprises.9.1.228
sysUpTimeInstance = Timeticks: (10648330) 1 day, 5:34:43.30
sysContact.0 = STRING:
sysName.0 = STRING: MGX
sysLocation.0 = STRING:
sysServices.0 = INTEGER: 72
```

限制

默认情况下，SNMP在MGX在公共和专用的SNMP组走仅允许。

配置

完成这些步骤为了配置。

1. 添加一个新的SNMP组(例如测试)用addsnmpgroup命令。

```
MGX.7.PXM.a > addsnmpgroup
```

```
Syntax: addsnmpgroup <groupName> <securityModel> <securityLevel>
```

```
groupName -- String with length less than 33 characters
securityModel -- 1 - snmpv1, 3 - usm (snmpv3)
securityLevel -- 1 - noAuthNoPriv, 2 - authNoPriv, 3 - authPriv
(for securityModel = snmpv1, securityLevel has to be 1)
read -- String with length less than 33 characters
write -- String with length less than 33 characters
notify -- String with length less than 33 characters
(for SII, use SII-RW-VIEW as Read & Write view and SII-TRAP-VIEW
as Notify view)
```

```
MGX.7.PXM.a > addsnmpgroup test 1 1 >>> Adding SNMP group named 'test' for
SNMPv1 and noAuthNoPriv.
```

```
MGX.7.PXM.a > dspsnmpgroups
```

GroupName	SecurityModel	SecurityLevel
-----------	---------------	---------------

```

-----
test                SNMPV1                NoAuthNoPriv
public              SNMPV1                NoAuthNoPriv
private             SNMPV1                NoAuthNoPriv
cisco_group         SNMPV3                AuthPriv
trapCommunity       SNMPV1                NoAuthNoPriv

```

2. 执行SNMP走。

```
MGX.7.PXM.a > addsnmpgroup
```

```
Syntax:  addsnmpgroup <groupName> <securityModel> <securityLevel>
```

```

groupName -- String with length less than 33 characters
securityModel -- 1 - snmpv1, 3 - usm (snmpv3)
securityLevel -- 1 - noAuthNoPriv, 2 - authNoPriv, 3 - authPriv
(for securityModel = snmpv1, securityLevel has to be 1)
read -- String with length less than 33 characters
write -- String with length less than 33 characters
notify -- String with length less than 33 characters
(for SII, use SII-RW-VIEW as Read & Write view and SII-TRAP-VIEW
as Notify view)

```

```
MGX.7.PXM.a > addsnmpgroup test 1 1 >>> Adding SNMP group named 'test' for
SNMPv1 and noAuthNoPriv.
```

```
MGX.7.PXM.a > dspsnmpgroups
```

```

          GroupName                SecurityModel        SecurityLevel
-----
test                SNMPV1                NoAuthNoPriv
public              SNMPV1                NoAuthNoPriv
private             SNMPV1                NoAuthNoPriv
cisco_group         SNMPV3                AuthPriv
trapCommunity       SNMPV1                NoAuthNoPriv

```

在此工作情况后的原因是与SNMP的OID走仅工作公共和专用组的(作为描述了限制部分)。

3. 配置SNMP团体。

```
MGX.7.PXM.a > dspsnmp
```

```

MGX                               System Rev: 05.05   May. 10, 2014 03:16:57 GMT
MGX8850                           Node Alarm: MAJOR

```

```

Community (rw):      private
Community (ro):      public
System Location:
System Contact:

```

4. 添加测试到读/写权限。

```
MGX.7.PXM.a > cnfsnmp community
```

```
ERR: Syntax: cnfsnmp community <string> [ro|rw]
```

```
cnfssnmp contact [string] -- a printable string of 0-255 characters
cnfssnmp location [string] -- a printable string of 0-255 characters
```

```
MGX.7.PXM.a > cnfssnmp community test rw
```

```
M5.7.PXM.a > dspsnmp
```

```
MGX System Rev: 05.05 May. 05, 2014 05:05:02 GMT
MGX8850 Node Alarm: CRITICAL
```

```
Community (rw): test >>>>>>>>>>earlier it was private
Community (ro): public
System Location:
System Contact:
```

验证

请使用此部分为了验证您的配置适当地工作。

1. 验证SNMP组测试被添加。

```
MGX.7.PXM.a > dspsnmpgroups
```

GroupName	SecurityModel	SecurityLevel
test	SNMPV1	NoAuthNoPriv
public	SNMPV1	NoAuthNoPriv
private	SNMPV1	NoAuthNoPriv
cisco_group	SNMPV3	AuthPriv
trapCommunity	SNMPV1	NoAuthNoPriv

2. 检查SNMP组社区。

```
M5.7.PXM.a > dspsnmp
```

```
MGX System Rev: 05.05 May. 05, 2014 05:05:02 GMT
MGX8850 Node Alarm: CRITICAL
```

```
Community (rw): test >>>>>>>>>>earlier it was private
Community (ro): public
System Location:
System Contact:
```

3. 执行SNMP再走与测试社区。

```
M5.7.PXM.a > dspsnmp
```

```
MGX System Rev: 05.05 May. 05, 2014 05:05:02 GMT
MGX8850 Node Alarm: CRITICAL
```

```
Community (rw): test >>>>>>>>>>earlier it was private
Community (ro): public
System Location:
System Contact:
```

故障排除

目前没有针对此配置故障排除信息。

相关信息

- [Cisco MGX 8800/8900系列软件配置指南版本5.5.10](#)
- [技术支持和文档 - Cisco Systems](#)