

Como Medir a Temperatura do Ambiente em um Catalyst 6500/6000 Usando SNMP

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[Introdução](#)

Este documento explica o processo para se obter os valores de temperatura do Cisco Catalyst 6500/6000. O comando da interface de linha de comando (CLI) show environment temperature com uso do Simple Network Management Protocol (SNMP), exibe esses valores.

[Pré-requisitos](#)

[Requisitos](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Catalyst 6500/6000 series switch:Esse OS do catalizador da corrida (Cactos) — apoio [CISCO-ENTITY-SENSOR-MIB](#) até à data da versão de Software de módulo do Supervisor Engine inicial.Refira a [lista de suporte MIB do OS do catalizador do catalizador 6000 e 7600](#).Esse suporte de software [CISCO-ENTITY-SENSOR-MIB de](#) Cisco IOS® da corrida até à data do Cisco IOS Software Release 12.1(8a)EX.Refira a [lista de suporte MIB do Cisco IOS do catalizador 6000 e 7600](#) para a verificação.**Note:** Os sensores do dispositivo 1 e do dispositivo 2 têm o apoio até à data do Cisco IOS Software Release 12.1(14)E. Veja a [saída](#)

[do comando show environment temperature através da](#) seção [CLI](#) deste documento.

- Liberação 5.5.7 de Cactos
- SNMPWalk do HP OpenView Network Node Manager, instalado em Sun Solaris 2.7 Você pode igualmente usar utilitários SNMP do Rede-[SNMP](#) por esse motivo.

Note: Este documento usa este MIBs:

- [CISCO-ENTITY-SENSOR-MIB](#)
- [ENTITY-MIB-V1SMI](#)

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Convenções

Consulte as [Convenções de Dicas Técnicas da Cisco](#) para obter mais informações sobre convenções de documentos.

Procedimento

Conclua estes passos:

1. Use o **entSensorValue** do identificador de objeto (OID) (**1.3.6.1.4.1.9.9.91.1.1.1.1.4**) para obter os valores de temperatura. Este OID vem do CISCO-ENTITY-SENSOR-MIB. Para todos os OID restantes que se relacionam a este MIB, veja a [visão geral do IODs na](#) seção [CISCO-ENTITY-SENSOR-MIB](#) deste documento. O MIB fornece esta descrição:

```
entSensorValue OBJECT-TYPE
    SYNTAX SensorValue
    --      Rsyntax INTEGER(-1000000000..1000000000)
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "This variable reports the most recent measurement seen
        by the sensor.

        To correctly display or interpret this variable's value,
        you must also know entSensorType, entSensorScale, and
        entSensorPrecision.

        However, you can compare entSensorValue with the threshold
        values given in entSensorThresholdTable without any semantic
        knowledge."
    ::= { entSensorValueEntry 4 }
```

Pergunte o dispositivo para o **entSensorValue (1.3.6.1.4.1.9.9.91.1.1.1.1.4)**. Neste exemplo, o nome de host do dispositivo é **zatar**:

```
#snmpwalk -c public zatar 1.3.6.1.4.1.9.9.91.1.1.1.1.4
9.9.91.1.1.1.1.4.15 : INTEGER: 1
9.9.91.1.1.1.1.4.16 : INTEGER: 1
9.9.91.1.1.1.1.4.17 : INTEGER: 2
9.9.91.1.1.1.1.4.18 : INTEGER: 1
9.9.91.1.1.1.1.4.19 : INTEGER: 20
9.9.91.1.1.1.1.4.20 : INTEGER: 1
9.9.91.1.1.1.1.4.21 : INTEGER: 21
9.9.91.1.1.1.1.4.22 : INTEGER: 1
```

```

9.9.91.1.1.1.1.4.23 : INTEGER: 20
9.9.91.1.1.1.1.4.1001 : INTEGER: 19
9.9.91.1.1.1.1.4.1002 : INTEGER: 28
9.9.91.1.1.1.1.4.1003 : INTEGER: 22
9.9.91.1.1.1.1.4.1004 : INTEGER: 28
9.9.91.1.1.1.1.4.1007 : INTEGER: 19
9.9.91.1.1.1.1.4.1008 : INTEGER: 23
9.9.91.1.1.1.1.4.1009 : INTEGER: 0
9.9.91.1.1.1.1.4.1010 : INTEGER: 0
9.9.91.1.1.1.1.4.2001 : INTEGER: 16
9.9.91.1.1.1.1.4.2002 : INTEGER: 25
9.9.91.1.1.1.1.4.2003 : INTEGER: 26
9.9.91.1.1.1.1.4.2004 : INTEGER: 0
9.9.91.1.1.1.1.4.3001 : INTEGER: 17
9.9.91.1.1.1.1.4.3002 : INTEGER: 20
9.9.91.1.1.1.1.4.3003 : INTEGER: 19
9.9.91.1.1.1.1.4.3004 : INTEGER: 24
9.9.91.1.1.1.1.4.4001 : INTEGER: 25
9.9.91.1.1.1.1.4.4002 : INTEGER: 29
9.9.91.1.1.1.1.4.4003 : INTEGER: 0
9.9.91.1.1.1.1.4.4004 : INTEGER: 0
9.9.91.1.1.1.1.4.5001 : INTEGER: 20
9.9.91.1.1.1.1.4.5002 : INTEGER: 20
9.9.91.1.1.1.1.4.5003 : INTEGER: 0
9.9.91.1.1.1.1.4.5004 : INTEGER: 0
#

```

2. Determine como ligar todos os valores de temperatura ao módulo correto no catalizador. Por exemplo, o que faz o deslocamento predeterminado 9.9.91.1.1.1.1.4.1001: INTEGER: 0 que significa 19? A fim encontrar, você deve ir acima de um nível na árvore. Salte um nível de 1.3.6.1.4.1.9.91.1.1.1.4 de volta a 1.3.6.1.4.1.9.91.1.1.1; deixe cair os 4 na extremidade. Isto tr a-lo ao **entSensorValueEntry (1.3.6.1.4.1.9.91.1.1.1)**. O MIB fornece esta descri o:

```

#snmpwalk -c public zatar 1.3.6.1.4.1.9.91.1.1.1.4
9.9.91.1.1.1.1.4.15 : INTEGER: 1
9.9.91.1.1.1.1.4.16 : INTEGER: 1
9.9.91.1.1.1.1.4.17 : INTEGER: 2
9.9.91.1.1.1.1.4.18 : INTEGER: 1
9.9.91.1.1.1.1.4.19 : INTEGER: 20
9.9.91.1.1.1.1.4.20 : INTEGER: 1
9.9.91.1.1.1.1.4.21 : INTEGER: 21
9.9.91.1.1.1.1.4.22 : INTEGER: 1
9.9.91.1.1.1.1.4.23 : INTEGER: 20
9.9.91.1.1.1.1.4.1001 : INTEGER: 19
9.9.91.1.1.1.1.4.1002 : INTEGER: 28
9.9.91.1.1.1.1.4.1003 : INTEGER: 22
9.9.91.1.1.1.1.4.1004 : INTEGER: 28
9.9.91.1.1.1.1.4.1007 : INTEGER: 19
9.9.91.1.1.1.1.4.1008 : INTEGER: 23
9.9.91.1.1.1.1.4.1009 : INTEGER: 0
9.9.91.1.1.1.1.4.1010 : INTEGER: 0
9.9.91.1.1.1.1.4.2001 : INTEGER: 16
9.9.91.1.1.1.1.4.2002 : INTEGER: 25
9.9.91.1.1.1.1.4.2003 : INTEGER: 26
9.9.91.1.1.1.1.4.2004 : INTEGER: 0
9.9.91.1.1.1.1.4.3001 : INTEGER: 17
9.9.91.1.1.1.1.4.3002 : INTEGER: 20
9.9.91.1.1.1.1.4.3003 : INTEGER: 19
9.9.91.1.1.1.1.4.3004 : INTEGER: 24
9.9.91.1.1.1.1.4.4001 : INTEGER: 25
9.9.91.1.1.1.1.4.4002 : INTEGER: 29
9.9.91.1.1.1.1.4.4003 : INTEGER: 0
9.9.91.1.1.1.1.4.4004 : INTEGER: 0

```

```
9.9.91.1.1.1.1.4.5001 : INTEGER: 20
9.9.91.1.1.1.1.4.5002 : INTEGER: 20
9.9.91.1.1.1.1.4.5003 : INTEGER: 0
9.9.91.1.1.1.1.4.5004 : INTEGER: 0
#
```

A descrição mostra que este OID usa deslocamentos predeterminados, como você vê no **snmpwalk 1001, 1002**, e assim por diante. A descrição **entSensorValueEntry** mostra um outro OID, o **entPhysicalIndex**, que fornece um outro MIB, o ENTITY-MIB.

```
#snmpwalk -c public zatar 1.3.6.1.4.1.9.9.91.1.1.1.1.4
```

```
9.9.91.1.1.1.1.4.15 : INTEGER: 1
9.9.91.1.1.1.1.4.16 : INTEGER: 1
9.9.91.1.1.1.1.4.17 : INTEGER: 2
9.9.91.1.1.1.1.4.18 : INTEGER: 1
9.9.91.1.1.1.1.4.19 : INTEGER: 20
9.9.91.1.1.1.1.4.20 : INTEGER: 1
9.9.91.1.1.1.1.4.21 : INTEGER: 21
9.9.91.1.1.1.1.4.22 : INTEGER: 1
9.9.91.1.1.1.1.4.23 : INTEGER: 20
9.9.91.1.1.1.1.4.1001 : INTEGER: 19
9.9.91.1.1.1.1.4.1002 : INTEGER: 28
9.9.91.1.1.1.1.4.1003 : INTEGER: 22
9.9.91.1.1.1.1.4.1004 : INTEGER: 28
9.9.91.1.1.1.1.4.1007 : INTEGER: 19
9.9.91.1.1.1.1.4.1008 : INTEGER: 23
9.9.91.1.1.1.1.4.1009 : INTEGER: 0
9.9.91.1.1.1.1.4.1010 : INTEGER: 0
9.9.91.1.1.1.1.4.2001 : INTEGER: 16
9.9.91.1.1.1.1.4.2002 : INTEGER: 25
9.9.91.1.1.1.1.4.2003 : INTEGER: 26
9.9.91.1.1.1.1.4.2004 : INTEGER: 0
9.9.91.1.1.1.1.4.3001 : INTEGER: 17
9.9.91.1.1.1.1.4.3002 : INTEGER: 20
9.9.91.1.1.1.1.4.3003 : INTEGER: 19
9.9.91.1.1.1.1.4.3004 : INTEGER: 24
9.9.91.1.1.1.1.4.4001 : INTEGER: 25
9.9.91.1.1.1.1.4.4002 : INTEGER: 29
9.9.91.1.1.1.1.4.4003 : INTEGER: 0
9.9.91.1.1.1.1.4.4004 : INTEGER: 0
9.9.91.1.1.1.1.4.5001 : INTEGER: 20
9.9.91.1.1.1.1.4.5002 : INTEGER: 20
9.9.91.1.1.1.1.4.5003 : INTEGER: 0
9.9.91.1.1.1.1.4.5004 : INTEGER: 0
#
```

O **entPhysicalIndex** vem do ENTITY-MIB. O ENTITY-MIB fornece esta descrição do **entPhysicalIndex**:

```
#snmpwalk -c public zatar 1.3.6.1.4.1.9.9.91.1.1.1.1.4
```

```
9.9.91.1.1.1.1.4.15 : INTEGER: 1
9.9.91.1.1.1.1.4.16 : INTEGER: 1
9.9.91.1.1.1.1.4.17 : INTEGER: 2
9.9.91.1.1.1.1.4.18 : INTEGER: 1
9.9.91.1.1.1.1.4.19 : INTEGER: 20
9.9.91.1.1.1.1.4.20 : INTEGER: 1
9.9.91.1.1.1.1.4.21 : INTEGER: 21
9.9.91.1.1.1.1.4.22 : INTEGER: 1
9.9.91.1.1.1.1.4.23 : INTEGER: 20
9.9.91.1.1.1.1.4.1001 : INTEGER: 19
9.9.91.1.1.1.1.4.1002 : INTEGER: 28
9.9.91.1.1.1.1.4.1003 : INTEGER: 22
9.9.91.1.1.1.1.4.1004 : INTEGER: 28
9.9.91.1.1.1.1.4.1007 : INTEGER: 19
9.9.91.1.1.1.1.4.1008 : INTEGER: 23
9.9.91.1.1.1.1.4.1009 : INTEGER: 0
```

```

9.9.91.1.1.1.1.4.1010 : INTEGER: 0
9.9.91.1.1.1.1.4.2001 : INTEGER: 16
9.9.91.1.1.1.1.4.2002 : INTEGER: 25
9.9.91.1.1.1.1.4.2003 : INTEGER: 26
9.9.91.1.1.1.1.4.2004 : INTEGER: 0
9.9.91.1.1.1.1.4.3001 : INTEGER: 17
9.9.91.1.1.1.1.4.3002 : INTEGER: 20
9.9.91.1.1.1.1.4.3003 : INTEGER: 19
9.9.91.1.1.1.1.4.3004 : INTEGER: 24
9.9.91.1.1.1.1.4.4001 : INTEGER: 25
9.9.91.1.1.1.1.4.4002 : INTEGER: 29
9.9.91.1.1.1.1.4.4003 : INTEGER: 0
9.9.91.1.1.1.1.4.4004 : INTEGER: 0
9.9.91.1.1.1.1.4.5001 : INTEGER: 20
9.9.91.1.1.1.1.4.5002 : INTEGER: 20
9.9.91.1.1.1.1.4.5003 : INTEGER: 0
9.9.91.1.1.1.1.4.5004 : INTEGER: 0

```

#

Desta descrição, você pode outra vez ir uma etapa para trás na árvore e concluir que o **entPhysicalIndex** vem do **entPhysicalEntry**.

3. Pergunta para o **entPhysicalIndex (1.3.6.1.2.1.47.1.1.1.1.1)** e então o **entPhysicalDescr (1.3.6.1.2.1.47.1.1.1.1.2)**. Este comando dá-lhe a descrição de 1001, 1002, 1003, 1004, e assim por diante:

```
#snmpwalk -c public zatar 1.3.6.1.2.1.47.1.1.1.1.2
```

```

47.1.1.1.1.2.1 : OCTET STRING- (ascii): Cisco Systems WS-C6506 6 slot switch
47.1.1.1.1.2.2 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.3 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.4 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.5 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.6 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.7 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.8 : OCTET STRING- (ascii): WS-C6506 6 slot switch backplane
47.1.1.1.1.2.9 : OCTET STRING- (ascii): Container of power supply group
47.1.1.1.1.2.10 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.11 : OCTET STRING- (ascii): power supply
47.1.1.1.1.2.12 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.14 : OCTET STRING- (ascii): Container of Fan
47.1.1.1.1.2.15 : OCTET STRING- (ascii): Fan
47.1.1.1.1.2.16 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.17 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.18 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.19 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.20 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.21 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.22 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.23 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.1000 : OCTET STRING- (ascii): WS-X6K-SUP1A-2GE 1000BaseX
Supervisor Rev. 3.1
47.1.1.1.1.2.1001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.1002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.1003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.1004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.1005 : OCTET STRING- (ascii): L3 Switching Engine Container
47.1.1.1.1.2.1006 : OCTET STRING- (ascii): L3 Switching Engine
47.1.1.1.1.2.1007 : OCTET STRING- (ascii): L3 SE Intake Temp Sensor
47.1.1.1.1.2.1008 : OCTET STRING- (ascii): L3 SE Exhaust Temp Sensor
47.1.1.1.1.2.1009 : OCTET STRING- (ascii): L3 SE device1 Temp Sensor
47.1.1.1.1.2.1010 : OCTET STRING- (ascii): L3 SE device2 Temp Sensor
47.1.1.1.1.2.1011 : OCTET STRING- (ascii): CPU of supervisor
47.1.1.1.1.2.1012 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1013 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1014 : OCTET STRING- (ascii): Container of Router Switch

```

Feature Card

47.1.1.1.1.2.2000	: OCTET STRING- (ascii):	WS-X6182-2PA FlexWAN Module Rev. 1.3
47.1.1.1.1.2.2001	: OCTET STRING- (ascii):	Module Intake Temp Sensor
47.1.1.1.1.2.2002	: OCTET STRING- (ascii):	Module Exhaust Temp Sensor
47.1.1.1.1.2.2003	: OCTET STRING- (ascii):	Module Device 1 Temp Sensor
47.1.1.1.1.2.2004	: OCTET STRING- (ascii):	Module Device 2 Temp Sensor
47.1.1.1.1.2.3000	: OCTET STRING- (ascii):	WS-X6248-RJ-45 10/100BaseTX Ethernet Rev. 1.1
47.1.1.1.1.2.3001	: OCTET STRING- (ascii):	Module Intake Temp Sensor
47.1.1.1.1.2.3002	: OCTET STRING- (ascii):	Module Exhaust Temp Sensor
47.1.1.1.1.2.3003	: OCTET STRING- (ascii):	Module Device 1 Temp Sensor
47.1.1.1.1.2.3004	: OCTET STRING- (ascii):	Module Device 2 Temp Sensor
47.1.1.1.1.2.3005	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3006	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3007	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3008	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3009	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3010	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3011	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3012	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3013	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3014	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3015	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3016	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3017	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3018	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3019	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3020	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3021	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3022	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3023	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3024	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3025	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3026	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3027	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3028	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3029	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3030	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3031	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3032	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3033	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3034	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3035	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3036	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3037	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3038	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3039	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3040	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3041	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3042	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3043	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3044	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3045	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3046	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3047	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3048	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3049	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3050	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3051	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.3052	: OCTET STRING- (ascii):	10/100BaseTX
47.1.1.1.1.2.4000	: OCTET STRING- (ascii):	Router Switch feature Card
47.1.1.1.1.2.4001	: OCTET STRING- (ascii):	RSFC Intake Temp Sensor
47.1.1.1.1.2.4002	: OCTET STRING- (ascii):	RSFC Temp Sensor

```

47.1.1.1.1.2.4003 : OCTET STRING- (ascii): RSFC device1 Temp Sensor
47.1.1.1.1.2.4004 : OCTET STRING- (ascii): RSFC device2 Temp Sensor
47.1.1.1.1.2.4005 : OCTET STRING- (ascii): Route Switch
47.1.1.1.1.2.5000 : OCTET STRING- (ascii): WS-X6380-NAM Network Analysis
Module Rev. 1.1
47.1.1.1.1.2.5001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.5002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.5003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.5004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.5005 : OCTET STRING- (ascii): Net Analysis
47.1.1.1.1.2.5006 : OCTET STRING- (ascii): Net Analysis
#

```

Agora, você ligou os deslocamentos predeterminados à descrição e ligou os deslocamentos predeterminados aos valores de temperatura.

4. Faça o link entre os valores de temperatura e a descrição.Extraia esta informação de etapa 3:

```

#snmpwalk -c public zatar 1.3.6.1.2.1.47.1.1.1.1.2
47.1.1.1.1.2.1 : OCTET STRING- (ascii): Cisco Systems WS-C6506 6 slot switch
47.1.1.1.1.2.2 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.3 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.4 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.5 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.6 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.7 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.8 : OCTET STRING- (ascii): WS-C6506 6 slot switch backplane
47.1.1.1.1.2.9 : OCTET STRING- (ascii): Container of power supply group
47.1.1.1.1.2.10 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.11 : OCTET STRING- (ascii): power supply
47.1.1.1.1.2.12 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.14 : OCTET STRING- (ascii): Container of Fan
47.1.1.1.1.2.15 : OCTET STRING- (ascii): Fan
47.1.1.1.1.2.16 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.17 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.18 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.19 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.20 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.21 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.22 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.23 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.1000 : OCTET STRING- (ascii): WS-X6K-SUP1A-2GE 1000BaseX
Supervisor Rev. 3.1
47.1.1.1.1.2.1001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.1002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.1003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.1004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.1005 : OCTET STRING- (ascii): L3 Switching Engine Container
47.1.1.1.1.2.1006 : OCTET STRING- (ascii): L3 Switching Engine
47.1.1.1.1.2.1007 : OCTET STRING- (ascii): L3 SE Intake Temp Sensor
47.1.1.1.1.2.1008 : OCTET STRING- (ascii): L3 SE Exhaust Temp Sensor
47.1.1.1.1.2.1009 : OCTET STRING- (ascii): L3 SE device1 Temp Sensor
47.1.1.1.1.2.1010 : OCTET STRING- (ascii): L3 SE device2 Temp Sensor
47.1.1.1.1.2.1011 : OCTET STRING- (ascii): CPU of supervisor
47.1.1.1.1.2.1012 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1013 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1014 : OCTET STRING- (ascii): Container of Router Switch
Feature Card
47.1.1.1.1.2.2000 : OCTET STRING- (ascii): WS-X6182-2PA FlexWAN Module Rev.
1.3
47.1.1.1.1.2.2001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.2002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.2003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.2004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor

```

47.1.1.1.1.2.3000 : OCTET STRING- (ascii): WS-X6248-RJ-45 10/100BaseTX
Ethernet Rev. 1.1

47.1.1.1.1.2.3001 : OCTET STRING- (ascii): Module Intake Temp Sensor

47.1.1.1.1.2.3002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor

47.1.1.1.1.2.3003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor

47.1.1.1.1.2.3004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor

47.1.1.1.1.2.3005 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3006 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3007 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3008 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3009 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3010 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3011 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3012 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3013 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3014 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3015 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3016 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3017 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3018 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3019 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3020 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3021 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3022 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3023 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3024 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3025 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3026 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3027 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3028 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3029 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3030 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3031 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3032 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3033 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3034 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3035 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3036 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3037 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3038 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3039 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3040 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3041 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3042 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3043 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3044 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3045 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3046 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3047 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3048 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3049 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3050 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3051 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.3052 : OCTET STRING- (ascii): 10/100BaseTX

47.1.1.1.1.2.4000 : OCTET STRING- (ascii): Router Switch feature Card

47.1.1.1.1.2.4001 : OCTET STRING- (ascii): RSFC Intake Temp Sensor

47.1.1.1.1.2.4002 : OCTET STRING- (ascii): RSFC Temp Sensor

47.1.1.1.1.2.4003 : OCTET STRING- (ascii): RSFC device1 Temp Sensor

47.1.1.1.1.2.4004 : OCTET STRING- (ascii): RSFC device2 Temp Sensor

47.1.1.1.1.2.4005 : OCTET STRING- (ascii): Route Switch

47.1.1.1.1.2.5000 : OCTET STRING- (ascii): WS-X6380-NAM Network Analysis
Module Rev. 1.1

47.1.1.1.1.2.5001 : OCTET STRING- (ascii): Module Intake Temp Sensor

47.1.1.1.1.2.5002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor


```

47.1.1.1.1.2.5003 : OCTET STRING- (ascii):      Module Device 1 Temp Sensor
47.1.1.1.1.2.5004 : OCTET STRING- (ascii):      Module Device 2 Temp Sensor
47.1.1.1.1.2.5005 : OCTET STRING- (ascii):      Net Analysis
47.1.1.1.1.2.5006 : OCTET STRING- (ascii):      Net Analysis
#

```

E extraia esta informação de etapa 1:

```

#snmpwalk -c public zatar 1.3.6.1.2.1.47.1.1.1.2
47.1.1.1.1.2.1 : OCTET STRING- (ascii): Cisco Systems WS-C6506 6 slot switch
47.1.1.1.1.2.2 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.3 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.4 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.5 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.6 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.7 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.8 : OCTET STRING- (ascii): WS-C6506 6 slot switch backplane
47.1.1.1.1.2.9 : OCTET STRING- (ascii): Container of power supply group
47.1.1.1.1.2.10 : OCTET STRING- (ascii):      Container of power supply
47.1.1.1.1.2.11 : OCTET STRING- (ascii):      power supply
47.1.1.1.1.2.12 : OCTET STRING- (ascii):      Container of power supply
47.1.1.1.1.2.14 : OCTET STRING- (ascii):      Container of Fan
47.1.1.1.1.2.15 : OCTET STRING- (ascii):      Fan
47.1.1.1.1.2.16 : OCTET STRING- (ascii):      Clock
47.1.1.1.1.2.17 : OCTET STRING- (ascii):      Clock
47.1.1.1.1.2.18 : OCTET STRING- (ascii):      VTT
47.1.1.1.1.2.19 : OCTET STRING- (ascii):      VTT Temp Sensor
47.1.1.1.1.2.20 : OCTET STRING- (ascii):      VTT
47.1.1.1.1.2.21 : OCTET STRING- (ascii):      VTT Temp Sensor
47.1.1.1.1.2.22 : OCTET STRING- (ascii):      VTT
47.1.1.1.1.2.23 : OCTET STRING- (ascii):      VTT Temp Sensor
47.1.1.1.1.2.1000 : OCTET STRING- (ascii): WS-X6K-SUP1A-2GE 1000BaseX
Supervisor Rev. 3.1
47.1.1.1.1.2.1001 : OCTET STRING- (ascii):      Module Intake Temp Sensor
47.1.1.1.1.2.1002 : OCTET STRING- (ascii):      Module Exhaust Temp Sensor
47.1.1.1.1.2.1003 : OCTET STRING- (ascii):      Module Device 1 Temp Sensor
47.1.1.1.1.2.1004 : OCTET STRING- (ascii):      Module Device 2 Temp Sensor
47.1.1.1.1.2.1005 : OCTET STRING- (ascii):      L3 Switching Engine Container
47.1.1.1.1.2.1006 : OCTET STRING- (ascii):      L3 Switching Engine
47.1.1.1.1.2.1007 : OCTET STRING- (ascii):      L3 SE Intake Temp Sensor
47.1.1.1.1.2.1008 : OCTET STRING- (ascii):      L3 SE Exhaust Temp Sensor
47.1.1.1.1.2.1009 : OCTET STRING- (ascii):      L3 SE device1 Temp Sensor
47.1.1.1.1.2.1010 : OCTET STRING- (ascii):      L3 SE device2 Temp Sensor
47.1.1.1.1.2.1011 : OCTET STRING- (ascii):      CPU of supervisor
47.1.1.1.1.2.1012 : OCTET STRING- (ascii):      Ethernet Gigabit port interface
47.1.1.1.1.2.1013 : OCTET STRING- (ascii):      Ethernet Gigabit port interface
47.1.1.1.1.2.1014 : OCTET STRING- (ascii):      Container of Router Switch
Feature Card
47.1.1.1.1.2.2000 : OCTET STRING- (ascii):      WS-X6182-2PA FlexWAN Module Rev.
1.3
47.1.1.1.1.2.2001 : OCTET STRING- (ascii):      Module Intake Temp Sensor
47.1.1.1.1.2.2002 : OCTET STRING- (ascii):      Module Exhaust Temp Sensor
47.1.1.1.1.2.2003 : OCTET STRING- (ascii):      Module Device 1 Temp Sensor
47.1.1.1.1.2.2004 : OCTET STRING- (ascii):      Module Device 2 Temp Sensor
47.1.1.1.1.2.3000 : OCTET STRING- (ascii):      WS-X6248-RJ-45 10/100BaseTX
Ethernet Rev. 1.1
47.1.1.1.1.2.3001 : OCTET STRING- (ascii):      Module Intake Temp Sensor
47.1.1.1.1.2.3002 : OCTET STRING- (ascii):      Module Exhaust Temp Sensor
47.1.1.1.1.2.3003 : OCTET STRING- (ascii):      Module Device 1 Temp Sensor
47.1.1.1.1.2.3004 : OCTET STRING- (ascii):      Module Device 2 Temp Sensor
47.1.1.1.1.2.3005 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3006 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3007 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3008 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3009 : OCTET STRING- (ascii):      10/100BaseTX

```

```

47.1.1.1.1.2.3010 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3011 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3012 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3013 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3014 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3015 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3016 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3017 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3018 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3019 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3020 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3021 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3022 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3023 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3024 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3025 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3026 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3027 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3028 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3029 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3030 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3031 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3032 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3033 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3034 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3035 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3036 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3037 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3038 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3039 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3040 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3041 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3042 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3043 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3044 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3045 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3046 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3047 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3048 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3049 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3050 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3051 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3052 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.4000 : OCTET STRING- (ascii): Router Switch feature Card
47.1.1.1.1.2.4001 : OCTET STRING- (ascii): RSFC Intake Temp Sensor
47.1.1.1.1.2.4002 : OCTET STRING- (ascii): RSFC Temp Sensor
47.1.1.1.1.2.4003 : OCTET STRING- (ascii): RSFC device1 Temp Sensor
47.1.1.1.1.2.4004 : OCTET STRING- (ascii): RSFC device2 Temp Sensor
47.1.1.1.1.2.4005 : OCTET STRING- (ascii): Route Switch
47.1.1.1.1.2.5000 : OCTET STRING- (ascii): WS-X6380-NAM Network Analysis
Module Rev. 1.1
47.1.1.1.1.2.5001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.5002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.5003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.5004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.5005 : OCTET STRING- (ascii): Net Analysis
47.1.1.1.1.2.5006 : OCTET STRING- (ascii): Net Analysis
#

```

O resultado dá-o: Sensor temp da Entrada de Módulo = 19C
Module Exhaust Temp Sensor = 28C
Sensor de temp. do dispositivo 1 do módulo = 22C
Sensor de Temperatura do Dispositivo de Módulo 2 = 28C

Visão geral do IODs no CISCO-ENTITY-SENSOR-MIB

```
#snmpwalk -c public zatar 1.3.6.1.2.1.47.1.1.1.1.2
47.1.1.1.1.2.1 : OCTET STRING- (ascii): Cisco Systems WS-C6506 6 slot switch
47.1.1.1.1.2.2 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.3 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.4 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.5 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.6 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.7 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.8 : OCTET STRING- (ascii): WS-C6506 6 slot switch backplane
47.1.1.1.1.2.9 : OCTET STRING- (ascii): Container of power supply group
47.1.1.1.1.2.10 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.11 : OCTET STRING- (ascii): power supply
47.1.1.1.1.2.12 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.14 : OCTET STRING- (ascii): Container of Fan
47.1.1.1.1.2.15 : OCTET STRING- (ascii): Fan
47.1.1.1.1.2.16 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.17 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.18 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.19 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.20 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.21 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.22 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.23 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.1000 : OCTET STRING- (ascii): WS-X6K-SUP1A-2GE 1000BaseX
Supervisor Rev. 3.1
47.1.1.1.1.2.1001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.1002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.1003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.1004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.1005 : OCTET STRING- (ascii): L3 Switching Engine Container
47.1.1.1.1.2.1006 : OCTET STRING- (ascii): L3 Switching Engine
47.1.1.1.1.2.1007 : OCTET STRING- (ascii): L3 SE Intake Temp Sensor
47.1.1.1.1.2.1008 : OCTET STRING- (ascii): L3 SE Exhaust Temp Sensor
47.1.1.1.1.2.1009 : OCTET STRING- (ascii): L3 SE device1 Temp Sensor
47.1.1.1.1.2.1010 : OCTET STRING- (ascii): L3 SE device2 Temp Sensor
47.1.1.1.1.2.1011 : OCTET STRING- (ascii): CPU of supervisor
47.1.1.1.1.2.1012 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1013 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1014 : OCTET STRING- (ascii): Container of Router Switch
Feature Card
47.1.1.1.1.2.2000 : OCTET STRING- (ascii): WS-X6182-2PA FlexWAN Module Rev.
1.3
47.1.1.1.1.2.2001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.2002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.2003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.2004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.3000 : OCTET STRING- (ascii): WS-X6248-RJ-45 10/100BaseTX
Ethernet Rev. 1.1
47.1.1.1.1.2.3001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.3002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.3003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.3004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.3005 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3006 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3007 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3008 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3009 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3010 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3011 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3012 : OCTET STRING- (ascii): 10/100BaseTX
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47.1.1.1.1.2.3013 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3014 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3015 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3016 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3017 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3018 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3019 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3020 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3021 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3022 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3023 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3024 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3025 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3026 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3027 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3028 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3029 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3030 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3031 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3032 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3033 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3034 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3035 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3036 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3037 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3038 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3039 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3040 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3041 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3042 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3043 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3044 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3045 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3046 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3047 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3048 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3049 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3050 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3051 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3052 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.4000 : OCTET STRING- (ascii): Router Switch feature Card
47.1.1.1.1.2.4001 : OCTET STRING- (ascii): RSFC Intake Temp Sensor
47.1.1.1.1.2.4002 : OCTET STRING- (ascii): RSFC Temp Sensor
47.1.1.1.1.2.4003 : OCTET STRING- (ascii): RSFC device1 Temp Sensor
47.1.1.1.1.2.4004 : OCTET STRING- (ascii): RSFC device2 Temp Sensor
47.1.1.1.1.2.4005 : OCTET STRING- (ascii): Route Switch
47.1.1.1.1.2.5000 : OCTET STRING- (ascii): WS-X6380-NAM Network Analysis
Module Rev. 1.1
47.1.1.1.1.2.5001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.5002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.5003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.5004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.5005 : OCTET STRING- (ascii): Net Analysis
47.1.1.1.1.2.5006 : OCTET STRING- (ascii): Net Analysis
#

```

[Visão geral do IODs no ENTITY-MIB](#)

```

#snmpwalk -c public zatar 1.3.6.1.2.1.47.1.1.1.1.2
47.1.1.1.1.2.1 : OCTET STRING- (ascii): Cisco Systems WS-C6506 6 slot switch
47.1.1.1.1.2.2 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.3 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.4 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot

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47.1.1.1.1.2.5 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.6 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.7 : OCTET STRING- (ascii): WS-C6506 6 slot switch chassis slot
47.1.1.1.1.2.8 : OCTET STRING- (ascii): WS-C6506 6 slot switch backplane
47.1.1.1.1.2.9 : OCTET STRING- (ascii): Container of power supply group
47.1.1.1.1.2.10 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.11 : OCTET STRING- (ascii): power supply
47.1.1.1.1.2.12 : OCTET STRING- (ascii): Container of power supply
47.1.1.1.1.2.14 : OCTET STRING- (ascii): Container of Fan
47.1.1.1.1.2.15 : OCTET STRING- (ascii): Fan
47.1.1.1.1.2.16 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.17 : OCTET STRING- (ascii): Clock
47.1.1.1.1.2.18 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.19 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.20 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.21 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.22 : OCTET STRING- (ascii): VTT
47.1.1.1.1.2.23 : OCTET STRING- (ascii): VTT Temp Sensor
47.1.1.1.1.2.1000 : OCTET STRING- (ascii): WS-X6K-SUP1A-2GE 1000BaseX
Supervisor Rev. 3.1
47.1.1.1.1.2.1001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.1002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.1003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.1004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.1005 : OCTET STRING- (ascii): L3 Switching Engine Container
47.1.1.1.1.2.1006 : OCTET STRING- (ascii): L3 Switching Engine
47.1.1.1.1.2.1007 : OCTET STRING- (ascii): L3 SE Intake Temp Sensor
47.1.1.1.1.2.1008 : OCTET STRING- (ascii): L3 SE Exhaust Temp Sensor
47.1.1.1.1.2.1009 : OCTET STRING- (ascii): L3 SE device1 Temp Sensor
47.1.1.1.1.2.1010 : OCTET STRING- (ascii): L3 SE device2 Temp Sensor
47.1.1.1.1.2.1011 : OCTET STRING- (ascii): CPU of supervisor
47.1.1.1.1.2.1012 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1013 : OCTET STRING- (ascii): Ethernet Gigabit port interface
47.1.1.1.1.2.1014 : OCTET STRING- (ascii): Container of Router Switch
Feature Card
47.1.1.1.1.2.2000 : OCTET STRING- (ascii): WS-X6182-2PA FlexWAN Module Rev.
1.3
47.1.1.1.1.2.2001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.2002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.2003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.2004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.3000 : OCTET STRING- (ascii): WS-X6248-RJ-45 10/100BaseTX
Ethernet Rev. 1.1
47.1.1.1.1.2.3001 : OCTET STRING- (ascii): Module Intake Temp Sensor
47.1.1.1.1.2.3002 : OCTET STRING- (ascii): Module Exhaust Temp Sensor
47.1.1.1.1.2.3003 : OCTET STRING- (ascii): Module Device 1 Temp Sensor
47.1.1.1.1.2.3004 : OCTET STRING- (ascii): Module Device 2 Temp Sensor
47.1.1.1.1.2.3005 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3006 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3007 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3008 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3009 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3010 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3011 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3012 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3013 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3014 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3015 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3016 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3017 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3018 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3019 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3020 : OCTET STRING- (ascii): 10/100BaseTX
47.1.1.1.1.2.3021 : OCTET STRING- (ascii): 10/100BaseTX

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47.1.1.1.1.2.3022 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3023 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3024 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3025 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3026 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3027 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3028 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3029 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3030 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3031 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3032 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3033 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3034 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3035 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3036 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3037 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3038 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3039 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3040 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3041 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3042 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3043 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3044 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3045 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3046 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3047 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3048 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3049 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3050 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3051 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.3052 : OCTET STRING- (ascii):      10/100BaseTX
47.1.1.1.1.2.4000 : OCTET STRING- (ascii):      Router Switch feature Card
47.1.1.1.1.2.4001 : OCTET STRING- (ascii):      RSFC Intake Temp Sensor
47.1.1.1.1.2.4002 : OCTET STRING- (ascii):      RSFC Temp Sensor
47.1.1.1.1.2.4003 : OCTET STRING- (ascii):      RSFC device1 Temp Sensor
47.1.1.1.1.2.4004 : OCTET STRING- (ascii):      RSFC device2 Temp Sensor
47.1.1.1.1.2.4005 : OCTET STRING- (ascii):      Route Switch
47.1.1.1.1.2.5000 : OCTET STRING- (ascii):      WS-X6380-NAM Network Analysis
Module Rev. 1.1
47.1.1.1.1.2.5001 : OCTET STRING- (ascii):      Module Intake Temp Sensor
47.1.1.1.1.2.5002 : OCTET STRING- (ascii):      Module Exhaust Temp Sensor
47.1.1.1.1.2.5003 : OCTET STRING- (ascii):      Module Device 1 Temp Sensor
47.1.1.1.1.2.5004 : OCTET STRING- (ascii):      Module Device 2 Temp Sensor
47.1.1.1.1.2.5005 : OCTET STRING- (ascii):      Net Analysis
47.1.1.1.1.2.5006 : OCTET STRING- (ascii):      Net Analysis
#

```

[Saída do comando show environment temperature pelo CLI](#)

Note: Você deve reagir do modo enable a fim emitir o comando show environment temperature.

```
zatar> (enable)#show environment temperature
```

Slot	Intake Temperature	Exhaust Temperature	Device 1 Temperature	Device 2 Temperature
1	19C(50C,65C)	28C(60C,75C)	21C	27C
2	20C(50C,65C)	20C(60C,75C)	N/A	N/A
3	16C(50C,65C)	25C(60C,75C)	26C(70C,85C)	N/A
4	17C(50C,65C)	20C(60C,75C)	19C	24C
1 (Switch-Eng)	19C(50C,65C)	23C(60C,75C)	N/A	N/A
1 (MSFC)	24C(50C,65C)	29C(60C,75C)	N/A	N/A

```
Chassis Modules
-----
VTT1: 20C(85C,100C)
VTT2: 21C(85C,100C)
VTT3: 19C(85C,100C)
zatar> (enable)
```

Troubleshooting

O interruptor envia o [no] do ciscoEnvMonTemperatureStatusDescr=module

O interruptor envia a mensagem do [no] do ciscoEnvMonTemperatureStatusDescr=Module SNMP como uma notificação que a temperatura que é medida em um ponto de teste dado é fora do intervalo normal para o ponto de teste. A escala pode estar em uma destas fases:

- Aviso
- Crítico
- Fechamento

A opção da escala do status atual na armadilha da notificação de SNMP especifica em qual destas três escalas da temperatura o módulo se encontra. A opção da duração da verificação na armadilha da notificação de SNMP especifica a duração do tempo para que a temperatura do interruptor está acima do intervalo normal.

Se o status atual da temperatura no ponto de teste do módulo está no estágio de parada, o interruptor fechou automaticamente o módulo. As mensagens do [no] do ciscoEnvMonTemperatureStatusDescr = do módulo são mensagens informativa.

A ação alternativa sugerida para evitar edições inesperadas é assegurar-se de que a temperatura em torno do interruptor esteja mantida dentro dos padrões operacionais que as [especificações de módulo](#) especificam. Veja a [saída do comando show environment temperature através da seção CLI](#) deste documento a fim fazer esta determinação de temperatura. Também, seja certo que os fãs internos no interruptor trabalham normalmente.

Informações Relacionadas

- [TechNotes do projeto dos Serviços de aplicação IP](#)
- [Monitoramento ambiental que administra o interruptor](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)