

對思科C9350系列智慧交換機上的PoE進行故障排除

簡介

本檔案介紹如何收集並擷取輸出和記錄，以對Cisco C9350系列智慧交換器上的乙太網路供電 (PoE)進行疑難排解。

C9350上的PoE功能概述

C9350 PoE SKU

C9350產品	PoE埠數	每個埠的最大PoE功率
C9350-48HX	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

C9350 PoE的新功能

- 在C9350-HX裝置的所有埠上最多支援90W (以前，由於電源預算限制，C9300X/H只有32個埠)。
- 三個電源插槽 (C9300中為2個)。這增加了可用的PoE功率預算，使C9350-48HX交換機在所有48個埠上提供高達90W的功率。

- True Institute of Electrical and Electronics Engineers(IEEE)BT相容韌體
無AT模式到BT模式的轉換，反之亦然。同一BT韌體在30W SKU中以2對模式運行，在60W和90W SKU中以4對模式運行（不建議使用upoe-plus命令）。
- 整合微控制器單元(MCU)映像（MCU硬體位流、開機載入器和軟體應用捆綁成單一二進位制）。
在Catalyst 9300中，每個映像都是單獨的，每個映像需花費360秒，因此升級將按順序進行。
- 從I2C升級到MCU上的SPI介面。
這允許更快的MCU軟體升級~110秒（以前，在Catalyst 9300上，每個映像的升級速度約為360秒）。
SPI介面比I2C速度更快，允許我們進行未來的增強，從而全面最佳化PoE功能。
- MCU UART介面。
這允許我們從MCU獲取調試日誌（無需依賴具有調試映像的快照或自定義暫存器轉儲）。

C9350上用於故障排除/日誌收集的增強的可維護性功能

新的可維護性功能在C9350上實施，用於PoE故障排除，有助於更可靠、更快速地從現場解決問題。

PoE控制器暫存器資料整合到「show tech-support」 PoE CLI中

```
show platform frontend-controller read-poe <poe_controller#> module <module#>
```

```
C9350-24U_SWITC#show tech-support poe | redirect flash:show_tech_poe_27Jan2026.txt
C9350-24U_SWITC#more flash:show_tech_poe_27Jan2026.txt | include --- show
----- show clock -----
----- show switch -----
----- show module -----
----- show version -----
----- show running-config -----
----- show env all -----
----- show power inline -----
----- show power inline police -----
----- show interface status -----
----- show platform software ilpower details -----
----- show stack-power budgeting -----
----- show stack-power detail -----
----- show controllers ethernet-controller phy detail -----
----- show controllers power inline -----
----- show cdp neighbors detail -----
----- show lldp neighbors detail -----
----- show interface -----
----- show log -----
```

```

----- show power inline priority -----
----- show post -----
----- show controllers power inline module 1 -----
----- show platform frontend-controller version 0 1 -----
----- show platform frontend-controller manager 0 1 -----
----- show platform frontend-controller subordinate 0 1 -----
----- show platform hardware fed switch 1 fwd-asic register read register-name pimdeviceid
----- show platform software trace message chassis-manager switch 1 R0 -----
----- show platform software trace message fed switch 1 -----
----- show platform software ilpower system 1 -----
----- show power inline Gi1/0/1 detail -----
----- show power inline Gi1/0/2 detail -----
----- show power inline Gi1/0/3 detail -----
----- show power inline Gi1/0/4 detail -----
----- show power inline Gi1/0/5 detail -----
----- show power inline Gi1/0/6 detail -----
----- show power inline Gi1/0/7 detail -----
----- show power inline Gi1/0/8 detail -----
----- show power inline Gi1/0/9 detail -----
----- show power inline Gi1/0/10 detail -----
----- show power inline Gi1/0/11 detail -----
----- show power inline Gi1/0/12 detail -----
----- show power inline Gi1/0/13 detail -----
----- show power inline Gi1/0/14 detail -----
----- show power inline Gi1/0/15 detail -----
----- show power inline Gi1/0/16 detail -----
----- show power inline Gi1/0/17 detail -----
----- show power inline Gi1/0/18 detail -----
----- show power inline Gi1/0/19 detail -----
----- show power inline Gi1/0/20 detail -----
----- show power inline Gi1/0/21 detail -----
----- show power inline Gi1/0/22 detail -----
----- show power inline Gi1/0/23 detail -----
----- show power inline Gi1/0/24 detail -----
----- show platform frontend-controller read-poe 1 module 1 -----
----- show platform frontend-controller read-poe 2 module 1 -----
----- show platform frontend-controller read-poe 3 module 1 -----
----- show platform frontend-controller read-poe 4 module 1 -----
----- show platform frontend-controller read-poe 5 module 1 -----
----- show platform frontend-controller read-poe 6 module 1 -----
----- show platform frontend-controller read-poe 7 module 1 -----
----- show platform frontend-controller read-poe 8 module 1 -----
----- show platform frontend-controller read-poe 9 module 1 -----
----- show platform frontend-controller read-poe 10 module 1 -----
----- show platform frontend-controller read-poe 11 module 1 -----
----- show platform frontend-controller read-poe 12 module 1 -----
C9350-24U_SWITCH#

```

單埠記錄

- 此功能可幫助收集與一個特定埠有關的日誌。
- 此功能通過重新載入持續有效，直到通過CLI明確禁用。
- 日誌輸出儲存在chassis-manager btrace日誌檔案(cmand)中
- 日誌記錄基礎結構可能過多，請確保在調試日誌收集完成後禁用該功能。如果未能如此，可能會導致在故障排除完成後用該特定埠的PoE日誌填充命令跟蹤。

- 要啟用單埠日誌記錄，請執行以下操作：

```
Switch#set platform software ilpower switch <switch number> r0 logging <port number> level <basic|detail>
Switch#set platform software ilpower switch <switch number> r0 logging <port number> action <start|stop>
```

<< sample btrace log collection on a working PoE port >>

```
C9350-24U_SWITCH#sh runn int gi1/0/10
Building configuration...
```

```
Current configuration : 49 bytes
!
interface GigabitEthernet1/0/10
 shutdown
end
```

```
C9350-24U_SWITCH#
C9350-24U_SWITCH#show power inline gi1/0/10
Interface Admin Oper      Power  Device          Class Max
              (Watts)
-----
Gi1/0/10  auto  off          0.0    n/a              n/a  60.0
C9350-24U_SWITCH#
```

```
C9350-24U_SWITCH#
C9350-24U_SWITCH#set platform software ilpower switch 1 r0 logging 10 level ?
  basic  Basic level logging
  detail Detailed level logging
```

```
C9350-24U_SWITCH#
C9350-24U_SWITCH#set platform software ilpower switch 1 r0 logging 10 level detail
Inline power port level logging configured for port 10
C9350-24U_SWITCH#
```

```
C9350-24U_SWITCH#sh clock
*10:20:20.609 UTC Fri Jan 23 2026
C9350-24U_SWITCH#
```

```
C9350-24U_SWITCH#
C9350-24U_SWITCH#set platform software ilpower switch 1 r0 logging action start
Inline power port level logging enabled
C9350-24U_SWITCH#
```

```
C9350-24U_SWITCH#
C9350-24U_SWITCH#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
C9350-24U_SWITCH(config)#int gi1/0/10
C9350-24U_SWITCH(config-if)#no sh
C9350-24U_SWITCH(config-if)#no shutdown
C9350-24U_SWITCH(config-if)#end
*Jan 23 10:20:53.297: %ILPOWER-5-DETECT: Interface Gi1/0/10: Power Device detected: IEEE PD
C9350-24U_SWITCH#
*Jan 23 10:20:53.297: %ILPOWER-6-SET_AVAILABLE_ILPOWER: Available POE budget for switch 1 is updated. N
*Jan 23 10:20:54.048: %SYS-5-CONFIG_I: Configured from console by console
*Jan 23 10:20:54.125: %LINK-3-UPDOWN: Interface GigabitEthernet1/0/10, changed state to down
*Jan 23 10:20:55.296: %ILPOWER-5-POWER_GRANTED: Interface Gi1/0/10: Power granted
C9350-24U_SWITCH#
C9350-24U_SWITCH#
```

```

*Jan 23 10:21:12.948: %LINK-3-UPDOWN: Interface GigabitEthernet1/0/10, changed state to up
*Jan 23 10:21:13.947: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/10, changed state to up
C9350-24U_SWITCH#
C9350-24U_SWITCH#
*Jan 23 10:21:24.299: %ILPOWER-5-PWRGOOD_SPARE_PAIR: Interface Gi1/0/10: spare pair power good
*Jan 23 10:21:24.615: %ILPOWER-6-SET_AVAILABLE_ILPOWER: Available POE budget for switch 1 is updated. New available power is 60.000 Watts
*Jan 23 10:21:25.841: %ILPOWER-6-SET_AVAILABLE_ILPOWER: Available POE budget for switch 1 is updated. New available power is 60.000 Watts

```

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#show power inline gi1/0/10
Interface Admin Oper Power Device Class Max
(Watts)
-----
Gi1/0/10 auto on 10.8 IP Phone 9951 4 60.0

```

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#set platform software ilpower switch 1 r0 logging action stop
Inline power port level logging disabled
C9350-24U_SWITCH#

```

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#show logging process cmand
Logging display requested on 2026/01/23 10:22:32 (UTC) for Hostname: [C9350-24U_SWITCH], Model: [C9350-24U_SWITCH]

```

```

Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds
executing cmd on chassis: 1; rp slot: 0; location: local ...
Unified Decoder Library Init .. DONE
Found 1 UTF Streams

```

```

2026/01/23 10:20:48.689503387 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER]
2026/01/23 10:20:48.689518893 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER]
2026/01/23 10:20:48.689538070 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:20:48.689551248 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:20:52.126411347 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_detect[
2026/01/23 10:20:52.126447840 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poe_l
2026/01/23 10:20:52.126461454 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:52.126470725 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:52.126479263 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 ##Aut
2026/01/23 10:20:52.126487198 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 ### C
2026/01/23 10:20:52.126508214 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Sendi
2026/01/23 10:20:52.126518186 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Sendi
2026/01/23 10:20:52.131624642 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 got r
2026/01/23 10:20:52.675581516 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:52.675593817 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD
2026/01/23 10:20:52.675601825 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set i
2026/01/23 10:20:52.675612377 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:20:52.675628214 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD
2026/01/23 10:20:52.675635631 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:20:53.296919219 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 GetEv
2026/01/23 10:20:53.296929611 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:53.296941387 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Signa
2026/01/23 10:20:53.296957972 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 RE_PO
2026/01/23 10:20:53.298452740 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:20:53.298471493 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:20:53.298480242 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.298969050 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_ieee_pw
2026/01/23 10:20:53.298982584 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poe_l
2026/01/23 10:20:53.298992385 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:53.299000345 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1

```

2026/01/23 10:20:53.299008271 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:53.299017875 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 IEE_P
2026/01/23 10:20:53.299025406 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.299125162 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:20:53.299170516 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:20:53.299205659 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:20:53.299244221 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:20:53.299277286 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:20:53.299314212 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:20:53.301891274 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:53.301901034 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Sendi
2026/01/23 10:20:53.305323953 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 got r
2026/01/23 10:20:53.305347756 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
2026/01/23 10:20:53.305356903 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:20:53.305370040 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.305378512 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
2026/01/23 10:20:53.305386913 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:20:53.305394249 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.305406255 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
2026/01/23 10:20:53.305414696 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:20:53.305422332 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.950355766 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:53.950367359 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 state
2026/01/23 10:20:53.950375549 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD
2026/01/23 10:20:53.950383251 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set i
2026/01/23 10:20:53.950393459 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:20:54.487897374 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Port
2026/01/23 10:20:54.487908264 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 state
2026/01/23 10:20:54.487916551 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD
2026/01/23 10:20:54.487924497 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set i
2026/01/23 10:20:54.487933966 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:20:54.925917874 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Got P
2026/01/23 10:20:54.928723879 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Setti
2026/01/23 10:20:54.928734395 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SSPD:
2026/01/23 10:20:54.931603151 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SSPD:
2026/01/23 10:20:54.934410290 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1
2026/01/23 10:20:55.296578019 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 Signa
2026/01/23 10:20:55.296595839 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 RE_PO
2026/01/23 10:20:56.620237271 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:57.040914750 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:57.463796249 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:57.886470191 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:58.309246877 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:58.689977359 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:20:58.689992754 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:20:58.690011267 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:20:58.690022359 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:20:58.690047165 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:20:58.732273956 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:59.153644777 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:59.576018028 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:20:59.998579904 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:00.421013727 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:00.842362071 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:01.263014284 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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2026/01/23 10:21:28.897220844 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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2026/01/23 10:21:29.318772153 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:29.318782837 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:29.641679413 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:29.641716465 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:29.641821969 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:21:29.641841843 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:29.641852868 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:29.641854033 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:29.641866077 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:29.641879531 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:29.641880360 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:21:29.641891955 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:29.641901014 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:29.641907892 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:29.641910851 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:29.641921879 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:29.741997805 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:29.742007814 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:30.163997555 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:30.164007463 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:30.585218800 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:30.585228498 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:30.772118357 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:30.772170395 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:30.772281078 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:21:30.772316580 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:30.772328405 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:30.772329943 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:30.772339999 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:30.772354334 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:30.772378327 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po
2026/01/23 10:21:30.772410151 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:30.772419762 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:30.772428625 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:30.772477925 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:30.772497599 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:31.008355521 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:31.008364982 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:31.429638497 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:31.429648022 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:31.852023095 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:31.852032715 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:32.021660470 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:32.021711508 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:32.021832006 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po

2026/01/23 10:21:36.924479169 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:37.346463200 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:37.346472811 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:37.768619161 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:37.768630637 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:38.191683097 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:38.191693992 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:38.613463963 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:38.613475052 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:38.691932861 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:21:38.691946846 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:21:38.691962981 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:21:38.691973713 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:21:38.691986858 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:21:39.035856533 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:39.035864387 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:39.458248509 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:39.458258319 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:39.879564500 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:39.879575263 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:40.301699226 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:40.301709087 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:40.723429466 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:40.723440122 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.146696541 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.146706414 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.568999331 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.569010211 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.992197422 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:41.992207934 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:42.415301238 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:42.415311985 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:42.851943363 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:42.851952518 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:43.275363936 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:43.275375189 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:43.697580998 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:43.697597957 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:44.119639101 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:44.119648499 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE

=====
===== Unified Trace Decoder Information/Statistics =====

----- Decoder Input Information -----

=====
Num of Unique Streams .. 1
Total UTF To Process ... 1
Total UTM To Process ... 120224
UTM Process Filter cmand
MRST Filter Rules 1

----- Decoder Output Information -----

=====
First UTM TimeStamp 2026/01/23 09:09:55.879706826
Last UTM TimeStamp 2026/01/23 10:22:31.358035957
UTM [Skipped / Rendered / Total] .. 119782 / 442 / 120224
UTM [ENCODED] 442
UTM [PLAIN TEXT] 0
UTM [DYN LIB] 0
UTM [MODULE ID] 0
UTM [TDL TAN] 16
UTM [APP CONTEXT] 0

```

UTM [MARKER] ..... 0
UTM [PCAP] ..... 0
UTM [LUID NOT FOUND] ..... 0
UTM Level [EMERGENCY / ALERT / CRITICAL / ERROR] .. 0 / 0 / 0 / 0
UTM Level [WARNING / NOTICE / INFO / DEBUG] ..... 0 / 442 / 0 / 0
UTM Level [VERBOSE / NOISE / INVALID] ..... 0 / 0 / 0
=====

```

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#sh cdp neigh g1/0/10 det
-----

```

```

Device ID: SEPD42C447E4A9F
Entry address(es):
  IP address: 192.168.1.115
Platform: Cisco IP Phone 9951, Capabilities: Host Phone Two-port Mac Relay
Interface: GigabitEthernet1/0/10, Port ID (outgoing port): Port 1
Holdtime : 141 sec
Second Port Status: Down

```

```

Version :
sip9951.9-4-2SR2-2

```

```

advertisement version: 2
Peer Source MAC: d42c.447e.4a9f
Duplex: full
Power drawn: 10.802 Watts
Power request id: 40779, Power management id: 4
Power request levels are:10802 0 0 0 0 <----- CDP requested power
Spare Pair PoE: Yes, Spare Pair Detection Required: No
Spare Pair PD Config: Enable, Spare Pair PSE Operational: Yes

```

```

Total cdp entries displayed : 1

```

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#sh power inlin g1/0/10

```

Interface	Admin	Oper	Power (Watts)	Device	Class	Max
Gi1/0/10	auto	on	10.8	IP Phone 9951	4	60.0

```

C9350-24U_SWITCH#
C9350-24U_SWITCH#
C9350-24U_SWITCH#sh power inlin g1/0/10 det
Interface: Gi1/0/10
Inline Power Mode: auto
Operational status (Alt-A,B): on,on
Device Detected: yes
Device Type: Cisco IP Phone 9951
Connection Check: SS
IEEE Class (Alt-A,B): 4
Physical Assigned Class (Alt-A,B): 4
Discovery mechanism used/configured: Ieee and Cisco
Police: off

```

```

Power Allocated
Admin Value: 60.0
Power drawn from the source: 10.8
Power available to the device: 10.8
Allocated Power (Alt-A,B): 10.8

```

Actual consumption
Measured at the port(watts) (Alt-A,B): 5.8
Maximum Power drawn by the device since powered on: 6.0

Absent Counter: 0
Over Current Counter: 0
Short Current Counter: 0
Invalid Signature Counter: 0
Power Denied Counter: 0

Power Negotiation Used: CDP
LLDP Power Negotiation --Sent to PD-- --Rcvd from PD--
Power Type: - -
Power Source: - -
Power Priority: - -
Requested Power(W): - -
Allocated Power(W): - -

Four-Pair PoE Supported: Yes
Spare Pair Power Enabled: Yes
Four-Pair PD Architecture: Shared
Perpetual POE Enabled: FALSE
Fast POE Enabled: FALSE
Meter Start Time: 2026-01-22 06:27:41 UTC
Metered Energy Value(WattSec):533367.6
C9350-24U_SWITCH#

MCU記錄

- 此功能可幫助收集與MCU相關的日誌
- 日誌輸出也儲存在機箱管理器btrace日誌檔案(cmand)中
- 日誌記錄基礎結構可能過多，請確保在調試日誌收集完成後禁用該功能。如果未能如此，可能會導致在故障排除完成後用該特定埠的PoE日誌填充命令跟蹤。
- 要啟動/停止MCU日誌記錄，請執行以下操作：

```
Switch#set platform software ilpower switch <switch number> r0 logging mcu <start|stop>
```

```
<< sample MCU btrace log (collected during load-shed) PoE device kept disconnecting and connecting in a
```

```
2025/06/03 22:22:22.803175096 (cmand R0-0)(1): [cpa_sb] [6971]: UUID: 0, ra: 0 (note): [SYS_FPGA_ZAPPA]
```

```
2025/06/03 22:22:22.883510836 (cmand R0-0) (1): (cpa_sb) [6971]: UUID: 0, ra: 0 (note): [SYS_FPGA_ZAPPA]
```

```
2025/06/03 22:22:23.030997074 (cmand R0-0)(1): (cpa_sb) [6971]: UUID: 0, ra: 0 (note): [SYS_FPGA_ZAPPA]
```

```
2025/06/03 22:22:23.350286890 (cmand R0-0)(1): [cpa_sb] (6971): UUID: 0, ra: 0 (note): (SYS FPGA_ZAPPA]
```

```
2025/06/03 22:22:23.55599641 (cmand R0-0)(1): [cpa_sb] [6971]: UUID: 0, ra: 0 (note): [SYS_FPGA_ZAPPA]:
```

```
2025/06/03 22:22:31.755618688 (cmand R0-0)(1): [cpa_sb] [6971]: UUID: 0, ra: 0 (note): (SYS_FPGA_ZAPPA)
```

摘要

要收集的Cisco C9350系列智慧交換機PoE分類日誌：

1. PoE顯示技術支援

```
Switch#show tech-support poe
```

2.埠特定日誌

```
Switch#set platform software ilpower switch <switch number> r0 logging <port number> level <basic|detail>  
Switch#set platform software ilpower switch <switch number> r0 logging <port number> action <start|stop>
```

3. MCU日誌

```
Switch#set platform software ilpower switch <switch number> r0 logging mcu <start|stop>
```

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。