

Risoluzione dei problemi relativi alla funzionalità PoE sugli Smart Switch Cisco serie C9350

Introduzione

In questo documento viene descritto come raccogliere e acquisire gli output e i log per risolvere i problemi relativi a Power over Ethernet (PoE) sugli Smart Switch Cisco serie C9350.

Panoramica delle funzionalità PoE su C9350

SKU PoE C9350

Prodotti C9350	Numero di porte PoE	Potenza massima PoE per porta
C9350-48HX	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

Novità di C9350 PoE

- Supporta fino a 90 W su tutte le porte nelle unità C9350-HX (in precedenza era disponibile solo su 32 porte in C9300X/H, a causa dei limiti del budget energetico).

- Tre slot di alimentazione (fino a 2 in C9300).
Questo aumenta il budget energetico PoE disponibile che consente agli switch C9350-48HX di fornire fino a 90 W su tutte le 48 porte.
- Firmware compatibile con BT True Institute of Electrical and Electronics Engineers (IEEE)
Nessuna conversione dalla modalità AT alla modalità BT e viceversa. Lo stesso firmware BT funziona in modalità a 2 doppi in SKU da 30 W e in modalità a 4 doppi in SKU da 60 W e 90 W (il comando upoe-plus è deprecato).
- Immagine MCU (Unified Microcontroller Unit) (bitstream hardware MCU, bootloader e applicazione software in un unico binario).
In Catalyst 9300, ognuna di queste immagini era separata e occupava 360 secondi per immagine; l'aggiornamento sarebbe stato eseguito in sequenza.
- Aggiornamento dall'interfaccia I2C all'interfaccia SPI sulla MCU.
Ciò consente un aggiornamento più rapido del software MCU di circa 110 secondi (in precedenza erano circa 360 secondi per immagine su Catalyst 9300).
L'interfaccia SPI è più veloce di I2C e ci consente di apportare miglioramenti futuri in grado di ottimizzare la funzionalità PoE in generale.
- Interfaccia MCU UART.
In questo modo è possibile ottenere i log di debug dalla MCU (non è necessario fare affidamento sui dump di istantanee o registri personalizzati con le immagini di debug).

Funzionalità avanzate di disponibilità per la risoluzione dei problemi e la raccolta dei log su C9350

Sul sistema C9350 sono implementate nuove funzionalità di disponibilità per la risoluzione dei problemi PoE che consentono di individuare la causa principale dei problemi sul campo in modo più affidabile e rapido.

Dati di registro del controller PoE integrati nella CLI PoE "show tech-support"

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

```
C9350-24U_SWITCH#show tech-support poe | redirect flash:show_tech_poe_27Jan2026.txt
C9350-24U_SWITCH#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#

Registrazione a una porta

- Questa funzione aiuta a raccogliere i log relativi a una porta specifica.
- Questa funzionalità è persistente tramite ricaricamenti fino a quando non viene disabilitata esplicitamente tramite CLI.
- Gli output di log vengono memorizzati nei file di log di traccia di gestione chassis (comando)
- L'infrastruttura di registrazione può essere eccessiva. Verificare che la funzionalità sia disabilitata al termine della raccolta dei log di debug. In caso contrario, le tracce dei comandi potrebbero essere riempite con i log PoE della porta specifica al termine della risoluzione dei problemi.
- Per abilitare la registrazione su una porta:

```
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 g1/0/10
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 st
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. N
*Jan 23 10:21:25.841: %ILPOWER-6-SET_AVAILABLE_ILPOWER: Available POE budget for switch 1 is updated. N
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-

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_1
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
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
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
2026/01/23 10:21:01.685124698 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:02.108248559 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:02.530359554 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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2026/01/23 10:21:29.641821969 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_pol
2026/01/23 10:21:29.641841843 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
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_pol
2026/01/23 10:21:29.641891955 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
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_pol
2026/01/23 10:21:30.772316580 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set p
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 10:21:35.437621525 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:35.437633479 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:35.437640614 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_pol
2026/01/23 10:21:35.437657933 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:35.437667738 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:35.437669776 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_set_icu
2026/01/23 10:21:35.437676706 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:35.437687918 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM_
2026/01/23 10:21:35.656364944 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:35.656374957 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:36.078110884 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:36.078120438 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:36.501691236 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:36.501702772 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:36.924469860 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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#

Registrazione MCU

- Questa funzione aiuta a raccogliere i log relativi alla MCU
- Gli output di log vengono memorizzati anche nei file di log di traccia di gestione chassis (comando)
- L'infrastruttura di registrazione può essere eccessiva. Verificare che la funzionalità sia disabilitata al termine della raccolta dei log di debug. In caso contrario, le tracce dei comandi potrebbero essere riempite con i log PoE della porta specifica al termine della risoluzione dei problemi.
- Per avviare/arrestare la registrazione MCU:

```
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)
```

Riepilogo

Registri da raccogliere per la triage Cisco serie C9350 Smart Switch PoE:

1. PoE show tech-support

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

2. Registri specifici della porta

```
Switch#set platform software ilpower switch <switch number> r0 logging <port number> level <basic|detai
```

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

3. Registri MCU

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

Informazioni su questa traduzione

Cisco ha tradotto questo documento utilizzando una combinazione di tecnologie automatiche e umane per offrire ai nostri utenti in tutto il mondo contenuti di supporto nella propria lingua. Si noti che anche la migliore traduzione automatica non sarà mai accurata come quella fornita da un traduttore professionista. Cisco Systems, Inc. non si assume alcuna responsabilità per l'accuratezza di queste traduzioni e consiglia di consultare sempre il documento originale in inglese (disponibile al link fornito).