

# Fehlerbehebung bei PoE auf Cisco Smart Switches der Serie C9350

## Einleitung

Dieses Dokument beschreibt die Erfassung und Erfassung von Ausgaben und Protokollen zur Fehlerbehebung bei Power over Ethernet (PoE) auf Cisco Smart Switches der Serie C9350.

## PoE-Funktionsüberblick für C9350

### C9350 PoE-SKUs

C9350-Produkte	Anzahl der PoE-Ports	Max. PoE-Leistung pro Port
C9350-48HX	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

### Neue Funktionen in C9350 PoE

- Unterstützt bis zu 90 W an allen Ports in C9350-HX-Einheiten (Bislang galt dies für C9300X/H nur für 32 Ports, da das Leistungsbudget begrenzt war.)
- Drei Netzteil-Steckplätze (max. 2 bei C9300)

Dadurch erhöht sich das verfügbare PoE-Leistungsbudget, sodass die C9350-48HX-Switches an allen 48 Ports bis zu 90 W bereitstellen können.

- True Institute of Electrical and Electronics Engineers (IEEE), BT-konforme Firmware  
Keine Umwandlung von AT- in BT-Modus und umgekehrt. Dieselbe BT-Firmware wird in einem 2-Paar-Modus in 30-W-SKUs und in einem 4-Paar-Modus in 60-W- und 90-W-SKUs betrieben (der Befehl upoe-plus ist veraltet).
- Unified Microcontroller Unit (MCU)-Image (MCU-Hardware-Bitstream, Bootloader und Softwareanwendung gebündelt in einer einzigen Binärdatei).  
Bei Catalyst 9300 war jedes dieser Images separat und nahm 360 Sekunden pro Image in Anspruch, und das Upgrade erfolgte in der Reihenfolge.
- Upgrade von I2C auf SPI-Schnittstelle an der MCU  
Dies ermöglicht ein schnelleres MCU-Software-Upgrade von ~110 Sekunden (zuvor waren es ~360 Sekunden pro Image auf Catalyst 9300).  
Die SPI-Schnittstelle ist schneller als I2C und ermöglicht uns, zukünftige Verbesserungen vorzunehmen, die die PoE-Funktion insgesamt optimieren können.
- MCU UART-Schnittstelle.  
Dadurch können wir Debug-Protokolle von der MCU abrufen (ohne auf Snapshot- oder benutzerdefinierte Register-Dumps mit Debug-Images angewiesen zu sein).

## Verbesserte Wartungsfunktionen für die Fehlerbehebung/Protokollerfassung beim C9350

Der C9350 bietet neue Wartungsfunktionen für die PoE-Fehlerbehebung, die die Root-Fehlerbehebung vor Ort vereinfachen und so Probleme schneller und zuverlässiger beheben.

PoE-Controller-Registerdaten in der PoE-CLI "show tech-support" integriert

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

```
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#

## Single-Port-Protokollierung

- Mit dieser Funktion können Protokolle zu einem bestimmten Port gesammelt werden.
- Diese Funktion bleibt beim erneuten Laden erhalten, bis sie explizit über die CLI deaktiviert wird.
- Protokollausgaben werden in Protokolldateien für die Chassis-Manager-Ablaufverfolgung (Befehl) gespeichert.
- Die Protokollierungsinfrastruktur kann übermäßig groß sein. Stellen Sie sicher, dass die Funktion deaktiviert ist, sobald die Debugprotokollsammlung abgeschlossen ist. Andernfalls können nach Abschluss der Fehlerbehebung Befehls-Traces mit PoE-Protokollen für den jeweiligen Port gefüllt werden.
- So aktivieren Sie die Protokollierung über einen einzelnen Port:

```
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  
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  
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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-Protokollierung

- Mit dieser Funktion können Protokolle der MCU erfasst werden.
- Protokollausgaben werden auch in den Protokolldateien "btrace" (Befehl) des Chassis-Managers gespeichert.
- Die Protokollierungsinfrastruktur kann übermäßig groß sein. Stellen Sie sicher, dass die Funktion deaktiviert ist, sobald die Debugprotokollsammlung abgeschlossen ist. Andernfalls können nach Abschluss der Fehlerbehebung Befehls-Traces mit PoE-Protokollen für den jeweiligen Port gefüllt werden.
- So starten/beenden Sie die MCU-Protokollierung:

```
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)
```

## Zusammenfassung

Protokolle für die PoE-Triage des Cisco Smart Switches der Serie C9350:

### 1. PoE zeigen technischen Support

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

### 2. Portspezifische Protokolle

```
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. MCU-Protokolle

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

## Informationen zu dieser Übersetzung

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