

Problemen oplossen met PoE op Cisco Smart Switches uit de C9350-reeks

Inleiding

In dit document wordt beschreven hoe u uitgangen en logs kunt verzamelen en vastleggen om problemen met Power over Ethernet (PoE) op Smart Switches uit de Cisco C9350-reeks op te lossen.

Overzicht van PoE-functies op de C9350

C9350 PoE SKU's

C9350 Producten	Aantal PoE-poorten	Max. PoE-wattage per poort
C9350-48 HX	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

Wat is nieuw in C9350 PoE

- Ondersteunt tot 90 W op alle poorten in C9350-HX-eenheden (Voorheen was het alleen beschikbaar op 32 poorten in C9300X/H, vanwege beperkte energiebudgetten).

- Drie sleuven voor voeding (maximaal 2 in C9300).
Dit verhoogt het beschikbare PoE-energiebudget waarmee de C9350-48HX-switches tot 90W kunnen leveren op alle 48 poorten.
- True Institute of Electrical and Electronics Engineers (IEEE) BT-compatibele firmware
Geen AT-modus naar BT-modus conversie en vice versa. Dezelfde BT-firmware werkt in een 2-paarsmodus in 30W SKU's en in 4-paarsmodus in 60W en 90W SKU's (uppe-plus-opdracht is afgekeurd).
- Unified Microcontroller Unit (MCU)-image (MCU-hardwarebitstream, bootloader en softwaretoepassing gebundeld in één enkele binaire database).
In Catalyst 9300 waren al deze images gescheiden en namen ze 360 seconden per image in beslag.
- Upgrade van I2C naar SPI-interface op de MCU.
Dit maakt een snellere MCU software upgrade ~110 sec mogelijk (voorheen was het ~360 sec per image op Catalyst 9300).
SPI-interface is sneller dan I2C en stelt ons in staat om toekomstige verbeteringen aan te brengen die de PoE-functie in het algemeen kunnen optimaliseren.
- MCU UART-interface.
Dit stelt ons in staat om debug logs te krijgen van de MCU (geen noodzaak om te vertrouwen op snapshot of aangepaste register dumps met debug afbeeldingen).

Verbeterde onderhoudsfuncties voor probleemoplossing/logboekverzameling op de C9350

Nieuwe servicemogelijkheden zijn geïmplementeerd op C9350 voor probleemoplossing met PoE die helpt bij het sneller en betrouwbaarder veroorzaken van problemen vanuit het veld.

PoE-controllerregistergegevens geïntegreerd in de "show tech-support" PoE CLI

Toon 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#

Logboekregistratie met één poort

- Met deze functie kunt u logs verzamelen die betrekking hebben op één specifieke poort.
- Deze functie is permanent bij opnieuw laden totdat deze expliciet is uitgeschakeld via CLI.
- Loguitvoer wordt opgeslagen in chassisbeheer-btrace-logbestanden (cmand)
- De loginfrastructuur kan te groot zijn, zorg ervoor dat de functie wordt uitgeschakeld zodra de foutopsporingslogboekverzameling is voltooid. Als u dit niet doet, kunnen opdrachtsporen worden gevuld met PoE-logs voor die specifieke poort nadat de probleemoplossing is voltooid.
- Logboekregistratie met één poort inschakelen:

```
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
2026/01/23 10:21:02.952535591 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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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 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_po
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_po
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 10:21:30.772378327 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe-logger Port: 10 poe_pwr_po

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_po1

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#

MCU-registratie

- Deze functie helpt bij het verzamelen van logs met betrekking tot de MCU
- Loguitvoer wordt ook opgeslagen in de chassisbeheerlogboekbestanden (cmand)
- De loginfrastructuur kan te groot zijn, zorg ervoor dat de functie wordt uitgeschakeld zodra de foutopsporingslogboekverzameling is voltooid. Als u dit niet doet, kunnen opdrachtsporen worden gevuld met PoE-logs voor die specifieke poort nadat de probleemoplossing is voltooid.
- MCU-logboekregistratie starten/stoppen:

```
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)
```

Samenvatting

Logbestanden die moeten worden verzameld voor de PoE-triage van de Cisco C9350-serie Smart Switch:

1. PoE tonen technische ondersteuning

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

2. Havenspecifieke logboeken

```
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-logs

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

Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document ([link](#)) te raadplegen.