

Cisco C9350 Series Smart Switch에서 PoE 문제 해결

소개

이 문서에서는 Cisco C9350 Series Smart Switch에서 PoE(Power over Ethernet) 문제를 해결하기 위해 출력과 로그를 수집하고 캡처하는 방법에 대해 설명합니다.

C9350의 PoE 기능 개요

C9350 PoE SKU

C9350 제품	PoE 포트 수	포트당 최대 PoE 전력량.
C9350-48H	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

C9350 PoE의 새로운 기능

- C9350-HX 유닛의 모든 포트에서 최대 90W 지원
(이전에는 전력 예산 제한으로 인해 C9300X/H의 32개 포트에서만 실행되었습니다.)
- 전원 공급 장치 슬롯 3개(C9300의 2개에서 증가).

따라서 C9350-48HX 스위치가 모든 48개 포트에서 최대 90W를 제공할 수 있는 가용 PoE 전력 예산이 증가합니다.

- True Institute of Electrical and Electronics Engineers(IEEE) BT 호환 펌웨어 AT 모드에서 BT 모드로 변환되지 않으며 그 반대의 경우도 마찬가지입니다. 동일한 BT 펌웨어는 30W SKU의 2쌍 모드와 60W 및 90W SKU의 4쌍 모드에서 작동합니다(upoe-plus 명령은 더 이상 사용되지 않음).
- MCU(Unified Microcontroller Unit) 이미지(MCU 하드웨어 비트스트림, 부트로더 및 소프트웨어 애플리케이션이 하나의 단일 바이너리로 번들로 제공됨). Catalyst 9300에서는 각 이미지가 분리되어 이미지당 360초가 걸렸고 업그레이드가 순차적으로 이루어졌습니다.
- MCU에서 I2C에서 SPI 인터페이스로 업그레이드합니다. 이를 통해 MCU 소프트웨어 업그레이드 속도가 110초(이전에는 Catalyst 9300의 이미지당 최대 360초) 단축되었습니다. SPI 인터페이스는 I2C보다 빠르며 향후 개선사항을 만들어 PoE 기능을 전반적으로 최적화할 수 있습니다.
- MCU UART 인터페이스. 이를 통해 MCU에서 디버그 로그를 가져올 수 있습니다(디버그 이미지가 있는 스냅샷 또는 사용자 지정 레지스터 덤프에 의존할 필요 없음).

C9350의 문제 해결/로그 수집을 위한 향상된 서비스 기능

C9350에는 현장의 문제를 더 안정적이고 신속하게 해결하는 데 도움이 되는 새로운 서비스 지원 기능이 PoE 문제 해결을 위해 구현되었습니다.

"show tech-support" PoE CLI에 통합된 PoE 컨트롤러 레지스터 데이터

```
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#

단일 포트 로깅

- 이 기능은 하나의 특정 포트에 속하는 로그를 수집하는 데 도움이 됩니다.
- 이 기능은 CLI를 통해 명시적으로 비활성화될 때까지 재로드를 통해 유지됩니다.
- 로그 출력은 chassis-manager btrace 로그 파일(명령)에 저장됩니다
- 로깅 인프라는 과도할 수 있습니다. 디버그 로그 수집이 완료되면 이 기능이 비활성화되었는지 확인하십시오. 이렇게 하지 않으면 트러블슈팅이 완료된 후 특정 포트에 대한 명령 추적이 해당 PoE 로그로 채워질 수 있습니다.
- 단일 포트 로깅을 활성화하려면

```
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_SWITC#sh runn int gi1/0/10
Building configuration...
```

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

```
C9350-24U_SWITC#
C9350-24U_SWITC#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_SWITC#
```

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

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

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

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

```
C9350-24U_SWITC#
C9350-24U_SWITC#conf t
Enter configuration commands, one per line. End with CNTL/Z.
C9350-24U_SWITC(config)#int g1/0/10
C9350-24U_SWITC(config-if)#no sh
C9350-24U_SWITC(config-if)#no shutdown
C9350-24U_SWITC(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_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
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
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2026/01/23 10:21:28.475636940 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
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2026/01/23 10:21:28.475657682 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 set
2026/01/23 10:21:28.475665872 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:28.475674221 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 poli
2026/01/23 10:21:28.475684236 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 FROM
2026/01/23 10:21:28.691323951 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:21:28.691338689 {cmand_R0-0}{1}: [re_poe] [5309]: (note): poe_get_pwr_sense[POE_GET_POWER
2026/01/23 10:21:28.691371210 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:21:28.691384192 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 port
2026/01/23 10:21:28.691395015 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): POWER_SENSE_CALLBACK #0 p
2026/01/23 10:21:28.897220844 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
2026/01/23 10:21:28.897231667 {cmand_R0-0}{1}: [re_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE
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_pol
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_pol
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_pol
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_pol
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 10:21:35.437687918 {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 로깅

- 이 기능은 MCU와 관련된 로그를 수집하는 데 도움이 됩니다
- 로그 출력은 chassis-manager btrace 로그 파일(cmand)에도 저장됩니다
- 로깅 인프라는 과도할 수 있습니다. 디버그 로그 수집이 완료되면 이 기능이 비활성화되었는지 확인하십시오. 이렇게 하지 않으면 트러블슈팅이 완료된 후 특정 포트에 대한 명령 추적이 해당 PoE 로그로 채워질 수 있습니다.
- MCU 로깅을 시작/중지하려면

```
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)

요약

Cisco C9350 Series Smart Switch PoE 분류에 대해 수집할 로그:

1. PoE show 기술 지원

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

2. 포트별 로그

```
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 로그

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

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