

# Cisco C9350シリーズスマートスイッチでのPoEのトラブルシューティング

## はじめに

このドキュメントでは、Cisco C9350シリーズスマートスイッチでPower over Ethernet(PoE)をトラブルシューティングするための出力とログを収集してキャプチャする方法について説明します。

## C9350のPoE機能の概要

### C9350 PoE SKU

C9350製品	PoEポート数	ポートあたりの最大PoEワット数
C9350-48HX	48	90
C9350-48U	48	60
C9350-24U	24	60
C9350-48P	48	30
C9350-24P	24	30

### C9350 PoEの新機能

- C9350-HXユニットのすべてのポートで最大90 Wをサポート  
( 以前は、電力バジェット制限により、C9300X/Hでは32ポートだけでした )。

- 3つの電源スロット ( C9300では2スロット )  
これにより、C9350-48HXスイッチが48個のポートすべてで最大90 Wを供給できるように、使用可能なPoE電力バジェットが増加します。
- True Institute of Electrical and Electronics Engineers(IEEE)BT準拠のファームウェア  
ATモードからBTモードへの変換は行わず、逆も行いません。同じBTファームウェアが、30W SKUでは2ペアモード、60Wおよび90W SKUでは4ペアモードで動作します ( upoe-plusコマンドは廃止されました )。
- 統合マイクロコントローラユニット(MCU)イメージ ( MCUハードウェアビットストリーム、ブートローダ、およびソフトウェアアプリケーションを1つのバイナリにバンドル )  
Catalyst 9300では、これらの各イメージは別々のもので、イメージごとに360秒かかり、アップグレードが順に行われました。
- MCUでI2CインターフェイスからSPIインターフェイスにアップグレードします。  
これにより、MCUソフトウェアのアップグレードが110秒以内に高速化されます ( 以前はCatalyst 9300のイメージあたり360秒以内 )。  
SPIインターフェイスはI2Cよりも高速で、PoE機能全体を最適化できる将来の機能拡張が可能です。
- MCU UARTインターフェイス。  
これにより、MCUからデバッグログを取得できます ( デバッグイメージでスナップショットやカスタムレジスタダンプに依存する必要はありません )。

## C9350でのトラブルシューティング/ログ収集のための拡張サービスability機能

C9350には、PoEのトラブルシューティング用に新しいサービスability機能が実装されており、現場で問題を発生させている根本原因をより確実かつ迅速に特定できます。

「show tech-support」 PoE CLIに統合されたPoEコントローラのレジスタデータ

```
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#
```

シングルポートロギング

- この機能は、特定の1つのポートに関するログを収集するのに役立ちます。
- この機能は、CLIで明示的に無効にされるまで、リロードを通じて保持されます。
- ログ出力は、chassis-manager btrace log files ( コマンド ) に保存されます。
- ロギングインフラストラクチャが過剰になる可能性があります。デバッグログ収集が完了したら、この機能を必ず無効にしてください。これを行わないと、トラブルシューティングが完了した後、コマンドトレースにその特定のポートのPoEログが記録される可能性があります。
- シングルポートロギングを有効にするには、次の手順を実行します。

```
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 gi1/0/10
C9350-24U_SWITC(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

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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\_]  
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  
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2026/01/23 10:20:53.305323953 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 got r  
2026/01/23 10:20:53.305347756 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 set p  
2026/01/23 10:20:53.305356903 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 FROM\_  
2026/01/23 10:20:53.305370040 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Port  
2026/01/23 10:20:53.305378512 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 set p  
2026/01/23 10:20:53.305386913 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 FROM\_  
2026/01/23 10:20:53.305394249 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Port  
2026/01/23 10:20:53.305406255 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 set p  
2026/01/23 10:20:53.305414696 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 FROM\_  
2026/01/23 10:20:53.305422332 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Port  
2026/01/23 10:20:53.950355766 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Port  
2026/01/23 10:20:53.950367359 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 state  
2026/01/23 10:20:53.950375549 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD  
2026/01/23 10:20:53.950383251 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 set i  
2026/01/23 10:20:53.950393459 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 port  
2026/01/23 10:20:54.487897374 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Port  
2026/01/23 10:20:54.487908264 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 state  
2026/01/23 10:20:54.487916551 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 AUTOD  
2026/01/23 10:20:54.487924497 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 set i  
2026/01/23 10:20:54.487933966 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 port  
2026/01/23 10:20:54.925917874 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Got P  
2026/01/23 10:20:54.928723879 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Setti  
2026/01/23 10:20:54.928734395 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SSPD:  
2026/01/23 10:20:54.931603151 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SSPD:  
2026/01/23 10:20:54.934410290 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 P10(1  
2026/01/23 10:20:55.296578019 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 Signa  
2026/01/23 10:20:55.296595839 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 RE\_PO  
2026/01/23 10:20:56.620237271 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE  
2026/01/23 10:20:57.040914750 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE  
2026/01/23 10:20:57.463796249 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE  
2026/01/23 10:20:57.886470191 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE  
2026/01/23 10:20:58.309246877 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 SENSE  
2026/01/23 10:20:58.689977359 {cmand\_R0-0}{1}: [re\_poe] [5309]: (note): poe\_get\_pwr\_sense[POE\_GET\_POWER  
2026/01/23 10:20:58.689992754 {cmand\_R0-0}{1}: [re\_poe] [5309]: (note): poe\_get\_pwr\_sense[POE\_GET\_POWER  
2026/01/23 10:20:58.690011267 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): POWER\_SENSE\_CALLBACK #0 p  
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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

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2026/01/23 10:21:28.475684236 {cmand\_R0-0}{1}: [re\_poe] [5309:22209]: (note): poe-logger Port: 10 FROM\_  
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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 10:21:35.437669776 {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ロギング

- この機能は、MCUに関連するログの収集に役立ちます
- ログ出力は、chassis-manager btrace log files ( コマンド ) にも保存されます
- ロギングインフラストラクチャが過剰になる可能性があります。デバッグログ収集が完了したら、この機能を必ず無効にしてください。これを行わないと、トラブルシューティングが完了した後、コマンドトレースにその特定のポートのPoEログが記録される可能性があります。
- MCUロギングを開始/停止するには、次の手順を実行します。

```
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)
```

## 要約

Cisco C9350シリーズスマートスイッチPoEトリアージで収集するログ：

### 1. PoE show tech-support

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

### 2. ポート固有のログ

```
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ログ

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

## 翻訳について

シスコは世界中のユーザにそれぞれの言語でサポート コンテンツを提供するために、機械と人による翻訳を組み合わせて、本ドキュメントを翻訳しています。ただし、最高度の機械翻訳であっても、専門家による翻訳のような正確性は確保されません。シスコは、これら翻訳の正確性について法的責任を負いません。原典である英語版（リンクからアクセス可能）もあわせて参照することを推奨します。