

# 排除Central的UCSM註冊問題

## 目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[故障排除方法](#)

[基本故障排除](#)

[UCSM停滯註冊狀態，無法向中心註冊](#)

[升級後UCSM central狀態停滯不前](#)

[UCSM Lost Visibility with Central](#)

[要檢查的日誌](#)

[已知瑕疵](#)

[相關資訊](#)

## 簡介

本文檔介紹如何排除UCS Central註冊時的UCSM的一些常見問題

## 必要條件

### 需求

思科建議您瞭解以下主題：

- 思科整合運算系統(UCS)
- UCS Central

### 採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 思科整合運算系統管理員(UCSM)
- 光纖互連(FI)
- 在ESXi VM上運行的UCS Central

## 故障排除方法

故障排除的重點是UCSM上的自簽名證書以及中央而非第三方證書

- 基本故障排除
- UCSM在中心註冊狀態停滯

- 升級後UCSM central狀態停滯不前
- UCSM失去可視性，帶中央
- 要檢查的日誌
- 疑難排解指令

## 基本故障排除

請確保完成以下基本檢查：

- 共用金鑰不匹配。
- 無法訪問UCS Central裝置。
- UCS Central GUID不同於已註冊的UCS Central GUID。
- UCSM和UCS Central之間的時間不同步。
- UCSM上的證書已過期。
- 預設金鑰環證書不存在。雖然第三方CA可用於HTTPS。UCSM註冊使用預設金鑰環證書，因此不應刪除。
- 確保UCSM正在接收來自UCSC的握手請求。

```
Central# connect local-mgmt
```

```
Central(local-mgmt)# test ucsm-connectivity <ucsm_ip>
```

從UCSM捕獲的資料包已成功註冊到中央提供程式

10.106.74.195	10.106.74.234	TCP	74 43448 → 443 [SYN] Seq=0 Win=5848 Len=0 MSS=1460 SACK_PERM=1 TSval=233688518 TSecr=0 WS=512
10.106.74.234	10.106.74.195	TCP	74 443 → 43448 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1460 SACK_PERM=1 TSval=9552296 TSecr=233688518 WS=128
10.106.74.195	10.106.74.234	TCP	66 43448 → 443 [ACK] Seq=1 Ack=1 Win=6248 Len=0 TSval=233688518 TSecr=9552296
10.106.74.195	10.106.74.234	TLSv1	154 Client Hello
10.106.74.234	10.106.74.195	TCP	66 443 → 43448 [ACK] Seq=1 Ack=89 Win=5888 Len=0 TSval=9552298 TSecr=233688519
10.106.74.234	10.106.74.195	TLSv1	892 Server Hello, Certificate, Server Hello Done
10.106.74.195	10.106.74.234	TCP	66 43448 → 443 [ACK] Seq=89 Ack=827 Win=7688 Len=0 TSval=233688519 TSecr=9552299
10.106.74.195	10.106.74.234	TLSv1	392 Client Key Exchange, Change Cipher Spec, Finished
10.106.74.234	10.106.74.195	TLSv1	125 Change Cipher Spec, Finished
10.106.74.195	10.106.74.234	TLSv1	412 [55, segment of a reassembled PDU]
10.106.74.234	10.106.74.195	HTTP	119 HTTP/1.1 100 Continue
10.106.74.195	10.106.74.234	HTTP	1196 POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	TCP	66 443 → 43448 [ACK] Seq=939 Ack=1891 Win=18248 Len=0 TSval=9552344 TSecr=233688519
10.106.74.234	10.106.74.195	HTTP/X.	1484 HTTP/1.1 200 OK
10.106.74.195	10.106.74.234	TLSv1	189 Alert (Level: Warning, Description: Close Notify)
10.106.74.195	10.106.74.234	TCP	66 43448 → 443 [FIN, ACK] Seq=1928 Ack=2357 Win=18752 Len=0 TSval=233690027 TSecr=9567374
10.106.74.234	10.106.74.195	TCP	66 443 → 43448 [ACK] Seq=2357 Ack=1928 Win=18248 Len=0 TSval=9567377 TSecr=233690027
10.106.74.234	10.106.74.195	TLSv1	189 Alert (Level: Warning, Description: Close Notify)

Source	Destination	Protocol	Length	Info
10.106.74.195	10.106.74.234	HTTP	540	POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	HTTP/XML	100	HTTP/1.1 200 OK
10.106.74.234	10.106.74.195	HTTP	119	HTTP/1.1 100 Continue
10.106.74.195	10.106.74.234	HTTP	1196	POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	HTTP/XML	1484	HTTP/1.1 200 OK
10.106.74.195	10.106.74.234	HTTP	588	POST /xmlInternal/service-reg/forward HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.195	10.106.74.234	HTTP	572	POST /xmlInternal/service-reg/forward HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.195	10.106.74.234	HTTP/XML	780	POST /xmlInternal/service-reg HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XML	556	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XML	636	POST /xmlInternal/identifier-mgr HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XML	684	POST /xmlInternal/operation-mgr HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XML	428	POST /xmlInternal/stats-mgr HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XML	716	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XML	604	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XML	428	POST /xmlInternal/resource-mgr HTTP/1.1

請勿從UCSM中註銷中心伺服器。取消註冊所有全域性服務配置檔案後，它們將成為UCS域的本地配置檔案。可以將本地服務配置檔案重新設定為全域性。但是，這是一個非常複雜的過程，並且會對服務產生影響。

## UCSM停滯註冊狀態，無法向中心註冊

如果UCS Manager已註冊到UCS Central，並且UCS Manager正在升級到3.1.1，則UCS Manager將進入註冊狀態，並停滯在該狀態。

中央DME日誌中觀察到太多捲曲錯誤

9603: [WARN][0x27699940][Apr 5 18:00:54.714][write:net] write of 3752 bytes using curl failed, code=7, error: 'Couldn't connect to server', ep:  
<https://10.106.74.195:443/xmlInternal/managed-endpoint>  
9604: [WARN][0x27699940][Apr 5 18:00:54.714][write:net] non-critical curl write error.  
來自UCSM DME

```
[INFO][0x682ffb90][Nov 1 16:05:24.886][sam_sec:check_cert_val] X509_verify_cert_error_string - ok
[INFO][0x682ffb90][Nov 1 16:05:24.886][sam_sec:X509VerifyCert] ErrorMsg:ok ErrorNo:0
[INFO][0x682ffb90][Nov 1 16:05:24.886][app_sam_dme:processKey] something wrong with KR-default certificate, status - 18
```

問題可能是由於UCSM使用舊的MDS雜湊而不是證書的SHA1

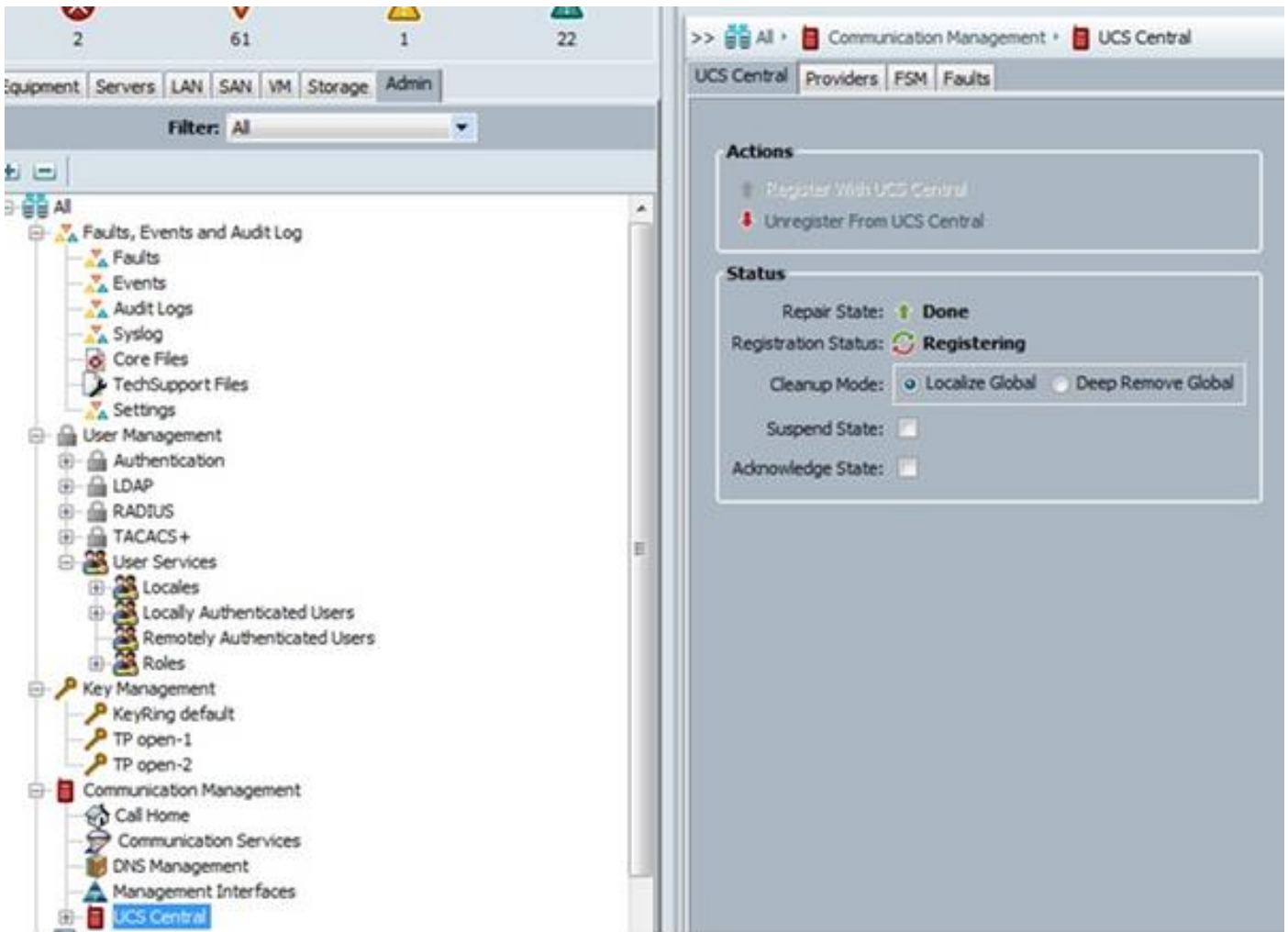
```
[WARN][0x674ffb90][Nov 22 19:11:49.227][net:write] write of 546 bytes using curl failed, code=60, error: 'Peer certificate cannot be authenticated with given CA certificates(SSL certificate problem: self signed certificate)', ep:
https://10.106.74.234:443/xmlInternal/service-req
[INFO][0x674ffb90][Nov 22 19:11:49.227][net:certFailure] certificate is bad for connection to '
https://10.136.58.4:443/xmlInternal/service-req;
```

執行以下解決方法，因為這會導致UCS Manager成功註冊到UCS中心並修復證書錯誤

預設金鑰環可以從UCS Central CLI的裝置配置檔案部分重新生成。

```
connect policy-mgr
scope org
scope device-profile
scope security
scope keyring default
set regenerate yes
commit-buffer
```

如果因應措施未解決，請向Cisco TAC提出案件以進行進一步驗證



如果UCS Manager最初在2.1.3版本或更低版本時已註冊到UCS Central。接著在升級到3.1.1期間，仍然出現上述註冊問題。

對於UCS 2.1.3及更早版本需要此TAC參與，UCSM不會拆分證書。TAC需要重新雜湊證書，以便建立指向證書的正確軟連結。

## 升級後UCSM central狀態停滯不前

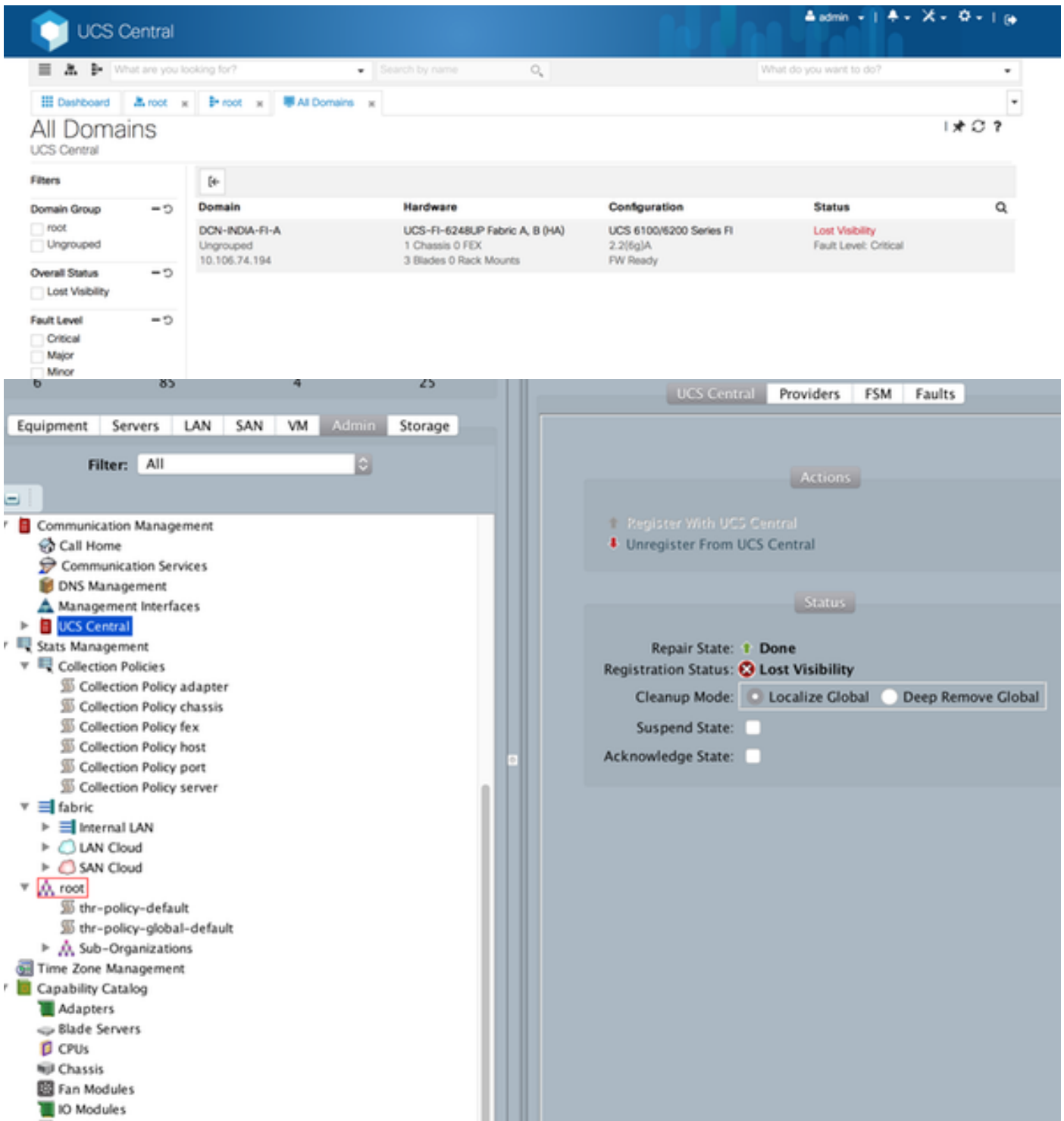
問題在於中央和UCS之間的資料庫不同步

在資源管理器日誌中觀察到這些錯誤

```
[WARN][0xbbce9940][Aug 11 10:23:18.194][storeMo:mit_init] SQL error [SQLParamData failure: Error while executing the query (non-fatal);
ERROR: duplicate key value violates unique constraint "InstanceId2DN_dn_key"] stmt [INSERT INTO "InstanceId2DN" ("instanceId", "dn", "className", "parent") VALUES (?, ?, ?, ?)]
[INFO][0xbbce9940][Aug 11 10:23:18.194][report:exception_handl] FATAL[3|150]
/ramfs/buildsa/150407-104741-rev219791-
FCSa/resMgr/sam/src/lib/framework/core/sql/MitDbImpl.cc(1167):storeMo: Failed to connect to database. Transaction aborted.
[INFO][0xbbce9940][Aug 11 10:23:18.201][report:exception_handl] ERROR[3|150]
/ramfs/buildsa/150407-104741-rev219791-
FCSa/resMgr/sam/src/lib/framework/core/proc/Doer.cc(795):exceptionCB: exception encountered during processing: "Failed to connect to database. Transaction aborted." [150] Failed to connect to database. Transaction aborted.
```

[INFO][0xbbce9940][Aug 11 10:23:18.201][failedCb:tx] TX FAILED  
這是資料庫同步問題，請向Cisco TAC提出案件以進行進一步驗證

## UCSM Lost Visibility with Central



### 檢查註冊狀態

如果顯示「不可見」，則無法在一個或多個所需埠上訪問UCS中心。如果UCS Central使用的是快閃記憶體GUI(Flex)，則需要為中央開啟以下埠：443、80、843。HTML GUI只需要埠443。

### 要檢查的日誌

## UCSM

```
/var/sysmgr/sam_logs/pa_setup.log  
svc_sam_dme.log files on FI
```

### 中央

### Svc\_dme\_reg.log

### 疑難排解指令

```
Central# connect policy-mgr  
Central# scope org  
Central# scope device-profile  
Central# scope security  
Central# Show keyring detail  
  
UCSM# scope system  
UCSM# scope security  
UCSM# show keyring detail  
connect local-mgmt  
telnet <Central IP> <port>  
^ (Shift+6) ] with no spaces to exit  
  
FSM status  
  scope system  
  scope control-ep policy  
  show fsm status
```

```
Central# connect service-reg  
Central(service-reg)# show fault  
Central(service-reg)# show clients detail  
Registered Clients:  
  ID: 1008  
  Registered Client IP: 10.106.74.194  
  Registered Client IPV6: ::  
  Registered Client Connection Protocol: Ipv4  
  Registered Client Name: DCN-INDIA-FI-A  
Registered Client GUID: e832cfc2-548b-11e4-b8f2-002a6a6f6dc1  
Registered Client Version: 2.2(6g)  
Registered Client Type: Managed Endpoint  
Registered Client Capability: Policy Client Module  
Registered Client Last Poll Timestamp: 2016-12-08T12:33:36.417  
Registered Client Operational State: Registered  
Registered Client Suspend State: Off  
Registered Client License State: License Graceperiod  
Registered Client grace period used: 33  
Registered Client Network Connection State: Connected
```

## 已知瑕疵

- 思科錯誤ID [CSCuy07652](#) 從ECMR6升級到Delmar-mr2使域「註冊」。
- 進行韌體升級時，思科錯誤ID [CSCuv07227](#) UCSM重新註冊失敗。
- 思科錯誤ID [CSCuu91088](#) Central無法刷新清單。

- 低頻寬環境中的傳統ucs上，思科錯誤ID [CSCut72698](#) report-full-inventory-failed。

## 相關資訊

向UCS Central註冊Cisco UCSM域

[http://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2/registering\\_cisco\\_ucs\\_domains\\_with\\_cisco\\_ucs\\_central.html](http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/registering_cisco_ucs_domains_with_cisco_ucs_central.html)