

アプライアンスのアップグレード後、HCM-FサービスがSTOPPED状態になる

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概要

このドキュメントでは、Hosted Collaboration Mediation Fulfillment(HCM-F)のアップグレード後に発生する問題とトラブルシューティングプロセスについて説明します。

この問題の根本的な原因は、期限切れのTomcat証明書に関連しています。既存のHCM-F Tomcat証明書が期限切れになり、再生成されなかった場合は、HCM-Fアプライアンスを（新しく導入された機能から）アップグレードしようとしている多くのお客様がこの問題にをいます。

前提条件

要件

次の項目に関する知識があることが推奨されます。

- Cisco Hosted Collaboration Solution(HCS)
- Cisco Hosted Collaboration Mediation Fulfillment(HCM-F)

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- HCM-F 11.5.4

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。対象のネットワークが実稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

問題

HCM-F(11.5.1から11.5.4)およびスイッチのバージョンをアップグレードした後、グラフィカルユーザインターフェイス(GUI)ページにアクセスできなくなり、サービスが停止状態になります。

実施されたトラブルシューティング

- サービスのステータスを確認すると、Webユーザインターフェイス(UI)およびTomcat関連サービスがSTOPPED状態であることが確認されます。

```
admin:utils service list
Requesting service status, please wait...
System SSH [STARTED]
Name Service Cache [STOPPED] Service Not Activated
Entropy Monitoring Daemon [STARTED]
Cisco SCSI Watchdog [STARTED]Service Manager [STARTED]
Service Manager is running
Getting list of all services
>>Return code = 0
Cisco AMC Service[STARTED]
Cisco Audit Event Service[STARTED]
Cisco CDM Database[STARTED]
Cisco CDP[STARTED]
Cisco CDP Agent[STARTED]
Cisco Certificate Expiry Monitor[STARTED]
Cisco Configuration Manager[STARTED]
Cisco DRF Local[STARTED]
Cisco DRF Master[STARTED]
Cisco HCS Admin UI[STOPPED] Component is not running
Cisco HCS CSF UI Service[STOPPED] Component is not running
Cisco HCS CUCDMSync Service[STARTED]
Cisco HCS ConfigMgr[STARTED]
Cisco HCS DMA-SA Service[STARTED]
Cisco HCS Data Access Manager Service[STARTED]
Cisco HCS Fulfillment Service[STARTED]
Cisco HCS IPA Service[STARTED]
Cisco HCS Intelligent Loader Service[STOPPED] Component is not running
Cisco HCS License Manager Service[STARTED]
Cisco HCS NBI REST FF Web Service[STOPPED] Component is not running
Cisco HCS NBI REST SDR Web Service[STOPPED] Component is not running
Cisco HCS NBI REST UCMon Web Service[STOPPED] Component is not running
Cisco HCS North Bound Interface Web Service[STOPPED] Component is not running
Cisco HCS Provisioning Adapter Service[STARTED]
Cisco HCS SDR Change Notification Service[STARTED]
Cisco HCS SDR UI[STOPPED] Component is not running
Cisco HCS SI UI[STOPPED] Component is not running
Cisco HCS SSO SP Service[STOPPED] Component is not running
Cisco HCS Service Inventory[STOPPED] Component is not running
Cisco HCS UCPA Service[STARTED]
Cisco HCS UCSMSync Service[STARTED]
Cisco HCS VCenterSync Service[STARTED]
Cisco JMS Broker[STARTED]
Cisco Log Partition Monitoring Tool[STARTED]
Cisco Platform Manager Service[STOPPED] Component is not running
Cisco RIS Data Collector[STARTED]
Cisco RTMT Web Service[STOPPED] Component is not running
Cisco Syslog Agent[STARTED]
Cisco Tomcat[STARTED]
Cisco Tomcat Stats Servlet[STOPPED] Component is not running
Cisco Trace Collection Service[STARTED]
Cisco Trace Collection Servlet[STOPPED] Component is not running
Host Resources Agent[STARTED]
```

MIB2 Agent[STARTED]
Platform Administrative Web Service[STOPPED] Component is not running
SNMP Master Agent[STARTED]System Application Agent[STARTED]
Cisco HCS UC Monitor Service[STOPPED] Service Not ActivatedPrimary Node =true

- CiscoSyslogには、さまざまなWeb関連サービスに対するハイパーテキスト転送プロトコル (HTTP)404エラーが表示されます。

admin:file view activelog /syslog/CiscoSyslog

```
Jun 17 16:14:19 hcs862-hcm-f local7 2 : 6: hcs862-hcm-f.XXXXXXXXXX.net:
Jun 17 2019 14:14:19.781 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco
RTMT Web Service][Reason=HTTP 404 Error][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-
hcm-f]: Failed to start service.
Jun 17 16:14:19 hcs862-hcm-f local7 2 : 7: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:19.781 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco RTMT Web
Service][Reason=Service stopped abruptly][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service terminated.
Jun 17 16:14:20 hcs862-hcm-f local7 2 : 8: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:20.791 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco
Trace Collection Servlet][Reason=HTTP 404 Error][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Failed to start service.
Jun 17 16:14:20 hcs862-hcm-f local7 2 : 9: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:20.791 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco Trace Collection
Servlet][Reason=Service stopped abruptly][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service terminated.
Jun 17 16:14:21 hcs862-hcm-f local7 2 : 10: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:21.796 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco Tomcat Stats
Servlet][Reason=HTTP 404 Error][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-f]:
Failed to start service.
Jun 17 16:14:21 hcs862-hcm-f local7 2 : 11: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:21.796 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco Tomcat Stats
Servlet][Reason=Service stopped abruptly][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service terminated.
Jun 17 16:14:22 hcs862-hcm-f local7 6 : 12: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:22.800 UTC : %UC_GENERIC-6-ServiceStarted: %[ServiceName=Cisco
CDP][ProcessID=8426][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service
started.
Jun 17 16:14:23 hcs862-hcm-f local7 2 : 13: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:23.804 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco HCS
Admin UI][Reason=HTTP 404 Error][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-f]:
Failed to start service.
Jun 17 16:14:23 hcs862-hcm-f local7 2 : 14: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:23.804 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco HCS
Admin UI][Reason=Service stopped abruptly][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service terminated.
Jun 17 16:14:24 hcs862-hcm-f local7 2 : 15: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:24.808 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco HCS
SDR UI][Reason=HTTP 404 Error][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-f]:
Failed to start service.
Jun 17 16:14:24 hcs862-hcm-f local7 2 : 16: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:24.808 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco HCS SDR
UI][Reason=Service stopped abruptly][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-
f]: Service terminated.
Jun 17 16:14:25 hcs862-hcm-f local7 6 : 17: hcs862-hcm-f.XXXXXXXXXXtest.net: Jun 17 2019
14:14:25.812 UTC : %UC_GENERIC-6-ServiceStarted: %[ServiceName=Cisco Certificate Expiry
Monitor][ProcessID=8774][AppID=Cisco Service Manager][ClusterID=][NodeID=hcs862-hcm-f]: Service
started.
Jun 17 16:14:25 hcs862-hcm-f local7 2 : 18: hcs862-hcm-f.XXXXXXXXXXtest.net:
Jun 17 2019 14:14:25.813 UTC : %UC_SERVICEMANAGER-2-ServiceStartFailed: %[ServiceName=Cisco HCS
NBI REST SDR Web Service][Reason=HTTP 404 Error][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: Failed to start service.
```

Jun 17 16:14:25 hcs862-hcm-f local7 2 : 19: hcs862-hcm-f.XXXXXXXXXtest.net:
Jun 17 2019 14:14:25.813 UTC : %UC_SERVICEMANAGER-2-ServiceFailed: %[ServiceName=Cisco HCS NBI
REST SDR Web Service][Reason=Service stopped abruptly][AppID=Cisco Service
Manager][ClusterID=][NodeID=hcs862-hcm-f]: **Service terminated.**

- Catalina.outのTomcatで、CCMTrustCertsコンテキストの問題が報告されます。

SEVERE: Context [/CCMTrustCerts] startup failed due to previous errors

Jun 18, 2019 2:59:49 PM org.apache.catalina.startup.HostConfig deployDirectoryINFO: Deployment of web application directory /common/log/taos-log-a/tomcat/webapps/CCMTrustCerts has finished in 8,042 ms end of the file reachedoptions: q=quit, n=next, p=prev, b=begin, e=end (lines 1221 - 1223 of 1223) :INFO: Deploying web application directory /common/log/taos-log-a/tomcat/webapps/manager

Jun 18, 2019 2:59:33 PM org.apache.catalina.startup.SetContextPropertiesRule beginWARNING: [SetContextPropertiesRule]{Context} Setting property 'debug' to '0' did not find a matching property.

Jun 18, 2019 2:59:33 PM org.apache.tomcat.util.digester.SetPropertiesRule beginWARNING: [SetPropertiesRule]{Context/Realm} Setting property 'resourceName' to 'TomcatUsersDatabase' did not find a matching property.

Jun 18, 2019 2:59:41 PM org.apache.catalina.startup.TldConfig executeINFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.

Jun 18, 2019 2:59:41 PM org.apache.catalina.core.StandardContext startInternalSEVERE: One or more Filters failed to start. Full details will be found in the appropriate container log file

Jun 18, 2019 2:59:41 PM org.apache.catalina.core.StandardContext startInternalSEVERE: Context [/manager] startup failed due to previous errors

Jun 18, 2019 2:59:41 PM org.apache.catalina.startup.HostConfig deployDirectoryINFO: Deployment of web application directory /common/log/taos-log-a/tomcat/webapps/manager has finished in 7,483 ms

Jun 18, 2019 2:59:41 PM org.apache.catalina.startup.HostConfig deployDirectoryINFO: Deploying web application directory /common/log/taos-log-a/tomcat/webapps/CCMTrustCerts

Jun 18, 2019 2:59:49 PM org.apache.catalina.startup.TldConfig executeINFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.

Jun 18, 2019 2:59:49 PM org.apache.catalina.core.StandardContext startInternalSEVERE: **One or more Filters failed to start. Full details will be found in the appropriate container log file**

Jun 18, 2019 2:59:49 PM org.apache.catalina.core.StandardContext startInternal options: **SEVERE: Context [/CCMTrustCerts] startup failed due to previous errors**

Jun 18, 2019 2:59:49 PM org.apache.catalina.startup.HostConfig deployDirectoryINFO: Deployment of web application directory /common/log/taos-log-a/tomcat/webapps/CCMTrustCerts has finished in 8,042 ms

- Command-Line Interface(CLI)から「utils diagnose test」を実行すると、tomcat_connectorsモジュールにエラーが表示され、Tomcatへの内部接続が機能していないことを示します。

test - tomcat_connectors : **Failed - The HTTP and HTTPS ports are not responding to local requests.**

Please collect all of the Tomcat logs for root cause analysis: file get activelog tomcat/logs/*

- tomcat証明書は3月26日に期限切れになります。それでも、HCM-Fのアップグレード中(またはアップグレード前)に問題が発生することはありません。

Jun 19 12:00:00 hcs862-hcm-f local99 0 : 42: hcs862-hcm-f.XXXXXXXXXtest.net:

Jun 19 2019 10:00:00.19 UTC : %UC_CERT-0-CertExpired: %[Message=Certificate expiration Notification. Certificate name:tomcat.der Unit:tomcat Type:own-cert Expiration:Sun Mar 26 12:30:59:000 CES][AppID=Cisco Certificate Monitor][ClusterID=][NodeID=hcs862-hcm-f]: **Certificate has Expired and needs to be changed at the earliest**

Jun 19 12:00:00 hcs862-hcm-f local99 0 : 43: hcs862-hcm-f.XXXXXXXXXtest.net:

Jun 19 2019 10:00:00.21 UTC : %UC_CERT-0-CertExpired: %[Message=Certificate expiration Notification. Certificate name:ipsec.der Unit:ipsec Type:own-cert Expiration:Sun Mar 26 12:30:57:000 CEST][AppID=Cisco Certificate Monitor][ClusterID=][NodeID=hcs862-hcm-f]:
Certificate has Expired and needs to be changed at the earliest

解決方法

1. Tomcat証明書の再生成:

```
admin:set cert regen tomcat
WARNING: This operation will overwrite any CA signed certificate previously imported for tomcat
Proceed with regeneration (yes|no)? yes
Successfully Regenerated Certificate for tomcat.
You must restart services related to tomcat for the regenerated certificates to become active.
```

2. HCM-Fサーバを再起動します。

```
admin:utils system restart
Do you really want to restart ?Enter (yes/no)? yes
```

確認

- ・ サービスステータスを確認します。

```
admin:utils service list
Requesting service status, please wait...
System SSH [STARTED]
Name Service Cache [STOPPED] Service Not Activated
Entropy Monitoring Daemon [STARTED]
Cisco SCSI Watchdog [STARTED]
Service Manager [STARTED]Service Manager is running
Getting list of all services
>>Return code = 0
Cisco AMC Service[STARTED]
Cisco Audit Event Service[STARTED]
Cisco CDM Database[STARTED]
Cisco CDP[STARTED]
Cisco CDP Agent[STARTED]
Cisco Certificate Expiry Monitor[STARTED]
Cisco Configuration Manager[STARTED]
Cisco DRF Local[STARTED]
Cisco DRF Master[STARTED]
Cisco HCS Admin UI[STARTED]
Cisco HCS CSF UI Service[STARTED]
Cisco HCS CUCDMSync Service[STARTED]
Cisco HCS ConfigMgr[STARTED]
Cisco HCS DMA-SA Service[STARTED]
Cisco HCS Data Access Manager Service[STARTED]
Cisco HCS Fulfillment Service[STARTED]
Cisco HCS IPA Service[STARTED]
Cisco HCS Intelligent Loader Service[STARTED]
Cisco HCS License Manager Service[STARTED]
Cisco HCS NBI REST FF Web Service[STARTED]
Cisco HCS NBI REST SDR Web Service[STARTED]
Cisco HCS NBI REST UCMon Web Service[STARTED]
Cisco HCS North Bound Interface Web Service[STARTED]
Cisco HCS Provisioning Adapter Service[STARTED]
Cisco HCS SDR Change Notification Service[STARTED]
```

Cisco HCS SDR UI[STARTED]
Cisco HCS SI UI[STARTED]
Cisco HCS SSO SP Service[STARTED]
Cisco HCS Service Inventory[STARTED]
Cisco HCS UCPA Service[STARTED]
Cisco HCS UCSMSync Service[STARTED]
Cisco HCS VCenterSync Service[STARTED]
Cisco JMS Broker[STARTED]
Cisco Log Partition Monitoring Tool[STARTED]
Cisco Platform Manager Service[STARTED]
Cisco RIS Data Collector[STARTED]
Cisco RTMT Web Service[STARTED]
Cisco Syslog Agent[STARTED]
Cisco Tomcat[STARTED]
Cisco Tomcat Stats Servlet[STARTED]
Cisco Trace Collection Service[STARTED]
Cisco Trace Collection Servlet[STARTED]
Host Resources Agent[STARTED]MIB2 Agent[STARTED]
Platform Administrative Web Service[STARTED]
SNMP Master Agent[STARTED]
System Application Agent[STARTED]
Cisco HCS UC Monitor Service[STOPPED]
Service Not ActivatedPrimary Node =true