

排除Expressway中繼DigiCert全域性根CA證書在2023年3月8日到期的故障

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簡介

本文檔介紹如何替換設定為在2023年3月8日星期三到期的DigiCert全局根CA。這意味著那些不信任「DigiCert Global Root CA」的裝置將啟動證書警告，並且TLS協商將於2023年3月8日星期三中斷。

必要條件

需求

本文件沒有特定需求。

採用元件

本文檔中的資訊基於Cisco Expressway x14.X。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

DigiCert全球根CA中繼CA計畫於2023年3月08日到期。這是DigiCert證書鏈中的中間證書。一旦過期，部署中斷：

1. 移動遠端訪問。

1a. Expressway核心根和中繼CA上傳到Cisco Unified Communications Manager(CUCM)上，以便執行流量伺服器證書驗證。如果未更新中繼CA，則此TLS協商在2023年3月8日後中斷。

1b. 核心與Expressway之間的遍歷區域 — 如果任一上上載了DigiCert證書，則邊緣會中斷。

對2023年3月8日Expressway中間DigiCert全域性根CA證書到期進行疑難排解

「DigiCert Global Root CA」中間證書於2023年3月08日到期，必須用證書替換。

名稱：DigiCert SHA2 Secure Server CA

頒發者：DigiCert Global Root CA

有效期至：2023年3月08日

序列號：01:FD:A3:EB:6E:CA:75:C8:88:43:8B:72:4B:CF:BC:91

General Details Certification Path



Certificate Information

This certificate is intended for the following purpose(s):

- Proves your identity to a remote computer
- Ensures software came from software publisher
- Protects software from alteration after publication
- Protects e-mail messages
- Ensures the identity of a remote computer
- Allows data to be signed with the current time



* Refer to the certification authority's statement for details.

Issued to: DigiCert SHA2 Secure Server CA

Issued by: DigiCert Global Root CA

Valid from 3/8/2013 **to** 3/8/2023

Install Certificate...

Issuer Statement

OK



Trusted CA certificate

Failed: Expired certificates or CRLs detected in trusted CA file

Type	Issuer	Subject	Expiration date	Validity [▲]
<input checked="" type="checkbox"/> Certificate	O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root CA	Matches Issuer	Nov 09 2031	Valid
<input type="checkbox"/> Certificate	O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root CA	O=DigiCert Inc, CN=DigiCert SHA2 Secure Server CA	Mar 08 2023	Valid
<input type="checkbox"/> Certificate	O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert High Assurance EV Root CA	O=DigiCert Inc, CN=DigiCert SHA2 High Assurance Server CA	Oct 22 2028	Valid

Show all (decoded) Show all (PEM file) Delete **Select all** Unselect all

General Details Certification Path

Show: <All>

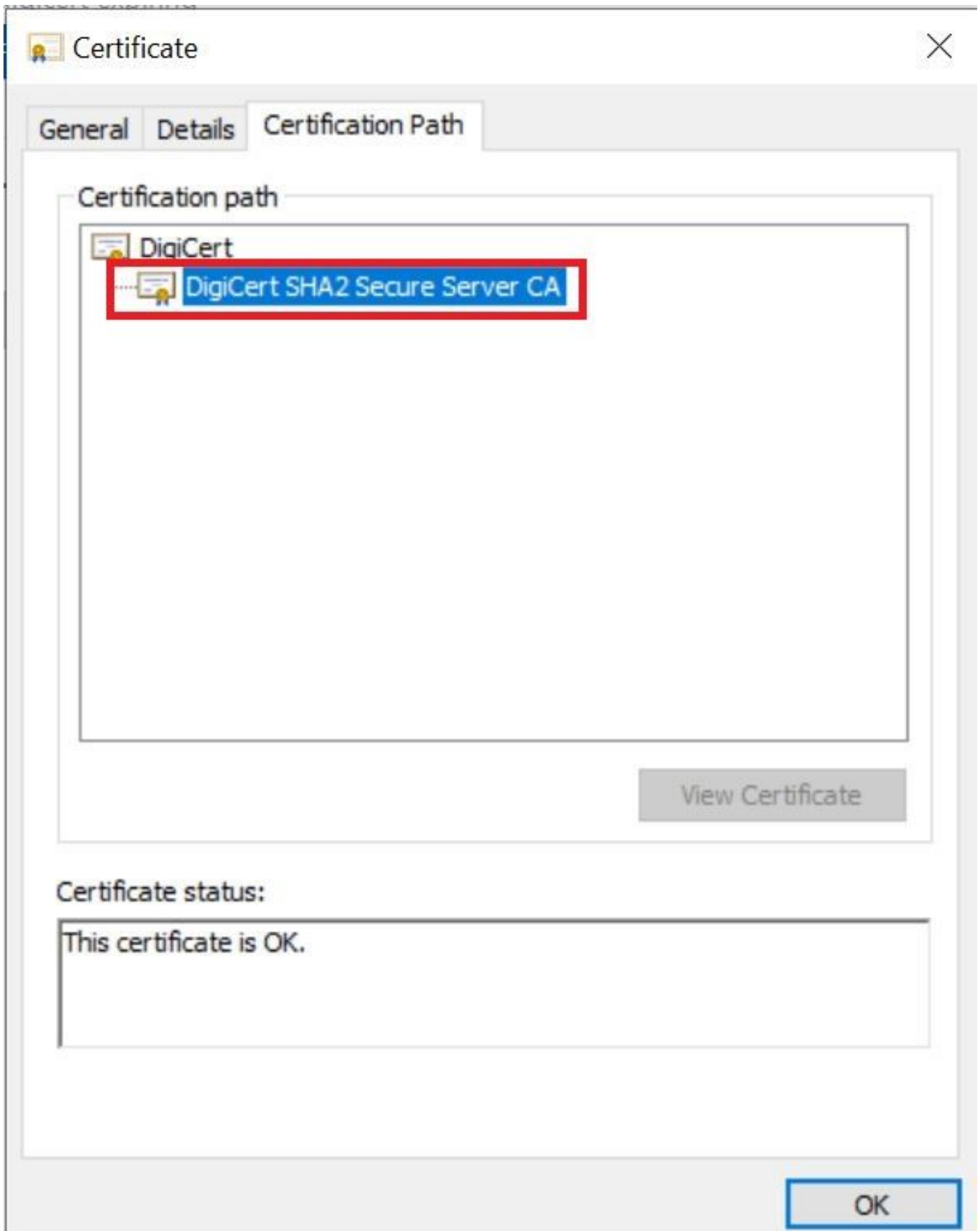
Field	Value
Version	V3
Serial number	01fda3eb6eca75c888438b724...
Signature algorithm	sha256RSA
Signature hash algorithm	sha256
Issuer	DigiCert Global Root CA, www...
Valid from	Friday, March 8, 2013 5:30:00..
Valid to	Wednesday, March 8, 2023 5:...
Subject	DigiCert SHA2 Secure Server

Friday, March 8, 2013 5:30:00 PM

Edit Properties...

Copy to File...

OK



已更新新證書：

名稱: DigiCert SHA2 Secure Server CA

頒發者： DigiCert Global Root CA

有效期至：2030年9月22日

序列號 : 02:74:2e:aa:17:ca:8e:21:c7:17:bb:1f:fc:fd:0c:a0

<https://www.digicert.com/kb/digicert-root-certificates.htm>

請參考連結在Expressway上上傳CA證書 ; <https://www.youtube.com/watch?v=aT73FQVDoDo>或導航至Maintenance > Security > Trusted CA certificate 如下圖所示。

The screenshot shows the Cisco Expressway-C interface. The top navigation bar includes Status, System, Configuration, Applications, Users, and Maintenance. The 'Maintenance' section is active, displaying 'Trusted CA certificate'. Below this is a table with columns for Type, Issuer, Subject, Expiration date, and Validity. There are four entries, all marked as 'Valid'. Below the table are buttons for 'Show all (decoded)', 'Show all (PEM file)', 'Delete', 'Select all', and 'Unselect all'. An 'Upload' section is present with a 'Browse...' button highlighted in a red box. Below the upload section are buttons for 'Append CA certificate' and 'Reset to default CA certificate'. A 'Related tasks' section is also visible.

Type	Issuer	Subject	Expiration date	Validity
<input type="checkbox"/> Certificate	O=Temporary CA f874e503-4897-40e6-a60b-e285faa029df, OU=Temporary CA f874e503-4897-40e6-a60b-e285faa029df, CN=Temporary CA f874e503-4897-40e6-a60b-e285faa029df	Matches Issuer	Feb 11 2023	Valid
<input type="checkbox"/> Certificate	O=QuoVadis Limited, CN=QuoVadis Root CA 2	Matches Issuer	Nov 24 2031	Valid
<input type="checkbox"/> Certificate	O=IdenTrust, CN=IdenTrust Commercial Root CA 1	Matches Issuer	Jan 16 2034	Valid
<input type="checkbox"/> Certificate	CN=federation-AD-CA-2	Matches Issuer	Apr 01 2027	Valid

This screenshot shows the same Cisco Expressway-C interface as above, but with a Windows File Upload dialog box overlaid on the right side. The dialog box is titled 'File Upload' and shows the 'Downloads' folder. A file named 'DigiCertSHA2SecureServerCA-2.crt.cer' is selected and highlighted with a red box. The 'File name' field at the bottom of the dialog also contains the same filename, and the 'Open' button is highlighted with a red box.



Trusted CA certificate

File uploaded: CA certificate file uploaded. File contents - Certificates: 1, CRLS: 0.

Type	Issuer	Subject	Expiration date	Validity
<input type="checkbox"/> Certificate	O=Temporary CA f874e503-4897-40e6-a60b-e285faa029df, OU=Temporary CA f874e503-4897-40e6-a60b-e285faa029df, CN=Temporary CA f874e503-4897-40e6-a60b-e285faa029df	Matches Issuer	Feb 11 2023	Valid
<input type="checkbox"/> Certificate	O=QuoVadis Limited, CN=QuoVadis Root CA 2	Matches Issuer	Nov 24 2031	Valid
<input type="checkbox"/> Certificate	O=IdenTrust, CN=IdenTrust Commercial Root CA 1	Matches Issuer	Jan 16 2034	Valid
<input type="checkbox"/> Certificate	CN=federation-AD-CA-2	Matches Issuer	Apr 01 2027	Valid
<input type="checkbox"/> Certificate	O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert Global Root CA	O=DigiCert Inc, CN=DigiCert SHA2 Secure Server CA	Sep 22 2030	Valid

Show all (decoded) Show all (PEM file) Delete Select all Unselect all

Upload

Select the file containing trusted CA certificates No file selected.

Append CA certificate Reset to default CA certificate

請參閱文檔，將新的expressway中間CA上傳到 CUCM;<https://www.cisco.com/c/en/us/support/docs/unified-communications/expressway/217748-upload-the-root-and-intermediate-certifi.html>

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。