

ESA了解自定义CA列表证书过期警报

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简介

本文档介绍升级到Async OS 14.x后思科安全邮件网关(ESA)上的自定义证书颁发机构(CA)证书过期警报以及解决方案解决方案。


使用的组件

本文档中的信息基于运行Async OS 14.0或更高版本的ESA。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

背景信息

在Async OS 14.x升级过程中,客户需要确认是否要将旧系统证书附加到自定义CA列表。14.0版本说明中也记录了这一点,如下面的屏幕截图所示,此处提供了完整的版本[说明](#)。

<p>Certificate Authority Configuration Changes</p>	<p>The Certificate Authority (CA) configuration changes are applicable in any one of the following scenarios:</p> <ul style="list-style-type: none"> • Upgrade from a lower AsyncOS version to AsyncOS 14.0 version and later. • Install AsyncOS 14.0 for Cisco Secure Email Gateway for the first time. <p>The following changes are made to the Certificate Authorities list:</p> <ul style="list-style-type: none"> • You can view the count and details of custom and system CA certificates in your email gateway. Use the Managed Trusted Root Certificates option in Network > Certificates > page to view the custom or system CA certificate details. • You can upload, delete, or append the custom CA certificate in your email gateway. • You will not be able to upload duplicate custom CA certificates to your email gateway. • [Applicable for new AsyncOS install only]: You can update the existing system CA certificate bundle to the latest available version. Use the Update Now option in Network > Certificates page in the web interface or the <code>updatenow</code> CLI command to update the existing system CA certificate bundle. • [Applicable for AsyncOS upgrade only]: <ul style="list-style-type: none"> - During upgrade, you can choose to append the valid CA certificates from the system CA bundle (of the current AsyncOS build) to the custom CA bundle of the upgraded AsyncOS build. <p> Note The backup of the current system CA bundle is stored in the following location - <code>/data/pub/systemca.old/trustedca.old.pem</code></p> <ul style="list-style-type: none"> - After upgrade, the system CA certificate bundle of the current AsyncOS build is updated to the latest version automatically.
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问题

升级到14.x后，随着时间推移，附加在自定义列表中的旧系统证书可能会过期，从而产生如下警报。

2021年6月26日 11:27:29 -0400您的证书“CA:Root CA Generalitat Valenciana”将在5天后过期。

这些警报表示升级时附加到自定义列表的旧系统证书即将过期，或之前使用的自定义证书即将过期。

解决方案

请注意，自定义列表中旧系统证书的警报是信息性的，您可以选择从自定义列表中删除它们或让它

们过期。

它不会影响服务，但对于某些人而言，它会收到不理想的警报。

如果您看到组织要求的自定义CA证书的警报，并且当前不属于系统列表的一部分，您可以联系相关CA以获取更新的证书，并按照此处最终用户指南中的概述进行[替换](#)。

系统CA证书捆绑包在升级后自动更新，并且定期更新，自定义列表中证书的过期不会影响系统列表中证书的工作。

要验证系统列表和自定义列表是否同时启用，请导航至网络 —>证书 —>证书颁发机构：编辑设置

您还可以从同一导航菜单导出系统和自定义列表，或根据需要使用CLI certconfig -> certauthority命令手动审核两个列表中的证书。

如果要删除在自定义CA列表中生成警报的证书，以下是管理员可使用SSH对设备执行的步骤。

注意：请根据警报，验证证书在自定义列表中的名称/位置，因为警报可能与下面看到的示例输出不同。

```
example.com> certconfig
```

```
Choose the operation you want to perform:
```

- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
- CRL - Manage Certificate Revocation Lists

```
[> certauthority
```

```
Certificate Authority Summary
```

```
Custom List: Enabled
```

```
System List: Enabled Choose the operation you want to perform:
```

- CUSTOM - Manage Custom Certificate Authorities
- SYSTEM - Manage System Certificate Authorities

```
[> custom
```

```
Choose the operation you want to perform:
```

- DISABLE - Disable the custom certificate authorities list
- IMPORT - Import the list of custom certificate authorities
- EXPORT - Export the list of custom certificate authorities
- DELETE - Remove a certificate from the custom certificate authority list
- PRINT - Print the list of custom certificate authorities
- CHECK_CA_FLAG - Check CA flag in uploaded custom CA certs

```
[> delete
```

```
You must enter a value from 1 to 104.
```

1. [AAA Certificate Services]
2. [ANCERT Certificados CGN]
3. [ANCERT Certificados Notariales]
4. [ANCERT Corporaciones de Derecho Publico]
5. [Actalis Authentication Root CA]
6. [Admin-Root-CA]
7. [Agence Nationale de Certification Electronique]
8. [Agence Nationale de Certification Electronique]
9. [America Online Root Certification Authority 1]
10. [America Online Root Certification Authority 2]
11. [Autoridad Certificadora Raiz de la Secretaria de Economia]
12. [Autoridad de Certificacion de la Abogacia]
13. [Baltimore CyberTrust Root]

14. [COMODO Certification Authority]
15. [COMODO RSA Certification Authority]
16. [Certipost E-Trust TOP Root CA]
17. [Certum CA]
18. [Chambers of Commerce Root]
19. [Cisco Root CA 2048]
20. [ComSign Advanced Security CA]
21. [ComSign CA]
22. [ComSign Secured CA]
23. [Cybertrust Global Root]
24. [D-TRUST Root Class 2 CA 2007]
25. [D-TRUST Root Class 3 CA 2007]
26. [DST Root CA X3]
27. [DigiCert Assured ID Root CA]
28. [DigiCert Baltimore CA-2 G2]
29. [DigiCert Global Root CA]
30. [DigiCert Global Root G2]
31. [DigiCert High Assurance EV Root CA]
32. [E-CERT ROOT CA]
33. [Echoworx Root CA2]
34. [Entrust Root Certification Authority - G2]
35. [Entrust Root Certification Authority]
36. [GLOBALTRUST]
37. [GeoTrust Global CA]
38. [GeoTrust Primary Certification Authority - G2]
39. [GeoTrust Primary Certification Authority - G3]
40. [GeoTrust Primary Certification Authority]
41. [GeoTrust RSA CA 2018]
42. [GeoTrust SSL CA - G2]
43. [GeoTrust Universal CA 2]
44. [GeoTrust Universal CA]
45. [Global Chambersign Root]
46. [GlobalSign PersonalSign 2 CA - SHA256 - G3]
47. [GlobalSign Root CA]
48. [GlobalSign]
49. [GlobalSign]
50. [Go Daddy Root Certificate Authority - G2]
51. [Hongkong Post Root CA 1]
52. [HydrantID SSL ICA G2]
53. [InfoNotary CSP Root]
54. [NetLock Minositett Kozjegyzoi (Class QA) Tanusitvanykiado]
55. [Network Solutions Certificate Authority]
56. [OISTE WISeKey Global Root GA CA]
57. [Post. Trust Root CA]
58. [QuoVadis Root CA 2]
59. [Root CA Generalitat Valenciana]
- <<<<<<<<<< Select this one based on sample alert above
60. [S-TRUST Authentication and Encryption Root CA 2005:PN]
61. [SSC Root CA A]
62. [SSC Root CA B]
63. [SSC Root CA C]
64. [Secure Global CA]
65. [SecureTrust CA]
66. [Serasa Certificate Authority III]
67. [Serasa Certificate Authority II]
68. [Serasa Certificate Authority I]
69. [Starfield Services Root Certificate Authority]
70. [SwissSign Gold CA - G2]
71. [SwissSign Platinum CA - G2]
72. [SwissSign Silver CA - G2]
73. [Swisscom Root CA 1]
74. [TC TrustCenter Class 2 CA II]
75. [TC TrustCenter Class 3 CA II]
76. [TC TrustCenter Class 4 CA II]

```
77. [TC TrustCenter Universal CA II]
78. [TC TrustCenter Universal CA I]
79. [TDC OCES CA]
80. [Trusted Certificate Services]
81. [UCA Global Root]
82. [UCA Root]
83. [USERTrust RSA Certification Authority]
84. [VAS Latvijas Pasts SSI(RCA)]
85. [VRK Gov. Root CA]
86. [VeriSign Class 3 Public Primary Certification Authority - G5]
87. [VeriSign Universal Root Certification Authority]
88. [Visa Information Delivery Root CA]
89. [Visa eCommerce Root]
90. [WellsSecure Public Root Certificate Authority]
91. [XRamp Global Certification Authority]
92. [thawte Primary Root CA - G3]
93. [thawte Primary Root CA] Select the custom ca certificate you wish to delete
[]> 59
```

```
Are you sure you want to delete "Root CA Generalitat Valenciana"? [N]> Y
Custom ca certificate "Root CA Generalitat Valenciana" removed
```

Choose the operation you want to perform:

```
- DISABLE - Disable the custom certificate authorities list
- IMPORT - Import the list of custom certificate authorities
- EXPORT - Export the list of custom certificate authorities
- DELETE - Remove a certificate from the custom certificate authority list
- PRINT - Print the list of custom certificate authorities
- CHECK_CA_FLAG - Check CA flag in uploaded custom CA certs
[]> [ENTER]
```

Certificate Authority Summary

Custom List: Enabled

System List: Enabled Choose the operation you want to perform:

```
- CUSTOM - Manage Custom Certificate Authorities
- SYSTEM - Manage System Certificate Authorities
[]> [ENTER]
```

Choose the operation you want to perform:

```
- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
- CRL - Manage Certificate Revocation Lists
[]> [ENTER]
```

```
example.com> commit
```

Please be sure to commit the change at the end.

相关信息

- [思科安全电邮网关版本说明](#)
- [思科安全电子邮件网关最终用户指南](#)