

Technical Note

TN569: Configuring Auto-Renewal Certificates on a Single Web Server in an On-Premises Symphia NowForce Installations

Products	Symphia NowForce On-Premises
Technical Note Type	User Guide
Exposure Level	Customer Facing
Description	This technical note provides the guidelines for configuring auto- renewal certificates on the web server in an Symphia NowForce On-Premises Installation.

Publication Date: December 25, 2023

Unauthorized use, duplication, or modification of this document in whole or in part without the written consent Intellicene Inc. is strictly prohibited. By providing this document, Intellicene Inc. is not making any representations regarding the correctness or completeness of its contents and reserves the right to alter this document at any time without notice. Features listed in this document are subject to change. Contact your Intellicene representative for current product features and specifications. All marks referenced herein with the ® or TM symbol are registered trademarks of Intellicene Inc. or its subsidiaries. All rights reserved. All other marks are trademarks of their respective owners.

© 2023 Intellicene Inc. All Rights Reserved Worldwide.

Contents

Contents	2
Overview	3
Prerequisites	
Configuring Auto-Renewal SSL Certificate	4

Overview

This technical note describes how to configure a single Web Server running IIS 7.5 in your NowForce on-prem installation to automatically renew its SSL certificate. The process makes use of the open-source certificate authority, <u>Let's Encrypt</u> and an open-source tool <u>Win-Acme</u>.

If your deployment contains more than one Web server, see *TN570 Configuring Auto-Renewal Certificates on Multiple Web Servers in an On-Premises Symphia NowForce Installation.*

Prerequisites

Ensure that you have all of the following perquisites in place before you begin.

- Open port 80, and ensure that it is available and is not being used by any other process, for example IIS binding for HTTP.
- Your domain with DNS is configured for this web server .
- The IIS website with binding is configured for both HTTPS and for your domain.
- You have full administrative rights on the web server.

Configuring Auto-Renewal SSL Certificate

- ▼ To set auto-renewal certificate on your Windows Web Server
- 1. Download Win-ACME and extract the files to c:\win-acme.

<mark>_</mark> → T	his PC > Local Disk (C:) > Win-acme :	win-acme.v2.2.6.1571.x64.trimmed	d >	ٽ ~
	Name	Date modified	Туре	Size
55	Scripts	11/22/2023 10:25 AM	File folder	
	public_suffix_list.dat	9/26/2023 6:26 AM	DAT File	222 KB
s	settings.json	9/26/2023 6:26 AM	JSON File	3 KB
settings_defau	settings_default.json	9/26/2023 6:26 AM	JSON File	3 KB
ts	version.txt	9/26/2023 6:31 AM	Text Document	1 KB
le le	🤗 wacs.exe	9/26/2023 6:31 AM	Application	19,783 KB
15	🖭 Web_Config.xml	9/26/2023 6:26 AM	XML Document	1 KB

2. Run wacs.exe.

```
C:\Win-acme\win-acme.v2.2.6.1571.x64.trimmed\wacs.exe
```

```
A simple Windows ACMEv2 client (WACS)
Software version 2.2.6.1571 (release, trimmed, standalone, 64-bit)
Connecting to https://acme-v02.api.letsencrypt.org/...
Connection OK!
Scheduled task not configured yet
Please report issues at https://github.com/win-acme/win-acme
N: Create certificate (default settings)
M: Create certificate (full options)
R: Run renewals (0 currently due)
A: Manage renewals (0 total)
O: More options...
Q: Quit
```

3. Enter n to create new certificate.



4. Select your website and binding, or alternatively choose all sites and all bindings as shown in the example below.



5. If requested, accept terms of service and provide your email.



6. Review the output to confirm the tasks were successful.



7. From the Windows taskbar, open Task Scheduler.

- 8. In **Task Schedular Library**, stand on the task that was added **win-acme renew** and right click, select **Properties** to view the to display the task information.
- 9. Review the scheduled task to renew the certificate is created. Click OK to exit.

Note

- The start time (Trigger) is set for 9 am daily.
- This task renews only when the certificate is about to expire, not every day.

Name	Status	Triggers	Next Run Time
Certbot Renew Task	Ready	Multiple triggers defined	11/22/2023 4:06:00 PM
④ MicrosoftEdgeUpdat	Ready	Multiple triggers defined	11/23/2023 10:59:13 AM
④ MicrosoftEdgeUpdat	Ready	At 10:29 AM every day - After triggered, repeat every 1 hour for a duration of 1 day.	11/22/2023 11:29:13 AM
🕒 win-acme renew (ac	Ready	At 9:00 AM every day	11/23/2023 9:14:07 AM
< General Triggers Action	is Cond	ditions Settings History (disabled)	
Name: win-acme	renew (a	cme-v02.api.letsencrypt.org)	
Location: \			
Author:			
Description: Check for	renewal	of ACME certificates.	

- 10. In the Windows taskbar, open IIS.
- 11. Right-click on your site name and select Edit Bindings.
- 12. Double click the **site name** to display the **Edit Site Binding** window and click **View** to display the new certificate. Click **OK** to close.

Edit Site Binding			?	×
Type: https ∨	IP address: All Unassigned	Port:		
Host name:				
sosmap.live				
Require Server Nar	ne Indication			
Disable TLS 1.3 ove	r TCP Disable QUIC			
Disable Legacy TLS	Disable HTTP/2			
Disable OCSP Stapling				
SSL certificate:				
[IIS] (any site), (any ho	ost) @ 2023/11/22 ~	Select	View	
				_
		ОК	Cancel	
				-

13. Open a Chrome browser and navigate to your website, confirm that the lock icon appears in adjacent to the site's URL. This is the indication that the site is now secured with an up to date certificate.



14. Click on the ▲ (lock icon) and navigate to **Connection is Secure** > **Certificate is valid** to display the certificate's details.

Certificate Viewer: sosmap.live		
General Details		
Issued To		
Common Name (CN) Organization (O) Organizational Unit (C	sosmap.live <not certificate="" of="" part=""> <not certificate="" of="" part=""></not></not>	
Issued By		
Common Name (CN) Organization (O) Organizational Unit (C	R3 Let's Encrypt OU) <not certificate="" of="" part=""></not>	
Validity Period		
Issued On Expires On	Wednesday, November 22, 2023 at 6:09:56 PM Tuesday, February 20, 2024 at 6:09:55 PM	
SHA-256 Fingerprints		
Certificate 6 3	46b615a839f3d01170a6ee920d07696e23f3d803bf11abf2f1825fcd3c 856	9
Public Key 7 b	772d8f55d925689576e8712698959ea7462341530b4904b0c76d5e79 i6ce6f	f