

# Adding SAN (Subject Alternative Name” into “Additional Attributes” field on a Microsoft Certificate Authority certificate request form does not generate a certificate with a SAN entry

 [terenceluk.blogspot.com/2017/09/adding-san-subject-alternative-name.html](http://terenceluk.blogspot.com/2017/09/adding-san-subject-alternative-name.html)

## Problem

You’ve completed the process of creating a new keystore with a CSR from the Portecle utility:

<http://portecle.sourceforge.net/>

Since the Portecle utility does not provide the feature to include SAN entries:

<https://www.sslsupportdesk.com/portecle-advanced-keystore-creation-and-manipulation-tool/>

This isn’t usually a problem because it is possible to add SAN entries in the **Additional Attributes** field when submitting the CSR to a Microsoft Certificate Authority server as described here:

## How to add a subject alternative name to a secure LDAP certificate

<https://support.microsoft.com/en-us/help/931351/how-to-add-a-subject-alternative-name-to-a-secure-ldap-certificate>

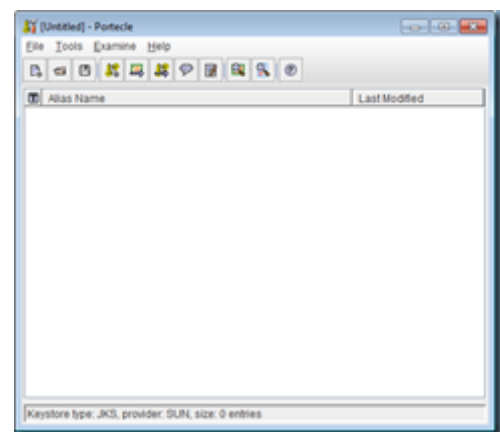
An example of the format of the string to include is:

**san:dns=corpdc1.fabrikam.com&dns=ldap.fabrikam.com**

You proceed to submit the request:

... but notice that the generated certificate does not include a SAN entry.

## Solution



4. Specify the following information:
- **Signature Algorithm:** Leave as default SHA256 with RSA
  - **Validity (days):** Leave as Default. If you enroll for a CA SSL Certificate this will be overridden depending on your enrollment for a SSL certificate.
  - **Common Name (CN):** FQDN (fully-qualified domain name) of the server (e.g., www.domain.com, mail.domain.com, or for wildcard certificate \*.domain.com). IPs are not accepted for enrollment of a CA SSL Certificate.  
**Note:** If you want to generate a SAN/UCC (Multidomain Certificate) Portecle lacks the ability to add SANs into the keypair/CSR, BUT that does not mean you can't get a Multidomain Certificate from a CA (certificate Authority). When enrolling for a SAN certificate from a CA they usually require you to specify the extra domains to add, regardless of what is on the CSR. Basically the CA will add those extra domains you require expanding the functionality of the certificate when it gets issued.
  - **Organisational Unit (OU):** A department name, such as 'Information Technology'.
  - **Organisation Name (O):** The full legal name of the organization.
  - **Locality Name (L):** City where the Organization is located. do not abbreviate.
  - **State Name (ST):** State, or Province where the organization is located. Do not abbreviate.
  - **Country Name (C):** City, state, and country where the organization is located. Do not abbreviate.
  - **Contact Email (E):** Your email.

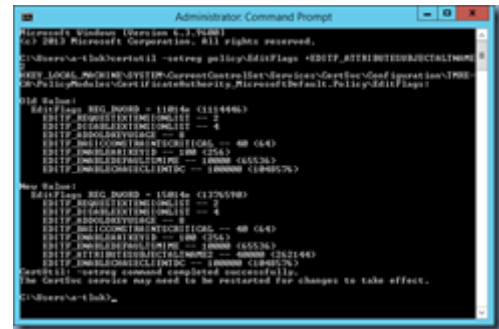
One of the reasons why performing the above would not generate a certificate that includes a SAN entry is if the issuance policy of the Microsoft CA is not configured to accept the Subject Alternative Name(s) attribute via the CA Web enrollment page. To correct this, execute the following command:

**certutil -setreg policy\EditFlags  
+EDITF\_ATTRIBUTESUBJECTALTNAME2**

Once the above command is executed, stop and start the certificate authority with:

**net stop certsvc  
net start certsvc**

Proceed to use the CA web enrollment page to generate the certificate with the SAN entry.



## Security Concerns:

Note that as per the following Microsoft article:

[https://technet.microsoft.com/en-us/library/ff625722\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/ff625722(v=ws.10).aspx)

It is not recommended to enable the acceptance of the SAN attribute for the CA Web enrollment page so please review the **Security best practices for allowing SANs in certificates** section in the article above to be aware of the security concerns.