

## NAME

`ne_ssl_cert_identity`, `ne_ssl_cert_signedby`, `ne_ssl_cert_issuer`, `ne_ssl_cert_subject` - functions to access certificate properties

## SYNOPSIS

```
#include <ne_ssl.h>
```

```
const char *ne_ssl_cert_identity(const ne_ssl_certificate *cert);
```

```
const ne_ssl_certificate *ne_ssl_cert_signedby(const ne_ssl_certificate *cert);
```

```
const ne_ssl_dname *ne_ssl_cert_subject(const ne_ssl_certificate *cert);
```

```
const ne_ssl_dname *ne_ssl_cert_issuer(const ne_ssl_certificate *cert);
```

## DESCRIPTION

The function **ne\_ssl\_cert\_identity** retrieves the "identity" of a certificate; for an SSL server certificate, this will be the hostname for which the certificate was issued. In PKI parlance, the identity is the *common name* attribute of the distinguished name of the certificate subject.

The functions **ne\_ssl\_cert\_subject** and **ne\_ssl\_cert\_issuer** can be used to access the objects representing the distinguished name of the subject and of the issuer of a certificate, respectively.

If a certificate object is part of a certificate chain, then **ne\_ssl\_cert\_signedby** can be used to find the certificate which signed a particular certificate. For a self-signed certificate or a certificate for which the full chain is not available, this function will return NULL.

## RETURN VALUE

**ne\_ssl\_cert\_issuer** and **ne\_ssl\_cert\_subject** are guaranteed to never return NULL. **ne\_ssl\_cert\_identity** may return NULL if the certificate has no specific "identity". **ne\_ssl\_cert\_signedby** may return NULL as covered above.

## EXAMPLES

The following function could be used to display information about a given certificate:

```
void dump_cert(const ne_ssl_certificate *cert) {
    const char *id = ne_ssl_cert_identity(cert);
    char *dn;

    if (id)
```

```
    printf("Certificate was issued for '%s'.\n", id);

    dn = ne_ssl_readable_dname(ne_ssl_cert_subject(cert));
    printf("Subject: %s\n", dn);
    free(dn);

    dn = ne_ssl_readable_dname(ne_ssl_cert_issuer(cert));
    printf("Issuer: %s\n", dn);
    free(dn);
}
```

**SEE ALSO**

ne\_ssl\_cert\_cmp, ne\_ssl\_readable\_dname

**AUTHOR**

**Joe Orton** <neon@lists.manyfish.co.uk>

Author.

**COPYRIGHT**