

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

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