

# Windows Native SSL: Secure Communication

Version 9.0.0.1

October 23, 2025

```
(require net/win32-ssl)      package: base
```

The `net/win32-ssl` module offers a fraction of the functionality of `openssl` and works only on Windows, but it has the advantage that it works before OpenSSL libraries are installed.

```
(win32-ssl-connect hostname
                    port-no
                    [client-protocol])
→ (and/c input-port? win32-ssl-port?)
   (and/c output-port? win32-ssl-port?)
   hostname : string?
   port-no : (integer-in 1 65535)
   client-protocol : (or/c 'secure 'auto
                           'sslv2-or-v3 'sslv2 'sslv3 'tls 'tls11 'tls12)
                       = 'auto
```

Like `ssl-connect`, but without support for client contexts.

```
(win32-ssl-abandon-port in) → void?
  in : (and/c win32-ssl-port? output-port?)
```

Analogous to `ssl-abandon-port`.

```
(ports->win32-ssl-ports input-port
                        output-port
                        #:encrypt protocol
                        [#:hostname hostname])
→ (and/c input-port? win32-ssl-port?)
   (and/c output-port? win32-ssl-port?)
   input-port : input-port?
```

```

output-port : output-port?
protocol : (or/c 'secure 'auto
               'sslv2-or-v3 'sslv2 'sslv3 'tls 'tls11 'tls12)
hostname : (or/c #f string?) = #f

```

Analogous to `ports->ssl-ports`.

If hostname verification is enabled via `'secure`, the peer server's certificate is checked against `hostname`.

Changed in version 6.3.0.12 of package `base`: Added the `#:hostname` argument.

```

(win32-ssl-port? v) → boolean?
  v : any/c

```

Returns `#t` if `v` is an SSL port produced by `win32-ssl-connect` or `ports->win32-ssl-ports`.

```

win32-ssl-available? : boolean?

```

A boolean value that reports whether the Windows native SSL library was successfully loaded. Calling `win32-ssl-connect`, etc. when this value is `#f` will raise an exception.