## Windows Native SSL: Secure Communication

Version 8.17.0.2

## May 9, 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) \rightarrow 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?
```

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) \rightarrow boolean?
v : any/c
```

Returns #t of 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.