

Windows Native SSL: Secure Communication

Version 9.0.0.11

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```
(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` 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.