

# Windows Native SSL: Secure Communication

Version 6.2

June 19, 2015

```
(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 'sslv2-or-v3 = 'sslv2-or-v3
                          'sslv2
                          'sslv3
                          'tls)
```

Like `ssl-connect`, but without support for client contexts (which could enable certificate checking, for example).

```
(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])
→ (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 'sslv2-or-v3 'sslv2 'sslv3 'tls)  
           = 'sslv2-or-v3
```

Analogous to `ports->ssl-ports`.

```
(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.