Listening Using Multiple Protocols

Ordinarily, the Directory Server listens on only one port using only one protocol. If, however, you want different services of that qualified URL to use different protocols, you must set up a listen URL for each protocol of the target, specifying a different port number for each listen URL. Software AG Directory Server allows you to set up eight listen URLs for the same target.

For example, you might create two listen URLs for a target that looks like this in SMH:

listen	ssl://localhost:1001?cert_file=xtscappcert.pem&key_file=xtscappkey.pem&cert_passwd=ppppsw
listen	tcpip://localhost:1000

When these two URLs are specified, Software AG Directory Server listens on ports 1000 using the TCP/IP protocol and on port 1001 using the SSL protocol.

And, if your Directory Server is named XTSDS, these listen entries would look like this internally:

```
XTSlisten.XTSDS[0]=tcpip://localhost:1000
XTSlisten.XTSDS[0]=ssl://localhost:1001?cert_file=xtscappcert.pem&key_file=xtscappkey.pem&cert_passwd=ppppsw
```

▶ **To create these entries:**

- In SMH, create two identical qualified URLs for the same target, but specify different ports and protocols for each URL. For information on creating qualified URLs for a target, read *Adding Qualified URLs for the Target*.