

ArcSDE Installation Notes on Windows

I am taking a few notes as I set up ArcSDE 9.2 backed by Oracle 10.0.2 ...

- Oracle Installation
 - Oracle Tweaks for ArcSDE
 - ORA-12514: TNS:listener could not resolve SERVICE_NAME given in connect descriptor
- ArcSDE Installation

Oracle Installation

Seems straight forward enough ... except

Oracle Tweaks for ArcSDE

ORA-12514: TNS:listener could not resolve SERVICE_NAME given in connect descriptor

It seems that Oracle has moved on past what ESRI supports by way of letting management application hack away and add tables. We need to go into an internal file and add a couple of lines to **listener.ora**

```
(SID_DESC =  
  (GLOBAL_DBNAME = ORCL.WORLD)  
  (ORACLE_HOME = C:\oracle\product\10.1.0\Db_1)  
  (SID_NAME = ORCL)  
)
```

Basically ArcSDE needs to use this GLOBAL_DBNAME setting in order to know what database to add an SDE user to and set up its tables. GLOBAL_DBNAME is no longer used by others to the point Oracle has stopped having it around by default.

On windows the file will look something like this when you are done:

```

# listener.ora Network Configuration File:
C:\oracle\product\10.1.0\Db_1\network\admin\listener.ora
# Generated by Oracle configuration tools.
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = PLSExtProc)
      (ORACLE_HOME = C:\oracle\product\10.1.0\Db_1)
      (PROGRAM = extproc)
    )
    (SID_DESC =
      (GLOBAL_DBNAME = ORCL.WORLD)
      (ORACLE_HOME = C:\oracle\product\10.1.0\Db_1)
      (SID_NAME = ORCL)
    )
  )
)
LISTENER =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (ADDRESS_LIST =
        (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC))
      )
      (ADDRESS_LIST =
        (ADDRESS = (PROTOCOL = TCP)(HOST = chicken)(PORT = 1521))
      )
    )
  )
)

```

After you have added these lines you need to kick the listener to notice the file:

```
C:\Documents and Settings\Administrator> lsnrctl stop
```

```
LSNRCTL for 32-bit Windows: Version 10.1.0.2.0 - Production on 18-APR-2008 16:45:07
```

```
Copyright (c) 1991, 2004, Oracle. All rights reserved.
```

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC)(KEY=EXTPROC)))
```

```
The command completed successfully
```

```
C:\Documents and Settings\Administrator> lsnrctl start
```

```
LSNRCTL for 32-bit Windows: Version 10.1.0.2.0 - Production on 18-APR-2008 16:46:29
```

```
Copyright (c) 1991, 2004, Oracle. All rights reserved.
```

```
Starting tnslnsr: please wait...
```

```
TNSLSNR for 32-bit Windows: Version 10.1.0.2.0 - Production
```

```
System parameter file is C:\oracle\product\10.1.0\Db_1\network\admin\listener.ora
```

```
Log messages written to C:\oracle\product\10.1.0\Db_1\network\log\listener.log
```

```
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(PIPENAME=\\.\pipe\EXTPROCipc)))
```

```
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=chicken)(PORT=1521)))
```

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC)(KEY=EXTPROC)))
```

```
STATUS of the LISTENER
```

```
-----  
Alias LISTENER
```

```
Version TNSLSNR for 32-bit Windows: Version 10.1.0.2.0 - Production
```

```
Start Date 18-APR-2008 16:46:31
```

```
Uptime 0 days 0 hr. 0 min. 2 sec
```

```
Trace Level off
```

```
Security ON: Local OS Authentication
```

```
SNMP OFF
```

```
Listener Parameter File C:\oracle\product\10.1.0\Db_1\network\admin\listener.ora
```

```
Listener Log File C:\oracle\product\10.1.0\Db_1\network\log\listener.log
```

```
Listening Endpoints Summary...
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(PIPENAME=\\.\pipe\EXTPROCipc)))
```

```
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=chicken)(PORT=1521)))
```

```
Services Summary...
```

```
Service "ORCL.WORLD" has 1 instance(s).
```

```
Instance "ORCL", status UNKNOWN, has 1 handler(s) for this service...
```

```
Service "PLSExtProc" has 1 instance(s).
```

```
Instance "PLSExtProc", status UNKNOWN, has 1 handler(s) for this service...
```

```
The command completed successfully
```

```
C:\Documents and Settings\Administrator> lsnrctl reload
```

```
LSNRCTL for 32-bit Windows: Version 10.1.0.2.0 - Production on 18-APR-2008 16:47:33
```

```
Copyright (c) 1991, 2004, Oracle. All rights reserved.
```

```
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC)(KEY=EXTPROC)))
```

```
The command completed successfully
```

ArcSDE Installation