Manually Configuring the Directory Server

Most configuration specifications for Directory Server can be made using SMH. Manual configuration of the Directory Server might be required is a configuration is lost or corrupted. Under normal circumstances, manual configuration is not required.

If you need to perform manual configuration of the Directory Server, please contact Software AG Customer Support for assistance.

This chapter covers the following topics:

- Windows Manual Configuration

- UNIX Manual Configuration

Windows Manual Configuration

▶ **To manually configure the Directory Server:**

1. Position to the Software AG Directory Server installation directory.

2. Set the Directory Server parameters.

3. Register the Directory Server service.

4. Start the Directory Server service.

5. Confirm the configuration.

Refer to the following sections (Example Commands (Windows) and Example Commands (UNIX) for examples of each of these steps.

- Example Commands (Windows)

- Special Considerations

Example Commands (Windows)

Note in the following commands "x:" is used to indicate the drive where the Software AG Directory Server has been installed. This would normally be the "C" drive. Substitute the installation's actual value before issuing the commands. From a Windows command prompt window, issue the following commands:

Activity	Example Command
Position to the Software AG Directory Server installation directory.	`cd x:\Program Files\Software AG\Directory Server`
Set the Directory Server parameters.	`xtsdssvc -name XTSDIR -port 0 -directory INIDIR -dirparms "file=c:\Documents and Settings\All Users\Application Data\Software AG\xtsurl.cfg" -logdir "c:\Document and Settings\All Users\Application Data\Software AG" -trace 0 -debug 0`
Register the Directory Server service.	`xtsdssvc -register`
Start the Directory Server service.	`xtsdssvc -start`
Confirm the configuration.	`xtsdssvc -status`

Once the Directory Server is registered it will be automatically started at boot time. The Windows **Services** control panel application can be used to confirm the automatic start setting. Navigate the following program items to get to the services control panel applet: **Start>Settings>Control Panel>Administrative Tools>Services (Windows 2000)** . The Software AG Directory Server service is listed as **Software AG Directory Server**.

Special Considerations

This section covers the following topics:

- The -port 0 Setting
- The -dirparms Setting
- SAGXTSDShost Needs to be Set
- The xtsdssvc -help Command

The -port 0 Setting

Setting the `port` parameter to "0" indicates that the actual port to be used is determined by the DNS resolution of *SAGXTSDSport*. If *SAGXTSDSport* is not resolved, then port "12731" is used. The port number is encoded as an IP address, explained below. One should determine the setting or non-setting of *SAGXTSDSport*. If set, then confirm that the desired port is encoded correctly. To confirm, issue the following ping command:

```
PING SAGXTSDSport
```

Text similar to the following should appear if SAGXTSDSport is defined:

```
Pinging SAGXTSDSport [49.187.0.0] with 32 bytes of data:
```

```
Reply from 206.24.181.1: Destination host unreachable.

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Ping statistics for 49.187.0.0:
Packets:

Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum =0ms, Maximum = 0ms, Average = 0ms
```

The "Destination host unreachable" is expected as the *SAGXTSDSport* is the port number encoded as an IP address and as such is not a real IP address.

The port as an IP address encoding is done as follows:" port/256.port%256.0.0"

In above case, "49.187.0.0" equates to "12731" (i.e., `256*49+187`).

If *SAGXTSDSport* is set but is not encoded to the the desired port value then one of the following should be done:

1. Correct DNS entry.

2. Define *SAGXTSDSport* in the local "hosts" file.

    ● Under windows the local hosts file can be found at *%systemroot%\system32\drivers\etc*

    ● Example entry for using port 12731: "49.187.0.0 SAGXTSDSport ".

The -dirparms Setting

The `-dirparms` parameter specifies the fully qualified name of the flat file repository to be used by the Directory Server. There should be an *xtsurl.cfg* file in the standard Windows application data subdirectory:

c:\Documents and Settings\All Users\Application Data\Software AG.

SAGXTSDShost Needs to be Set

In order for applications to access the Directory Server, *SAGXTSDShost* must be set and point to the Directory Server host. If *SAGXTSDShost* is not set, confirm with a `PING SAGXTSDShost` command , then set *SAGXTSDShost* in one of the following ways:

● Define to a DNS server.

● Define in the local *hosts* file for each computer needing access to the Directory Server.

● Set an XTSDSURL environmental variable for any process that needs access to the Directory Server.

For example: `set xtsdsurl=tcpip://dirserverhost:port`.

The xtsdssvc -help Command

The command `xtsdssvc -help` will display help on other `xtsdssvc` commands.

UNIX Manual Configuration

Under UNIX, manual configuration is possible by modifying the *$SAG/common/bin/xtsdsdmn.sh* script.

The *SAGXTSDSport* and *SAGXTSDShost* settings should be confirmed as in the Windows case.

The *xtsurl.cfg* file is located at *$SAG/common/xts/com/softwareag/XTS*. If *xtsurl.cfg* does not exist at the location there should be an *xtsurl.ghost* file at that location. If no *xtsurl.cfg* exists at *$SAG/common/xts/com/softwareag/XTS* the *xtsurl.ghost* file can be renamed to *xtsurl.cfg*.