How to Start and Test the SAS Integration Technologies ® Object Spawner on a Windows Host

Part I: Starting the Object Spawner on a Windows host
Part II: Testing the connection

Part I: Starting the Object Spawner on a Windows host

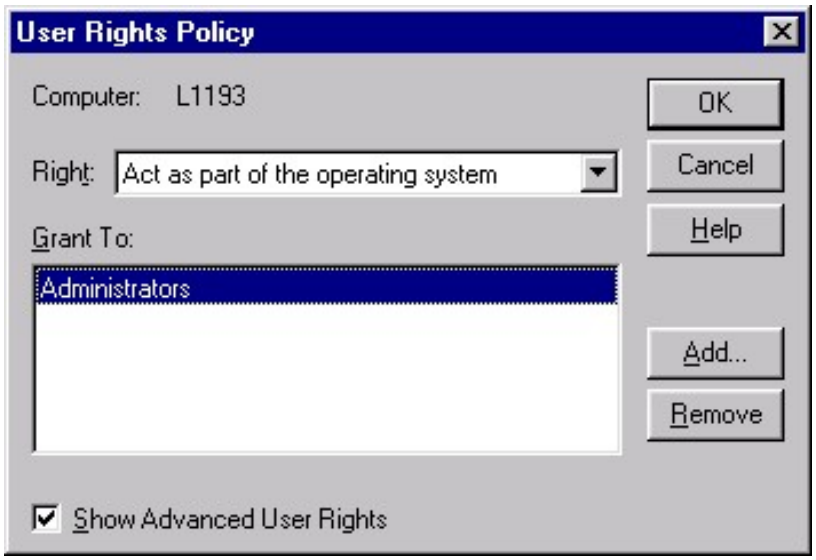
This document provides **basic** steps to start the Object Spawner on a Windows host. For more **detailed** steps, reference the following URL:

http://www.sas.com/rnd/itech/doc/admin/sasserver/iombridge/sp_suwin.html

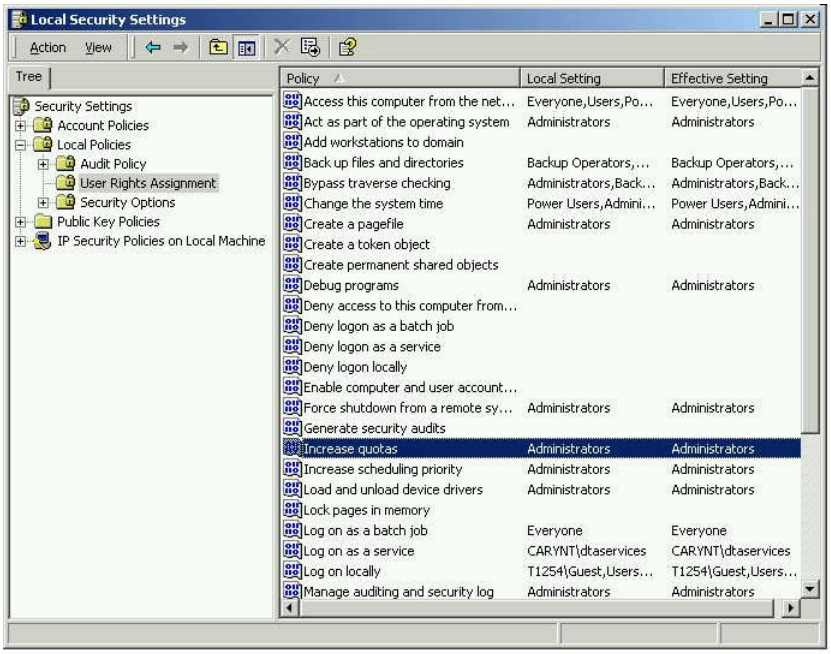
STEP 1:

Define Windows User Rights for Administrator. The user who invokes the spawner, in addition to being an administrator, must have the following user rights:

- **act as part of the operating system**
- **increase quotas**
- **replace the process level token**



Windows NT User Manager

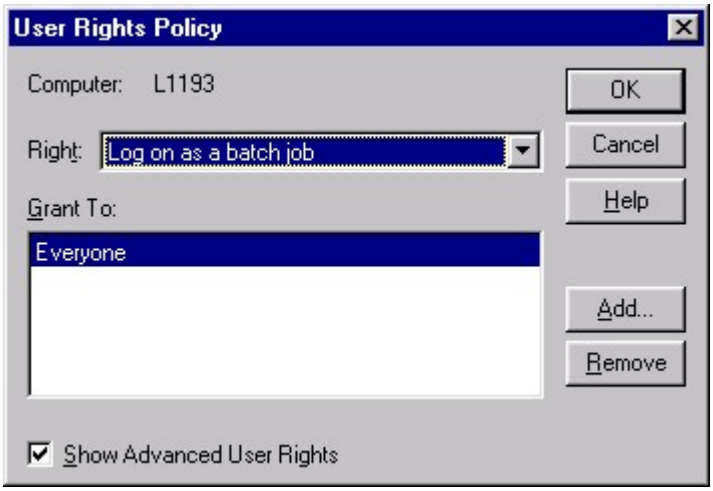


Windows 2000 Local Security Settings

Step 2:

Define Windows User Rights for each client that connects to the Spawner.

o log on as batch job



Step 3:

Create a LDIF file (also referred to as the Object Spawner configuration file). Using a Windows editor, create a configuration file with the following parameters and save it as C:\objspawn.cfg.

In the following example, the only change that may be necessary is the location of the SAS System on the sasCommand statement.

```
 sasCommand: "C:\Program Files\SAS Institute\SAS\V8\sas"
  -config "C:\Program Files\SAS Institute\SAS\V8\sasv8.cfg"
```

Note: The name and location of the configuration file is arbitrary. Also note that continuation lines (i.e. –config) begin in column 2 of the next line, the case of the text is mixed for readability purposes, and there can only be one blank line (excluding #comments) between the Spawner and Server definitions.

```
#
##  Define the Object Spawner Daemon to run on the
##  local machine
#
dn: sasSpawnercn=sasSpawn
objectClass: sasSpawner
sasMachineDNSName: localhost
sasSpawnercn: sasSpawn
sasOperatorPort: 5307
description: Object Spawner Daemon running on local machine

#
##  Define the Object Server to run on the local machine
#
dn: sasServercn=ObjectServer
objectClass: sasServer
sasServercn: ObjectServer
sasCommand: "C:\Program Files\SAS Institute\SAS\V8\sas"
 -config "C:\Program Files\SAS Institute\SAS\V8\sasv8.cfg"
sasMachineDNSName: localhost
sasPort: 5308
sasProtocol: bridge
description: My object server running on my local machine
```

Step 4:

Start the Object Spawner - manually

From a DOS command window (cmd), issue the following command to launch the Object Spawner using a configuration file:

(For SAS V8)

```
   C:\Program Files\SAS Institute\SAS\V8\inttech\sasexe> objspawn
       -configfile c:\objspawn.cfg
```

NOTE: For SAS V9, the Object Spawner executable is located in the !sasroot.

```
C:\Program Files\SAS System\SAS\V9> objspawn –configFile
      C:\objspawn.cfg
```

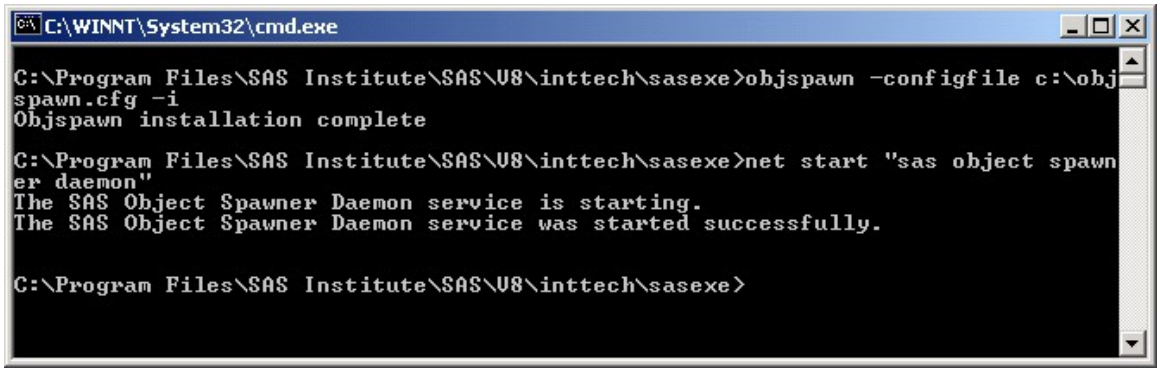
or as an alternative,

Install the Object Spawner as a Windows Service:

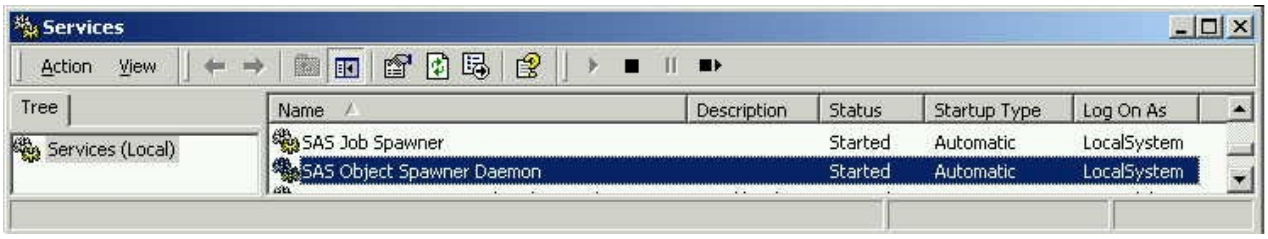
```
C:\Program Files\SAS Institute\SAS\V8\inttech\sasexe> objspawn
    -configfile c:\objspawn.cfg –i
```

Use the Windows "net start" command to start the Object Spawner as a Windows Service (case does not matter).

```
net start "sas object spawner daemon"
```



Note: When viewing the Object Spawner service in the Windows Services utility, the name of the service is called "SAS Object Spawner Daemon". If a SAS/CONNECT spawner is also installed as a Windows service, it is referenced as "SAS Job Spawner". It is possible to have both "spawners" running as a Windows service on the same system.



Reference the following URL for additional Object Spawner invocation options:

http://www.sas.com/rnd/itech/doc/admin/sasserver/iombridge/sp_start.html

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Part II: Testing the connection

Test the connection with one of the following:

1) Telnet

http://www.sas.com/rnd/itech/doc/admin/sasserver/iombridge/sp_admn.html

2) SAS/Integration Technologies Configuration Application (ITCONFIG.EXE)

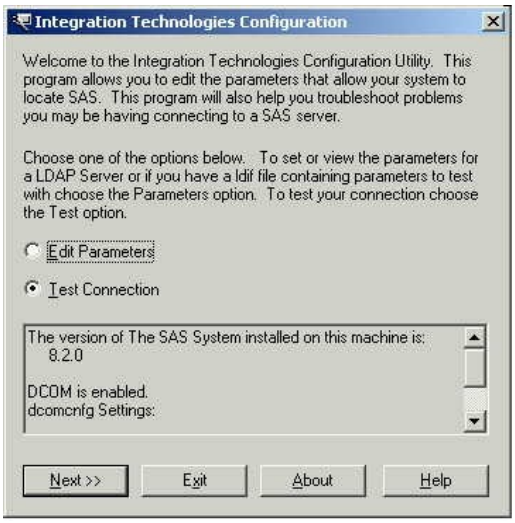
http://www.sas.com/rnd/itech/updates/index.html

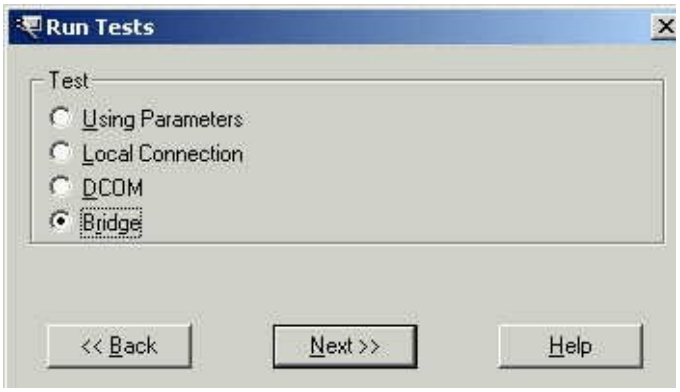
a) Download the Windows Client Development Component Package (inttech.exe). Place .exe in temporary folder.
b) Run the downloaded executable - inttech.exe
c) Files will be placed in the following folder:

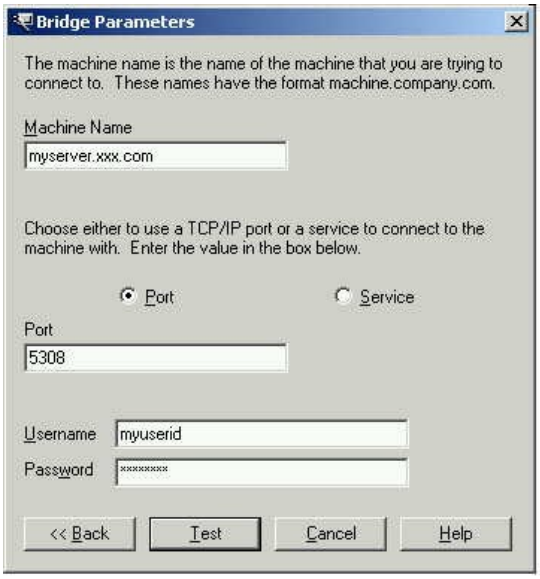
c:\Program Files\SAS Institute\Shared Files\Integration Technologies

d) Run the **ITCONFIG.EXE** utility found in the above folder.

For detailed instructions on using the IT Configuration Utility:
http://www.sas.com/rnd/itech/doc/admin/sasserver/iombridge/config.html

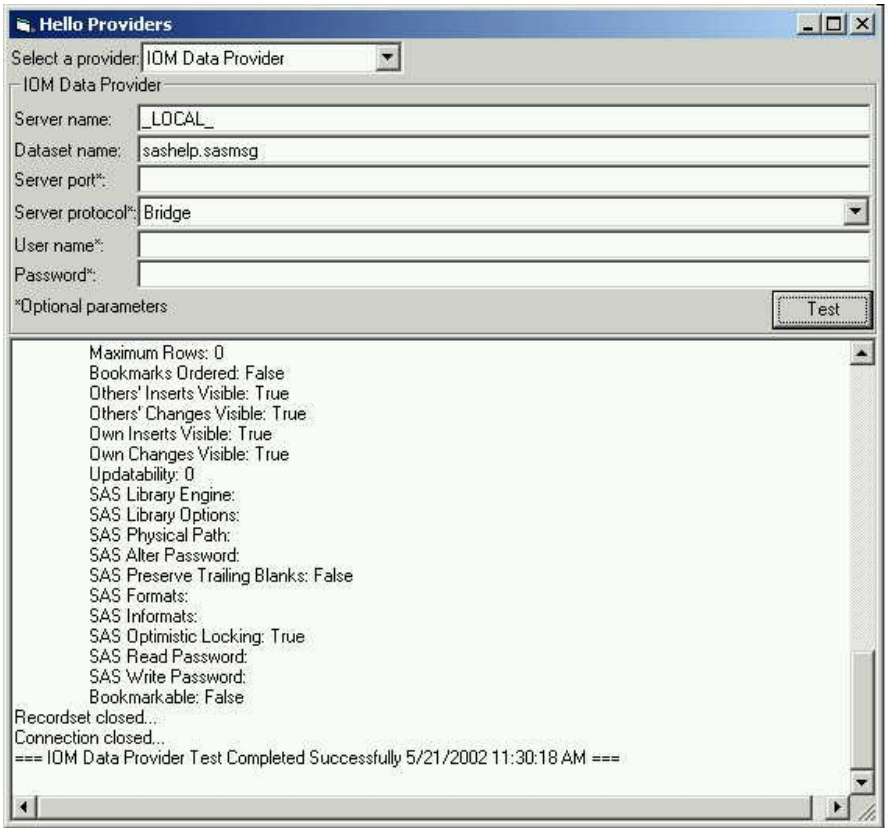






3) Visual Basic Hello Providers Sample program:

http://www.sas.com/rnd/eai/samples/hello/index.html



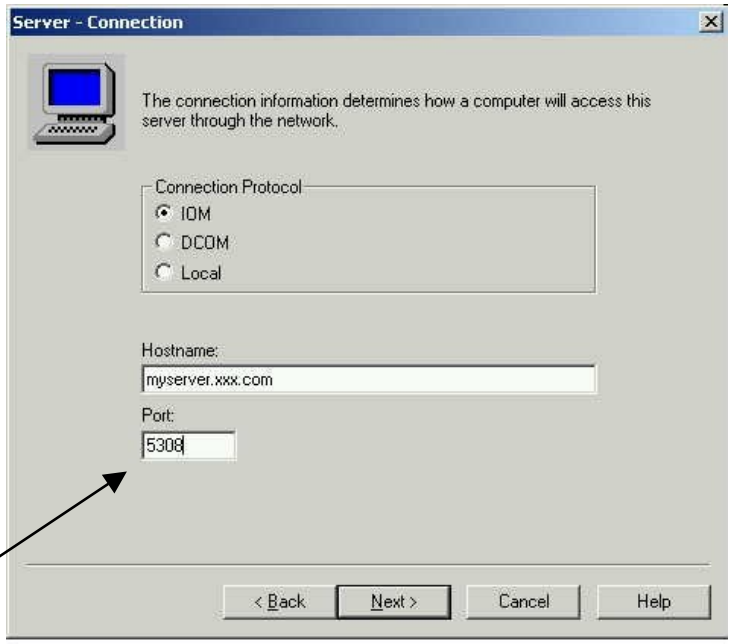
4) Enterprise Guide Administrator

Open Enterprise Guide Administrator (in Admin Mode), and define a new server:

FILE => New… => Server

On the Server – Connection window of the server definition, supply:

Connection Protocol: IOM
Hostname: Name/IP Address of machine where Object Spawner started
Port: 5308 (sasPort from Object Spawner Configuration file)



sasPort

```
          (Object Spawner Configuration File)
#
##  Define the Object Server to run on the local machine
#
dn: sasServercn=ObjectServer
objectClass: sasServer
sasServercn: ObjectServer
sasCommand: "C:\Program Files\SAS Institute\SAS\V8\sas"
 -config "C:\Program Files\SAS Institute\SAS\V8\sasv8.cfg"
sasMachineDNSName: localhost
sasPort: 5308
sasProtocol: bridge
description: My object server running on my local machine
```

Take the defaults for the remaining components of the server definition. The last window displays a **TEST** button. Select the TEST button to test the connection, and select the NEXT button to save the definition.