

Description: A guide to setting up GENESIS64 v10.61 components to depend on Microsoft SQL Server.

OS Requirement: Windows Server 2003 x64/Vista x64/ Server 2008 x64/Windows 7 x64/ Server 2008 R2 x64

General Requirement: Installation of GENESIS64 v10.61 and a supported Microsoft SQL Server (SQL Server and SQL Express 2008 R2, SQL Server and SQL Express 2008, SQL Server and SQL Express 2005) installed on the same machine.

Introduction

GENESIS64 modules use Microsoft SQL Server databases to store the configuration settings. When GENESIS64 starts the databases need to be available so that all settings can be loaded properly. This application note will walk you through the process of making GENESIS64 services depend on Microsoft SQL Server to help make sure the databases are ready when GENESIS64 needs them.

These steps only apply to systems where Microsoft SQL Server and GENESIS64 are installed on the same machine. If you are using a remote SQL Server then it's more likely that SQL Server will already be running when the GENESIS64 services need it, so there's no need to add a dependency.

Adding the Dependency to GENESIS64 Services

Having GENESIS64 10.61 services dependent on Microsoft SQL Server is especially important when rebooting the server and operating in an unattended environment. Sometimes the Microsoft SQL Server service may not start in time for the ICONICS GENESIS64 services.

An easy solution can be to change the startup type of the ICONICS GENESIS64 services from Automatic to Automatic (Delayed Start).

Automatic (Delayed Start) ▼

When a machine boots up, services with a startup type of Automatic will be started first, then once all of those services are running then the Automatic (Delayed Start) services will start. So this method is effective if the SQL Server service is Automatic and the GENESIS64 services are Automatic (Delayed Start).

Another solution is to add the dependency directly to the service, as described below.

Adding Dependency to ICONICS FrameWorX Service

Please create a text file in Notepad and save it as "set_IcoFwxServer_dependency.bat". The body of the file should match the text below:

```
@echo off
echo ICONICS 2011
echo Setting FrameWorX Server Dependency to SQL
Server fixing intermittent startup hang
echo !!This batch file accepts parameter as SQL
Server Named Instance name
if "%1"==" " goto noname
echo Using Named MS SQL Server instance name %1
sc config IcoFwxServer depend= "MSSQL$%1"
goto end
:noname
echo Using Default Microsoft SQL Server instance
MSSQLSERVER
sc config IcoFwxServer depend= "MSSQLSERVER"
:end
echo FrameWorX Server Dependency setting finished
```

Running this batch file sets IcoFwxServer to be dependent on Microsoft SQL Server. It may fix an issue of FrameWorX Server sporadically freezing during startup (caused by Microsoft SQL Server not being ready). The batch file accepts a parameter in order to register a dependency against a named Microsoft SQL Server instance. If no name is specified the service is set to be dependent on the default MS SQL Server instance.

Adding Dependency to ICONICS License Service

Please create another text file in Notepad and save it as "set_IcoLicenseService_dependency.bat". The body of the file should match the text below:

```
@echo off
echo ICONICS 2011
echo Setting Up Dependency of Licensing Service to
FrameWorX Server (fixes crashing at startup)
sc config IcoLicenseService depend= IcoFwxServer
echo Dependency setting finished
```

Running this batch file sets IcoLicenseService to be dependent on IcoFwxServer. It may fix an issue of the Licensing Service crashing during startup, which may occurs intermittently after machine reboot.

Resetting Service Dependency

In order to reset the service dependency, please create a text file in e.g. Notepad and save it as "reset_dependencies.bat". The body of the file should match the text below:



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```
@echo off
echo ICONICS 2011
echo This Batch File resets FrameWorX Server and
Licensing Service dependencies
echo resetting FrameWorX Server Dependency
sc config IcoFwxServer depend= ""
echo resetting Licensing Service Dependency
sc config IcoLicenseService depend= ""
```

Running this batch file resets any dependencies set on IcoFwxServer or IcoLicenseService to state they were in just after installation.

Please note that after setting the service dependency the dependent services are restarted together with their 'master' service upon their restart.

In general, the same approach can be applied to set any dependency of any NT service.