GENESIS64
Dependency on Microsoft SQL Server

APPLICATION NOTE

October 2015

Description: Guide to setting up GENESIS64 components to depend on Microsoft SQL Server.

Introduction

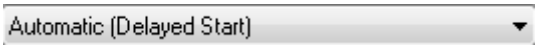
GENESIS64 modules use Microsoft SQL Server databases to store configuration settings. When GENESIS64 starts, the databases need to be available so that all settings can be loaded properly. This application note will walk you through the process of making GENESIS64 services depend on Microsoft SQL Server 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 services dependent on Microsoft SQL Server is especially important when rebooting the server and when operating in an unattended environment.

Sometimes ICONICS GENESIS64 services can start up before Microsoft SQL Server, which can cause issues on a production system. An easy solution can be to change the startup type of the ICONICS GENESIS64 services from Automatic to 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).

On the GENESIS64 DVD you can find an already created batch file for setting up a delayed start on GENESIS64 services - \Tools\HelpfulCommands\ Genesis64_SetDelayedServices.bat

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 2013
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. In order to run it, use the command prompt to pass in the name of the SQL Server instance. For example, if your instance name is SQLEXPRESS, you can use the following command:

- Set_IcoFwxServer_dependency SQLEXPRESS

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 2013
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:

```
@echo off
echo ICONICS 2013
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.