# Introduction to NI-FGEN .NET Class Library

Thank you for using the NI-FGEN .NET Class Library. This file contains important information about the NI-FGEN .NET Class Library and is organized into the following sections:

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## Driver Documentation

### Installed Software

### Note: To use the NI-FGEN .NET Class Library with National Instruments signal generators, the target system must also have the NI-FGEN instrument driver installed, version 15.0 or later.

### The NI-FGEN .NET Class Library installs files in the following locations:

### [NIPUBDOCS] is an alias for the following National Instruments file folder location:

### C:\Users\Public\Documents\National Instruments

### [IVISTANDARDROOTDIR] is an alias for the following IVI Foundation file folder location:

### 64-bit:

### C:\Program Files (x86)\IVI Foundation\IVI

### C:\Program Files\IVI Foundation\IVI\

### 32-bit:

### C:\Program Files\IVI Foundation\IVI

### [HELPDIR] is an alias for the following file folder location:

### 64-bit: C:\Program Files (x86)\IVI Foundation\IVI\Drivers

### 32-bit: C:\Program Files\IVI Foundation\IVI\Drivers

|  |  |
| --- | --- |
| Item | Default Installed Location |
| Assemblies | [IVISTANDARDROOTDIR]\v2.0.50727\IviFoundationSharedComponents 1.3.0\Ivi.Driver.dll  [IVISTANDARDROOTDIR]\v2.0.50727\IviFoundationSharedComponents 1.3.0\Ivi.Fgen.dll  [IVISTANDARDROOTDIR]\v4.5.50709\NationalInstruments.ModularInstruments.NIFgen 16.0.0\NationalInstruments.ModularInstruments.NIFgen.Fx45.dll  [IVISTANDARDROOTDIR]\v4.5.50709\NationalInstruments.ModularInstruments.Common 16.0.0\NationalInstruments.ModularInstruments.Common.dll  [IVISTANDARDROOTDIR]\ v4.0.30319\NationalInstruments.ModularInstruments.NIFgen 16.0.0\NationalInstruments.ModularInstruments.NIFgen.Fx45.dll  [IVISTANDARDROOTDIR]\v4.0.30319\NationalInstruments.ModularInstruments.Common 16.0.0\NationalInstruments.ModularInstruments.Common.dll |
| Examples | [NIPUBDOCS]\NI-FGEN\NI-FGEN Examples |
| Help | [HELPDIR]\niFgen\Documentation\English |

### Documentation

Documentation is available at **Start»All Programs»National Instruments»NI-FGEN»NI-FGEN Documentation**.

## Examples

The installed NI-FGEN .NET examples are available at **Start»All Programs»National Instruments»NI-FGEN»NI-FGEN Examples**.

## Connecting to the Instrument

You use the NI-FGEN .NET class library to control signal generators through the NI-FGEN instrument driver. The *NI-FGEN .NET API Tutorial* in the *NI-FGEN .NET Class Library Help* explains how to get started with the NI-FGEN .NET. The *NI-FGEN .NET Class Library Help* is available at **Start»All Programs»National Instruments»NI-FGEN»NI-FGEN Documentation**.

## Configuring Instrument Settings

## The NI-FGEN .NET Class Library API includes methods and properties for setting instrument state variables, as well as methods for controlling the instrument and reading results from the instrument.

## Two driver API hierarchies are available. The first is the instrument-specific hierarchy. This hierarchy can be used to access all of the functionality of the instrument. This hierarchy is available to programs that use one of the driver constructors to instantiate the driver. The second hierarchy is the IVI class compliant hierarchy. This hierarchy can be used to access the IVIFgenclass API. This hierarchy is available to programs that use an IVI.NET Create(…) class factory method to instantiate the driver.

## Configuring Driver Settings

IVI instrument drivers implement inherent capabilities such as simulation, range checking, state caching, coercion recording, interchangeability checking, and instrument status checking. You can enable/disable these features either programmatically using an attribute, or statically using a configuration utility.

## Known Issues

## You can access the NI–FGEN .NET Class Library readme file at Start»All Programs»National Instruments»NI-FGEN»NI-FGEN Documentation. It contains information about known issues.

## Contacting Support

If you have feedback or need help using this driver, contact [ni.com/support](http://www.ni.com/support/).

## Trademarks

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