

Paradigm SDK - Getting Started with C#

Preparation

- If possible, install this on a clean PC (newly installed operating system), or in a Virtual Machine.
- Install Visual Studio 2019 or later

Overview

The basic steps that are needed before one can use the Paradigm SDK are:

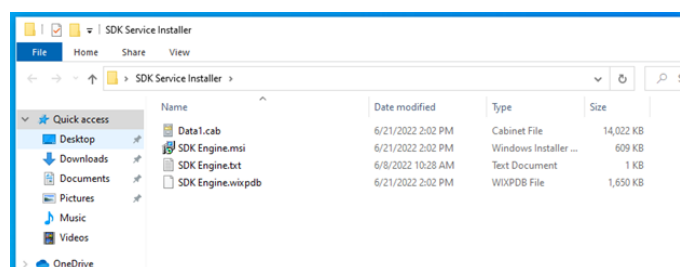
1. Install the base OMNIC Paradigm software for the instrument to which you are connecting.
2. Install the Paradigm SDK Engine and Paradigm SDK Client modules.
3. Create a console app in Microsoft Visual Studio¹.

Install OMNIC Paradigm software

See the OMNIC Paradigm software help topics on knowledge1.thermofisher.com for more information about installing and using OMNIC Paradigm software.

Install the Paradigm SDK

Navigate to the SDK Engine Installer

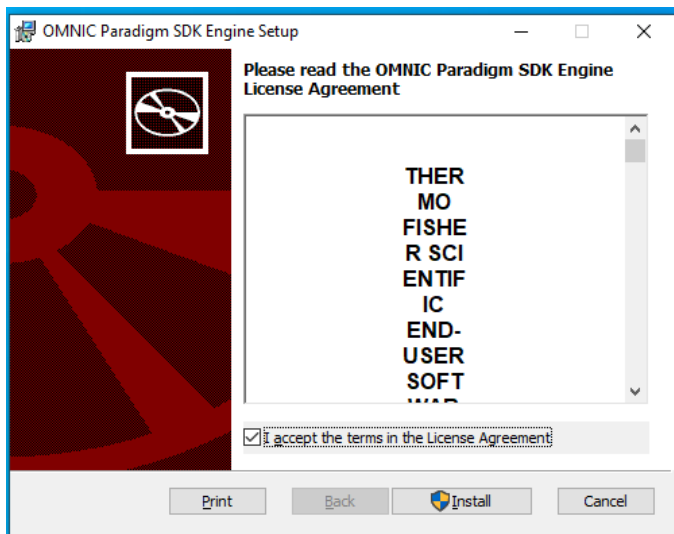


Run the SDK Engine Installer

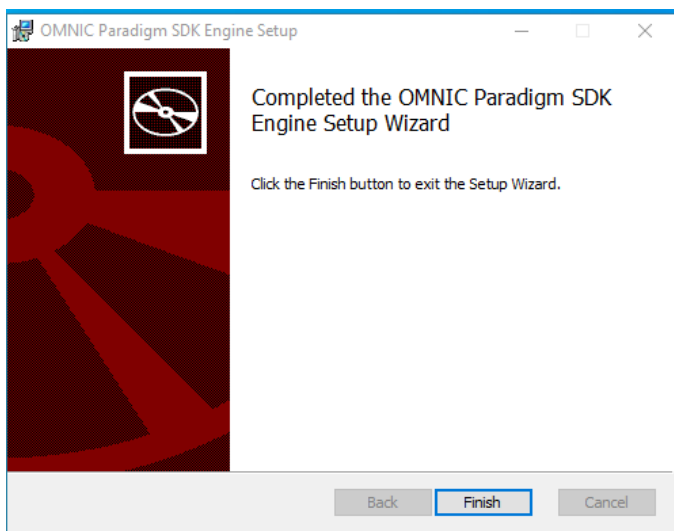
Accept the terms of the license agreement.



Install.



Finish.



Now find the SDK Client Installer and take the same steps to finish SDK installation.

The SDK Documentation (including a copy of *this* document) is installed to C:\Users\Public\Documents\Thermo Scientific\SDK

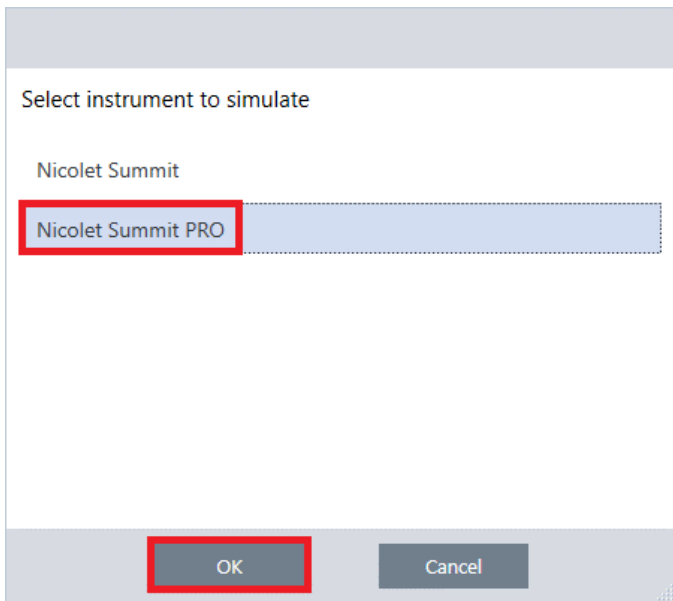
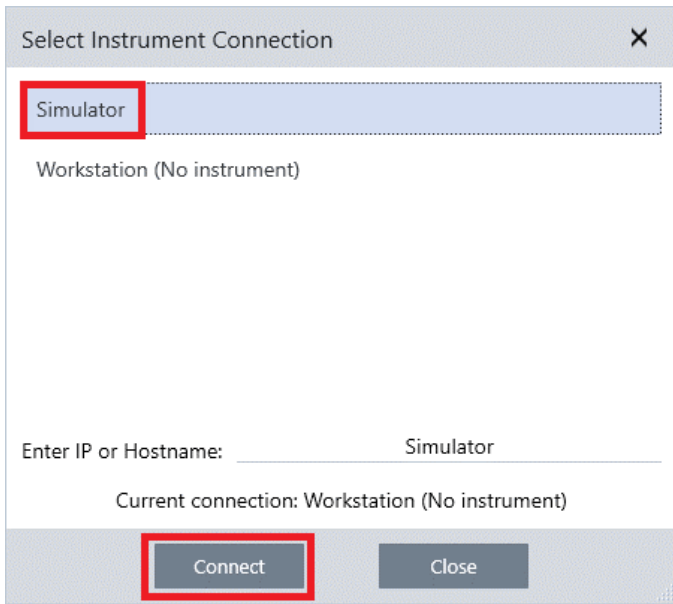
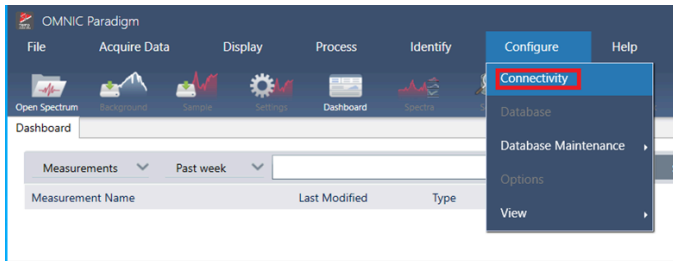
Configure OMNIC Paradigm software

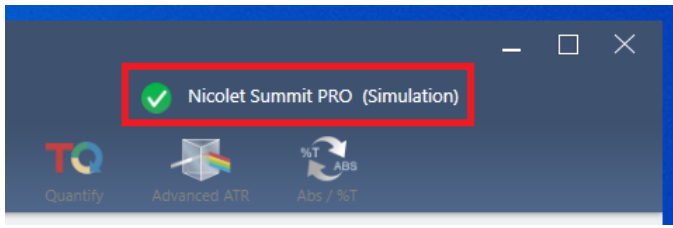
Start OMNIC Paradigm from the desktop



Simulator (Optional)

If you do not have an instrument, you can use the simulator:



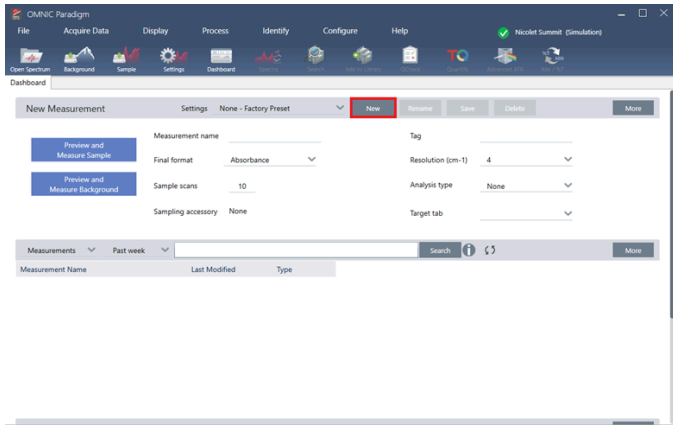


Notice that Paradigm indicates it is now simulating an instrument:

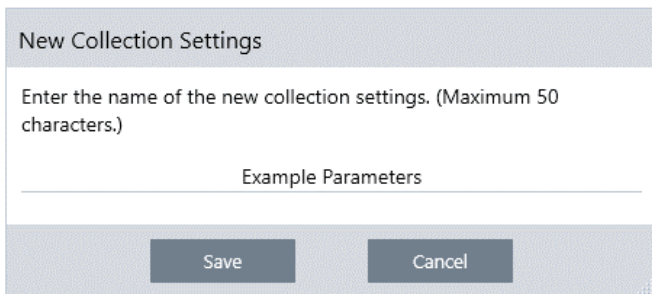
Configuring Named Parameter Sets

The SDK will use named parameter sets from OMNIC Paradigm software. We will create one now named “Example Parameters”.

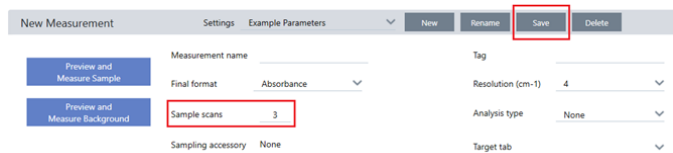
Select New



Enter the name “Example Parameters” and select save




Make any changes to the Parameters that you want. For example, change sample scans from 10 to 3. Notice that the Save button is now active. Save the changes.



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Updated: Wed, 12 Apr 2023 16:43:52 GMT

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Set Up C#

Open Visual Studio 2019 and choose create a new project. Create a .NET Framework console app from the list of project templates. Pick any name for the project and specify a different file path for the solution folder if desired.

Once the project is created, go to the Solution Explorer window, go to `[ProjectName] > References > Right click > Add Reference > Browse`. Add references to these .dll's in `C:\Program Files\Thermo Scientific\SDK Client`

- `AssemblyResolutionHelper`
- `Paradigm.Core.Constants`
- `ParadigmLib`
- `SDK.Core`
- `SDK.Engine.Contracts`
- `Microsoft.Extensions.Logging.Abstractions`
- `Serilog`
- `Serilog.Extensions.Logging`
- `Serilog.Sinks.File`

You will also need to add `Serilog.Sinks.Console` as a NuGet package in order to see the output in your console app.

Copy and paste the code from the provided `SampleClient.cs` into your `Program.cs`. The program should compile with no errors and be able to connect to OMNIC Paradigm when it is run.

1. Microsoft and Visual Studio are trademarks of the Microsoft group of companies. [↔?](#)

