

2.2. Key Concepts

The UeiDaq framework can be programmed using various development environments:

- A set of classes for object-oriented environments such as the C++ language, .NET framework languages and ActiveX enabled environments.
- A set of functions for procedural languages such as ANSI C; the concept of classes is still present and objects are manipulated using handles and accessor functions.
- A set of VIs for the National Instruments LabVIEW package. A session refnum is used to specify and operate a session. Property nodes are used to access object parameters.
- An adapter for the MathWorks Matlab DAQ toolbox.
- An OPC server.
- An Excel add-in.

2.3. UeiDaq objects

2.3.1. Hierarchy

The UeiDaq framework API is object oriented and implements a hierarchy of classes to manage the communication with the data acquisition device.

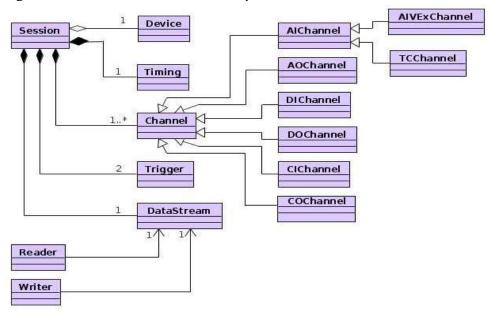


Figure 2 UeiDaq framework UML class diagram showing a subset of Channel classes