Typical ATL Class Hierarchy for COM Component

CComObjectRootBase

Defines object's class factory and aggregation model.

ATL supplied implementations

Custom interface declarations. This isn't explicit in derivation hierarch for dual interfaces.

CComObjectRootEx<ThreadModel>

CComCoClass<CMyClass, &CLSID_myClass>

IXXXIMPL<>

IMyInterface

Manages reference count and outer pointers to IUnknown. Its template parameter is the threading model of the project

Implementation of custom interface members

Support for initializing, registering, and unregistering COM module

CMyClass

CAtlModuleT<T>

CreateInstance and IUnknown methods implemented here.
This is the object instantiated.

Provides Dll functions and additional support for registration

CComObject<CMyClass>

CAtlDllModuleT<CATL_ProjNameModule>

CATL_ProjNameModule