Hart Tools 7.5, Getting Started

1   Environment

The main directory, were the Hart Tools 7.5 had been installed to, contains only the FrameAlyst and three examples which had been built for any CPU.

There are two directories for trying the examples using Visual Studio. Debug is used for modules which are built for any CPU and Debug(x86) is used for 32 Bit outputs.

CommonC, CommonC# and CommonVb are containing modules of common use such as header files, C# sources and VB sources for interfaces and objects
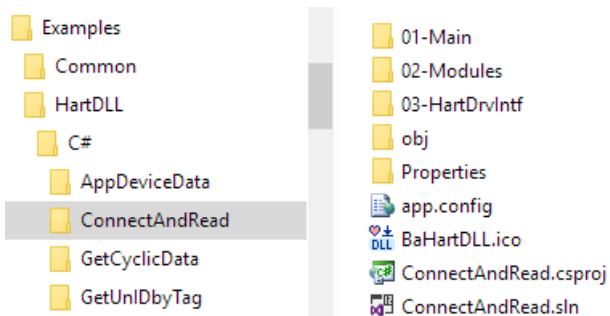
There are various examples available for different languages and platforms. They are mostly developed with Visual Studio 2013.

The solution and the project for an example are located in the directory which is named as the example solutions.

Note that most of the examples are delivering an 64 Bit output (any cpu) and a 32 bit output as well. The results are exported to the paths Debug and Debug(x86).

2   Running the Slave Simulation Using FrameAlyst

In Hart Tools 7.5 the slave simulation is working completely separated from the Hart Master DLL, which is also used by FrameAlyst. The slave simulation is written in C# and using the component SlaveX.

However the slave simulation is realized as a .NET component and requires a host system to load and run the component. At present the FrameAlyst is the only host who is loading the slave .NET assembly.

Instead of using physical com ports you may also use a pair of virtual com ports such as provided by Serial Port Kit or similar software solutions.

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Select the com port used by the master in the Home-Tab of FrameAlyst.	Be sure that master and slave are activated.	The slave assembly of the slave simulation has to be loaded (BaHartStdDevSimulation.dll) and the com port of the slave has to be set in the Slave-Tab
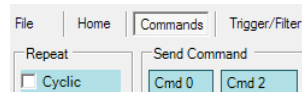
After these settings the Commands-Tab of FrameAlyst can be used to test the functionality of the slave simulation.

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3   Environment
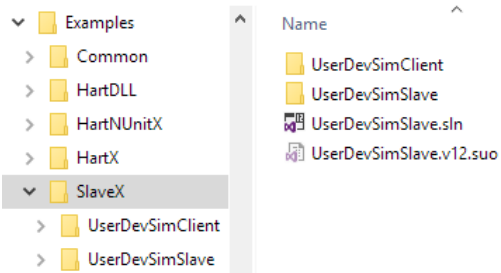
The directory Examples is containing a solution with two projects. One project is a custom build Hart slave written in C#.

The other project is a test client to load and run the slave simulation DLL.

The implementation is supporting all universal commands and the common practice commands 34, 35, 38, 48 and 512.

The slave is simulating the 4 PVs and is calculating the current and the percentage values from the range.

The debug session is started by executing the test client.