

MBLogic All

Overview:

This document provides an overview of what is included in this combined release of all MBLogic packages. (MBLogic-All). Details and installation instructions for each program can be found in their own respective documentation.

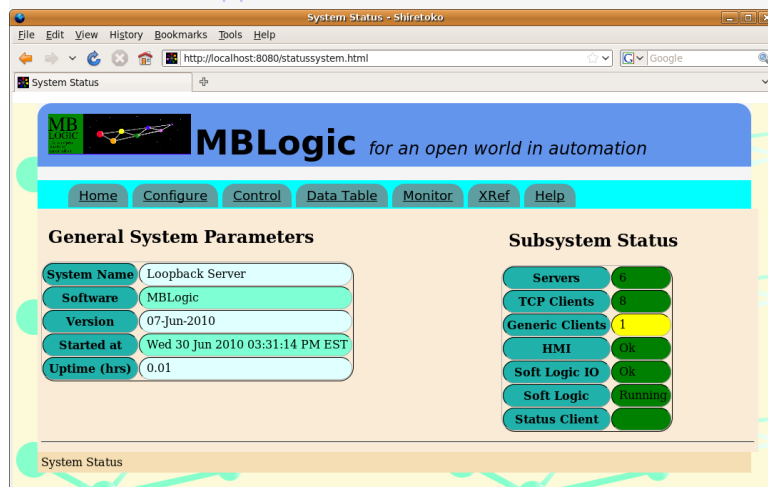
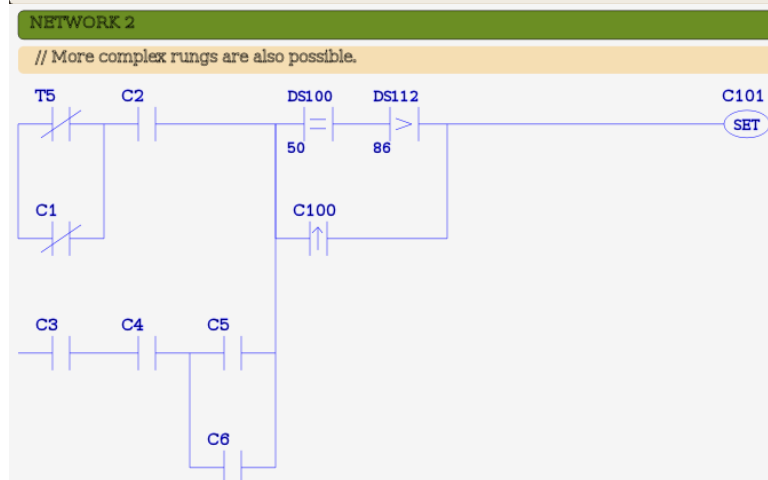
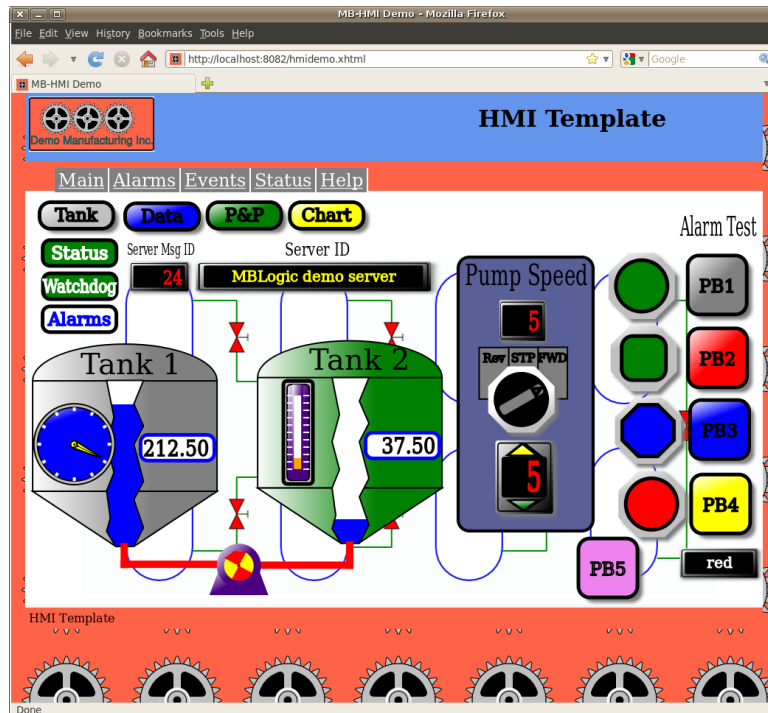
The MBLogic-All package includes the following:

- MBLogic - MBLogic Soft Logic is a complete, stand alone industrial control platform, incorporating soft logic, web based HMI, field IO connectivity, system management, on-line help, and integrated web based programming tools.
 - HMIServer - The same HMI system as in MBLogic, but in a stand alone program in both client and server forms.
 - HMIBuilder - HMIBuilder creates HMI web pages which can be used by MBLogic Soft Logic and by HMIServer.
 - MBTools - MBLogic Tools provide tools for testing, commissioning, and troubleshooting applications as well as gateway servers which allow clients to communicate with each other.
 - MBLibs - The components used in creating the MBLogic automation platform are also available as libraries for creating your own custom applications.
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MBLogic

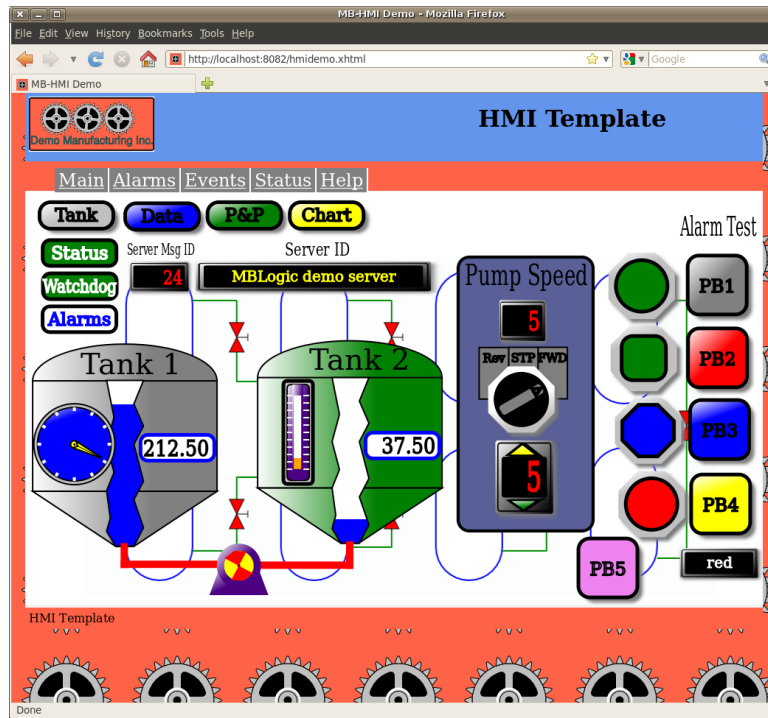
This software system provides a complete automation control system platform with the following features:

- Soft logic control using conventional PLC programming languages.
- Web based graphical HMI based on industry standards.
- Communications to field IO using industry standard client (master) and server (slave) protocols.
- No limit on the control program size or the number of communications connections.
- Web service server protocol for enterprise integration (MPR/ERP).
- Built-in web based status monitoring and control.
- Built-in web based on line help.
- Complete configurability.
- Cross platform portability.



HMIServer

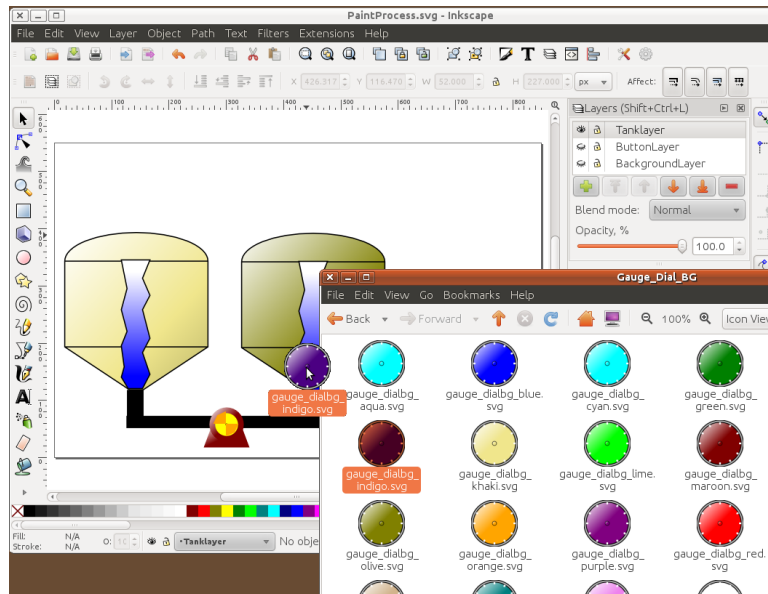
- HMIServerMBC - Allowing a web based HMI server to be added to any Modbus/TCP server (slave). This provides the same web HMI capabilities from MBLogic in a stand alone package.
- HMIServerMBS - The same as HMIServerMBC, but for Modbus/TCP clients (masters).
- HMIServerSBC - Like HMIServerMBC, but supports SAIA Ether SBus.
- HMIServerSBS - Like HMIServerMBS, but supports SAIA Ether SBus.



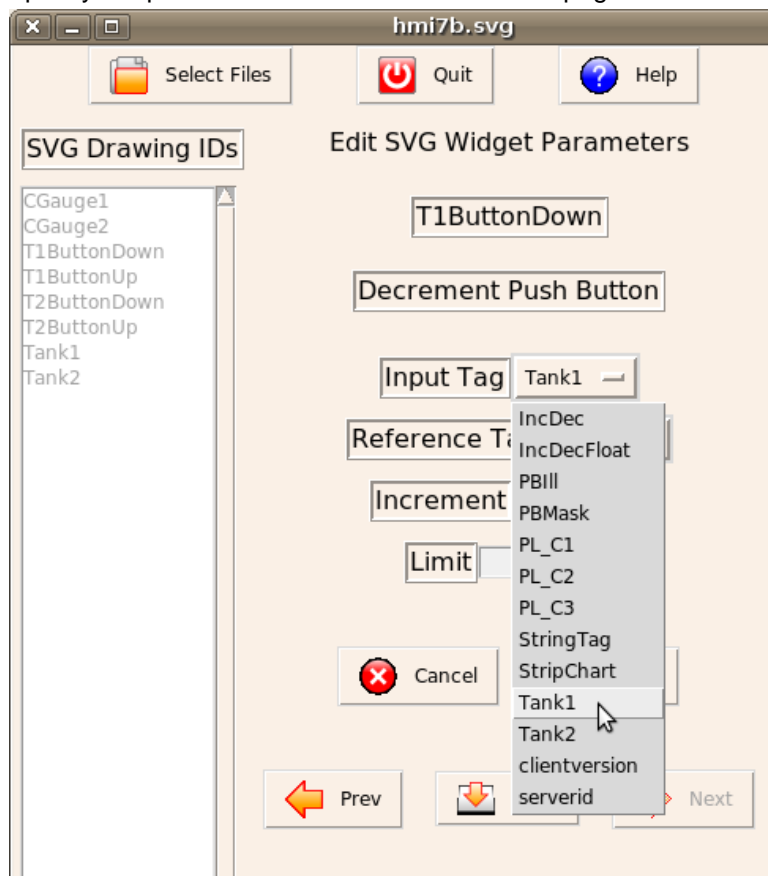
HMIBuilder

HMIBuilder creates HMI web pages without programming by drawing the HMI screens (using provided HMI widgets) and then selecting the desired parameters to control them. HMIBuilder then takes the drawing and assembles it into a complete HMI web page.

Using Inkscape to draw the HMI screens:



Using HMIBuilder to specify the parameters and assemble the web page.



MBTools

- MBProbe - A web based menu driven Modbus/TCP client. This provides an easy to use means of testing, troubleshooting, and commissioning Modbus/TCP field devices such as valves, sensors, and PLCs.

- MBAsyncServer - A simple Modbus/TCP server.
- PollMB - A command line Modbus/TCP client.
- PollWS - A command line client for a Modbus-like web service.
- SBProbe - Like MBProbe, but supports SAIA Ether SBus.
- SBusServer - Like MBAsyncServer, but supports SAIA Ether SBus.
- SBPoll - Like PollMB, but supports SAIA Ether SBus.
- TMPClient - This is a new MS Windows specific Modbus/TCP client monitoring program.

MBProbe - Read Modbus Data - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8680/readdata.html

MBProbe - Read Modbus Data

MBProbe for an open world in automation

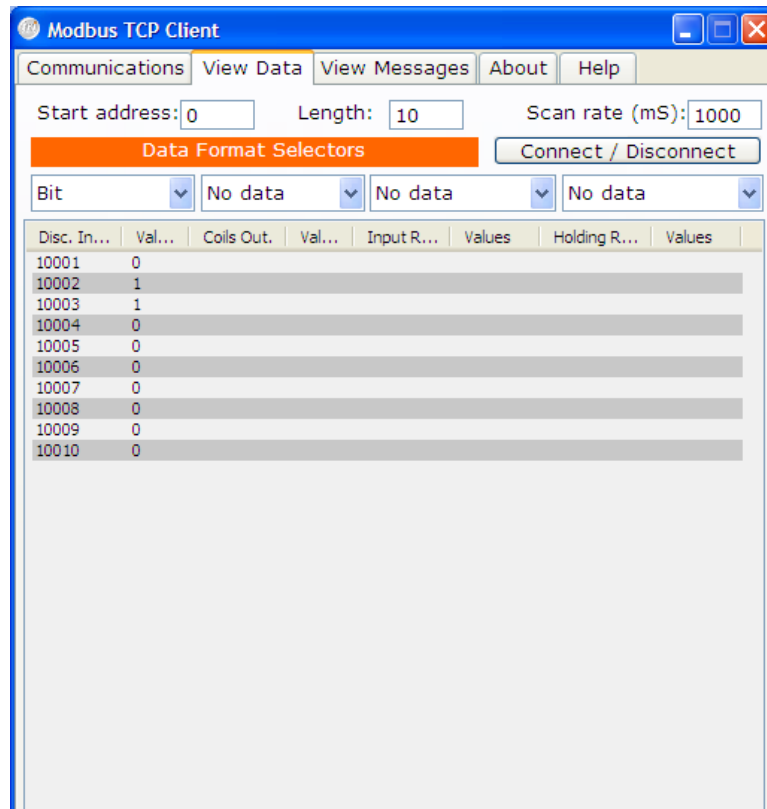
Read Data Write Data Set Parameters Help

Read Modbus Data

Address Type / Address / Value	Address Type / Address / Value
Holding Register 500 6578	None
Coil 99 1	None
Input Register 56 -9876	None
Discrete Input 32587 1	None
None	None
None	None
None	None
None	None
None	None
None	None

Read Data Read Data: Clear Page:

Done



MBLogic Libraries

This software system provides a complete automation control system platform with the following features:

- Simple Client - SimpleClient is a simple Python library that may be used to help write custom Modbus/TCP and SAIA Ether SBus client applications. There is also a corresponding library (SimpleClientWS) for a Modbus-like web service.
- MBLogicEngine - MBLogicEngine is the library used to provide soft logic functions in MBLogic. It is provided here as a separate library to allow you to add soft logic functionality to your own custom applications.

Operating System Compatibility

All MBLogic packages are available in versions which are compatible with Linux and MS Windows, with the exception of TMBClient, which is for MS Windows only.