Other Considerations

Standard Engineering Practices

Document: 8.11
Date May 15, 2002
Supersedes: none

Other Programming Considerations

There are many things to consider when writing a program. You must consider the job specifications, sequence of operation, limitations and strengths of the controller, and the HMI used to name a few. At a minimum the following will be added into a program:

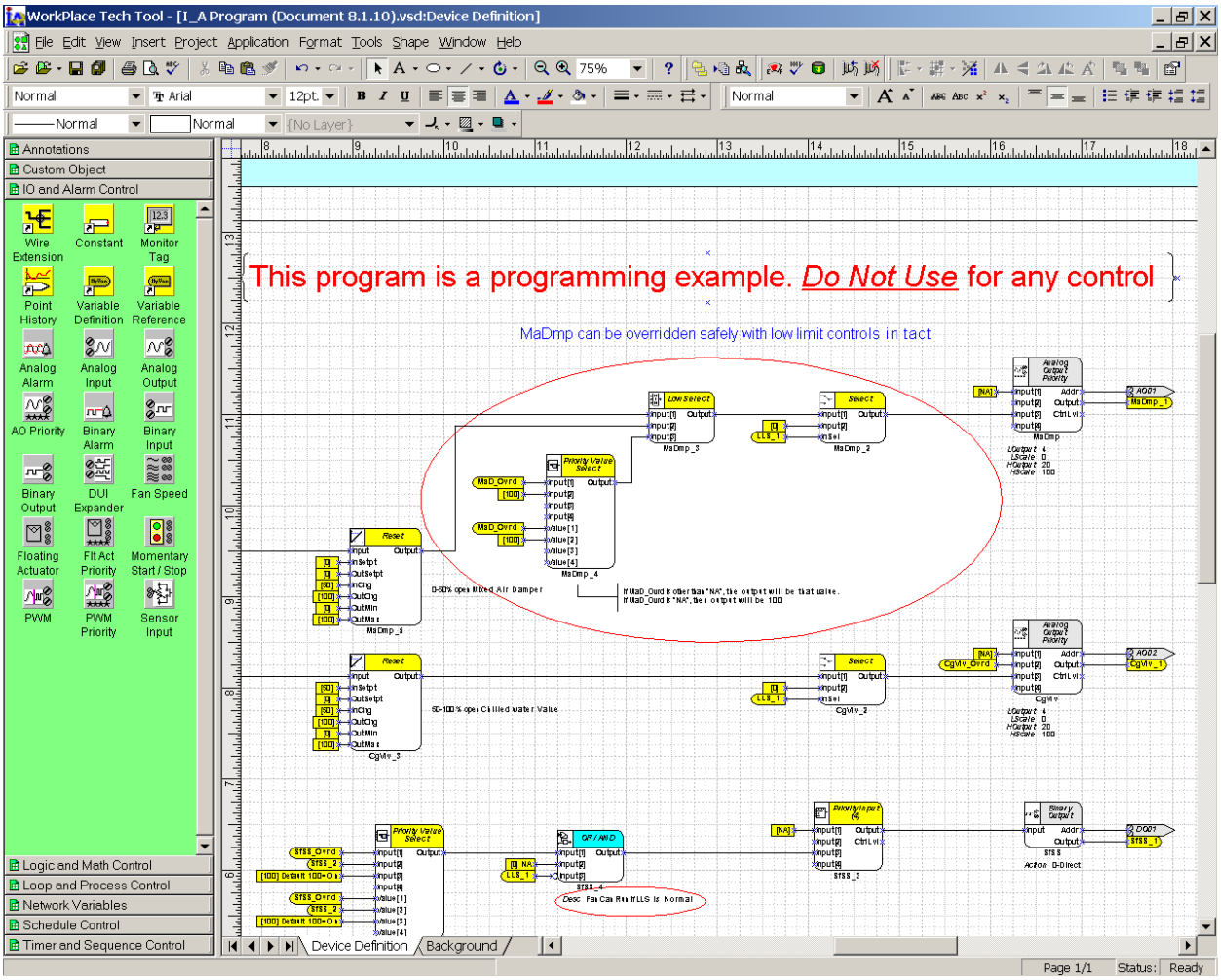
- The ability to override all outputs from the HMI. The programming *must be written so as not to interfere with any software or hardware safeties.* Some controllers have the inherent capabilities to override the output directly, others you cannot. The individual programming will vary with controller. The diagram below is for a MNL-800 controller. Even though the specifications may not call for this feature, it is a time saver for the field personnel if they can directly override a point without having to launch another application to do so.

Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.

Other Considerations

Standard Engineering Practices

Document: 8.11
Date May 15, 2002
Supersedes: none



- For ease of startup, commissioning, checkout, and troubleshooting use priority blocks on your I/A programs. Place a constant in the highest priority so that an Input or Output can be overridden. You may also want to place a SNVT in the second highest slot to allow the Input or Output to be exercised from the HMI (subject to any limits on available SNVTs).

Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.

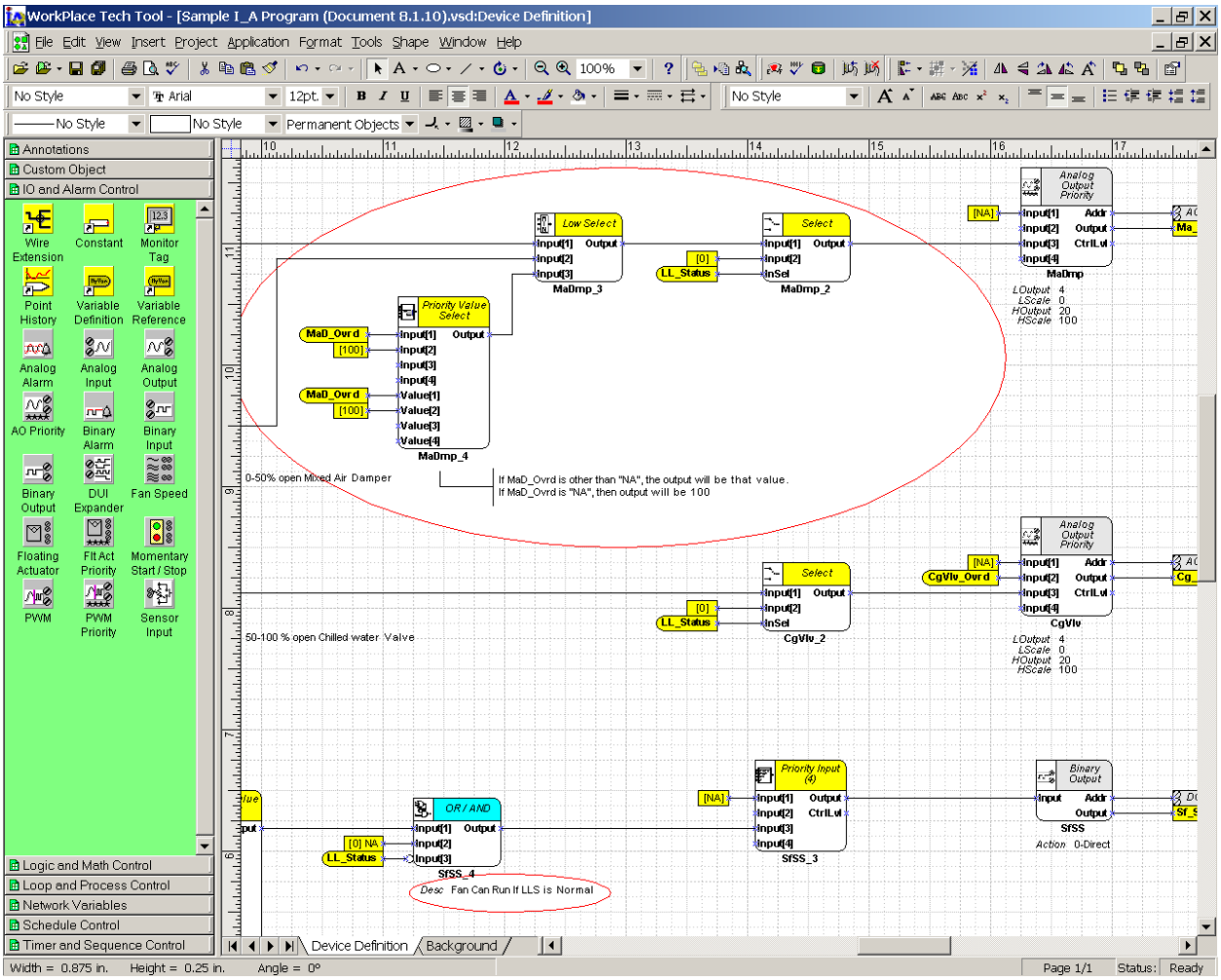
Other Considerations

Standard Engineering Practices

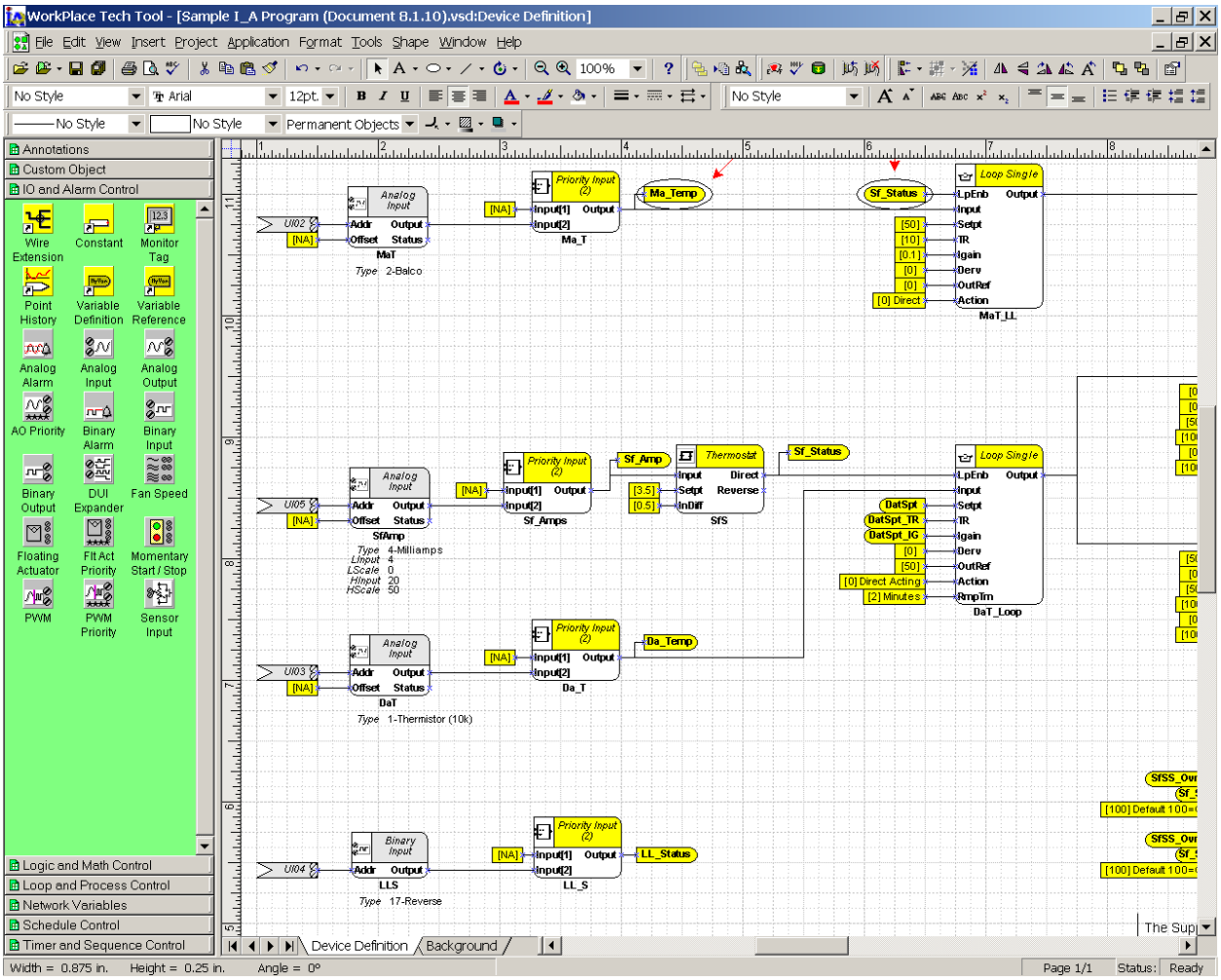
Document: 8.11

Date May 15, 2002

Supersedes: none



Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.



- When programming, it is necessary to document any bindings, global values, or information sent to or gotten from a GCM/LNC/SIM or another controller. This information should one of the first pieces of information placed on the drawing, as it will assist in programming.

Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.

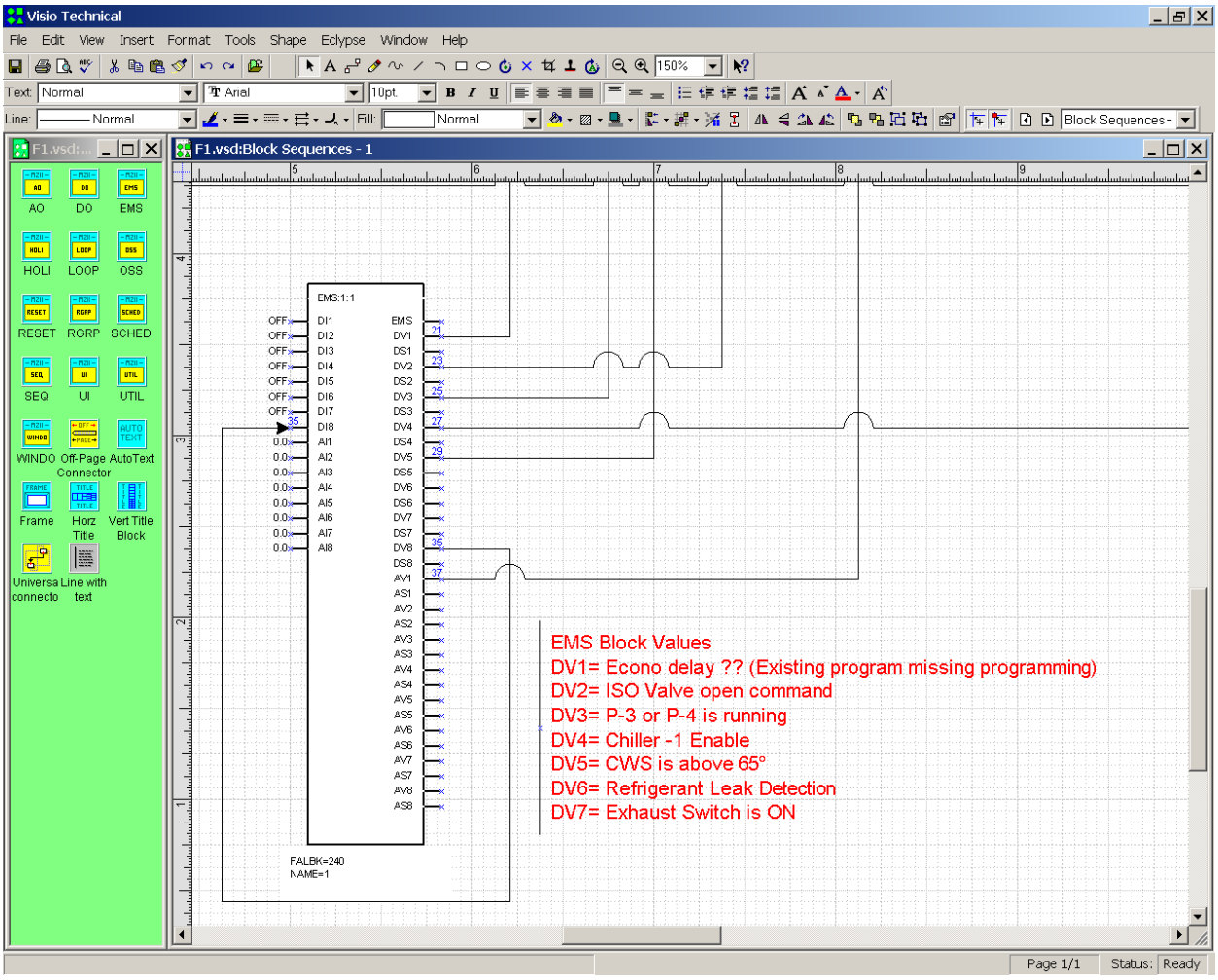
Other Considerations

Standard Engineering Practices

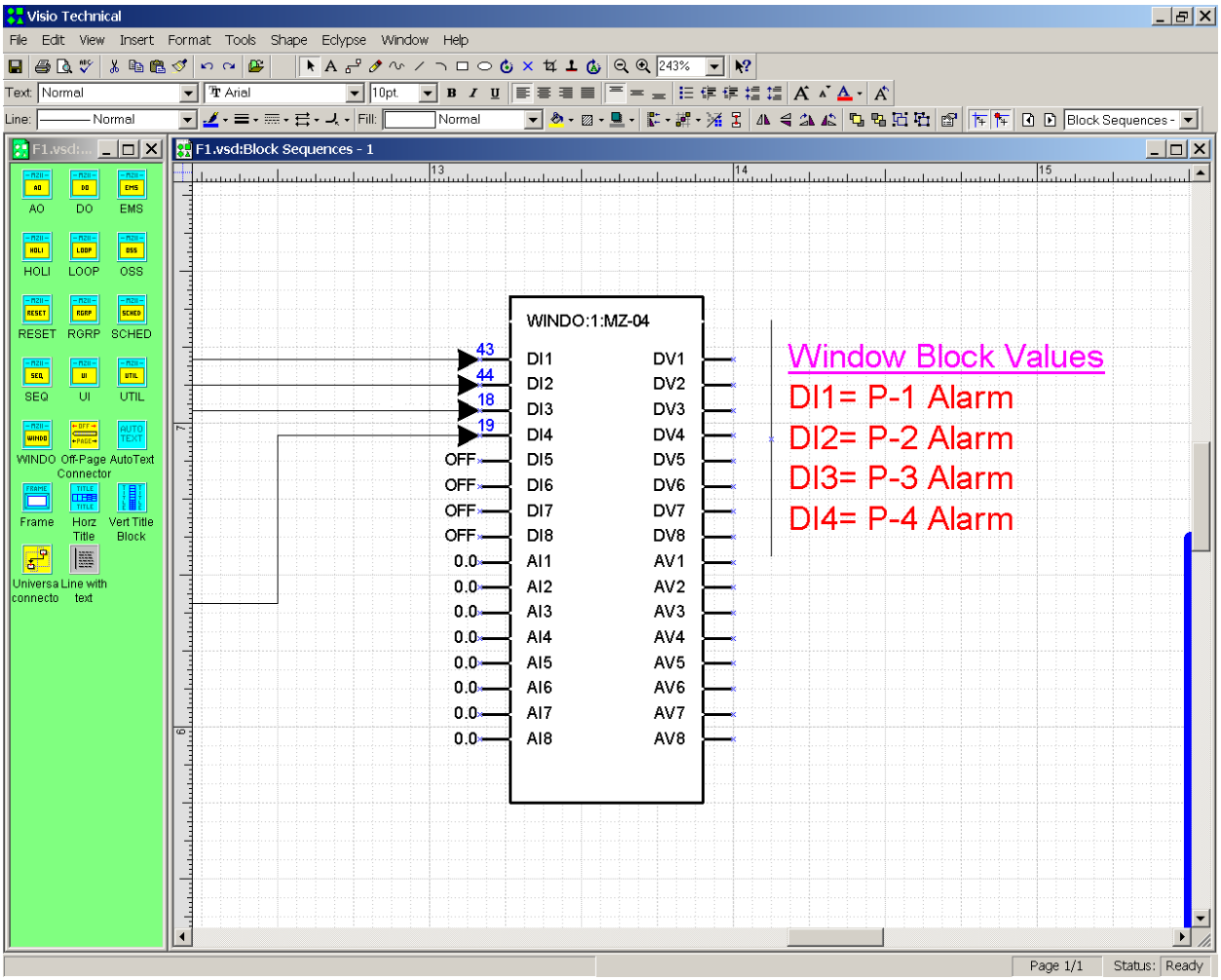
Document: 8.11

Date May 15, 2002

Supersedes: none



Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.

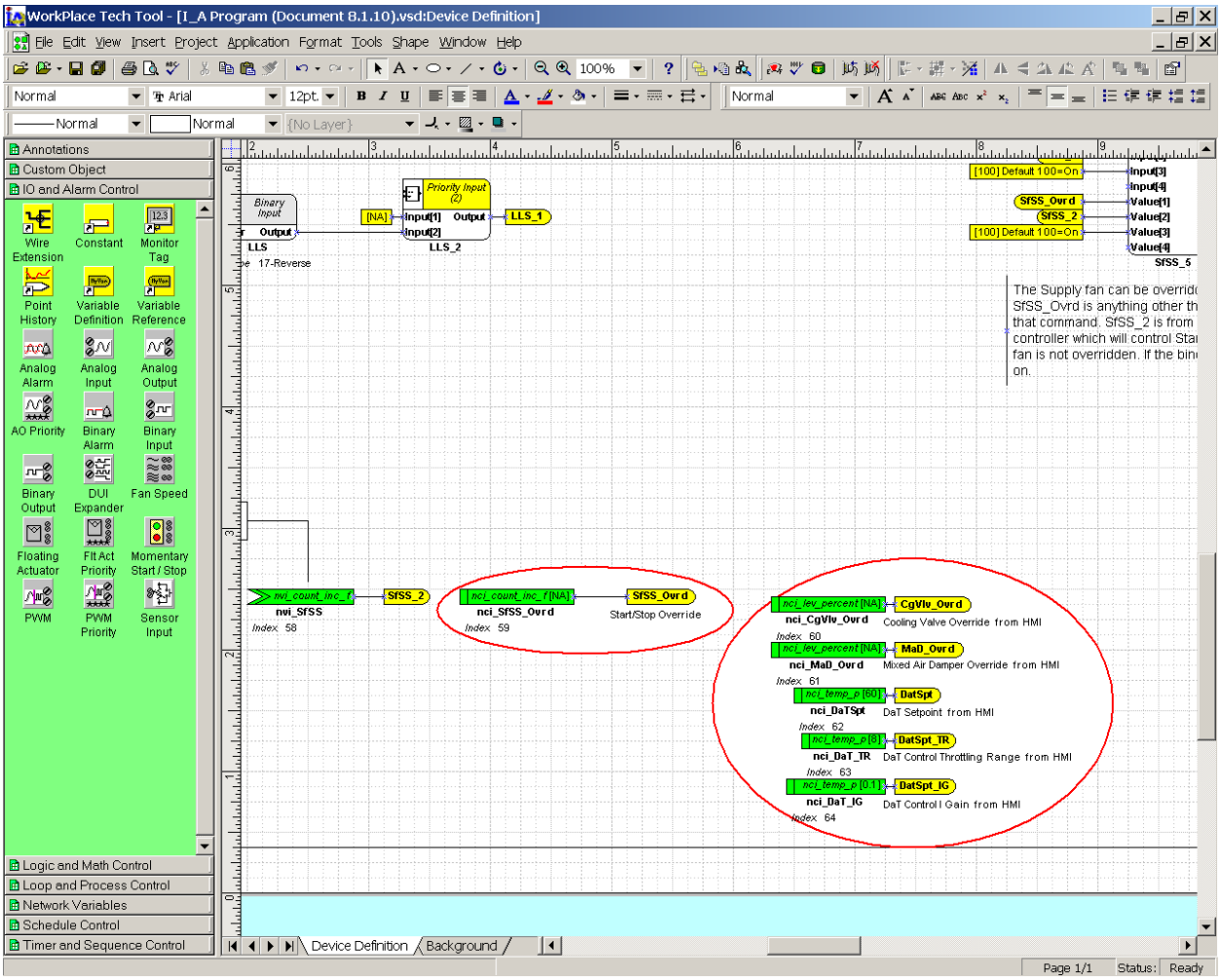


Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.

Other Considerations

Standard Engineering Practices

Document: 8.11
Date May 15, 2002
Supersedes: none



Above all, take into consideration that others will be using your programs. Not everyone thinks the same way. And no one way is the only correct way. Keep the programs clean and uncluttered.

Confidential Information for Invensys Energy Solutions Employees and Affiliates
Building Systems - Americas
© 2002 Invensys. All Rights Reserved.