

Highlights

MOD 300 Engineering Displays software allows the MOD 300 Engineer runtime display access to the MOD 300 control network (DCN) through the AdvaBuild for Windows Engineering Station. The capability of having engineering display support available with the Advabuild configuration software allows you to easily complete configuration of the control system. An additional benefit is that the displays provide access to many tags within the MOD 300 system that are not necessary for normal operations. This can reduce the load on the RTDS for installations with MOD 300 Connect.

MOD 300 Engineering Displays allow engineering control of Configurable Control Functions (CCF), Taylor Control Language (TCL), Taylor Ladder Logic (TLL) and select Remote Display Protocol (RDP) functions. In addition, the MOD 300 Engineer can tune fields of loop and FCM templates. The engineering displays feature the standard operations look found on the Process Portal with MOD 300 Connect and the Advant OCS system. This product does not support alarms and events, graphics, historical trends, and messages, or redundancy.

The MOD 300 Engineering Displays software is a client server product. The server software needs to be installed and run on the AdvaBuild server. Multiple client machines are supported by one server and can be installed on a Windows workstation. The MOD 300 Engineer client user must be set up as a user on the AdvaBuild server as part of the User group.

The AdvaBuild server requires System Services, AdvaBuild Administration, Control Builder and Oracle. In addition, TCL Builder and TLL Builder options may be included. System Services requires a PCI RTAB board to connect to the Advant OCS Control Network (MOD 300 DCN). System Services software supports basic services including network communications, object handling, process supervision, and system messaging. The Administration software allows the Administrator to manage projects and the users assigned to each project, manage the journal, and manage object name reuse.

Components

Base Software

The MOD 300 Engineering Displays product CD contains software for both client and server nodes. The server node software runs on the AdvaBuild server node only, against which the license registration certificate is generated. The MOD 300 Engineering Displays software must be licensed to the same hardware ID as the AdvaBuild server.



Up to four clients can be supported. One user license is included in the base. Up to three additional user licenses can be purchased. The license is per user per machine. If a user has multiple sessions open at once on one machine, only one license is required. Checking for client license is done at the time of server connection.

The AdvaBuild 3.3 for Windows 2000 product suite is required. AdvaBuild consists of a base server component with client applications connecting to the server. The base server product consists of the Control Builder, Templet Builder, and On-line Builder. Optional clients within the AdvaBuild 3.3 product suite include the TCL Builder and TLL Builder.

If your system configuration includes a MOD 300 Connect Process Portal product, then your order must also include the hardware ID of the licensed Process Portal Software. The MOD 300 Engineering Displays client can not be installed on the same machine as MOD 300 Connect.

Optional Software

The TCL and TLL Display Licenses must be ordered as separate options to allow access to these displays by all users.

Capabilities

The engineering displays give you engineering access to operation and tuning displays to support the following functions:

- See values of parameters in numerical form (except for CCF trend data)
- Change certain parameter values such as setpoints, outputs, setpoint modes, output modes, and device commands
- Change (tune) some aspects of the configuration while the system is operating

Since you log into an AdvaBuild project, the user rights associated with that project also apply to your log in. Within Advabuild there are three user types, READER, WRITER, and CONFIG. The READER user has read only access to project data and can not open the RDP displays. The WRITER and CONFIG users have full write access to all project data.

The supported engineering displays are (RDP = Remote Display Protocol):

Loop FCM	Loop Detail	Loop Template	Autotune - RDP
TCL Unit Detail	TCL Recipe Detail	TCL Sequence Detail	TCL Sequence Debug
TCL SFC			AccuRay - RDP
TLL Segment	TLL Sequencer	TLL File	TLL Register*
TLL Counter*	TLL Timer*	TLL I/O Point*	TLL Faceplates (*)
System Status	AC460 Subsystem	AC410 Subsystem	Model B, SC Subsystem
Multibus Subsystem	Diagnostic Message	System Performance	
S800 Lan	S800 Station	S800 Device	S800 Configuration
S100 Lan	S100 Device	Direct I/O	TRIO Lan
TRIO Block	Profibus Lan	Profibus Device	Profibus Module
PLC Configuration -RDP	TRIO Configuration -RDP	Serial Port - RDP	Smart Device - RDP

There is a fixed limit for the number of open displays of 20 windows in one client session. However, some displays use more resources than others and will allow fewer displays to be open.

Requirements

Server Software

AdvaBuild 3.3/2 for Windows 2000 is installed before the MOD 300 Engineering Displays 1.0/2 software. AdvaBuild 3.3/2 requires the following software:

- Microsoft Windows 2000 Professional or Server with Service Pack 3
- Microsoft Internet Explorer 5.01 or greater must be installed (supports required level of Windows Script Host)
- Adobe Acrobat Reader 6.0 (free software to read documentation).
- NTFS partitioned
- Valid static IP address. The software will not function properly without a valid static IP address. DHCP is not recommended due to client disconnects from servers. This is a known problem with DHCP and D/COM.

Microsoft IIS (Internet Information Services) is required for AdvaBuild 3.3/0 server licensing only and is not required for Advabuild 3.3/1 or later. See the *MOD 300 Engineering Displays Release Notes* for restrictions when using AdvaBuild 3.3/0 and 3.3/1.

Server Hardware

The following hardware is required to support the server installation. These requirements are the same as for the AdvaBuild server:

- Intel Pentium CPU, minimum 500 MHz clock frequency.
- 512 MByte primary memory for a client/server machine.
- Installation drive must be 4 GByte or larger with 1.5 GByte of free space recommended.
- At least 19" screen is recommended. More than 256 display colors is recommended.

ABB Inc. has verified that the following PCs will support System Services software with the PCI RTA Board (PU514/PU515) option for the AdvaBuild server:

- Dell 330 and 340 Precision
- Compaq EN Series Deskpro
Compaq AP 250 Series Mini Tower and WS300
Compaq AP 550 Series Mini Tower and W6000
- HP Visualize P Class Workstation
HP X2000
HP X1100
- IBM Intellistation M Pro

It is recommended that you use one of these machines; however, any machine that meets the above restrictions should work. The PCI RTAB board (PU514/PU515) requires a 5.5V PCI slot. Do not use it in a PCI slot that uses the 3.3V standard.

Client Software

The following software must be installed, before you install the MOD 300 Engineering Displays software:

- Microsoft Windows 2000 Professional or Server with Service Pack 3
(Clients can also run on Windows XP)
- Valid static IP address. The software will not function properly without a valid static IP address. DHCP is not recommended due to client disconnects from servers. This is a known problem with DHCP and D/COM.

MOD 300 Engineering Displays clients can not be installed on the same machine as a Proces Portal B with MOD 300 Connect.

Client Hardware

The following hardware is required to support the client installation.

- Intel Pentium CPU, minimum 500 MHz clock frequency.
- 256 MByte primary memory.
- At least 19" screen is recommended. More than 256 display colors is recommended.

*For more information on the Industrial^{IT} suite of products , contact us at OperateIT@us.abb.com
For the latest information on ABB visit us on the World Wide Web at <http://www.abb.com>*



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