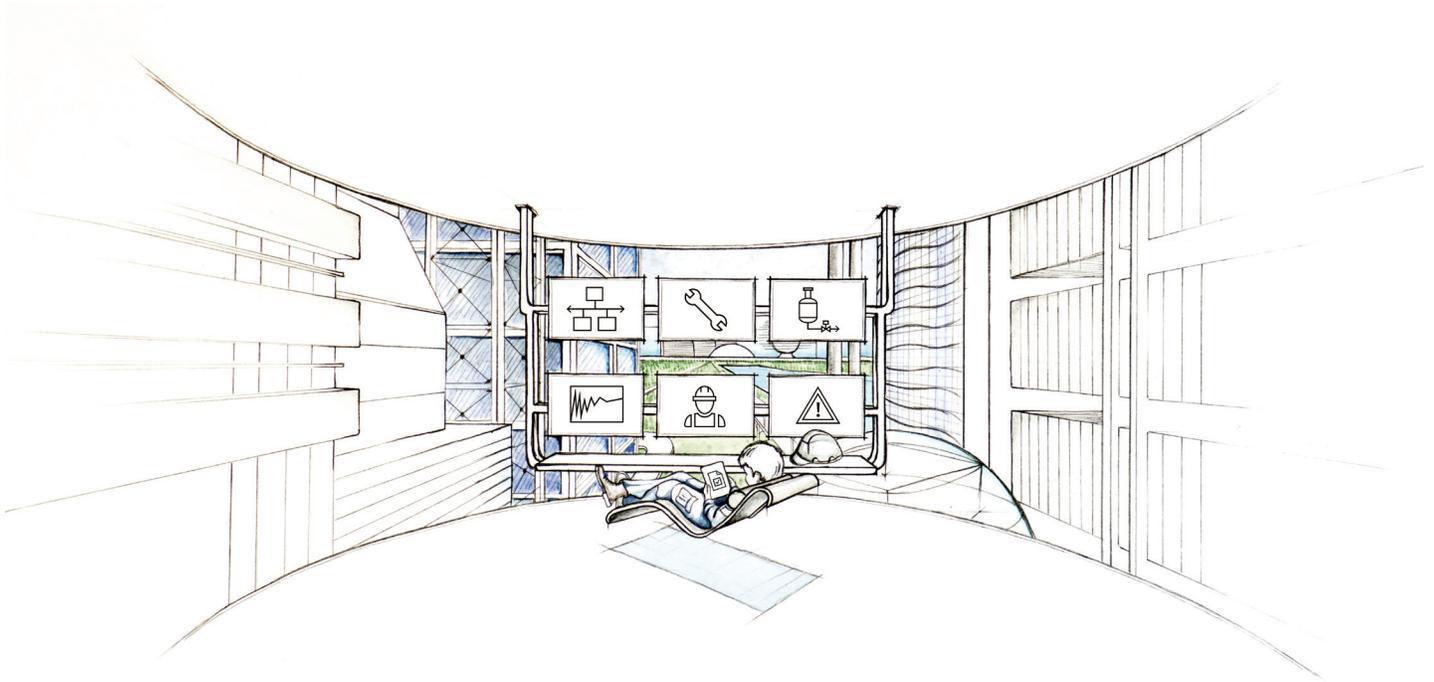

D3v15: Futureproof Automation



D/3® Version 15 (D3v15) includes an array of valuable enhancements to the most adaptable and powerful DCS on the market. D3v15 delivers the highest lifetime value by preserving investments in applications, hardware, and I/O while incorporating the latest advancements.

Easier Configuration

- MDL Builder™
- High-performance SGO Library
- Enhanced D3Edit
- Group-based Privilege Set Maintenance
- Windows® Server 2012 R2, Windows 10, and Windows 7 Support

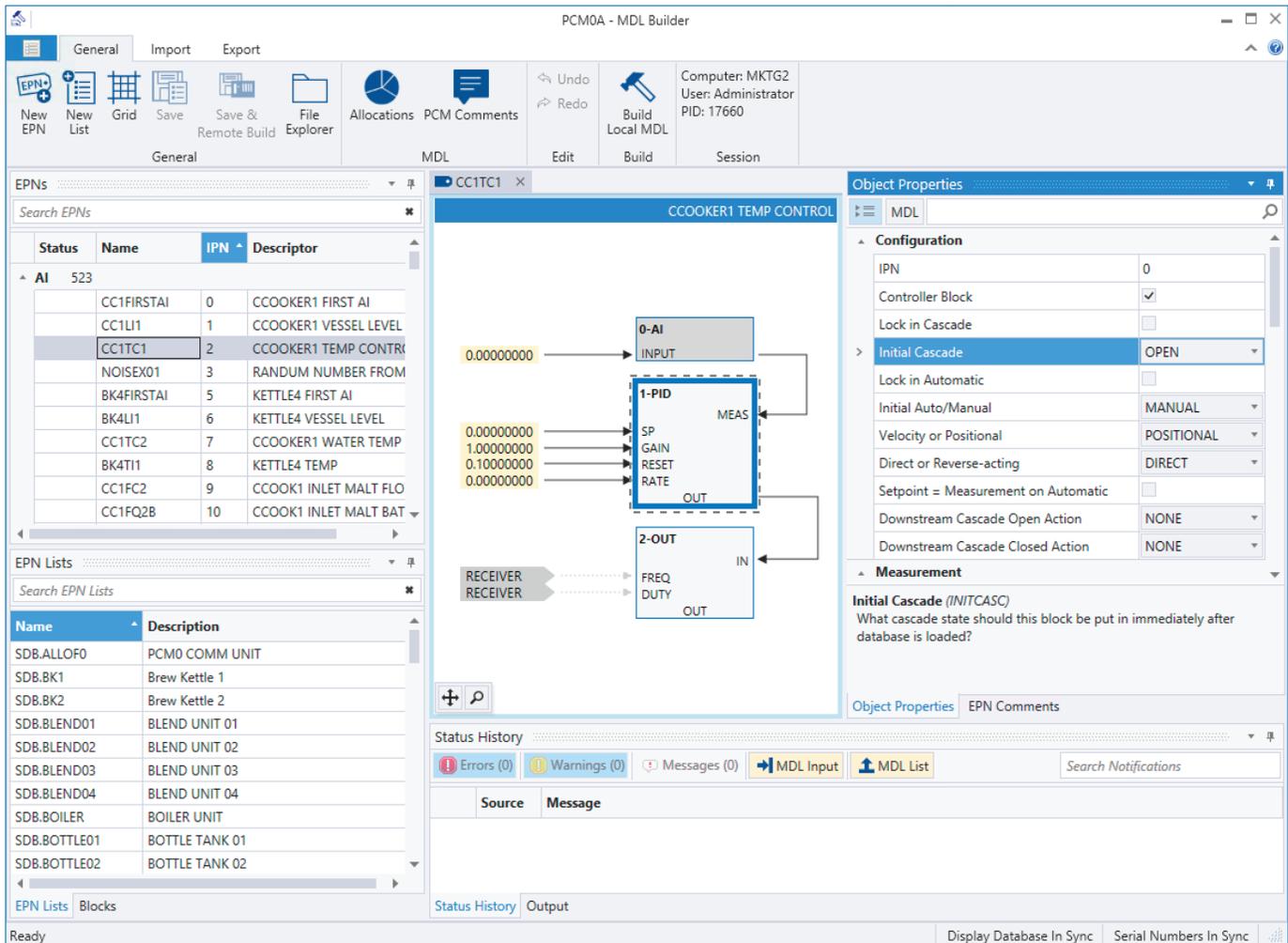
Safe and Efficient Operations

- D3Express™ Reporting
- Simplified ProcessVision™ Displays
- OSIsoft PI® System Support
- InstAlarm™ Enhancements

Faster Troubleshooting

- D3Express History

The Best Kept Secret in Process Control Just Keeps Getting Better



MDL Builder replaces text-based configuration

MDL Builder

MDL Builder fundamentally changes the way engineers configure the building blocks of the D/3 System. New engineers will find the graphical interface intuitive and easy to learn while experienced engineers retain all the flexibility and power they count on. MDL Builder replaces the MDL text file, supports text imports and exports, and allows multiple engineers to work concurrently on a given PCM. While making system configuration far more efficient, MDL Builder also eases operation and maintenance of the D/3 System.

Key Features

- ✓ Replacement for the MDL text file
- ✓ Charts are drawn automatically without user intervention
- ✓ Multiple engineers can work on the same PCM
- ✓ EPN Lists replace process-specific MDL files
- ✓ Gridview enables targeted mass edits
- ✓ Guides engineers to make the right configuration choices

EPN	Description	Fields	Type	PCM
WP1TC1	WRTCOOL1WORT TEMP CONTROL	HHH	AI	PCMAA
AC-DYDOWN	O2 ANALYZER/BOILER	LO	AI	PCMAA
CC-BLOWDOWN	BOILER BLOWDOWN/CONDUCT SAMP/COOL	LOLO	AI	PCMAA
PI-STEAM	PLANT MAST STMPRES 0-300PSI	LOLO	AI	PCMAA
PC-MASTER	PLANT MAST STMPRES 0-300PSI	LO	AI	PCMAA
JPMFIRSTAI	JPM FIRST AI	LOLO	AI	PCMAA
JPLT201	PEACH STORAGE TANK LEVEL	LOLO	AI	PCMAA
JPLT201	APPLE STORAGE TANK LEVEL	LOLO	AI	PCMAA
JPLT202	GRAPE STORAGE TANK LEVEL	LOLO	AI	PCMAA
JPMFIRSTAI	JPMX FIRST AI	LOLO	AI	PCMAA
JPOUFIRSTAI	JPOUT FIRST AI	LOLO	AI	PCMAA
BIGLOOP	BIG LOOP	LO LOOP	AI	PCMAA
SUPAI	SUPVSRV ALARM SUPPRESN AI	LOLO	AI	PCMAA
SUPAI1	SUPVSRV ALARM SUPPRESN AI1	LOLO	AI	PCMAA
FC01	TEST FLOW CONTROL LOOP	LOLO	AI	PCMAA
FC01-SIM	FC01 SIM BLOCK	LOLO	AI	PCMAA
FC01-DS1	TEST FLOW I051 VALVE	LOLO	AI	PCMAA
BT053-01	SIEVE TEMP CONTROL VALVE	LOLO	AI	PCMAA
BT053-02	SIEVE BED A TOP TEMP	LOLO	AI	PCMAA
BT053-03	SIEVE BED B TOP TEMP	LOLO	AI	PCMAA
BT053-04	SIEVE BED A BOTTOM TEMP	LOLO	AI	PCMAA
BT053-05	SIEVE BED B BOTTOM TEMP	LOLO	AI	PCMAA
BT053-06	SIEVE 200P VAPOUTLET TEMP	LOLO	AI	PCMAA
BP053-09	SIEVE BED A OUTLET PRESSURE	LOLO	AI	PCMAA
BP053-10	SIEVE BED B OUTLET PRESSURE	LOLO	AI	PCMAA
BL0053-17	SIEVE 200P FLASH LEVEL	HHH	AI	PCMAA
BF0053-15D	MOLE 200P FLOW TOTAL	LOLO	AI	PCMAA
SAC070-01	O2 ANALYZER/BOILER	LO	AI	PCMAA
BOC070-01	BOILER BLOWDOWN/CONDUCT SAMP/COOL	LOLO	AI	PCMAA
BP070-03	PLANT MAST STMPRES 1-300PSI	LOLO	AI	PCMAA
BP070-01	PLANT MAST STMPRES 1-300PSI	LOLO	AI	PCMAA

D3Express Reports

```

/ Ready
/ .....
HASK STEP "READY", 0, 0
PRASE_SIVE_STATUS = "TRAINING"
PRASE_STEP_NAME = "READY"
PRASE_MESSAGE = ""
DEV_ALIGN_START_REQ_FD = 0 ;clear flag so phase knows dev done

READYLOOP:
GOTO00 ANALOGCHECKS ;Check any analog points for bad i/o
GOTO00 DEVALCHECKS ;Check any devices for faults
GOTO00 AGITCHECK ;Check agitator to see if it needs to run
;stay here until phase requests alignment
IF (DEV_ALIGN_START_REQ_FD) THEN
GOTO00STEP DEV_ALIGN_REQ_SS ;goto requested step

WAIT 2
GOTO00 READYLOOP

/ Off Alignment
/ .....
HASK STEP "OFF", 0, 0
PRASE_SIVE_STATUS = "TRAINING"
PRASE_STEP_NAME = "OFF"
PRASE_MESSAGE = ""
GOTO00 ALOFF ;align devices to correct state
  
```

D3Edit Workspaces

D3Express Enhancements

D3Express has been refreshed and the user interface simplified. A new Reporting tab enables users to run and view reports anywhere, including ProcessVision on OCMs. They can compare CDB values between a DCM and PCM and find EPN references from all application files. An updated D3Express History enables analysts, auditors, and management to rapidly focus on key actionable information. Users can research events quickly and easily via ProcessVision on OCMs or their mobile devices.

D3Edit Updates

New D3Edit features allow for more rapid code navigation, less typing, and fewer errors with syntax expansion, completions, and code templates. Also new are dynamic differencing and merging for files, directories, and source trees. D3Edit now provides:

- Considerable coding flexibility
- Customization of menus, toolbars, key binding, and mouse operations
- Slick-C macro support

D3Edit allows workspaces with multiple application files from a single interface and an Application Source Code Management Repository Log Browser with History Differencing. The new features substantially ease SABL program development, increase efficiency, and reduce application project hours.

Expanded SGO Library

The High Performance Smart Graphical Objects (SGO) Library includes a new set of SGOs that will become the "NovaTech standard." Updated faceplates and symbols match ProcessVision appearance and functionality for defining alarm, auto/manual, interlock, and status indicators. All SGOs are documented in D3Help and in the TotalVision® Editor. In addition, more standard colors and resource variables have been added to TotalVision to ease high-performance graphic migrations. The High Performance SGO Library greatly simplifies display configuration and will measurably improve the TotalVision experience for operators.

Group-Based Privilege Set Maintenance (PSM)

Group-based PSM caters to users who employ a domain with their D/3 System. Individual user records are ranked higher than a group record to which the user belongs. A user belonging to more than one group for which a group record exists will receive the privilege set of the group with the highest ranking. Users and privilege sets can now be completely managed in Windows.

Windows Updates

D/3 Version 15 supports Windows Server 2012 R2, Windows 10, and Windows 7. If Windows 7 users upgrade to Windows 10 within one year of availability, the Windows upgrade will be at no charge.

New ProcessVision Displays

The previous Product Tracking display is split across three new displays that provide greater clarity and higher performance:

- Unit Overview
- Batch Tracking
- Pending Query

Additionally, ProcessVision gains new History and Reporting tabs.

OSIsoft PI Integration

In light of OSIsoft's PI System popularity in the process industries, NovaTech has added full support in D/3 Version 15. ProcessVision and TotalVision are now able to natively access information from the PI System for displays, reports, and trends.

InstAlarm Enhancements

The appearance and behavior in InstAlarm is now similar to the alarm displays in PVN. This will make it easier for operators as they make the transition to ProcessVision. Blue alarms will also be supported.



novatechweb.com

Copyright © 2016 NovaTech, LLC. NovaTech is a registered trademark of NovaTech, LLC. MDL Builder, D3Express, ProcessVision, InstAlarm, and D3Notify are trademarks of NovaTech Process Solutions, LLC. D/3 and TotalVision are registered trademarks of NovaTech Process Solutions, LLC. All other trademarks are the property of their respective owners. All rights reserved.

We work closely with customers to develop, deploy, maintain, and upgrade our solutions and we are directly accountable for every system's performance and customer's satisfaction. For more information on our products and services, visit us online at novatechweb.com.