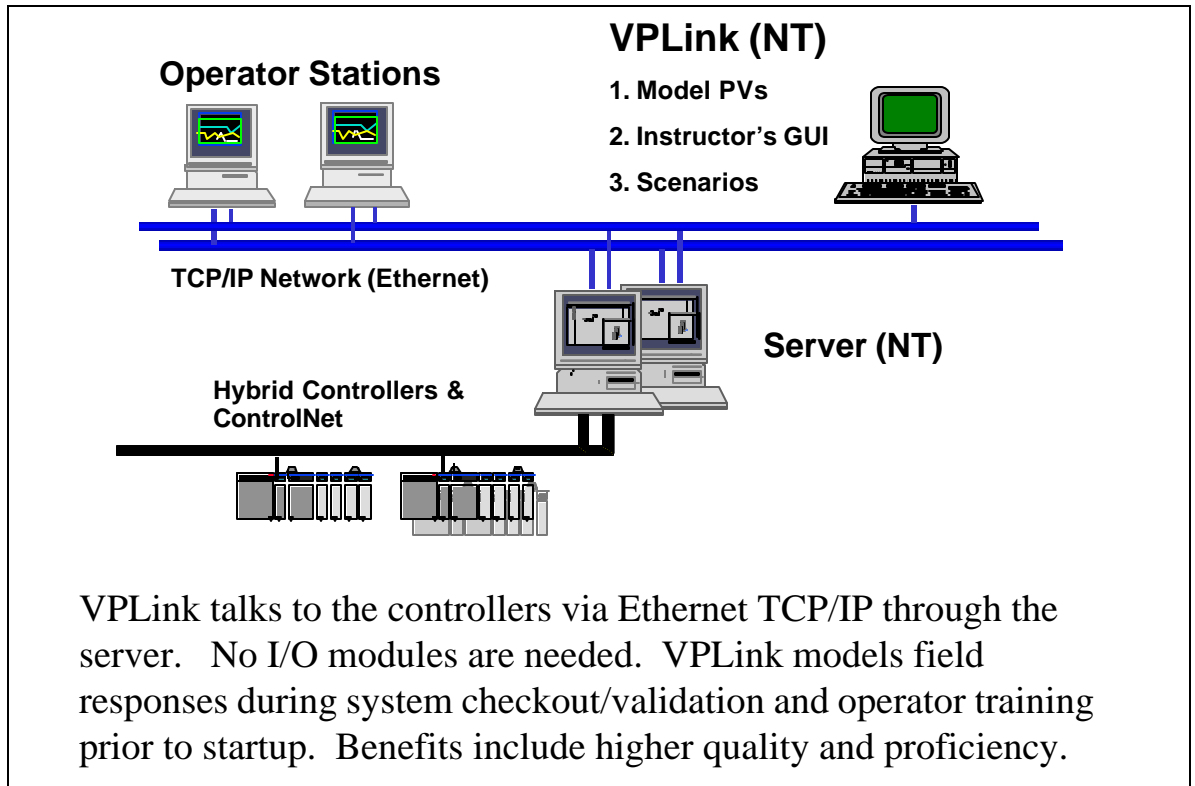


VPLink® Voted #2 by Control Magazine Reader's Survey

Thank you for your support, we are delighted by the feedback of our customers in the January 2000 Control Magazine Reader's Survey. Look for us to try harder in 2000 - we want to be the #1 supplier of simulation software to control system engineers.

Cape Software Services Voted #1 by Reader's Survey

These votes are more critical to our scorecard - before we become the most popular product, we want to be the best product. And providing first rate customer support is paramount here and we thank you for recognizing us. We will continue to improve our score.



VPLink® supports Honeywell Plantscape and Rockwell's Process Logix.

Cape has delivered solutions to plant sites implementing each system. VPLink utilizes a native API within the server and reads/writes simulated I/O within the controllers. Utilities to create your VPLink configuration file directly from your control database and create auto-tiebacks are included. A script file to toggle I/O blocks into "simulation mode" is delivered as well.

Supported Systems

Foxboro I/A Series Systems
 Moore APACS
 Fisher Provox
 Honeywell TPS
 ABB Mod300
 ABB IMS Advant
 Allen Bradley PLC5& SLC500
 Honeywell Plantscape
 Siemens TI Series 5x5 PLC
 GE Fanuc Series 6 and 90
 Modicon 984 and Quantum
 Fisher - Rosemount DeltaV
 Bailey F&P System 6
 Rockwell Automation PLX
 Rockwell Automation CLX
 Triconex
 Honeywell FSC

Cape Welcomes ...

Nova Chemicals - Calgary, Canada
 Nova Chemicals - Baytown, TX
 Tetrapack - Greenwood, IN
 Air Products & Chemicals - Calvert City
 Rohm & Haas - Louisville, KY
 Dupont - Waynesboro, VA
 BASF - Geismar, LA
 Optimal - Kerteh, Malaysia
 Advanced Automation - Exton, PA
 Wyeth Ayerst - Singapore
 Niro - Hudson, WI
 PPG - Bayport, TX
 Air Liquide P&C - Houston, TX
 TOSCO Refining - Rodeo, CA

Plug in the Process...

... The Virtual Process

Call us for more information at:
 (713) 661-7100 (Sales); (281) 448-5177 (Tech Support); our fax number is (281) 448-2607. e-mail to: sales@capesoftware.com

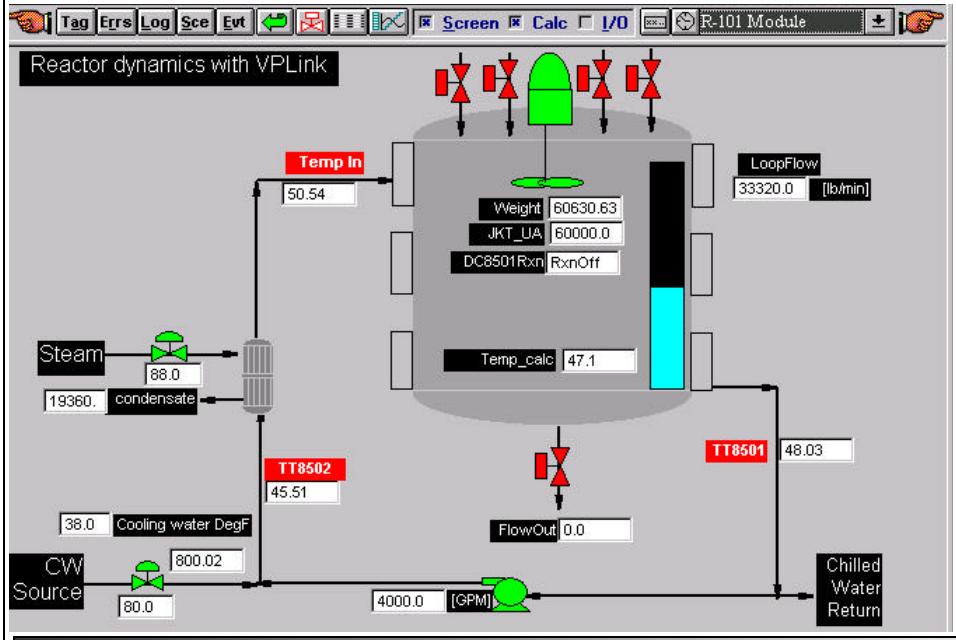
Visit our Web Site

<http://www.capesoftware.com>

The Virtual Process newsletter is published for the benefit of friends and users of VPLink®. Edited by Michael Sullivan.

Technical Tip

Batch reactor modeling for staging and operator training just got a whole lot easier. VPLink's collection of CALCBLOCKS includes unit operations such as the JacketedVessel. The example below illustrates how the circulated fluid can be heated and/or cooled, and the dynamics accounted for within VPLink.



VP Link Tag Definitions

Tagname: **R_101** (Drag & Drop, Field w/ Label, Bulk Config, ?)

Description: reactor heat balance calculation using jacketed vessel

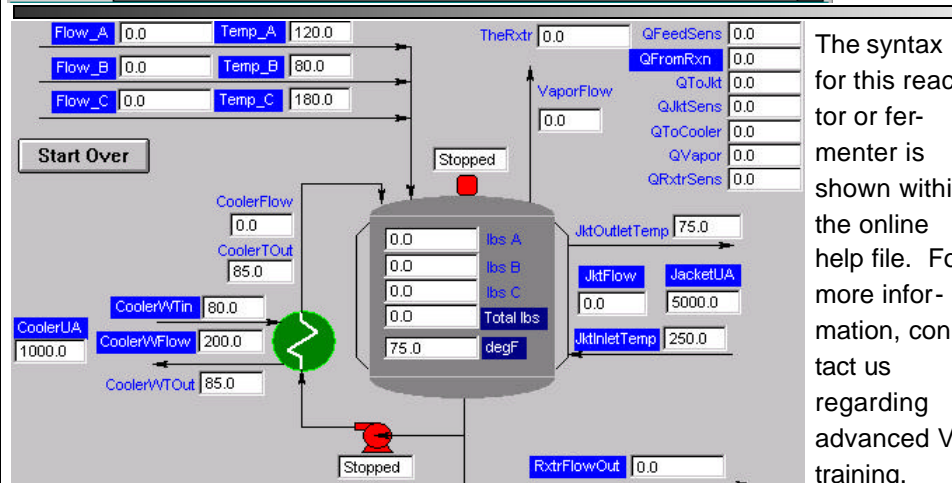
Value %: 45.1120758 Decimals: 1 EUHi: 134400.0 RawHi: 134400.0
 EU Value: 60630.6 Cycle Time: 0.05 EU Lo: 0.0 RawLo: 0.0

Driver: Update Address: LOCAL IOChar: Linear

Algorithm: **JKTVESL** Mode: AUTO Type: CALCBLOCK

Algorithm Parameters: R101Weight, 134400, TT8501calc, R101FlowIn, TTfeed1, 1, R101FlowIn2, 70, 1, R101FlowIn3, TempIn3, 1, R101FlowOut, TempIn, R101JktFlow, JKT_UA, 0, 0, 70, 0, R101RxnQ, 800, 0, 001, 182000, 21000, 19400

The syntax for this reactor accounts for size and weight of the vessel as well as fluid physical properties.



The syntax for this reactor or fermenter is shown within the online help file. For more information, contact us regarding advanced VP training.

Case History... *Interlock Testing Expedites F.A.T.*

Cape Software has developed a methodology to ensure safety interlocks are functioning correctly prior to going online. This solution has been implemented during recent staging operations of several major chemical plants. Automation of cause and effect detection and peer to peer connections has enabled these plants to deliver the highest quality application software.

VP Link 2.4 - C:\TB40\WPVILKCHECK.TBK

File Edit Text Page Commands Utilities Help

Tag Errs Log Sce Evt Screen Calc I/O ILK Valves

Interlocks and Permissives

C57_5703:XLO57003	NotOpen
C57_5703:XLC57003	Closed
C57_5703:XPB57003A	Trip
XZSV57006_T	On
XZSV57006_P	On
XZS57006	Off
XZPB57006R	Off
XZL57006D	Off
XSOV57007B	Off
XSOV57007A	Off
XPB57007A	Trip
XLO57007	NotOpen
XLC57007	Closed
TZSV57007_T	On
TZSV57007_P	On
TZPB57007R	Off
TZLC57007	NotClosed
TY57007	100.0
TI57007	550.0
PDI57007	0.0
LI57007	0.0
FZSV57007_T	On
FZSV57007_P	On
FZPB57007R	Off
FZLC57007	Closed
TZAHH55071A	Off
TZAHH55071	Off

Outputs

C57_5703:XSOV57003B	Off
Available	
Available	
Available	
Available	
Available	
Available	
Available	
C57_5703:XSOV57003B	Off
Available	
Available	
C57_5703:XSOV57003B	Off
C57_5703:XSOV57003B	Off

Man @ 50%

Update Outputs

C:\TB40\BOOKS\VL22CPC6.TXT

C57_5701:XYE5704AA
C57_5701:XYE5704AB
C57_5701:XYE5704BA
C57_5701:XYE5704BB
C57_5701:TY57001
C57_5701:FY57003
C57_5701:FY57004
C57_5702:LY57001
C57_5702:XSOV57002A
C57_5702:XSOV57002B
C57_5702:PY57001A
C57_5702:PY57001B
C57_5702:TY57007
C57_5702:FY57006
C57_5702:FY57007
C57_5703:FY57008
C57_5703:FY57009
C57_5703:XPY5702A
C57_5703:XPY5702B
C57_5703:XSOV57003A
C57_5703:XSOV57003B
C57_5704:XPY5701A
C57_5704:XPY5701B
C57_5704:XPY5703A
C57_5704:XPY5703B
C57_5705:FY57010
C57_5705:LY57004
C57_5705:LY57006

Add Tags Target Output

Step 1. Select your output tagname from the list here

Step 2. VP_ILK will create the input tagnames and display values here for you

Step 3. Compare the results of the test with your documented expectations.



Laura Klewer, Mike Sullivan and Monique Raub are here to help you. Photo courtesy of James Mangan Associates.

Hello from Automation Fair 99

Cape Software has been a member of Rockwell Automation's Encompass Partner Program since its inception. So, you can count on us participating in the Allen Bradley Automation Fair. We hope to see you this year in Philadelphia. We will be exhibiting VPLink for PLC-5 and SLC500, our RSLinx interface to ControlLogix and our ProcessLogix solutions. Call and ask for a copy of our 1999 presentation to find out more about how VPLink® can save money and increase quality of your projects and solve your operator training needs.

Plug in the Process... ...The Virtual Process



VPLink Solves Dynamic Simulation Needs for Engineers:
Control System Validation and Software Verification and
Operations: Board Level Certification for Console Operators.

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Rockwell
ProcessLogix

and

Honeywell
PlantScape

Methodology for
Interlock Testing

Technical Talk

CAPE Software

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