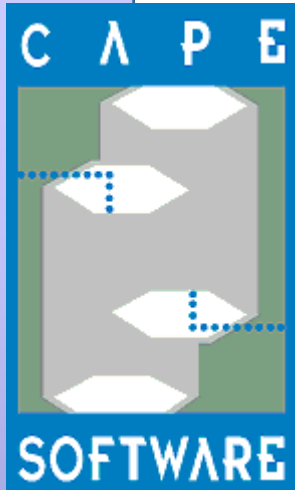


The Virtual Process
VP Link

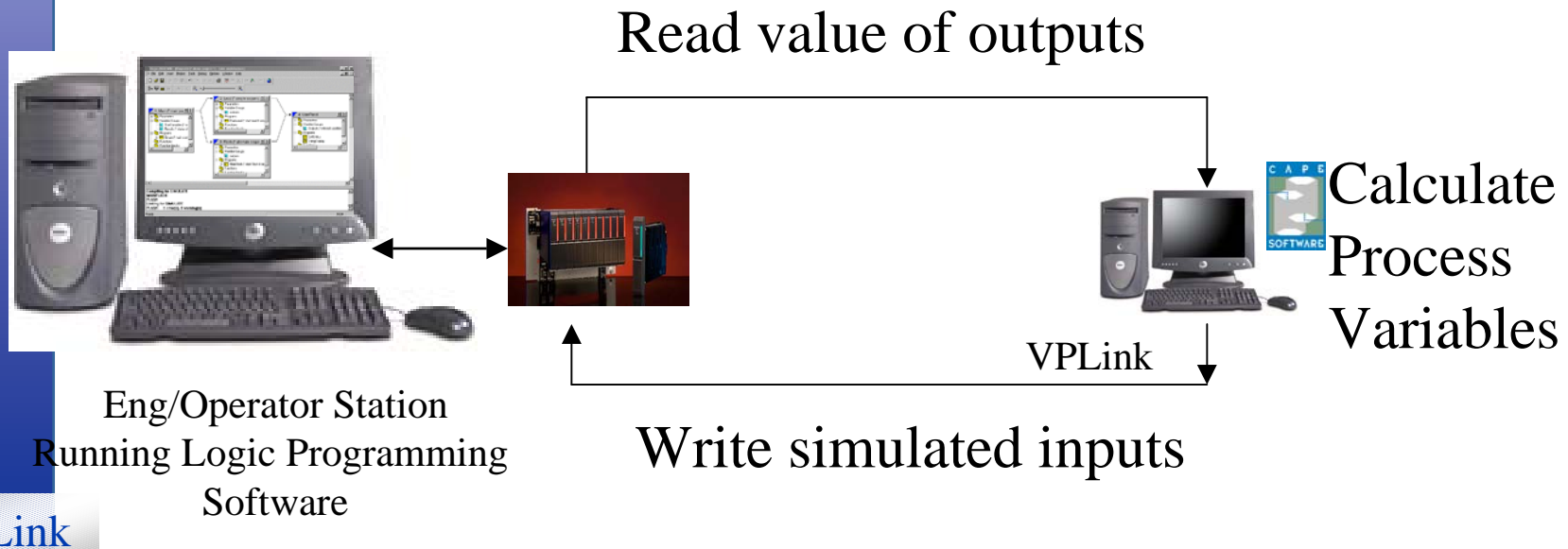
Cape Software Inc.
www.CAPESOFTWARE.com

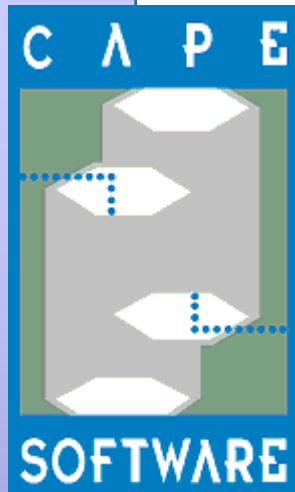
VP Link



Virtual Process Overview

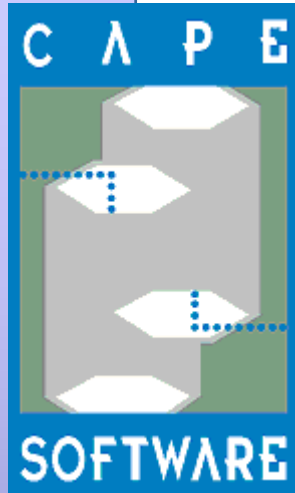
- Windows based interface: intuitive
- No Changes to the Quadlog program: non-invasive
- I/O board Hardware not required: Cost Effective
- Fast Ethernet interface to Quadlog





VP Link Ease of Use with Quadlog

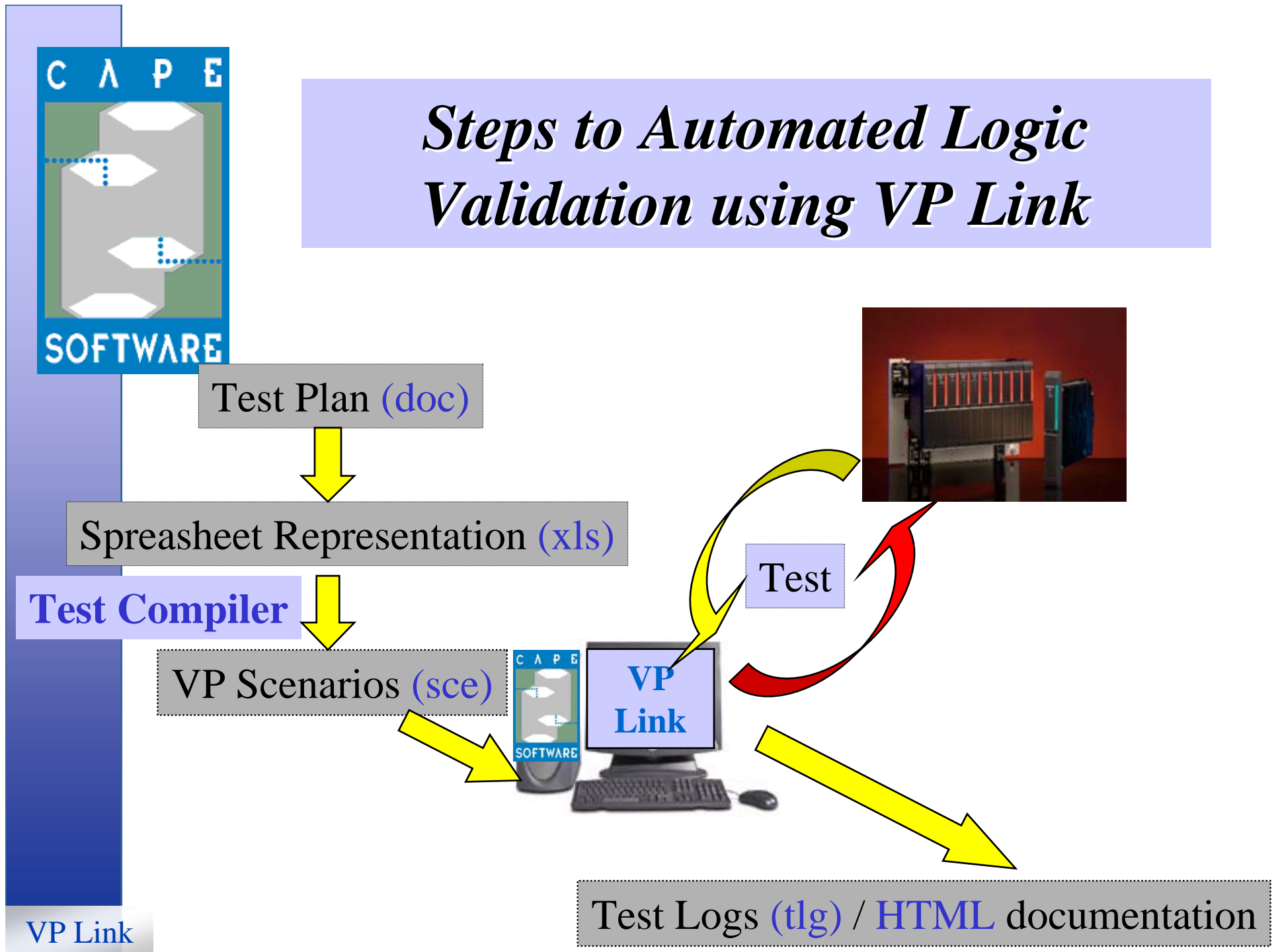
- Extraction utility creates the VP Link Tag Database, in a spreadsheet format
- **Fast:** Import and connect to all the points in a matter of minutes
- **Functional :** VP Link utilities automate tie-backs, or assist in creating more complex Dynamics
- **Convenient:** Drag and drop Graphic interface makes VP Link a practical, customizable testing environment
- **Adaptive:** Can be used to simply metaphor a Hardware Panel (Testing) or a rigorous process model (Operator Training)
- **Scalable:** Can interface with various control platforms (Honeywell/Invensys) for thorough integrated Testing



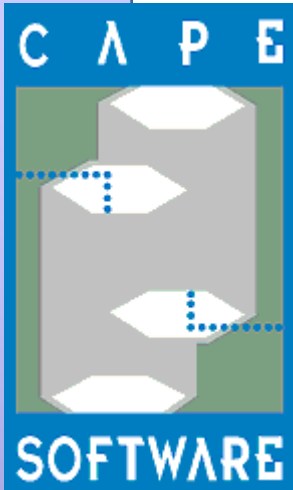
VP Link Test Compiler

- Generates Test Scripts, using an Excel front-end
- Scripts Based on Customer Test Plan and Functional Specifications
- A Script
 - Forces inputs to a specified State
 - Compares the outputs to an expected state table (Cause and Effect Matrix)
 - Logs errors to HTML format
- Runs and documents test plan **unattended**

Steps to Automated Logic Validation using VP Link



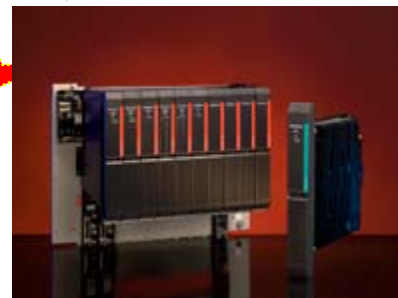
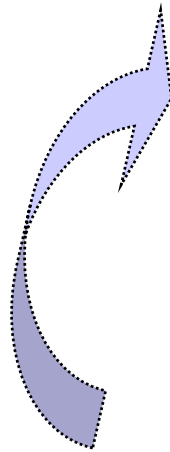
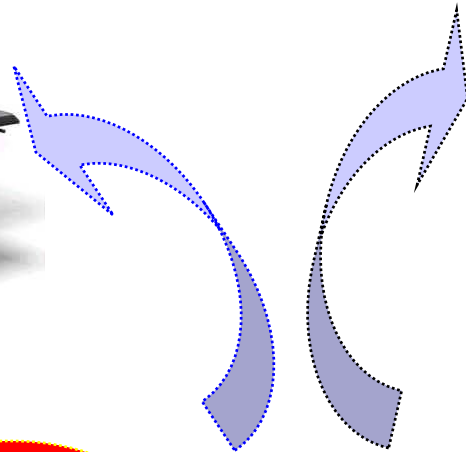
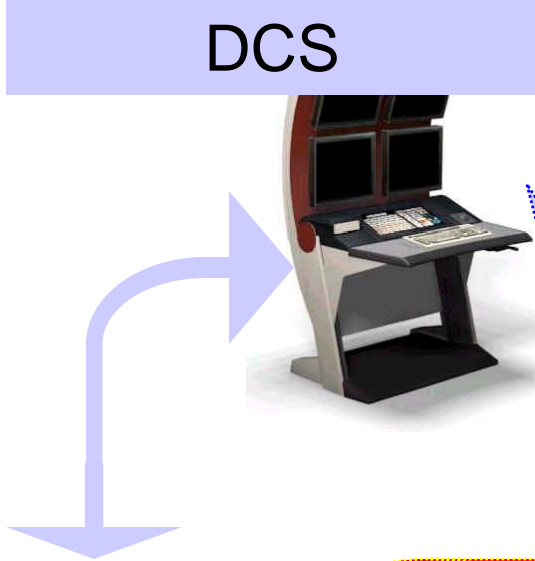
Automatic Integrated Testing of Distributed Program



DCS

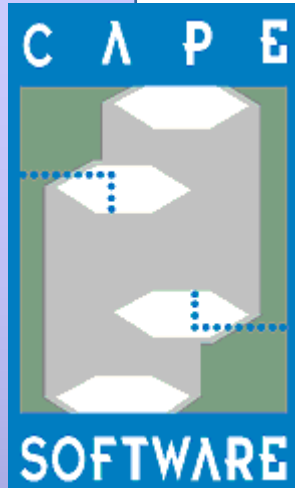


SIS MMI



Quadlog

VP Link



Benefits of Logic Validation using VP Link



- Improved **maintainability**, Logic can be re-tested periodically during the program life cycle
- Test Scripts are queued, then run **unattended**
- **Reduction** of overall installed **cost** / Schedule
- **VP Link adaptivity** to different testing phases
- Improved Test quality (“**6 σ** ” objectives)
- Better **Documentation**
- **Compliance** to Software Validation standards
 - (IEC 61508,61511,TuV)
- Improved **Management Of Change**
- Increased **Safety**