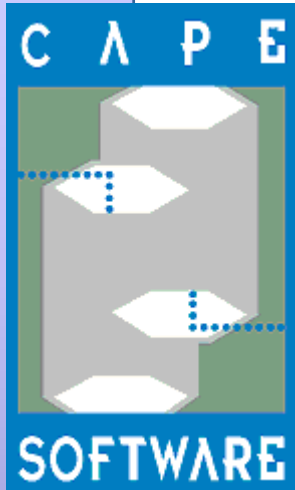


*The Virtual Process*  
*VP Link*

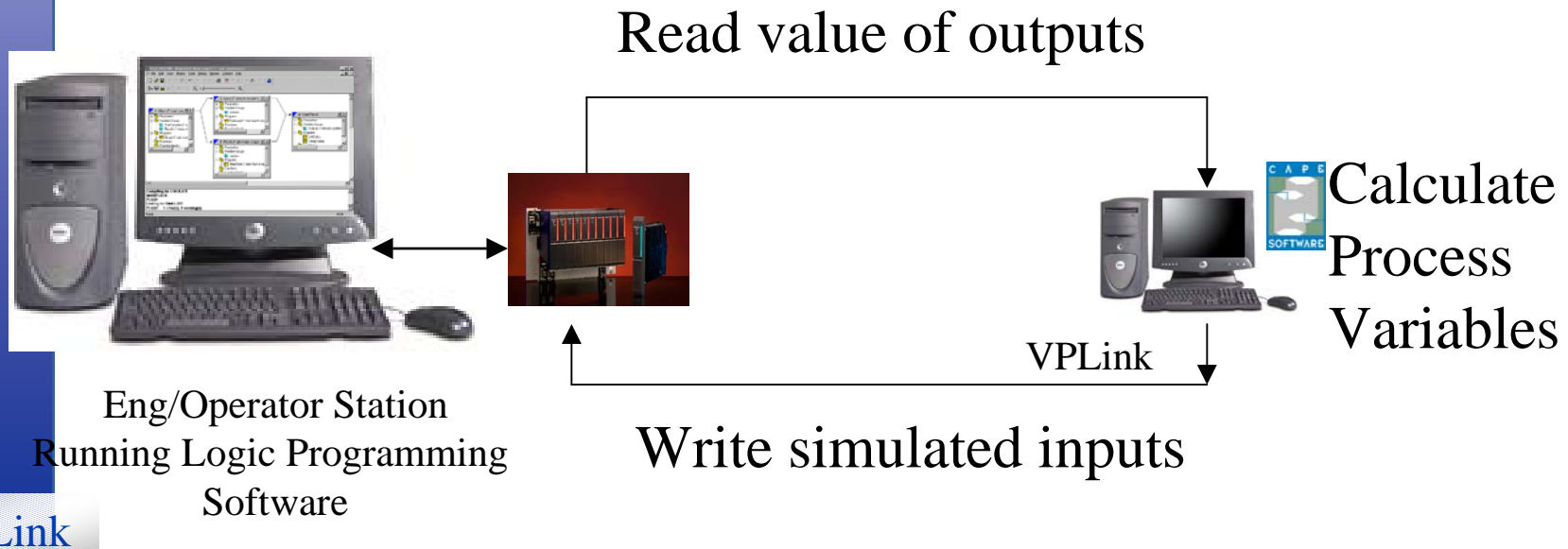
**Cape Software Inc.**  
**[www.CAPESOFTWARE.com](http://www.CAPESOFTWARE.com)**

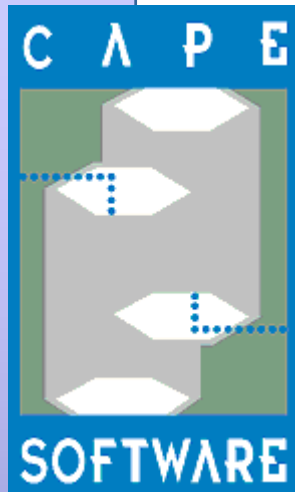
VP Link



## *Virtual Process Overview*

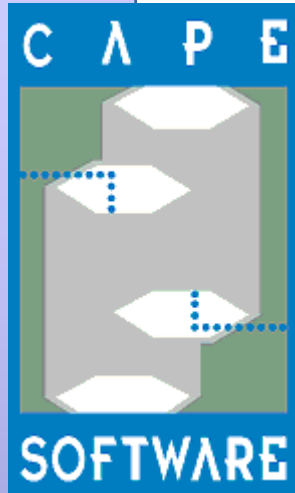
- Windows based interface: intuitive
- No Changes to the Quadlog program: non-invasive
- I/O board Hardware not required: Cost Effective
- Fast Ethernet interface to Quadlog





## *VP Link Ease of Use with Quadlog*

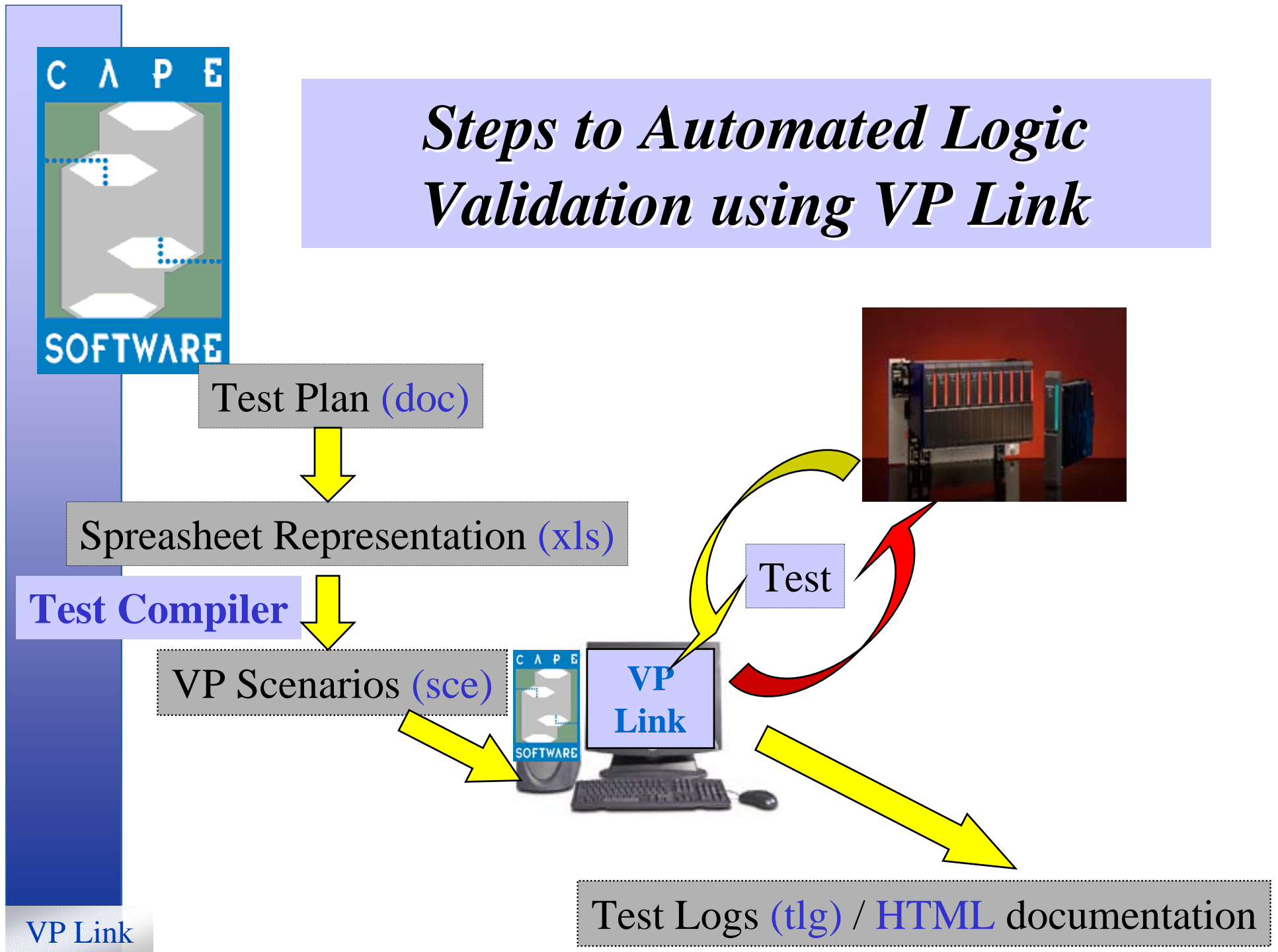
- Extraction utility creates the VP Link Tag Database, in a spreadsheet format
- **Fast:** Import and connect to all the points in a matter of minutes
- **Functional :** VP Link utilities automate tie-backs, or assist in creating more complex Dynamics
- **Convenient:** Drag and drop Graphic interface 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



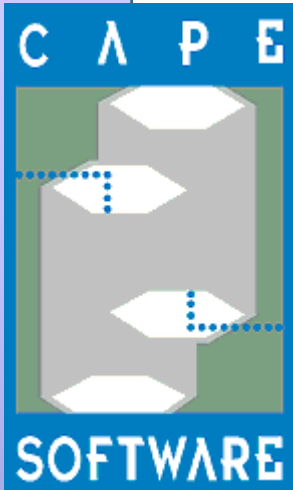
## *VP Link Test Compiler*

- 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



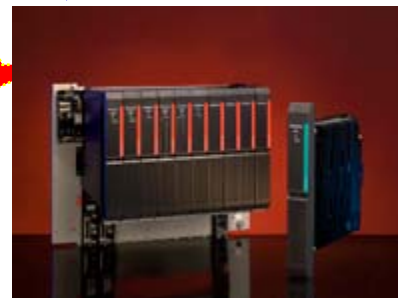
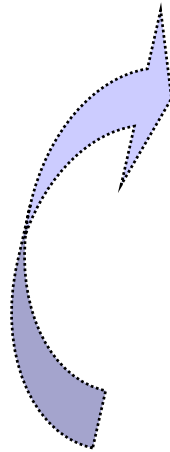
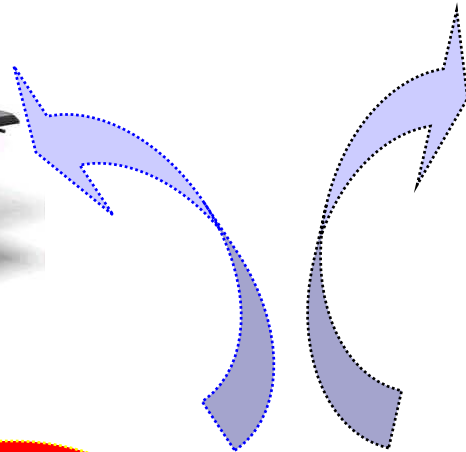
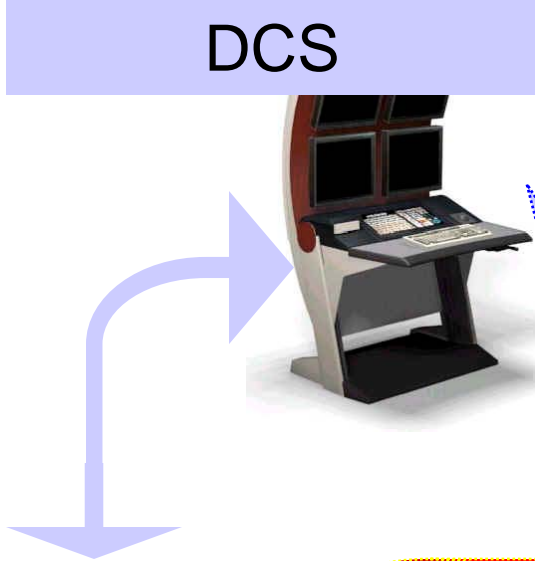
# *Automatic Integrated Testing of Distributed Program*



DCS

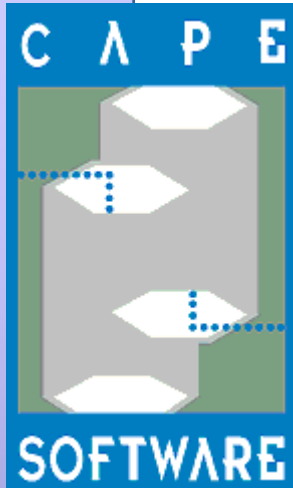


SIS MMI



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  $\sigma$** ” objectives)
- Better **Documentation**
- **Compliance** to Software Validation standards
  - (IEC 61508,61511,TuV)
- Improved **Management Of Change**
- Increased **Safety**