

# Protocol Test - Harness

- Simulate Database
- Specification
- Communication Protocol Analyzer Window
  - Scroll Back Buffer
  - Protocol Layer / Communication Port / Address
  - File
- Command Interpreter TCL Language Test Script
- Test Script Command Interpreter
- TCL / TK Programming Graphical User Interface Customized
- **Conformance Testing** : Conformance Test Script
  - DNP3 IEC 60870-5
- DNP3 – Distributed Network Protocol(Serial TCP / IP )
- IEC 60870-5-101 – Basic Telecontrol Task
- IEC 60870-5-102 – Remote Meter Reading
- IEC 60870-5-103 – Protection Equipment
- IEC 60870-5-104 – Network Access(TCP / IP) for IEC 60870-5-101
- Modbus
- **Communication Protocol Test Harness** : Windows Master Slave Scripting Language
  - Reference Protocol Analyzer Output File Benchmark

## Hardware

Windows 98 / NT / 2000 / XP Operating System PC  
 Serial Communication Port Ethernet Port DNP3  
 IEC 60870-5 Layered Protocol Physical Layer Point-to-Point(RS232, RS422 ), Multi-Drop(RS485, Fiber Optic Network )  
 Network Connection(TCP / IP) Serial Communication Standard가

