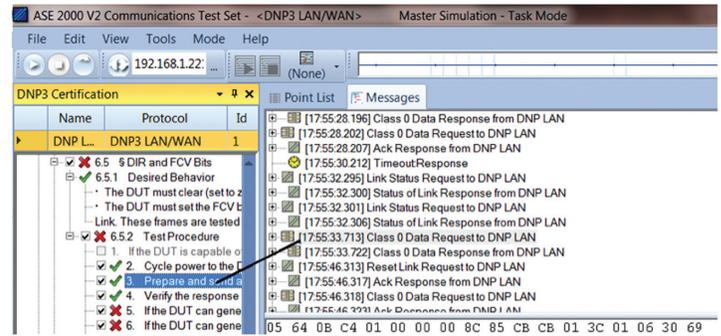


ASE2000

VERSION 2 Communication Test Set



THE EVOLUTION IN PROTOCOL ANALYSIS...

ASE2000 Version 2 is the latest in ASE's line of Communication Test Sets first introduced in 1989. It provides communication analysis, test, and simulation for over 70 serial and network SCADA protocols. Custom communication hardware provides enhanced RS-232 communication and timing capabilities.

Significant ASE2000 V2 Software Features

- Master simulation, remote simulation, and line monitoring capabilities
- Messages displayed in English and raw data
- Points displayed in engineering units and raw values
- Task functional support tailored to each protocol for data acquisition, control, time synchronization, file transfer, and more
- Log of critical system events such as point alarms, communication errors, and key messages
- Low level plot of RS-232 signals from custom hardware
- Communication messages saved to disk. Free message viewer available so others can analyze your communication sessions
- RTU simulation run-time modification of data values
- Control over forced error conditions for comprehensive testing
- Enhanced communication message query and search capabilities
- Communication Statistics
- Comprehensive online help

Extra features for DNP3

- Outstation conformance testing. Report suitable for submission to DNP Users Group
- Secure Authentication version 2 and 5
- File transfer
- Unsolicited and solicited operations

Other major protocols

- IEC 60870-5-101, 103, 104
- Conitel 2020, 2025, 300, 3000
- CDC Types 1 and 2
- RP570
- Harris 5000/6000
- Telegyr 8979
- Modbus
- Spa Bus
- 60+ Others

EXPEDITE PROBLEM SOLVING

Simplify problem reporting and analysis between vendors and users by transferring communication data via capture files. A **free** capture file viewer is available so ASE2000 customers can send capture files to anyone to view and analyze. Please visit our website for more details.

ASE2000 Hardware Options:

- ASE2000-COM works with **standard COM ports** and network adaptors
- ASE2000-USB-RS adds a dual-serial channel USB box with enhanced RS-232 signal handling, embedded high precision timer, and support for legacy bit protocols
- ASE2000-USB-M adds a dual-channel Bell-202/ V.23 modem to the ASE2000-USB-RS model

Available Free of Charge:

- Capture file viewer. ASE2000 customers can send capture files to anyone to view and analyze. Simplifies problem reporting and analysis between vendors and users
- Trial version can be downloaded from our website at <http://www.ase-systems.com> under the Downloads tab

The screenshot displays the ASE2000 software interface with the following components:

- Task List (Left Panel):** Shows various tasks such as 'Acquire Static Data', 'Analog Static Scan', 'Binary Static Scan', 'Frozen Static Counter Scan', and 'Binary Static Counter Scan'. A red callout box highlights 'User Selectable Communication Tasks, Tailored to Each Protocol'.
- Central Data Display:** Shows a 'Line Monitor' window with 'Visual Line Activity, Request and Response Data and Carrier Signals'. It displays raw and interpreted data for a 'Data Request' and 'Data Response'.
- Message Tree (Right Panel):** Shows a 'Messages' window with a tree view of application data, including 'User Data', 'Transport Header', 'Application Data Read', and 'Application Data Response'. A red callout box highlights 'Detailed Visual Presentation of Expandable Message Fields'.
- RTU Point List (Bottom Table):** A table showing real-time data for various points. A red callout box highlights 'Point Values, Alarm States, Quality Codes, and Time Stamps'.

RTU	Point	Name	Raw	Value	Quality	Time
1	AI 0	Line 23 Volts	100	100 V	On-line, Communications lost	
1	AI 1	Line 23 Amps	156	156 A	On-line, Communications lost	
1	AI 2	Line 23 VARs	234	234 Vars	On-line, Communications lost	
1	AI 3		0	0	On-line, Communications lost	
1	AI 4		0	0	On-line, Communications lost	
1	AI 5		0	0	On-line, Communications lost	
1	AI 6		0	0	On-line, Communications lost	
1	AI 7		0	0	On-line, Communications lost	