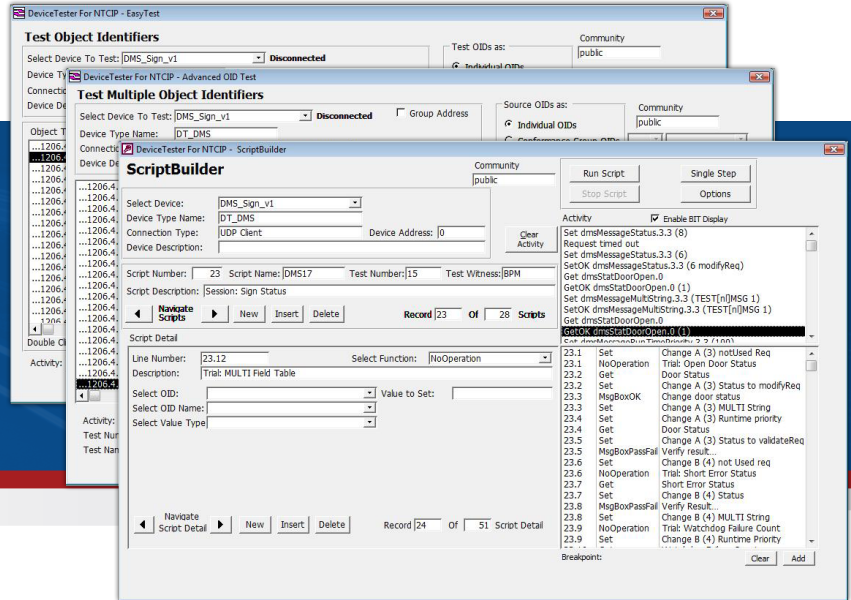


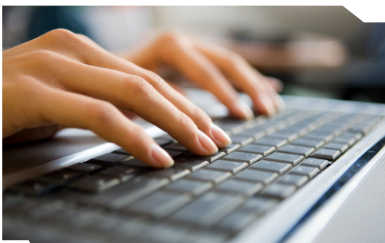
DeviceTester for NTCIP



DeviceTester for NTCIP is the easy and fast way to test your NTCIP central or field device. The software allows automatic configurable testing of devices that conform to the NTCIP suite of standards.

DeviceTester has an easy to use interface, a powerful object model and database structure, combined with a NTCIP ActiveX control for communication result in a product that is great for:

- Debugging new applications and products.
- Fault finding during System Integration and Acceptance testing.
- Verify product specification conformance.



DeviceTester Features:

- > Easy, fast and convenient
- > Powerful scripting environment
- > No syntax to learn. All commands and functions appear on drop down lists for selection
- > Prepare Acceptance Tests in accordance with contract acceptance test requirements for repeatable testing
- > Prepare scripts for automatic production line testing
- > Prepare scripts for automatic software testing and quality control
- > Result logs and reporting
- > Comprehensive data export functions
- > Extensive context sensitive Help

- Build custom OID lists for your peripheral device and specification, and then test only those objects.
- Add manufacturer specific OID's and test both Central and Field Device support.
- Verify conformance group and object support for contract compliance. Print complete reports for documented test record.

Supports multiple devices, multiple device types and standard/custom OID Master Tables. Master Tables can be imported and built from standard MIBs and compiled and expanded into DeviceTester.

MASTER OID TABLES SUPPORTED AS STANDARD:

1201 – Global Objects	1202 – Actuated Signal Controllers
1203 – Dynamic Message Signs	1204 – Environmental Sensor Stations
1205 – CCTV Camera Control	1207 – Ramp Meter Control
1209 – Transportation Sensor Systems	

PROTOCOL STACKS SUPPORTED AS STANDARD:

Direct Connect Multi-drop:	Data Objects > SNMP > Null > PMPP > Twisted Pair
Dial Up:	Data Objects > SNMP > Null > PMPP > V Series Modem > Telco
Network / Internet / Connection Based:	Data Objects > SNMP > TCP/IP > Ethernet > Twisted Pair
Network / Internet / Connectionless:	Data Objects > SNMP > UDP/IP > Ethernet > Twisted Pair

SCRIPT FUNCTIONS SUPPORTED AS STANDARD:

NoOperation	Does nothing!
Get	Get Value from the OID in the connected Device.
Set	Set Value to the OID in the connected Device.
GetNext	Get Value from the next OID in the connected Device.
GetAndSaveToDatabase	Get Value from the OID in the connected Device, save to Database.
SetFromDatabase	Set Value to the OID in the connected Device from the Database.
Delay	Pause execution of the script for the number of seconds selected.
MsgBoxOK	Pause execution and prompt the user to click the OK button, with comments.
MsgBoxPassFail	Pause execution and prompt the user to click the Pass or Fail button, with comments.
MsgBoxYesNo	Pause execution and prompt the user to click the Yes or No button, with comments.
GoToLine	Go To this script and line number and execute.
RunScript	Go To this script and line number and execute. Return to calling script when done.
SetVariable	Set the selected Variable to a value.
GetAndSaveToVariable	Get Value from the OID in the connected Device, save to Variable.
IncrementVariable	Increment the selected Variable.
DecrementVariable	Decrement the selected Variable.
If...Then...Else	Simple branching.
AscInc	ASCII increment of Variable.
AscDec	ASCII decrement of Variable.
CopyVar	Copy one variable to another.
ConcatVar	Concatenate one Variable with another to a third.
GetTableEntry(Var)	Get Indexed Table Entry using Variables.
ActivateMessage	Activate Dynamic Message Sign message.
ActivateMsg(Var)	Activate Dynamic Message Sign message using Variables.
DownloadMessage	Download Dynamic Message Sign message.
DownloadMsg(Var)	Download Dynamic Message Sign message using Variables.

EXPORT FUNCTIONS SUPPORTED AS STANDARD:

In addition to standard reports, DeviceTester will export scripts, master tables, connections, device data, event logs and conformance groups in any of the following formats:

Text file (comma delimited .txt), Excel file (.xls), Access Database (.mdb), eXtensible Markup Language (.xml)

OPTIONS:

Training, Application Assistance, Telephone Support, Upgrades and Enhancements.