

Scripting Capabilities of Visual MIBrowser Pro

Product Brief

NuDesign Technologies, Inc.

This document is provided for informational purposes only, 'as is' and without warranty of any kind. This document may be copied, however without any modification, and all pages, full text and notices must be included.

Table of Contents

| | |
|---|----------|
| DOCUMENT HISTORY | 3 |
| WHAT IS NUDESIGN MIBROWSER PRO SCRIPTING | 4 |
| WHAT CAN YOU DO WITH MIBROWSER PRO SCRIPTING | 4 |
| WHAT FEATURES ARE AVAILABLE IN MIBROWSER PRO SCRIPTING | 5 |
| OVERVIEW OF THE INCLUDED SCRIPT EXAMPLES. | 5 |
| ABOUT NUDESIGN TECHNOLOGIES | 6 |
| Contact Information | 6 |

Document History

| Date | Rev. | Remarks | Author |
|-------------|-------------|----------------|---------------|
| 2011 | A01 | Created | NDT |
| 2017 | A03 | Minor edits | NDT |

This document is provided for informational purposes only, 'as is' and without warranty of any kind. This document may be copied, however without any modification, and all pages, full text and notices must be included.

What is NuDesign MIBrowser Pro Scripting

NuDesign MIBrowser Pro scripting is an extension to VB and JScript that provides an interpretive programmatic interface to the SNMP engine and other components of NuDesign's Visual MIBrowser Pro. All the features of VB and JScript scripting are available plus you can send and receive SNMP requests and also interact with certain aspects of NuDesign's Visual MIBrowser Pro itself.

What can you do with MIBrowser Pro scripting

Here are just a few examples of the kinds of things you can do with MIBrowser Pro scripting.

- All "standard" scripting functionality is exposed so you can load other controls or access MIBrowser Pro controls such as MIB Compiler, access the file system and other system resources. (See Microsoft documentation for more details)
- Regression testing a SNMP agent. Scripts can be created (or existing scripts, shipped with the product can be custom modified) that test the behavior of an agent and the results can be displayed or saved to a file.
- Stress testing an SNMP agent.
- Compliance testing an SNMP agent.
- Implement complex agent interactions. Many operations for day to day management of an agent are not simple gets, walks or sets that fit neatly into a simple query. Often a variety of SNMP operations are required. With a script, these complex operations can be performed with the creation and execution of a script.
- Implement scripts that perform operations on a group of agents. Many times the same operation must be performed on a multiple of agents. Scripting the operation is an easy solution to this problem.
- Extend MIBrowser Pro user interface and functionality. You can instantiate many standard and custom controls to present additional UI's and functionality. See overview of included scripts for examples.
- Middle level SNMP notification monitoring and forwarding. With a script you can monitor for the reception of notifications and forward notifications to other management application(s), based on the notifications MIBrowser Pro has received.

What features are available in MIBrowser Pro scripting

- Methods for sending and receiving v1, v2c and v3 SNMP requests, including Get, Get Next, Get Bulk and Set.
- Method to send all forms of notifications, including v1/v2c/v3 traps and v2c and v3 inform requests.
- Method to monitor notifications received by MIBrowser Pro.
- Method to add entries to MIBrowser Pro alarm log.
- Request and response data management and conversion methods.
- Method for controlling timing or pace of the script. (See Sleep()).
- Output presentation methods.
- Methods to access Browser Pro MIB Compiler Control.

Overview of the included script examples.

- **demo.nds.** Implements a wide variety of MIBrowser specific script features, including getting a scalar group with a single get, walking a table with get-next and get-bulk, data conversion, script pacing, simple user input, access of an external file, sending a SNMP notification and adding an entry to the alarm log.
- **Common Dialog Example.nds:** Demonstrates using an Active X control from MIBrowser script. The script opens the 'File Finder' dialog in comdlg32.ocx in the "Save" mode.
- **Shell Example.nds:** Demonstrates interfacing to Window's Shell facilities. Opens a directory browser dialog and parses the user's selection, starts a 'Find Files' explorer and a file explorer.
- **WMI Example.nds:** demonstrates accessing Window's WMI interface, returning the current drive free space on drive "C:"
- **Notification.nds:** This script extracts all the notification information to MIBrowser, parses and presents it.

About NuDesign Technologies

NuDesign Technologies, Inc, based in Toronto, Canada, specializes in the development of management agents and client applications used in remote configuration, monitoring and control of Windows and Linux Servers & Workstations, embedded devices, networking services and applications. For all of our software products, supporting standard management protocols such as NETCONF, SNMP, CLI and web protocols such as RESTCONF, please visit our main site at www.ndt-inc.com.

The benefits of deploying NuDesign's management software technologies are reliable, low risk, quick-to-market and well supported solutions. The highly automated code generation tools with associated applications and tutorials enable fast prototyping and development. They also facilitate organization and design process for multiple target environments.

Contact Information



NuDesign Technologies, Inc.

tel: 416 737 0328 / fax: 416 445 9101

toll free: 1 866 886 SNMP (7667)

contact@ndt-inc.com

www.ndt-inc.com / www.snmp4windows.com

This document is provided for informational purposes only, 'as is' and without warranty of any kind. This document may be copied, however without any modification, and all pages, full text and notices must be included.