NuDesign Team Inc.

Putting the "Simple" back into SNMP.

NuDesign SNMP Products - Application Note

NuDesign's suite of applications and ActiveX controls is designed to help SNMP management application developers and SNMP agent developers create software efficiently and cost effectively.
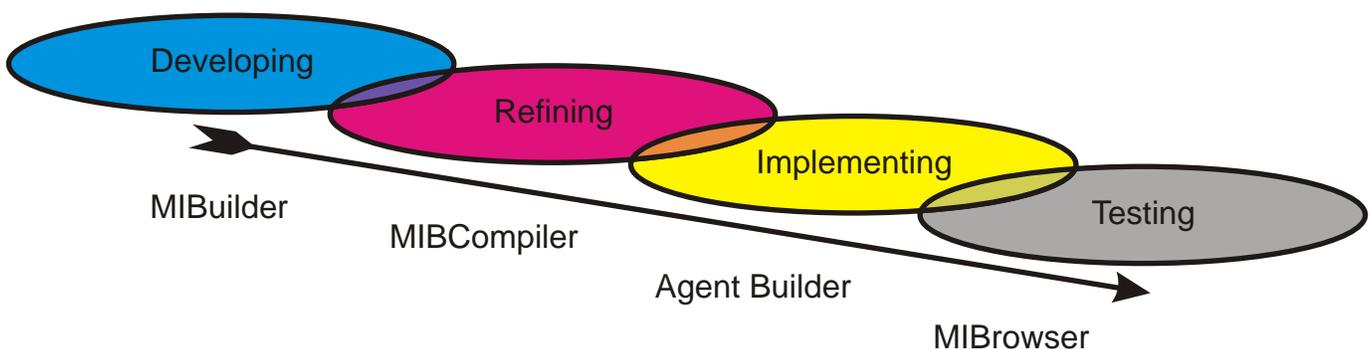
Applications

The starting point of any SNMP-based agent or manager is the MIB. Until the advent of NuDesign's Visual MIBuilder™, developers had to learn ASN.1 notation before writing a MIB. With Visual MIBuilder™, a developer can spend time actually creating MIBs rather than learning ASN.1 first. With its point-and-click user interface, Visual MIBuilder™ makes it easy to create error-free MIBs every time in just minutes.

For those who already have a MIB and are looking for a MIB compiler, NuDesign's Visual MIBCompiler™ fits the bill. Not only will it compile the MIB, it can also create VB/VC++ files with name-to-OID mappings.

Once a MIB has been created, a developer can use Visual xAgent Builder™ to have a fully functional SNMP agent in VB or VC++. NuDesign has leveraged the power of Visual Studio Wizards to create an agent with all the SNMP-related code for your enterprise MIB. This agent can be used as an agent, a proxy agent, or a demo/test agent for SNMP management applications.

To complement the above products, NuDesign's Visual MIBrowser™ can be used to test or simply browse an SNMP agent. This simple but powerful utility can be used to do Gets, Sets, or GetNexts on any SNMP agent.

Developing — Refining — Implementing — Testing

MIBuilder
MIBCompiler
Agent Builder
MIBrowser

ActiveX Controls

NuDesign's SNMP controls can instantly convert a Windows® application into an SNMP manager. With the Trap Sender™ control, a call to a single function will send an SNMPv1 trap or an SNMPv2 trap. Similarly, if you need to receive traps, the Trap Receiver™ control will do the job for you.

If your Windows® application needs to communicate with an agent, the SNMP Management™ control will provide all the functionality that is required. In addition to Get, Set, and GetNext functions, this control will also perform programmed retries and inform the application if the agent is not responding.

NuDesign's Agent AutoDiscovery™ control will discover SNMP agents in the network within a given range of IP addresses, and provide a list of SNMP agents it discovers.

The NuDesign's MIB Loader™ control is required when an application needs to query agents regarding objects that are not known at design time. This control will load a specified enterprise MIB through a programmatic interface. The application will then be able find out the name, OID, and syntax of a given object.

As a group, NuDesign's family of SNMP ActiveX controls and its SNMP MIB and agent applications provide a full toolkit for bringing ease and speed to the work of SNMP developers.

About NuDesign Team Inc.
We specialize in products and services for network management, providing software, engineering toolkits, and high quality engineering services for networking manufacturers and system integrators. We focus on SNMP and RMON technologies, applying them to any communication infrastructure.

Telephone: (416) 737-0328   •   Fax: (416) 445-9101   •   E-mail: contact@NuDesignTeam.com

www.NuDesignTeam.com