NuDesign's Visual SNMP Manager Tools for QNX Neutrino® RTOS
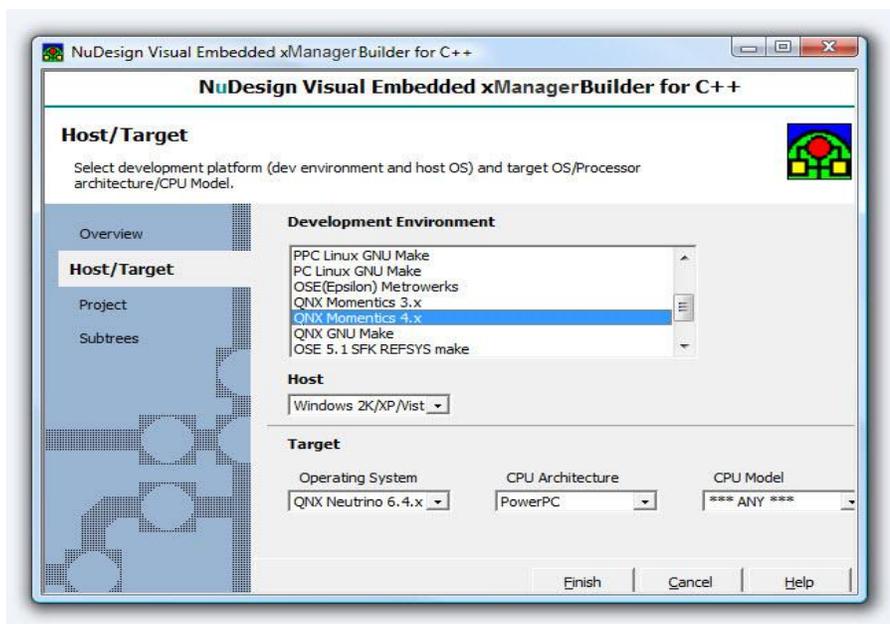
The NuDesign C++ SNMP Manager Studio Development Tool provides a complete SNMPv3 Management Application development framework for QNX Neutrino® RTOS. The QNX versions 6.3.x, 6.4.x, 6.5.x and 6.6.x with IPv6 / IPv4 compliance are supported.

The Studio Consist of:

- SNMP xManager Builder, C++ code generation wizard. It generates SNMPv3 Management Application sources for QNX Neutrino® RTOS and Project Build files for QNX Momentics IDE environment.
- SNMPv3 C++ SDK Libraries for multithreaded SNMP Manager Application for QNX Neutrino® RTOS. Supports all SNMP commands (Get/Set/GetNext) & SNMP notifications including Informs.
- Sample code in C++ demonstrating typical management functions, such as Get Table, MIB Browser, SNMP Polling Engine, Trap handling and others.
- SNMPv3 Manager Configuration Editor.

Supported host environments are Windows Server 2003, Server 2008, Server 2012, Server 2016, Vista, Windows 7, Windows 8/8.1 and Windows 10, 32bit or 64bit versions.

When xManager Builder is run, the developer can load MIBs into the visual wizard. By loading the MIBs at design time, information about the MIB objects is available programmatically to the developer. Most commonly used MIB object information such as OID and object name, access and status are made available.

For more information and product evaluation kit please visit www.ndt-inc.com

However, through the use of **XMC** files, created by the xManager Builder, pre-compiled MIB information can be read by the NuDesign SNMP management libraries to provide the MIB information at run time as well. The **XMC** files can be considered to be a concise version of the MIB file. Each object in the MIB file is represented by a single row in the **XMC** file.

The information from the **XMC** files can be used to recreate the mib tree present in the SNMP agent. The information can also be utilised by the management application to make GET/SET commands using the object names rather than the object OIDs. On notification reception, varbinds can be decoded using the mib information to provide users with object names.

The resulting SNMP Management Application runs under the QNX Neutrino® RTOS. The process of building the SNMP Management Application using the SNMP xManager Builder wizard, the SNMPv1/v2c/v3 C++ Management SDK Libraries, generated C++ source code and project files is automatic.

Please also see Product Briefs for NuDesign's SNMP Agent and Command Line Interface (CLI) agent code generation tools and how they integrate together. For more information and product evaluation kits please visit www.ndt-inc.com

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.

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