



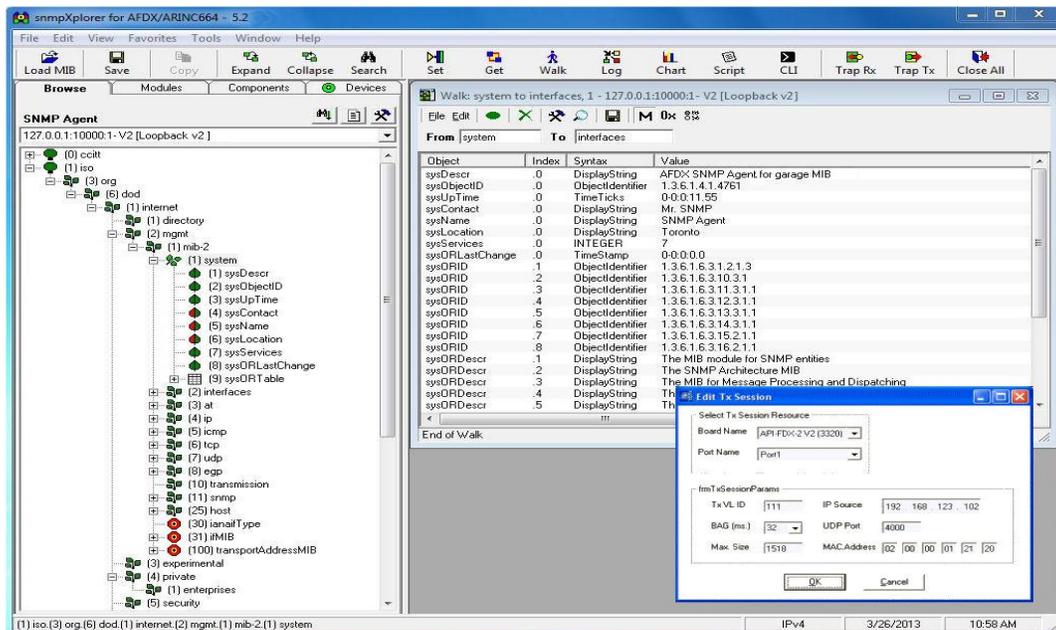
NuDesign snmpXplorer - AFDX[®] / ARINC664 SNMPv3 Manager for Microsoft Windows

AFDX[®] / ARINC664 SNMPv3 Manager - SNMP Agent Monitor, Test and Analysis

With the introduction of the AFDX[®] (Avionics Full Duplex Switched Ethernet) and ARINC664 data networks on-board of civil and military aircrafts, including the Boeing 787 Dreamliner, the Airbus A380 and A400M, retrieving, viewing, and analyzing SNMP MIB data from End Systems residing on aircraft data networks is a primary concern to the aircraft developers, airline operators and maintenance teams.

To support this need, NuDesign Technologies has partnered with the leaders in the AFDX[®] field to provide **snmpXplorer** which combines the robust SNMP monitor, test and analysis features with industry leading ARINC664 interface modules. The snmpXplorer is fully compatible with our partner's PCI, cPCI, PCIe, PXI, PXIe, PMC and USB AFDX[®]/ARINC664 modules.

AFDX[®] is a registered trademark of Airbus.



Key Features of snmpXplorer:

Configure

- easy set-up of ARINC 664 parameters, such as Virtual Link Identifiers (TxVLID & RxVLID), Bandwidth Allocation Gap (BAG), and IP / UDP / MAC communication session data.
- comprehensive set-up of SNMPv1/v2c and secure SNMPv3 communication parameters. Support for the following user selectable security protocols:
 - ⊕ authorization: MD5, SHA , SHA224, SHA256, SHA384 and SHA512.
 - ⊕ privacy: DES, 3DES, AES, AES128, AES192 and AES256.
- A convenient import / compile facility for enterprise MIBs including automatic loading of MIB Import dependencies.

Monitor

- Simultaneous secure SNMPv3 communication with multiple agents via user defined AFDX® / ARINC664 Virtual Links.
- Support for SNMPv1/v2c and secure v3 management operations, like GET, Set or Walk on any range of MIB objects.
- Support for charting statistics in real time with alarm thresholds settable directly on charts.
- Rich alarm handling capabilities: support for different alarm detection algorithms for charts.

Test & Analyze

- An intuitive Browse Tree displaying all MIB constructs that have an OID assignment.
- Automated testing of SNMP Agent MIB implementations – finds MIBs implemented by the agent, then invokes build-in tests that verify completeness of Agent's MIB implementation.
- Save and re-execute commonly-used queries.
- Scripting capability automating SNMP queries to perform stress and compliance testing, regression testing and processing of notifications. Ready to use examples are provided.
- Generate customized reports of events and trends, view logs of recorded events for a given day or given device.

Archive

- Logging of alarms, received notifications and SNMP operation results to a user specified file.
- Generate customized reports of events and trends and store data for further analysis.

Complementary SNMP products for AFDX® / ARINC664 Networks

To support avionics industry OEMs requiring SNMP Agents or test departments that need to quickly generate an SNMP Test Agent capable of configuration and communications over the for AFDX® / ARINC664 networks NuDesign adapted its SNMP Agent Code Generator to operate over these networks.

The developer simply “feeds” the custom MIB into the code generator wizard and gets a fully working SNMP Agent with MIB object methods “stubbed” and ready for instrumentation code or immediately compilable into a working SNMP test / simulation agent. This product operates with our partner AFDX® modules, please contact us or our partner to arrange for SNMP Studio evaluation package.

About NuDesign Technologies

NuDesign Technologies, Inc., based in Toronto, ON, Canada, specializes in providing NETCONF, SNMP, CLI and RESTCONF agent & manager development applications, tools, libraries and consulting services to developers and networking OEMs worldwide. The benefits of deploying NuDesign's management software technologies are reliable, low risk, well integrated and quick-to-market solutions, supporting remote management operations over IPv4 / IPv6 networks in carrier, campus, enterprise and IoT settings.

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