MIBWorks

Fact Sheet

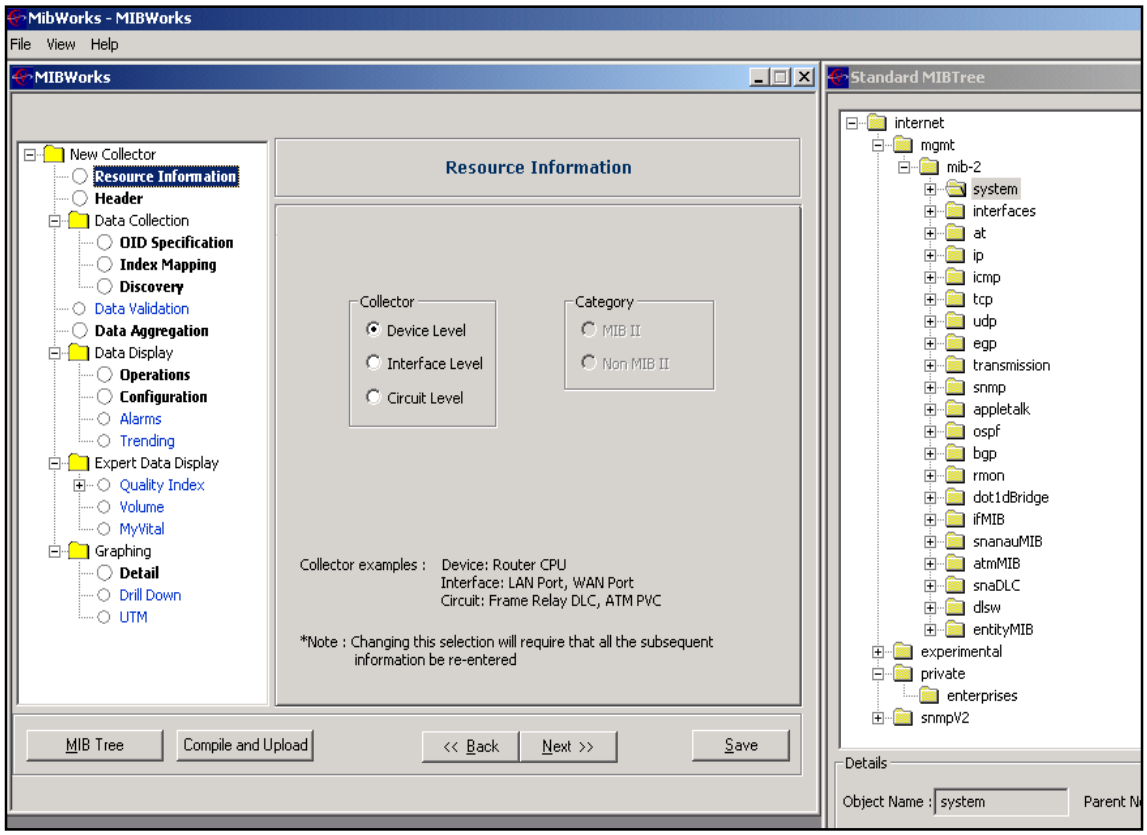
Introduction

MIBWorks is a standard component of the Lucent Navis iAssure VitalNet™ network performance management software solution. MIBWorks provides an easy-to-use GUI utility that allows a VitalNet user to build and add new data collectors for use by VitalNet in the analysis and reporting of network performance.

VitalNet collects performance data from standard SNMP MIB-I and MIB-II compliant devices, RMON probes, SNMP agents, and associated resources. MIBWorks provides a means to define new data collection and presentation parameters for proprietary or standard MIBs with metrics that are critical to performance management and monitoring of service level agreements. This flexibility allows service operators to quickly deploy new innovative network technology, and immediately implement compatibility within VitalNet's performance management array of network data discovery, collection, aggregation, alarming, and reporting capabilities.

Overview

MIBWorks' GUI provides an intuitive graphical interface that simplifies the creation, automation and modification of data collectors. Users can define how to manipulate, validate, store, alarm, and display network data in any special manner required by their business environment. Once the new data collection and representation is defined by the user with MIBWorks, a single mouse click uploads it into VitalNet's powerful distributed platform for immediate discovery of new resources, and usage with VitalNet's powerful administration and reporting capabilities.



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Value Position

- MIBWorks enables service providers to combine data from several different resources, and determine conformance to PVC SLAs for ATM or Frame Relay Service according to the terms of their customer agreements.
- Using MIBWorks, an enterprise network engineer can collect data to monitor the performance of an innovative router whose manufacturer has not yet fully implemented a fully compliant SNMP agent.
- With MIBWorks, a network engineer can test and evaluate new software releases from an equipment manufacturer, prior to production deployment on the network.

MIBWorks simplifies the process of building custom MIB support for end users who have basic knowledge of SQL, SNMP, and MIB structures.

The system includes the following components:

- MIB Tree
- Collector
- Grapher
- MIB Compiler Utility
- MIB Walker Utility
- Upload Utility

MIBTree

The MIBTree window provides a standardized tree format display, used for SNMP data collection development. The MIBTree displays the appropriate and available data elements for each object, which can be dragged and dropped into the collector window during the definition of a collector's functionality.

Collector

The Collector provides a GUI for the automatic creation, modification, and compilation of a data set schema (DSS) file. The DSS file contains the parameters that define the attributes of a resource type/network device. The compilation process generates an SQL script that updates the VitalNet database.

Grapher

The Grapher is an extension of the Collector and provides an intuitive interface to automate the creation or modification of a graph configuration file. This file contains the parameters that define the Detail, Drill Down, and Up to the Minute (UTM) graphs from the statistics generated by the selected collector.

MIB Compiler

The MIB Compiler Utility allows you to compile and view standard and proprietary MIB modules. The compiler takes an ASN.1 file as input, updates the MIB Compiler database and displays the MIB structure in a tree format. The user can compile and save new MIB modules, select existing MIB modules, view MIB objects (OIDs) and identify OIDs to be discovered and polled by the collector.

MIB Walker

The MIB Walker Utility allows you to retrieve and view individual OID values for compiled MIB modules. The MIB Walker sends a SNMP Get/Get-Next command to an SNMP agent within a network device while allowing you to control the retry count and time-out parameters.

Upload Utility

The Upload Utility generates the appropriate database entries necessary to upload and install the new or modified Collector and Grapher definitions of a device into the distributed database of the VitalNet system. Once uploaded and installed the newly defined device can be discovered, data collection can be scheduled, and data is reported using standard VitalNet administrative tools.

Lucent Technologies Network Operations Software Solutions

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