

1 - <http://snmp.adventnet.com/>

AdventNet SNMP API 4

AdventNet SNMP API Overview

AdventNet SNMP API offers a comprehensive development toolkit for SNMP-based network management applications. AdventNet's SNMP stack comprises a set of powerful Java SNMP library to build real-time applications for monitoring and tracking network elements that are reliable, scalable, and OS independent.

Developers can leverage AdventNet's SNMP library to build standalone, web-based, and distributed (EJB, CORBA, or RMI) SNMP-based network management applications. The Java SNMP library provides off-the-shelf components for trap and table handling along with basic SNMP operations, such as SNMP GET, SNMP GETNEXT, SNMP GETBULK, and SNMP SET. These components enable simple and rapid development and deployment of SNMPv1, SNMPv2c, and SNMPv3 management applications.

The SNMP management application (manager) built using the Java-based SNMP API can receive SNMP traps, which can be processed based on predefined criteria for effective SNMP management.

Key Features of AdventNet SNMP API

Multi-lingual support: Complete support for SNMPv1, SNMPv2c and SNMPv3.

SNMPv3 security: Support for HMAC-SHA-96, HMAC-MD5-96, CBC-DES and 128 bit AES encryption.

Robust SMIV1 and SMIV2 MIB Parser: Seamlessly parses the MIB definitions from any OEM vendor. Offers various flavors of parsing based on the MIB definitions.

MIB Loading: Option to load MIB definitions from a pre-compiled file, a Serialized file, or a Database to boost the performance.

IPv6 (Internet Protocol Version 6) support: Provides connectivity with IPv6 and IPv4 based devices.

SNMP Broadcasting: Broadcasts snmp packets across the network to auto-discover snmp devices in the network.

SNMP Beans: Provides high-level bean components such as, SnmpTarget, SnmpTable, SnmpPoller, TrapReceiver for easy application development.

Database support: Provides scalability by storing MIB definitions and SNMPv3 configuration data in any relational database such as, MySQL and Oracle.

MIB Browser: Tool for administering network and system components. Can be run as a stand-alone application or invoked from a web browser.

Command line utilities: Perform SNMP operations such as, SNMP GET, SNMP GETNEXT, SNMP SET, SNMP BULK, SNMP WALK, etc. on remote agents.

Free Download and Evaluation of AdventNet SNMP API

You can download AdventNet SNMP API 4 Professional Edition for free evaluation. During evaluation you get free technical support through e-mail. To know more about the product architecture, please read AdventNet SNMP API Documentation. If you wish to know more about AdventNet SNMP API, or if you have any product-related queries, please feel free to send us an e-mail to snmp-support@adventnet.com.

Ventajas

- JAVA API

- Simulador de entornos
- Soporte
- Bastante información: foros, soporte, datasheets

Desventajas

- Es de pago, con una versión de prueba de 30 días

Links

- <http://snmp.adventnet.com/help/snmpapi/snmpv3/index.html> (Tambien para snmpV1 y V2)
- <http://snmp.adventnet.com/help/gettingstarted/index.html>

2 - <http://www.snmp4j.org/>

SNMP4J is an enterprise class free open source and state-of-the-art SNMP implementation for Java™ 2SE 1.4 or later. SNMP4J supports command generation (managers) as well as command responding (agents). Its clean object oriented design is inspired by SNMP++.

The SNMP4J Java SNMP API provides the following features:

- SNMPv3 with MD5 and SHA authentication and DES and AES 128, AES 192, and AES 256 privacy.
- Pluggable Message Processing Models with implementations for MPv1, MPv2c, and MPv3 All PDU types.
- Pluggable transport mappings. UDP and TCP are supported out-of-the-box.
- Pluggable timeout model.
- Synchronous and asynchronous requests.
- Command generator as well as command responder support.
- Free open source with the Apache license model
- Java™ 1.4.1 or later
- Logging based on Log4J
- Row-based efficient asynchronous table retrieval with GETBULK.
- Multi-threading support.
- JUnit tests (will be available in version 2.x and later)

The SNMP4J-Agent pure Java SNMP agent API adds command responder including notification originator and proxy forwarder support to the SNMP4J core API and comes with:

- Implementations for SNMP-TARGET-MIB, SNMP-NOTIFICATION-MIB, SNMP-PROXY-MIB, SNMP-FRAMEWORK-MIB, SNMPv2-MIB, SNMP-COMMUNITY-MIB, SNMP-USER-BASED-SM-MIB, SNMP-VIEW-BASED-ACM-MIB, and SNMP-MPD-MIB.
- SNMPv1,v2c,v3 multi-lingual agent support, including MD5 and SHA authentication as well as DES, 3DES and AES(128, 192, 256) privacy.
- IPv4/IPv6 UDP and TCP support.
- Code generation from MIB specifications is provided through AgenPro 2 which is a language and API independent template based code generator with round-trip generation facilities.

The SNMP4J-AgentX pure Java AgentX API adds support for the AgentX 1.0 master and subagent protocol as defined by RFC 2741 and 2742. SNMP4J-AgentX extends SNMP4J-Agent by:

- Full AgentX 1.0 protocol support, including contexts, shared tables, index allocation, ping PDUs, connection timeout handling, etc.
- Implementation of the AGENTX-MIB for the master agent.
- TCP transport mapping for the AgentX protocol.
- Code generation from MIB specifications is provided through AgenPro 2 which is a language and API independent template based code generator with round-trip generation facilities (see also SNMP4J-Agent).

The SNMP4J-AgentJMX pure Java 1.5 API adds support easy descriptive mapping from JMX MBean instrumentation to SNMP scalars, tables, and notifications.

Ventajas

- JAVA API
- Free Open Source
- Soporte gratis mediante lista de correo
- Proporciona los agentes
- Hay algunos ejemplos de implementación

Desventajas

Links

- <http://www.agentpp.com/agen/agen.html>
- http://www.opennms.org/index.php/SNMPv3_protocol_configuration
- SNMP4J ejemplo
 - <http://hosteddocs.ittoolbox.com/KA110807.pdf>
 - <http://www.snmp4j.org/doc/org/snmp4j/Snmp.html>
 - <http://www.java2s.com/Open-Source/Java-Document/Net/snmp4j/Catalogsnmp4j.htm>
 - <http://kickjava.com/src/org.snmp4j.index.htm>
 - <http://forums.sun.com/thread.jspa?threadID=5297764>
 - <http://hosteddocs.ittoolbox.com/KA110807.pdf>

NOTA: Esta API puede ser una de las mejores opciones.

3- <http://www.adremsoft.es/snmpman/index.php>

Esta potente consola de gestión de SNMP le dará una clara y organizada vista gráfica en dispositivos con SNMP habilitado junto con una forma directa de controlarlos

Ayuda para los estándares más últimos y el recopilador del MIB

AdRem SNMP Manager proporciona soporte para SNMP v1, v2, y v3 para permitirle realizar una gran variedad de tareas relacionadas con SNMP. Estas incluyen auto descubrimiento de dispositivos SNMP; recepción y reenvío de SNMP trap; así como viendo, compilando, editando, cargando y caminando MIB.

Utilice SNMP formularios de vista

Con AdRem SNMP Manager, no sólo puede ver, pero también configurar datos SNMP y personalizar su formato de presentación, por ejemplo creando sus propias capturas de parámetros específicos de dispositivos SNMP. Importante, para poder buscar información específica de SNMP ya no necesita navegar en los árboles de SNMP o saber específicos OID de dispositivos.

Ventajas

Desventajas

- Es de pago
- Solo información proporcionada por la empresa
- No hay información acerca de la tecnología

Links

- <http://www.adremsoft.es/snmpman/documentation.php>

4 - Información acerca del protocolo SNMP, qué es, para qué sirve, ventajas y desventajas, empresas que lo utilizan, proyectos, etc.

Links

- http://blogs.sun.com/jmxetc/entry/simple_is_not_easy
- <http://www.arrakis.es/~tobal/snmp.htm>
- <http://docs.sun.com/app/docs/doc/816-7609>
- <http://java.sun.com/docs/books/tutorial/jmx/mbeans/standard.html>
- <http://java.sun.com/j2se/1.5.0/docs/guide/management/SNMP.html>
- http://jcp.org/aboutJava/communityprocess/first/jsr003/jmx_snmp_api.pdf
- <http://www.mibble.org/doc/faq/applications/index.html#Q2>
- <http://research.ittoolbox.com/white-papers/dev/java/java-snmp-examples-4780>
- <http://www.faqs.org/faqs/snmp-faq/part1/>
- <http://en.wikipedia.org/wiki/SNMP>
- <http://www.ibr.cs.tu-bs.de/projects/snmpv3/>
- <http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2005-02/1366.html>
- <http://snmp.qarchive.org/>

5 - <https://opendmk.dev.java.net/> ([JAVA DYNAMIC MANAGEMENT KIT](https://opendmk.dev.java.net/))

The Project OpenDMK source code is based on the Java DMK 5.1 patch level 3 code base. It supports the following features:

Virtual MBeans: Project OpenDMK includes an MBeanServerBuilder which adds MBeanServerInterceptors on top of a JMX API MBeanServer. MBeanServerInterceptors can be used to support Virtual MBeans.

Federated MBean Servers: Project OpenDMK includes a Cascading API, with a naming scheme based on ObjectName prefixes (com.sun.jdmk.remote.cascading).

Agent Discovery: Project OpenDMK includes a Discovery API (based on IP multicast), which allows OpenDMK agents to discover each other dynamically.

Interoperability: Project OpenDMK includes all Java DMK 5.1 Legacy Connectors, providing interoperability with legacy Java DMK agents. In addition, these connectors can be wrapped in JMX Remote API compliant connectors, allowing a smooth migration towards standard implementations. The legacy connectors include:

- A legacy RMI JRMP/IIOP connector
- A legacy HTTP/HTTPS connector

HTML Console: Project OpenDMK includes a legacy HTML Adaptor, which can provide limited access to JMX MBeans from a regular web browser.

JMXMP connector: Project OpenDMK includes an implementation of JSR 160 (JMX Remote API 1.0) optional packages (jmxremote_optional.jar) for the JMXMP protocol, which can run on top of the mandatory implementations of the JMX API 1.2 and JMX Remote API 1.0.

SNMP interoperability: Project OpenDMK includes an SNMP Toolkit, comprising an SNMP Manager API, an SNMP Adaptor, and a MIB compiler. The SNMP toolkit can be used to develop SNMP agents and SNMP management applications. It supports SNMP v1, SNMP v2c and SNMP v3.

Ventajas

- JAVA
- Incluye diferentes protocolos para gestión
- Open source
- Soporte de Java Sun
- Es un proyecto bastante amplio

Desventajas

- Quizas es un proyecto demasiado grande para lo que necesito
- Demasiado complejo

Links

- http://java.sun.com/products/jdmk/jdmk_docs.html
- <http://java.sun.com/products/jdmk/index.jsp>
- <http://es.wikipedia.org/wiki/JMX>

NOTA: Este proyecto puede ser una de las mejores opciones junto con el punto 2.

6 - <http://www.mg-soft.com/>

MG-SOFT offers a number of SNMP Software Development Toolkits. If you are not sure what MG-SOFT's SNMP Software Development Toolkits is the most suitable for your particular needs, use the following table to start pinpointing the one. By following links from this page you will be taken to the required product's home page.

Ventajas

- Proporciona bastantes herramientas y toolkits de desarrollo

Desventajas

- Es de pago
- API en C++

- Información solo proporcionada por la propia empresa

Links

- <http://www.mg-soft.com/discoverySDK.html>
- <http://www.mg-soft.com/agentDesignKit.html>
- <http://www.mg-soft.com/agent.html>
- <http://www.mg-soft.com/SNMP-Lab.html>

7 - <http://es.nimsoft.com/environments/snmp-monitoring.shtml>

La Monitorización SNMP de NimBUS incluye un grupo de probes especializados, que proporcionan información del estado de la red y nivel de utilización de los recursos de todos los dispositivos que disponen de SNMP. Cada probe individual es como si fuera una aplicación independiente, cada uno puede tener su propio interface gráfico para facilitar las actividades de administración y operación; no obstante el conjunto representa una solución de monitorización SNMP funcionalmente completa.

Principales Características:

- Realiza "polling" sobre cualquier dispositivo SNMP-compatible para analizar las variables de la MIB.
- "Escucha" y visualiza los "traps" SNMP
- Convierte las alertas NimBUS a SNMP para la integración con NMS
- Compatible V1, V2c y V3.

Otras Características:

- Soporta MIB's estándar y propietarios
- Puede recibir traps por el puerto 162 o cualquier otro puerto de usuario configurable.
- Los mensajes SNMP pueden ser personalizados en alertas Nimbus fáciles de entender por los usuarios
- Soporte "out-of-the-box" para Compaq Insight Manager y Dell Open Manage
- Monitorización de variables SNMP
- Alertas en tiempo real de análisis de "traps" e informe de tendencias
- Definición de la monitorización basada en perfiles
- Los objetos MIB individuales pueden ser configurados con definiciones específicas de "polling" y alertas
- Conviertes alarmas NimBUS a mensajes SNMP Soporte "out-of-the-box" para HPOV, CA TNG y BMC PEM

Ventajas

Desventajas

- Es de pago
- Forma parte de otro proyecto
- Información solo proporcionada por la propia empresa
- Es necesario rellenar un formulario para poder recibir documentacion, whitepapers, etc.

Links

8 - <http://net-snmp.sourceforge.net/>

Simple Network Management Protocol (SNMP) is a widely used protocol for monitoring the health and welfare of network equipment (eg. routers), computer equipment and even devices like UPSs. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6. The suite includes:

- Command-line applications to:
 - retrieve information from an SNMP-capable device, either using single requests (snmpget, snmpgetnext), or multiple requests (snmpwalk, snmptable, snmpdelta).
 - manipulate configuration information on an SNMP-capable device (snmpset).
 - retrieve a fixed collection of information from an SNMP-capable device (snmpdf, snmpnetstat, snmpstatus).
 - convert between numerical and textual forms of MIB OIDs, and display MIB content and structure (snmptranslate).
- A graphical MIB browser (tkmib), using Tk/perl.
- A daemon application for receiving SNMP notifications (snmptrapd). Selected notifications can be logged (to syslog, the NT Event Log, or a plain text file), forwarded to another SNMP management system, or passed to an external application.
- An extensible agent for responding to SNMP queries for management information (snmpd). This includes built-in support for a wide range of MIB information modules, and can be extended using dynamically loaded modules, external scripts and commands, and both the SNMP multiplexing (SMUX) and Agent Extensibility (AgentX) protocols.
- A library for developing new SNMP applications, with both C and perl APIs.

Net-SNMP is available for many Unix and Unix-like operating systems and also for Microsoft Windows.

Ventajas

- Open source
- Bastante información
- Unix / Windows

Desventajas

- Proyecto desarrollado sobre C y Pearl

Links

- <http://net-snmp.sourceforge.net/docs/man/>
- <http://net-snmp.sourceforge.net/docs/readmefiles.html>
- <http://net-snmp.sourceforge.net/docs/INSTALL.html>
- <http://net-snmp.sourceforge.net/wiki/index.php/Tutorials>
- <http://sourceforge.net/projects/net-snmp>

9 - <http://www.snmpLink.org/>

SNMPLink.org provides links and information about SNMP (Simple Network Management Protocol), MIB (Management Information Base), Network Management and Network Monitoring.

This portal is designed for network IT professionals from novice to expert:

SNMP Software (for End User, for Developer)

SNMP Appliance (Hardware, Virtual)

SNMP Resource (SNMPv3, MIB, ASN.1, Books, Forum, Specialists, Others)

SNMP overview

- Simple Network Management Protocol (SNMP) is the network protocol developed to manage devices on an IP network.
- SNMP is defined in RFC (Request For Comments) by IETF (Internet Engineering Task Force).
- SNMP is everywhere: server, workstation, router, firewall, switch, hub, printer, ip phone, appliance...

SNMP is used by network administrators:

- to manage network performance
- to find and solve network problems
- to plan network growth...

Ventajas

- Hay información acerca de SNMP, tanto para desarrollo, consulta, proyectos, etc.

Desventajas

Links

- <http://www.snmplink.org/snmpsoftware/fordeveloper/#9>

10 - <http://www.ireasoning.com/>

SNMP (Simple Network Management Protocol) is the industry standard for managing networks. It is widely supported in IP, storage, and optical networks. iReasoning Java SNMP API is the industry leading SNMP library, which provides a high performance, cross platform SNMP Java API for building network management applications. All SNMP versions (SNMPv1, SNMPv2c and SNMPv3) are fully supported. It is written in Java, and designed from the ground up to support all SNMP versions. There is no legacy code which only for a certain version of SNMP protocol. A robust SMIV1/SMIV2 MIB parser is included for translation between binary OIDs and human friendly names. All code bases are highly optimized to maximize performance and minimize overhead. Check out user guide, FAQ, and javadoc for more information.

Major features:

- The first Java SNMP product to support both DES and strong 128-bit AES encryption algorithms
- Complete SNMPv1, v2c and v3 (USM and VACM) support
- Complete SNMPv3 USM support, including HMAC-MD5, HMAC-SHA, CBC-DES, CFB128-AES-128 algorithms
- Thread-safe and optimized for multi-thread environments
- Conforms to the EJB specification
- Robust and powerful SMIV1/SMIV2 MIB parser

- Complete sample code of SNMP operations: Get, Set, GetNext, GetBulk, GetTable, GetSubtree, Walk, Trap, TrapReceiver, etc.
- Conformance to SNMP RFCs
- IPv6 support
- Support for both UDP and TCP transport layers

Ventajas

- Java API
- Proporciona el SNMP Agent Builder, SNMP Agent Simulator, SNMP MIB Browser

Desventajas

- Es de pago, versión de prueba de 30 días

Links

- <http://www.ireasoning.com/docs/SnmpAgentUserGuide.pdf>
- <http://www.ireasoning.com/javadocs/index.html>

NOTA: Este proyecto puede ser una de las mejores opciones junto con el punto 2 y 5.

11 - <http://www.jsnmp.com/>

jSNMP Enterprise™ provides application developers a cross-platform means of communicating with SNMP devices and services. It is written entirely in Java and is completely portable. jSNMP™ provides complete SNMP v1/v2c/v3 support including trap/inform handling and authentication and privacy password alteration (see RFC 3414).

A traditional Java SNMP SDK, Java SNMP API, or SNMP Java library requires the user to manually construct SNMP request packets. The jSNMP™ interface, however, allows the user to communicate with network devices by specifying the Object Identifier (OID) of interest rather than worrying about the intricacies of SNMP, such as the Basic Encoding Rules (BER) or Protocol Data Unit (PDU) format.

jSNMP™ has been optimized for minimizing network traffic and maximizing efficiency, allowing for a high degree of scalability. In addition, the package has been optimized for use with multiple simultaneous connections, allowing for a 3-tier model.

To support a 3-tier model, jSNMP™ includes the tools necessary to create distributed network management applications using RMI and CORBA. The core jSNMP™ engine can be run as an RMI server. Client applications can be written to use either the RMI interface or a remote version of the easy-to-use jSNMP™ interface. Either way, lightweight clients, running in or out of browsers, can be created using a single back-end jSNMP™ service.

Running jSNMP™ as an RMI server provides a number of distinct benefits. All communication with managed devices flows through the service. This reduces the load placed on the devices, and allows the service to perform several optimizations. For instance, requests bound for the same managed device can be packaged together in one PDU, even if the requests came from different clients. Also, values are cached for a user-defined period of time. If a request is received within the defined time window, a cached value is returned. This removes the need for additional network

traffic. Better security, easier administration, and improved trap handling are also possible in a 3-tier model.

The use of a robust RMI server, distributed capabilities, and high-level SNMP Java interfaces, combine to create a powerful combination that will save SNMP developers both time and money.

Since SNMP OIDs are difficult to remember, developers may prefer to make a SNMP request with the name associated with an OID instead of the OID's dotted decimal notation (e.g., ifAdminStatus.1 instead of 1.3.6.1.2.1.2.2.1.7.1). jSNMP Enterprise™ includes the powerful Java MIB compiler jMIBC™, which takes a series of MIB files and produces a dictionary that is used by the jSNMP Enterprise™ SnmpMIBService and SnmpMIBDictionary classes to translate OIDs to/from common names, to retrieve an OID's status, access, type, abstract type, and description, and to translate OID enumerated values.

Ventajas

- JAVA
- Hay bastante información, ejemplos, guía de usuario, etc.

Desventajas

- Es de pago, versión de prueba de 30 días
- La información esta proporcionada por la empresa

Links

- <http://www.jsnmp.com/docs/jSNMP/jSNMPEnterpriseUserGuide.pdf>
- <http://www.jsnmp.com/docs/jSNMP/doc/overview-summary.html>
- <http://www.jsnmp.com/docs/jSNMP/jMIBCUserGuide.pdf>
- <http://www.jsnmp.com/examples.html>

NOTA: Este proyecto puede ser una de las mejores opciones junto con el punto 2, 5 y 10.

12 - <http://www.dmhsoftware.com/java-snmp.html>

DMH Advanced SNMP-Agent (ANSI C implementation) is highly portable and designed to be integrated in any given system and platforms. It is used in popular systems such as Windows platforms, Unix platforms, Linux, DOS, Micro-controllers and many proprietary embedded systems.

The Agent is designed to be used in embedded systems in real-time environment such as switches, routers, bridges, printers. UPS, Modems, Cable Modem (snmpv3/DOCSIS), DSL Modems, etc. DMH SNMP Agent is used in small 16/8bit CPU systems, such as 8051, to high capacity switching systems using 64bit CPUs, with Linux and other RTOS. See more details here.

The DMH Advanced Java SNMP-Agent is a cross-platform Agent designed to be used in any system that supports Java. It is small, efficient and can be used in small real-time embedded Java platforms.

Ventajas

- JAVA

Desventajas

- La información esta proporcionada por la empresa
- Proporcionan solo una version para Windows

Links

- <http://dmhsoftware.com/snmp-agent-description.html>
- <http://dmhsoftware.com/java-snmp.html>

13 - <http://gicl.cs.drexel.edu/people/sevy/snmp/>

This is an open-source implementation of the SNMP protocol as a Java package. It provides support for basic SNMP client and agent operations as defined in SNMP versions 1 and 2 (excluding the security model proposed as part of SNMP version 2, which was never widely accept or deployed). The package provides a mechanism for "getting and setting" SNMP object identifier (OID) values through a simple communication interface, and represents SNMP structures and datatypes as corresponding Java objects. The package has been used to provide SNMP communication capabilities for the Airport/RG-1000 Configurator and SNMP Inquisitor applications.

Ventajas

- JAVA
- Se proporciona el codigo

Desventajas

- Parece que no esta muy actualizado
- Poca informacion

Links

- <http://gicl.cs.drexel.edu/people/sevy/snmp/docs/index.html>
- http://gicl.cs.drexel.edu/people/sevy/snmp/snmp_inquisitor.html

14 - <http://snmp.westhawk.co.uk/>

Our lightweight SNMP stack in Java, with Java application and servlet examples. The stack provides manager functionality for SNMPv1, SNMPv2c and SNMPv3 (both authentication and privacy). It is capable of sending and receiving PDUs, but has limited agent functionality. The stack supports Ipv6

Ventajas

- JAVA
- Se proporciona el codigo, es freeware GPL

Desventajas

- Poca informacion
- El desarrollo de algunas cosas se puede llegar a quedar corto.

Links

- <http://snmp.westhawk.co.uk/faq.html>
- <http://snmp.westhawk.co.uk/StackUsage.html>

15 - <http://sourceforge.net/projects/joesnmp/>

joeSNMP is an open-source Java SNMP class library published under the LGPL.

Ventajas

- JAVA
- Se proporciona el código, es freeware GPL

Desventajas

- Poca información

Links

- <http://www.cisl.ucar.edu/nets/intro/staff/siemen/nandisc/joesnmp.html>
- <http://joesnmpeclipse.webvertices.com/>
- <http://rpm.pbone.net/index.php3/stat/4/idpl/8181163/com/joesnmp-javadoc-0.3.4-4.1.noarch.rpm.html>
- <http://www.koders.com/java/fid5BC448A2EB161AD905B22848DD18B93A936959E6.aspx>

NOTA: Este proyecto puede ser una de las mejores opciones junto con el punto 2, 5, 10 y 11.

16 – www.pandorafmx.org

Pandora FMS es un software de Código Abierto que sirve para monitorizar y medir todo tipo de elementos. Monitoriza sistemas, aplicaciones o dispositivos. Permite saber el estado de cada elemento de un sistema a lo largo del tiempo.

Pandora FMS puede detectar si una interfaz de red se ha caído, un ataque de "defacement" en una web, una pérdida de memoria en algún servidor de aplicaciones, o el movimiento de un valor del NASDAQ. Pandora FMS puede enviar SMS si un sistema falla o cuando las acciones de Google bajan de 500 dólares.

Pandora FMS puede recoger información de cualquier sistema operativo, con agentes, específicos para cada plataforma, que recolectan datos y los envían al servidor. Hay agentes específicos para GNU/Linux, AIX, SUN Solaris, HP-UX, BSD/IPS0 y Windows 2000, XP y 2003.

Pandora FMS también puede monitorizar cualquier tipo de servicio TCP/IP, sin necesidad de instalar agentes, y monitorizar sistemas de red como balanceadores de carga, routers, switches, sistemas operativos, aplicaciones o impresoras si se necesita hacerlo de forma remota. Pandora FMS también soporta SNMP para recolectar datos o recibir traps.

Algunos ejemplos de recursos comunes que pueden ser monitorizados con Pandora FMS son, la carga del procesador, el uso de disco y memoria, procesos que están corriendo en el sistema, eventos determinados en un log, factores ambientales como la temperatura, la luz o la humedad, valores de aplicaciones como determinados textos en una página web, y en general cualquier cosa que se pueda recolectar de forma automatizada.

Ventajas

- Mucha información proporcionada.
- Se puede participar en el proyecto
- Se proporciona el código, es freeware GPL

Desventajas

- Varios lenguajes, PHP, Pearl, C++
- Al ser un proyecto tan grande, puede ser complejo realizar modificaciones.

Links

- <http://pandorafms.org/index.php?sec=project&sec2=demo&lang=es>
- <http://pandorafms.org/index.php?sec=project&sec2=downloads&lang=es>
- <http://pandorafms.org/index.php?sec=project&sec2=documentation&lang=es>