



Auditor Professional v4.5 Service Pack 6

System Requirements

January 11, 2010

Document Overview

This document presents a complete list of the requirements for installing Ecora Auditor Professional 4.5 SP6 as well as the requirements for data collection on different platforms. The list is structured by Ecora modules and follows the Menu structure for customer facilitation. For more information about installing and using Ecora Professional 4.5 SP6 please refer to ***Getting Started with Ecora Auditor Professional***, and for more information about installing and using Ecora Compliance Center, please refer to ***Getting Started with Ecora Compliance Center***.

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Changes in Ecora Auditor Professional 4.5 SP6 at a glance

Auditor Professional 4.5 SP6 Upgrade Requirements

- Auditor Professional 4.5 SP6 could be applied as an upgrade to Auditor Professional version 4.1 SP1 or later.

New in Auditor Professional 4.5 SP6

Auditor 4.5 SP6 contains the following new features:

- Added new reports to show SQL account not logged in more than 90 days, Windows accounts logged in more than one day, Nested groups.
- Added recalculation button for policy.
- Added info on MSXML, Microsoft VM, Windows Media Player and IE7 patches/hotfixes in a report
- New Vista content was added.
- New version of plink tools used. This should fix the issue with Cisco module collection.
- VMware Kernel Parameters got better unique ID.
- Scheduled baseline job - how to use the latest data set for comparison.
- Update Unique Identifier for Drivers.
- Auditor 4.5 SP6 contains the following enhancements:
- Compliance Center configuration enhancements including a new utility to ease configuration
- Windows collector now supports Windows Server 2008

In Auditor 4.5 SP6 the performance of archiving and importing datasets is increased at least twice.

Platform Coverage at a Glance

The table below summarizes the changes between Ecora Professional v. 4.5 SP6 and 4.5.

Module	Coverage Up to 4.5 SP2	Additional Coverage 4.5 SP6
Cisco	Cisco IOS 12.x	Cisco IOS 12.4
Cisco PIX	Cisco PIX OS version 5.x, 6.x, ASA 7.x	
Citrix	Citrix MetaFrame XP SP3, Citrix Presentation Server 3.0, 4.0, 4.5	
Check Point	Check Point VPN-1/Firewall-1 NGX R60, R65	
Domino	IBM Lotus Domino Server 4.5 SP6.x, R5x, 6.x or 7.x	
IBM DB2	IBM DB2 UDB v8.1 and higher	
MS AD	Active Directory 2000, 2003	
MS Exchange	5,5 (Gold, All SPs), 2000 (Gold, All SPs), 2003 (Gold, All SPs), 2007 (Gold, SP1)	
MS IIS	IIS 4, 5, 5.1, 6, 7	
MS SQL	MS-SQL Server 2000, 2005	SQL Server 2008
MS Windows	Windows XP (SP1, SP2, SP3) Windows 2000 (SP4) Windows 2003 (Gold, SP1, SP2) Windows Vista (Gold, SP1, 64bit SP1) Windows 2008 (Standard, Standard 64 bit, Enterprise, Enterprise 64 bit, DataCenter, DataCenter 64 bit)	Windows 2008 Enhancements
Novell	Novell NetWare Server 5.1, 6.0, 6.5, Open Enterprise Server (V1, V2)	
Oracle	Oracle instances (9i, 10g, 11g) running on any operating system (i.e. Sun Solaris, IBM AIX, and HPUX)	
SANS / NAS	Supports any SMI-S compliant device (Netapp and EMC tested), All —Block-Bookll defined SMI-S Parameters	
Unix / Linux	Solaris 8, 9, 10 HPUX 11, 11i AIX 4.3, 5.1, 5.3 Red Hat Enterprise Linux 2.1, 3.0, 4.0, 5.0 (AS/EW/WS) Red Hat Linux 9 Novel SuSE Enterprise Linux 9.x, 10.x openSUSE 10.2 CENT OS 5.1 Fedora 5, 6, 7, 8 Linux Oracle EL 5	
VMWare	VMware Servers ESX 2.5, ESX 3.0.x, ESX 3.5	

Generic Requirements for All Modules

Auditor Console — Installation System

- Microsoft Windows 2000, Windows XP, Windows 2003, Windows Vista
- Pentium IV 2 GHz or higher
 - Recommendations:**
 - ✓ 50 systems or fewer, 2 GHz or faster processor
 - ✓ 50-100 systems, 2.8 GHz or faster processor
 - ✓ 100 systems or more, 3.0 GHz or faster processor, or dual/quad core processors if Auditor Console and MS SQL server are hosted on same machine
- 2GB RAM or greater
 - Recommendations:**
 - ✓ 50 systems or fewer, 2GB RAM
 - ✓ 50-100 systems, 3GB RAM
 - ✓ 100 systems or more, 4GB RAM or more
 - ✓ If hosting SQL database, 4GB RAM or more
 - Note: In addition to CPU speed and available RAM, network traffic and resource utilization (such as how many other application are running on the installed system) also affect performance.**
- Screen resolution of 1024 x 768 or higher
- Microsoft .NET 2.0
- Swap file of 2GB or more (or twice the RAM, whichever is higher)
- ~200MB free disk space available to install software (100MB to run)
- Sufficient disk space for collected configuration data and generated reports (on installation or storage system)
 - Disk usage per system:**
 - ✓ ~ 8Mb per system per collection
 - ✓ ~1.2Mb per system reported by full configuration report
 - Note: Disk usage values are conditional on enabled/disabled collection options and system type.**
- Microsoft Internet Explorer 6.0 or higher
- MDAC 2.7 or higher
- Microsoft Installer (MSI)
- Remote Registry Service should be up, running and accessible on the target systems
- On a Windows Vista machine, either User Account Control has to be turned off for a current user account (even if the user account

has Administrative rights), or else the Run this program as an administrator check box on the Compatibility tab of the Shortcut Properties dialog box must be checked.

- To view .CSV files, MS Excel or another spreadsheet program capable of displaying comma-delimited files must be installed.
- To view .PDF files, Adobe Reader or another program that reads PDFs.
- To use SNMP alerts, an SNMP manager (v2c traps) must be available on the network.
- To use email (SMTP) alerts, a mail server must be available on the network and an IP based relay with the system generating the alerts must be enabled in your SMTP software.
- To use NetSend alerts, Windows Messenger Service must be running.
- To use syslog alerts, there must be a machine configured with a syslog daemon running

Database Considerations

SQL Server

- Microsoft SQL Server (2000 SP4, 2005) or MSDE for the data repository.
 - Microsoft's requirements for SQL are available at:
 - ✓ <http://www.microsoft.com/sql/prodinfo/sysreqs/default.msp>
 - ✓ ~60MB free disk space available, if you are installing MSDE
 - ✓ **Note: MSDE is a free Microsoft database with a 2.0GB data limit, making it a viable option for testing the database functionality in small environments. MSDE can be upgraded to SQL Server at any time without any data loss.**
 - ✓ Sufficient disk space for collected data:
 - ✓ Disk usage per system: ~3MB of database space per system per collection
- Note: Microsoft requires twice the database size available for the transaction log during delete actions.**

Oracle

- Oracle Database (9i, 10g, 11g Standard, Enterprise or Express edition) for the data repository
 - ✓ Oracle Database 10 G Express Edition is a free to deploy small-footprint (~120MB) entry-level database with a 4Gb data space limitation, available at:
<http://www.oracle.com/technology/software/products/database/xe/htdocs/102xewinsoft.html>
- Sufficient free disk space for collected data:
 - ✓ ~80MB of server disk space per Auditor module for the pre-created database objects
 - ✓ ~3MB of server disk space per system per collection
- Oracle client software supplied with the server distribution must be installed on the Auditor console with Oracle Network Utilities and Oracle Call Interface options turned on. The latest versions of Oracle ODBC drivers are also available at:
 - ✓ <http://www.oracle.com/technology/software/tech/windows/odbc/index.html>

Optional — Distribution

- For web-based distribution of reports, a Microsoft IIS web server with file access to the web server content regions is needed.

Active Directory Module

Auditor Console — Installation System

- NetBIOS protocol support (unless the installation machine is a member of an Active Directory forest)
- For initial domain controller discovery:
 - ✓ If NetBios is enabled - The computer with Auditor software installed may be a member of any domain (as long as the user has permissions to the Active Directory domain controller).
 - ✓ If NetBIOS is disabled on the domain controller or the computer with Auditor software installed:
 - The computer with Auditor software installed must be a member of the Active Directory Domain
 - The DNS settings on the computer with Auditor software installed must point to a DNS server within the Active Directory domain; otherwise a Domain Disabled message will result.
 - Domain Disabled - This message indicates that the Auditor software cannot find a domain controller in the Active Directory domain. Please verify that all system requirements above are met.

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- NetBIOS (over TCP/IP) protocol support or AD
- Domain, Local, or Enterprise Administrator permissions for all the domains containing systems you want to collect

Note: To report on machines in WorkGroups, you must have an administrator account on all machines to be reported that matches the login/password of the domain administrator account of the domain in which the machine with the software is installed.

Supported/Reported

- Active Directory 2000, 2003

Check Point Module

Target Systems

- Read permissions for collection
- Remote registration of OPSEC applications should be allowed on the SmartCenter server
- Administrator permissions for registering OPSEC application
- Requirements on the Smart Center Server
 - ✓ Add host name (Host Name or IP address of the computer where Auditor is installed) to GUI clients tab in the Check Point Configuration Utility
 - ✓ Allow remote registration of OPSEC products must be checked on the Policy\Global Settings\OPSEC node in Check Point SmartDashboard. (If Smart Dashboard is not used, then remote registration of OPSEC products should be manually registered in the config file).
 - ✓ Save changes and close SmartDashboard and Configuration utilities.
- Instructions for adding Check Point Smart Center servers to Auditor software for collection.
From the Data collection dialog box:
 1. Click New;
 2. On the Server tab, specify the Smart Center server name, administrator name and password;
 3. Make sure SmartDashboard is closed; then, on the OPSEC Application tab, click the Initialize button. Then, in the Communication dialog box, specify the administrator name and password. (After successful registration, all boxes on OPSEC Application tab will be filled automatically.)

Supported/Reported

- Check Point VPN-1/Firewall-1 NGX R60, R65

Cisco Module

Target Systems

- RPC Service
- Routers & Layer 3 Switching Devices/Modules (RSM, RSFC, MSFC) running Cisco IOS® version 12.2, 12.3, 12.4
- Access to Privileged EXEC Mode or a security level with access to the following commands: show version, show running-config, and show startup-config on all devices to be documented

Supported/Reported

- Cisco IOS® versions 12.x up to 12.4

Cisco PIX Module

Target Systems

- RPC Service
- PIX firewalls running Cisco PIX OS version 5.x, 6.x, ASA 7.x
- Access to Privileged EXEC Mode or a security level with access to the following commands: show version, show running-config, and show startup-config on all devices to be documented

Supported/Reported

- Cisco PIX OS version 5.x, 6.x, ASA 7.x

Citrix Module

Target Systems

- Remote Registry Service must be enabled
- RPC Service
- Server Service
- Citrix MetaFrame XP SP3 or higher
- View-only administrator rights

Supported/Reported

- Citrix MetaFrame XP SP3, Citrix Presentation Server 3.0, 4.0, 4.5

IBM DB2 Module

Auditor Console — Installation System

- NetBIOS (over TCP/IP) protocol support
- DB2 Administration Client v.8.1.7 (or higher) with OLE DB Client support

Target Systems

- View-only administrator rights
- DAS (DB2 Administration Server) service should be up and running
- Following TCP ports should be open for both incoming and outbound requests:
 - ✓ 523 - utilized by DAS service
 - ✓ 50000, 50001, 50002, 50003 etc. (could differ, as it depends on the total number of DB2 instances being executed simultaneously and their settings) number of DB2 instances being executed simultaneously and their settings) if a TCP/IP connection is used
 - ✓ 137-139 - if a NETBIOS connection is used

Supported/Reported

- IBM DB2 UDB v8.1 and higher

Domino Module

Auditor Console — Installation System

- Lotus Notes 4.5 SP6.x client or higher (you will be prompted for a Notes client password)
- Lotus Notes program directory in the path statement
Note: If you have to edit your path statement, restart the client machine before attempting to collect data.
- Read Access to the Domino Directory (Address Book)

Target Systems

- Read Access to the Domino Directory (Address Book)
- Remote Registry Service enabled
- RPC Service
- Server Service enabled

Supported/Reported

- IBM Lotus Domino Server 4.5 SP6.x, R5x, 6.x or 7.x

Exchange Module

Auditor Console — Installation System

- NetBIOS (over TCP/IP) protocol support
- Exchange Administrative permissions are required
- Outlook 2000 or above is required for additional mailbox or public folder information
- The Outlook profile must have local admin privileges and an Exchange mailbox with
- Exchange administrative rights for additional mailbox or public folder information
- Exchange 5.5 only:
 - ✓ Exchange Administrator 5.5 must be installed
 - ✓ If Outlook 2003 is installed, Exchange Administrator 5.5 must be installed from the Exchange 2000 or 2003 CD
- Exchange 2000/2003/2007 only:
 - ✓ Exchange System Manager
 - ✓ If Outlook 2000 is installed, the public folder attributes Deleted Items and Size of Items are not collected
 - ✓ If Outlook 2003 is installed, the Exchange System Manager is required to collect additional mailbox information

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- NetBIOS (over TCP/IP) protocol support

Supported/Reported

- 5,5 (Gold, All SPs)
- 2000 (Gold, All SPs)
- 2003 (Gold, All SPs)
- 2007 (Gold, SP1)

MS IIS Module

Auditor Console — Installation System

- IIS common files
- NetBIOS (over TCP/IP) protocol support

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- NetBIOS (over TCP/IP) protocol support
- Operator rights to the IIS servers reported
- IIS Management Script and Tools installed (IIS 7.0 only)

Supported/Reported

- IIS 4, 5, 5.1, 6, 7

MS SQL Module

Auditor Console — Installation System

- Microsoft SQL Client with net libraries (Named Pipes, TCP/IP etc.)
- SQL Database Administrator rights

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- Read rights on SQL servers

Supported/Reported

- MS-SQL server 2000, 2005, 2008

Novell Module

Auditor Console — Installation System

- Novell NetWare client version 5.1, 6.0, 6.5 or higher

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- Console Operator access
- Supervisor rights to the portion of the NDS tree to report

Supported/Reported

- Novell NetWare Server 5.1, 6.0, 6.5, Open Enterprise Server (V1, V2)

Oracle Module

Auditor Console — Installation System

- Oracle client version 9i, 10g, 11g with Oracle Networking components installed
Note: Oracle client version 9i for reporting 9i databases, 10g for reporting 10g database, 11g for reporting.

Target Systems

- Remote Registry Service enabled
- RPC Service
- Server Service enabled
- Oracle instance
- Database user account with the following:
 - CONNECT - role
 - OR
 - SELECT ANY DICTIONARY - system privilege

Supported/Reported

- Oracle instances (9i, 10g, 11g) running on any operating system (i.e. Sun Solaris, IBM AIX, and HPUX)

SAN/NAS Collector

Auditor Console — Installation System

- No specific pre-requisites
- SMI-S credentials for target device(s)

Target Systems

- SMI-S provider installed and configured

Supported/Reported

- Supports any SMI-S compliant device (Netapp and EMC tested)
- All "Block-Book" defined SMI-S Parameters

Unix Module

Auditor Console — Installation System

- Microsoft .Net 3.0 to support Agent Manager

Target Systems

- Shell-level access to each target system using a standard user account
 - ✓ The user account startup must be non-interactive. No user input is required to get to a standard shell command line.
 - ✓ When the user account on the target system is a member of group sys, more configuration data can be reported.
 - ✓ When the root password is provided, the user account is used to make the initial connection and the `/bin/su` command is issued to become root. If the root password is not provided, only the data available to the user account can be reported. You can set up and use SUDO for collecting the data available to root.
- Each target system must support ssh (preferred) or telnet communications

Supported/Reported

- Solaris 8, 9, 10
- HPUX 11, 11i
- AIX 4.3, 5.1, 5.3
- Red Hat Enterprise Linux 2.1, 3.0, 4.0, 5.0 (AS/EW/WS)
- Red Hat Linux 9
- Novel SuSE Enterprise Linux 9.x, 10.x
- openSUSE 10.2
- CENT OS 5.1
- Fedora 5, 6, 7, 8
- Linux Oracle EL 5

VMware Module

Auditor Console — Installation System

- VMware VmCOM Scripting API
- Read access to the VMware ESX Server

Target Systems

- VMware VmCOM Scripting API

Supported/Reported

- VMware Servers ESX 2.5, ESX 3.0.x, ESX 3.5

Windows Module

Auditor Software — Installation System

- NetBIOS (over TCP/IP) protocol support
- Microsoft .Net 3.0 to support Agent Manager
- To collect and report domain and system level information completely in one report:
 - ✓ Client for Microsoft Networks
 - ✓ RPC Service

Target Systems

- Remote Registry Service enabled
- RPC Service
- WMI Service
- Server Service enabled
- File & Print sharing for Microsoft Networks protocol enabled
- NetBIOS (over TCP/IP) protocol support or Active Directory
- To collect and report domain and system level information completely in one report:
 - ✓ Client for Microsoft Networks
 - ✓ RPC Service
- Domain, Local, or Enterprise Administrator permissions for all the domains containing systems you want to collect
Note: To report on machines in WorkGroups, you must have an administrator account on all machines to be reported that matches the login/password of the domain administrator account of the domain in which the machine with the software is installed.

Supported/Reported

- Windows XP (SP1, SP2, SP3)
- Windows 2000 (SP4)
- Windows 2003 (Gold, SP1, SP2)
- Windows Vista (Gold, SP1, 64bit SP1)
- Windows Server 2008 (Standard, Standard 64 bit, Enterprise, Enterprise 64 bit, DataCenter, DataCenter 64 bit)

Ecora Compliance Center (ECC)

Installation System

- 1800 MHz CPU or higher
- 512MB RAM or greater
Note: In addition to CPU speed and available RAM, network traffic and resource utilization (such as how many other applications are running on the installed system) also affect performance.
- Microsoft Windows 2000 Server SP4 or higher, Windows 2003 SP1 or higher
- MS IIS version 5.0 or higher
- MS .NET Framework 2.0
- Microsoft Installer (MSI)
- ~50MB free disk space available for the software
Note: Additional space for logs and saved reports might be required later.
- Valid user account with administrator access rights in the database instance on the target machine with Ecora Compliance Center installed.
Note: If Auditor installation is using a remote MS SQL database with Windows authentication, the respective domain account should be manually specified for the Ecora Compliance Center service (Log On as).
- Internet Explorer 6.0 SP1 or higher, Mozilla Firefox 2.0 or higher, or Opera 9.22 or higher
- Screen resolution of 1024 x 768 or higher

Database Considerations

- Microsoft SQL Server (2000 SP4, 2005) or MSDE for the data repository.
- Microsoft's requirements for SQL are available at:
<http://www.microsoft.com/sql/prodinfo/sysreqs/default.msp>
- ~60MB free disk space available, if you are installing MSDE
Note: MSDE is a free Microsoft database with a 2.0GB data limit, making it a viable option for testing the database functionality in small environments. MSDE can be upgraded to SQL Server at any time (without any data loss).

Ecora Executive Dashboard

Installation System

- 1800 MHz CPU or higher
- 512MB RAM or greater
Note: In addition to CPU speed and available RAM, network traffic and resource utilization (such as how many other applications are running on the installed system) also affect performance.
- Microsoft Windows 2000 SP4 or higher, Windows 2003, Windows XP Professional
- MS IIS version 5.0 or higher
- MS .NET Framework 1.1
- MDAC 2.7 or higher
- Internet Explorer 6.0 or higher
- Microsoft Installer (MSI)
- ~200MB free disk space available for the software.
Note: Additional space for logs and saved reports might be required later.
- Valid user account with administrator access rights in the instance on the target machine where the web console is installed
- Screen resolution of 1024 x 768 or higher

Database Considerations

SQL Server

- Microsoft SQL Server 2000SP4/MSDE or higher for the database
 - ✓ Resource: Microsoft's requirements for SQL are available at:
<http://www.microsoft.com/sql/prodinfo/sysreqs/default.msp>
- MS SQL/MSDE security considerations. User account for the Ecora Executive Dashboard must have db_datareader, db_datawriter, and db_ddladmin roles for the Dashboard and Auditor databases.
 - ✓ To create a new database, the account must have dbcreator or sysadmin role.
 - ✓ Using a Windows account and Windows authentication mode, this account must have Logon as a service privilege on the computer. On Microsoft Windows 2000 systems, the account must also have Act as part of operating system privilege.

- Using a remote SQL engine, network access through named pipes and TCP/IP must be granted to the engine on that computer.
 - ✓ If the remote computer is protected by a firewall, the SQL engine must be allowed on the firewall.

Oracle

- Oracle Database (9i, 10g, 11g Standard, Enterprise or Express edition).
 - ✓ Oracle Database 10 G Express Edition is a free to deploy small-footprint (~120MB) entry-level database with a 4Gb data space limitation, available at:
<http://www.oracle.com/technology/software/products/database/xe/htdocs/102xewinsoft.html>
- Oracle client software supplied with the server distribution must be installed on the
- Auditor console with Oracle Network Utilities and Oracle Call Interface options turned on. The latest versions of Oracle ODBC drivers are also available at:
<http://www.oracle.com/technology/software/tech/windows/odbc/index.html>

Auditor Agent

Windows

Installation Systems

- Microsoft Windows 2000, Windows XP, Windows 2003, Windows Vista, Windows 2008
- 1.7GHz CPU or better
- 512MB RAM or greater
- Swap file of 1GB or more (or twice the RAM, whichever is higher)
- ~50MB free disk space available to install software (and 50MB to run it)
- Sufficient disk space for collected configuration data:
Disk usage:
✓ ~1MB per collection
Note: Disk usage values are conditional on enabled/disabled collection options and system type.
- Microsoft .NET 2.0
- TCP port that is manually specified by the user at install time must be open for outbound connections.

Unix

Installation Systems

- RedHat versions with kernel version 2.6 or later.*
- Solaris version 10 (Intel and SPARC.)

* Limited support for kernel version 2.4.2 available by request. Ask your account representative.

ITSM Connector

Installation System

- Ecora Auditor 4.5
- IIS 5 or later
- Microsoft .NET Framework 2.0
- Microsoft WSE 3.0
- If HP Service Desk 4.5 is the target ITSM application, then the JRE 1.4 or higher should be installed.

Supported

- HP Service Desk 4.5 Service Pack 19 - 24
- Service-Now Fall 2007, Spring 2008
- BMC Service Desk Express 9.6
- BMC Remedy 6.3/CMDB 1.1
- BMC Remedy 7 (7.0, 7.1)/CMDB 2.0

Ecora Contact Information

Ecora Support Self-Service Web Portal

<http://www.ecora.com/ecora/services/support.asp>

Phone Support

Monday – Friday, 8am – 7pm, EST

1.603.287.4130 option 1