



IBM Tivoli Security Information and Event Manager V2.0 provides a single integrated product for insider threat, audit and compliance management, and reporting

Table of contents

1 Overview	4 Publications
2 Key prerequisites	5 Technical information
2 Planned availability date	17 Ordering information
2 Description	21 Terms and conditions
3 Product positioning	24 Prices
4 Program number	25 Order now

At a glance

IBM® Tivoli® Security Information and Event Manager V2.0 helps you to:

- Jump-start reporting with a wide range of compliance management modules
- Monitor privileged user behavior on IBM Informix® Dynamic server and the latest release of IBM DB2® and other databases
- Integrate with IBM Tivoli security infrastructure including IBM Tivoli Identity Manager, IBM Tivoli Access Manager, and others
- Rely on IBM infrastructure, delivered as part of Tivoli Security Information and Event Manager, to run reliably and with good performance
- Automate audit reporting through an enterprise compliance management dashboard and compliance management modules
- Efficiently, reliably and verifiably collect, store, and retrieve logs through automated log management and run reports directly against the collected logs

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference:).

Overview

IBM Tivoli Security Information and Event Manager 2.0 is an automated solution for insider threat, audit, and compliance management across the enterprise. Tivoli Security Information and Event Manager provides continuous, non-intrusive compliance management, and documentary evidence that your data and systems are being managed in accordance with company policies; and allows you to alert to insider threats.

What's new

- Single integrated product for insider threat, audit, and compliance management in the enterprise
- Better scalability by adopting new 64-bit platforms to help reduce your overall cost of ownership
- Web-based management and configuration enabling seamless management of multiple servers from one desktop

- Globalization and localization for many new national languages. For details, refer to the Availability of National Languages section.
- Advanced log management reporting capabilities helping shorten the time to first report returning immediate value from using TSIEM log management
- Near real-time analytics allowing insider threat analysis and alerting, which allows alerting on important events such as multiple logon failures to be acted upon
- Three additional compliance management modules include:
 - The module for National Environment Research Council (NERC) supports organizations in the U.S. in the utilities business to implement security and compliance monitoring in their IT infrastructure in order to understand their current compliance posture. The NERC module provides classification templates, policy templates, and reports specific to NERC.
 - The module for Federal Information Security Management Act (FISMA) helps government organizations understand their compliance posture against these recommendations from The National Institute of Standards and Technology (NIST).
 - The module for the Control Objectives for Information and Related Technology (COBIT) helps organizations to monitor security best practices based on the COBIT recommendations.
- Added event source support for IBM zLinux applications and additional support for syslog-based devices

Key prerequisites

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

- February 26, 2010, for electronic availability
- March 12, 2010, for media availability

Description

IBM Tivoli Security Information and Event Manager addresses concerns around insider threat, compliance management, and audit. It helps you to easily understand your current position with regard to compliance management, audit, and threat.

Tivoli Security Information and Event Manager provides some key functional components:

- **Log Manager** - This component collects logs and reports on their contents for you from around the enterprise.

Using security information and event management (SIEM) W7 methodology, Tivoli Security Information and Event Manager can help you interpret native log data in easily understood language.

With this information at your fingertips, you can:

- Quickly drill down into user behavior, system activity, and security information across all platform types
- Compare log entries to baseline policy to help pinpoint and minimize security problems
- Deliver reporting to support auditors' evidence requests and security managers' investigatory needs without the need for expensive platform experts
- Rapidly respond to incidents through the ability to set actions and alerts about privileged user activity, while allowing administrators to perform their jobs
- Use near real-time analytics to answer and alert on questions like "Alert me when someone fails to login to my key business server several times in five minutes and finally succeeds", or "Alert me when an administrator creates one

or more users, gives them elevated privileges, performs one or more privileged activities, and then deletes those users in a 24-hour period".

- **Compliance management modules**- These modules provide data classification templates, policy templates and specific reports to monitor the controls for a specific regulation or best practice.

You can use the optional compliance management modules for ISO 27001 and ISO 2005, Control Objectives for Information and related Technology (COBIT), Sarbanes Oxley (SOX), Gramm-Leach-Bliley Act (GLBA), Health Insurance Portability and Accountability Act (HIPAA), Federal Information Security Management Act of 2002 (FISMA), North American Electric Reliability Council-Critical Infrastructure Protection(NERC-CIP), BASEL II (the latest set of banking supervisory rules, replaces the Basel Capital Accord of 1988), and Payment Card Industry Data Security Standard (PCI-DSS). Separate IBM Tivoli Security Information and Event Manager Management Module Licenses are required.

- **Capabilities for database monitoring** - Users of DBMS systems from IBM and other manufacturers now have the ability to leverage the audit and monitoring capabilities of Tivoli Security Information and Event Manager to include these databases into their enterprise compliance management reporting framework.
- **Supports the IT Infrastructure** - With additional support provided to include IT network devices, servers, applications, databases, and z/OS®.
- **Delivers Integration with Tivoli security suite** - Event source support for support for most Tivoli Security servers completes the integration of the full Tivoli suite of identity and access management products.
- **Built on IBM infrastructure platform** - Tivoli Security Information and Event Manager now relies on the IBM DB2 platform for its database requirements, Tivoli Directory Server for its user and security management and IBM WebSphere® for application management. With this, IBM delivers a cost-effective, reliable and efficient engine for Tivoli Security Information and Event Manager's compliance management reporting capabilities.

Tivoli Security Information and Event Manager V2.0 no longer supports the following environments:

- Tivoli Compliance Insight Server on Windows® 2000.
- Tivoli Compliance Insight Manger Point of Presence on AIX® 4.3.
- Tivoli Security Operations Manager is not included with Tivoli Security Information and Event Manager V2.0 as Tivoli Security Information and Event Manager V2.0 is now a fully integrated product. Tivoli Security Operations Manager continues to be offered as a stand-alone product for customers specifically wishing to focus on external threat management.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

Positioning Tivoli Security Information and Event Manager with Tivoli

Security Compliance Manager:Tivoli Security Information and Event Manager and Tivoli Security Compliance Manager are complementary tools to provide an overall view of IT systems compliance. Tivoli Security Information and Event Manager collects audit trail data and real-time events and reports on user behavior and user threats against an acceptable use policy, and is an event audit product. Tivoli Security Compliance Manager collects system configuration data and reports on systems' compliance against a security policy, and is a status audit product.

Positioning Tivoli Security Information and Event Manager with Tivoli

Security Operations Manager:Tivoli Security Information and Event Manager and Tivoli Security Operations Manager are complementary tools to provide a

view of real-time external threats and network-based threats and user behavior and insider threat across applications, databases, and operating systems. Tivoli Security Operations Manager collects and analyzes information in real-time from security devices across the network. Through advanced correlation capabilities, Tivoli Security Operations Manager is able to identify and prioritize security incidents, and enables your organization to respond to these external threat incidents automatically. Tivoli Security Information and Event Manager leverages the resulting information to present a comprehensive enterprise-wide view of the compliance, audit, and insider threat integrated with real-time external security threat identification.

Positioning Tivoli Security Information and Event Manager with Tivoli zSecure: Tivoli Security Information and Event Manager leverages the capabilities of Tivoli zSecure to enable inclusion of mainframe reporting on RACF®, ACF2, and Top Secret into Tivoli Security Information and Event Manager enterprise-wide compliance dashboard and reporting, so that users can view the compliance status of their mainframe along with the rest of their environment.

Reference information

For more information on IBM Tivoli Security Operations Manager V4, 1 refer to Software Announcement [207-345](#), dated December 11, 2007.

For more information on IBM Tivoli Compliance Insight Manager V8.5 refer to Software Announcement [208-007](#), dated January 22, 2008

Program number

Program number	VRM	Program name
5724-z13	V2.0	IBM Tivoli Security Information and Event Manager

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® Web site

<http://www.ibm.com/software/passportadvantage>

Publications

The Tivoli Security Information and Event Manager V2.0 Quick Start Guide English and translated publications will be delivered on a separate publications CD-ROM with

the basic machine-readable material. It can also be down-loaded from the IBM Tivoli Security Information and Event Manager V2.0 Information Center at:

<http://publib.boulder.ibm.com/tividd/td/link/tdprodlist.html#S>

The following Tivoli Security Information and Event Manager V2.0 English publications may be downloaded from the following Web site. Translated publications will be available 30 days after general availability.

<http://publib.boulder.ibm.com/tividd/td/link/tdprodlist.html#S>

- Quick Start Guide (GI11-8777-00)
- Installation Guide (GI11-8778-00)
- Event Source Guide (SC23-9687-00)
- Administrators Guide (SC23-9688-00)
- Users Guide (SC23-9689-00)
- Troubleshooting Guide (SC23-9690-00)
- User Reference Guide (SC23-9691-00)
- IBM Tivoli Basel II Management Module Installation Guide (GI11-8779-00)
- IBM Tivoli COBIT Management Module Installation Guide (GI11-8780-00)
- IBM Tivoli FISMA Management Module Installation Guide (GI11-9301-00)
- IBM Tivoli GLBA Management Module Installation Guide (GI11-9302-00)
- IBM Tivoli HIPAA Management Module Installation Guide (GI11-9303-00)
- IBM Tivoli ISO27001 Management Module Installation Guide
- IBM Tivoli NERC CIP Management Module Installation Guide (GI11-9306-00)
- IBM Tivoli PCI-DSS Management Module Installation Guide (GI11-9307-00)
- IBM Tivoli Sarbanes-Oxley Management Module Installation Guide (GI11-9308-00)

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

Minimum requirements:

- Quad Core Intel® Xeon® 2.13 GHz processor (64-bit)
- 8 GB RAM
- Temp directory: 100 MB (during install)
- Hard drive: Specific requirements will depend on log volumes and types of log data but a minimum of 200 GB of hard disk space is required.

Recommended Log Management Server and Enterprise Server requirements:

- Quad Core Intel Xeon 3.0 GHz processor (64-bit)
- 8 GB RAM
- Temp directory: 100 MB (during install)

- Hard drive: Specific requirements will depend on log volumes and types of log data, but a minimum of 200 GB of hard disk space is required. The disks that store the log management depot and indexes must be fast (at least 10,000 RPM) and configured in a striped configuration (for example, RAID 5).

Recommended SIM Standard Server requirements:

- Duo Core Intel Xeon 3.0 GHz processor (64-bit) (+ 2 additional cores for each GEM Database)
- 8 GB RAM (+ 1 GB for each GEM Database)
- Temp directory: 100 MB temp directory (during install)
- Hard drive: Specific requirements will depend on log volumes and types of log data but a minimum of 200 GB of hard disk space is required. The disks that store the log management depot and the database instances must be fast (at least 10,000 RPM) and configured in a striped configuration (for example, RAID 5).

Software requirements

- Windows 2003 Server 64-Bit SP1 and R2
- Windows 2003 Server 64-Bit SP2
- Windows 2008 Server 64-Bit

Web browser support:

- IE 6.0 SP2
- IE 7.0
- Firefox 1.5, or later on Windows

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

IBM Tivoli Security Information and Event Manager is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- CD-ROMs/DVDs
- Publications (refer to the [Publications](#) section)

This program, when downloaded from a Web site, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented

for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM Tivoli Security Information and Event Manager V2.0 uses the security and auditability features of the operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

IBM Tivoli Enhanced Value-based Pricing

IBM Tivoli software products are priced using IBM Tivoli's Enhanced Value-based Pricing. The Enhanced Value-based Pricing system is based upon the IBM Tivoli Environment-Managed Licensing Model, which uses a managed-environment approach -- whereby price is determined by what is managed rather than the number and type of product components installed.

For example, all servers monitored with IBM Tivoli's monitoring product (IBM Tivoli Monitoring) require entitlements sufficient for those servers. Other Tivoli products may manage clients, client devices, agents, network nodes, users, or other items, and are licensed and priced accordingly.

Unlike typical systems management licensing models that require entitlements of specific software components to specific systems, the IBM Tivoli Environment-Managed Licensing Model provides the customer flexibility to deploy its IBM Tivoli software products within its environment in a manner that can address and respond to the customer's evolving architecture. That is, as the architecture of a customer's environment changes, the customer's implementation of IBM Tivoli software can be altered, as needed, without affecting the customer's license requirements (as long as the customer does not exceed its entitlements to the software).

Under Enhanced Value-based Pricing, licensing and pricing of server-oriented applications are determined based upon the server's use in the customer's environment. Typically, such applications are licensed and priced in a manner that corresponds to each installed and activated processor of the server managed by the IBM Tivoli application to help correlate price to value while offering a simple solution.

Where a server is physically partitioned, this approach is modified. This partitioning technique is the approach used with systems that have either multiple cards or multiple frames, each of which can be configured independently. For servers capable of physical partitioning (for example, IBM System p® Scalable POWERparallel Systems® servers, Sun Ultra servers, and HP Superdome servers), an entitlement is required for each processor in the physical partition being managed by the Tivoli application. For example, assume that a server has 24 processors installed in aggregate. If this server is not partitioned, entitlements are required for all

24 processors. If, however, it is physically partitioned into three partitions, each containing eight processors, and Tivoli products were managing only one of the three partitions, then entitlements would be required for the eight processors on the physical partition managed by the IBM Tivoli application.

For servers with virtual or logical partitions, entitlements are required for all installed and activated processors on the server. For each IBM Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processors on each server in the cluster. Where the cluster includes physically partitioned servers, the considerations described above concerning physically partitioned servers apply as well.

Enhanced Value-based Pricing recognizes the convergence of RISC and UNIX®, and Microsoft® Windows and Intel technologies, in order to simplify your licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing does not differentiate between non-System z server platforms or operating systems. For some products, this platform neutrality extends to System z® and other host servers as well.

IBM Tivoli Enhanced Value-based Pricing terminology definitions

Applications and Databases Instances

A license entitlement is required for each instance of the application being connected. Applications and Databases refer to the programs instances running on a server operating system, which provide a source of security events and logs. Examples of applications include, but are not limited to SAP, Siebel, and Exchange. Examples of databases include, but are not limited to DB2, Oracle, and Sybase.

Client device or client

A client device is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server. Multiple client devices may share access to a common server. A client device generally has some processing capability or is programmable to allow a user to do work. Examples include, but are not limited to, notebook computers, desktop computers, desk side computers, technical workstations, appliances, automated teller machines, point-of-sale terminals, tills and cash registers, and kiosks.

Install

An install is a copy or instance of the main managing program in the enterprise.

Instance

An instance is the occurrence of something in the enterprise. For example, if you have acquired an application instance authorization for an application, you are permitted to deploy and run one copy of the licensed application on one machine or LPAR. Another example would be if you have acquired an Operating System instance authorization for an OS, you are permitted to deploy and run one copy of the licensed OS on one machine or LPAR.

Network node

Network nodes include routers, switches, hubs, and bridges that contain a network management agent. A single network node may contain any number of interfaces or ports.

Network security device

Network security device is any network-based security appliance or server running network security based software, that provides a source of security events or logs. Examples include, but are not limited to firewalls, application firewalls, intrusion detection systems, intrusion protection systems, virtual private networks (VPNs), threat protection products (anti-virus gateways), content filtering (Web, email),

identity and access management, directory servers, network anomaly behavior products, and multi-function security appliances.

Resource Value Unit (RVU)

A Resource is the measurement for program license entitlements which is based upon the quantity of the specific designated measurement used for a given program. A Resource Value Unit is a pricing charge metric of IBM Tivoli's Enhanced Value-based Pricing, which uses a managed-environment approach whereby the applicable license fee is based on what is managed. Whenever the designated measurement is a resource, not all resources require the same number of Resource Value Units (or RVUs). RVU schedules are located in the Pricing examples section.

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more user or client devices over a network. A PoE must be obtained for each server on which the program or a component of the program is run or for each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes:

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Value Units

A Value Unit is a pricing charge metric for program license entitlements, which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurements are processor cores and MSUs. However, for select programs, there are other designated measurements such as servers, users, client devices, and messages. The number of Value Unit entitlements required for your specific implementation of the given program must be obtained from

a conversion table associated with the program. You must obtain a PoE for the appropriate number of Value Unit entitlements for your implementation. The Value Unit entitlements of a given program cannot be exchanged, interchanged, or aggregated with Value Unit entitlements of another program. Whenever the designated measurement is a processor core, not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage Web site

<http://www.ibm.com/software/passportadvantage>

Product and licensing Web sites

A complete list of IBM Tivoli products is available at

<http://www.ibm.com/software/tivoli>

IBM Tivoli product licensing documents are available at

<http://www.ibm.com/software/tivoli/products/licensing.html>

Passport Advantage

Through the Passport Advantage Agreement, you may receive discounted pricing based on their total volume of eligible products, across all IBM brands, acquired worldwide. The volume is measured by determining the total Passport Advantage points value of the applicable acquisitions. Passport Advantage points are only used for calculating the Entitled Passport Advantage discount.

To determine the required IBM Tivoli product configuration under Passport Advantage, the IBM Tivoli Enhanced Value-based Pricing Model applies. The customer's environment is evaluated on a per-product basis.

Use the following two-step process to determine the total Passport Advantage points value:

1. Analyze your environment to determine the number of charge units for a product. The quantity of each product's part numbers to be ordered is determined by that analysis.
2. Order the Passport Advantage part numbers. A Passport Advantage point value, which is the same worldwide for a specific part number regardless of where the order is placed, is assigned to each IBM Tivoli product part number. The Passport Advantage point value for the applicable part number, multiplied by the quantity for that part number, will determine the Passport Advantage points for that IBM Tivoli product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable IBM Tivoli product authorizations which then may be aggregated with the point value of other applicable Passport Advantage product acquisitions to determine the total Passport Advantage points value.

The discounted pricing available through Passport Advantage is expressed in the form of Suggested Volume Prices (SVPs), which vary depending on the SVP level. Each SVP level is assigned a minimum total Passport Advantage point value, which must be achieved, in order to qualify for that SVP level.

Media packs and documentation packs do not carry Passport Advantage points and are not eligible for SVP discounting.

For additional information on Passport Advantage, refer to the following

<http://www.ibm.com/software/passportadvantage>

The following Passport Advantage part number categories may be orderable:

- License and Software Maintenance 12 Months - This is the product authorization with maintenance to the first anniversary date.

- Annual Software Maintenance Renewal - This is the maintenance renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Maintenance Reinstatement 12 months - This is for customers who have allowed their Software Maintenance to expire, and later wish to reinstate their Software Maintenance.
- Media packs - These are the physical media, such as CD-ROMs, that deliver the product's code.
- Documentation packs - These contain printed documentation such as the User's Guide and Release Notes®.

Pricing examples

The pricing for Tivoli Security Information and Event Manager (TSIEM) is based on Install and Resource Value Units (RVUs). For each Tivoli Security Information or Event Manager Install and Tivoli Security Information and Event Manager Log Manager Install, customers must also acquire chargeable license components for each event source based on the applicable category: Network Devices; Server; Application and Database Instances and z/OS Instances; Log Management Devices, and Client Devices. The number of chargeable license components is based on the number of event sources in each device category represented in the customer's inventory. For Log Management, all event sources are considered Log Management Devices. All of the data collection options that Tivoli Security Information and Event Manager supports (including agent based, agentless, SSH, ODBC, XML, Syslog, SNMP, JDBC, text file, OPSEC, and Cisco IDS) are included and do not affect charges.

There are eight chargeable license components that may apply in any given installation. There are two license volume discount schedules. The following table illustrates the eight licenses and the volume discount that applies to that license. Resource Value Units are summed through each incremental tier.

Price metric	Volume discount schedule
TSIEM Install	N/A
TSIEM Log Manager Install	N/A
TSIEM Compliance Management module	Schedule 2
TSIEM Log Management Devices	Schedule 1
TSIEM Client Devices	Schedule 1
TSIEM Network Devices	Schedule 1
TSIEM Server	Schedule 1
Application and Database Instances and z/OS Instances	Schedule 2

The two volume discount schedules are as follows:

Schedule 1

Tier	Number of resources	RVUs per resource
1	0-10	1.00
2	11-100	0.90
3	101-250	0.75
4	251-500	0.60
5	501-5,000	0.45
6	5,001-25,000	0.30
7	>25,000	0.15

Schedule 2

Tier	Number of resources	RVUs per resource
1	0-2	1.00
2	3-5	0.90
3	6-10	0.80
4	11-20	0.70
5	21-35	0.60
6	36-50	0.45
7	>50	0.30

All fractional Resource Value Unit (RVU) totals are rounded up to the next whole number.

Trade-ups are available for upgrading the TSIEM Log Manager Install to the TSIEM Install and for upgrading the TSIEM Log Management Devices to Network Devices, Server, or Application and Database Instances and z/OS Instances.

Pricing Scenario 1

Transaction 1

In phase 1 of a compliance management installation the customer needs to monitor and store logs for select critical systems. In order to do this they need to monitor and collect logs from 27 servers, 15 firewalls and 10 of their databases.

- 1 TSIEM Log Manager Install
- 27 servers
- 15 firewalls
- 10 databases

All of the event sources are being used for log management only and will be calculated as TSIEM Log Management Devices (Schedule 1).

Log management gives the capability to collect logs; to store and retrieve those logs; to search and report on the log content. It requires a TSIEM Log Manager Install to support this.

Price metric	Qty	RVUs/resource (Schedule 1)	RVUs
Tier 1 TSIEM Log Management Devices	10	1.0	10
Tier 2 TSIEM Log Management Devices	42	0.9	37.8
Total Log Management Devices RVUs (rounded up)			48

Price metric	Qty
SIEM Log Manager Install	1

Transaction 2

In phase 2 of their implementation they need to provide alerting and compliance management reporting on their key infrastructure for compliance management with PCI-DSS and Sarbanes Oxley. This now requires them to be monitoring 250 servers, 50 databases, and existing firewalls and switches (100 devices in all). To support alerting they also need to upgrade their TSIEM Log Manager Install and their TSIEM Log Management Devices to full W7 support.

- Trade up their 27 Log Management Devices to 27 Server (for the Phase 1 servers)
- Trade up their 10 Log Management Devices to 10 Application and Database Instances and z/OS instances (for the Phase 1 production databases)
- Trade up their 15 Log Management Devices to 15 Network Devices (for the Phase 1 firewall devices)
- 223 more servers
- 40 more databases

- 90 more firewalls and switches
- 2 Compliance Management modules

Price metric	Qty	RVUs/resource (Schedule 1)	RVUs
Tier 1 TSIEM Log Management Devices to Server tradeup	10	1	10
Tier 2 TSIEM Log Management Devices to Server tradeup	17	0.9	15.3
Total Log Management Devices to Server tradeup			26
Price metric	Qty	RVUs/resource (Schedule 2)	RVUs
Tier 1 TSIEM Log Management Devices to Application and Database Instances and z/OS Instances tradeup	10	1	10
Total Log Management Devices to Application and Database Instances and z/OS Instances tradeup			10
Price metric	Qty	RVUs/resource (Schedule 1)	RVUs
Tier 1 TSIEM Log Management Devices to Network Devices tradeup	10	1	10
Tier 2 TSIEM Log Management Devices to Network Devices tradeup	5	0.9	4.5
Total Log Management Devices to Network Devices tradeup			15
Tier 1 TSIEM Server	10	1	10
Tier 2 TSIEM Server	100	0.9	90
Tier 3 TSIEM Server	113	0.75	84.75
Total Server			185
Price metric	Qty	RVUs/resource (Schedule 2)	RVUs
Tier 1 Application and Database Instances and z/OS Instances	2	1.0	2
Tier 2 Application and Database Instances and z/OS Instances	3	0.9	2.7
Tier 3 Application and Database Instances and z/OS Instances	5	0.8	4
Total Application and Database Instances and z/OS Instances			19
Price metric	Qty	RVUs/resource (Schedule 2)	RVUs
Tier 1 TSIEM Compliance Management module	2	1	2
Price metric	Qty		
TSIEM Log Manager Install to TSIEM Install tradeup	1		

Pricing Scenario 2

Transaction 1

In phase 1, a customer wants to purchase Tivoli Security Information and Event Manager to set up compliance management for a division that runs a large financial system. They want to benefit from the built-in audit and compliance management reporting provided by Tivoli Security Information and Event Manager and to benefit from the advanced analysis and reporting provided through W7 normalization. The initial deployment goal is to consolidate information from their core application and database servers. Their initial deployment will focus on:

- 1 TSIEM Install
- 28 servers
- 4 databases

Transaction 1 tables below reflect Resource Value Units (RVUs) to order based upon per instance using Schedule 2 for each Application and Database Instances and z/OS Instances. Schedule 1 is used to calculate RVUs to order for each Server.

Price metric	Qty		
TSIEM Install	1		
	Total TSIEM Install		1
Price metric	Qty	RVUs/resource (Schedule 1)	RVUs
Tier 1 TSIEM Server	10	1	10
Tier 2 TSIEM Server	18	0.9	16.2
	Total Server		27
Price metric	Qty	RVUs/resource (Schedule 2)	RVUs
Tier 1 Application and Database Instances and z/OS Instances	2	1.0	2
Tier 2 Application and Database Instances and z/OS Instances	2	0.9	1.8
	Total Application and Database Instances and z/OS Instances		4

Transaction 2

In phase 2 the customer wants to add:

- 20 more databases

The total number of databases licensed increases to 24.

Price metric	Qty	RVUs/resource (Schedule 2)	RVUs
Tier 1 Application and Database Instances and z/OS Instances	2	1.0	2
Tier 2 Application and Database Instances and z/OS Instances	3	0.9	2.7
Tier 3 Application and Database Instances and z/OS Instances	5	0.8	4.0
Tier 4 Application and Database Instances and z/OS Instances	10	0.7	7.0
Tier 5 Application and Database Instances and z/OS Instances	4	0.6	2.4
	Total Application and Database Instances and z/OS Instances		19

At this phase, the customer wants to accelerate their compliance management reporting to satisfy auditor requirements. They would then purchase one Sarbanes Oxley Compliance Management Module to install on their IBM Tivoli Compliance Insight Manager server, as well as purchasing entitlements for other critical network components. Total additional quantities in the customer's environment to order are:

- Sarbanes Oxley Compliance Management Module
- 20 TSIEM Network Devices
- 65 TSIEM Server
- 25 Application and Database Instances and z/OS Instances

Price metric	Qty	RVUs/resource (Schedule 2)	RVUS
Tier 1 TSIEM Compliance Management module	1	1	1

Price metric	Incremental Quantity	Previous Quantity	New Total Quantity
TSIEM Network Devices	20	0	20
TSIEM Server	65	28	93
Application and Database Instances and z/OS Instances	25	24	49

Price metric	RVU Schedule	Previous RVU Qty	New Total RVU Qty	RVU Qty To order
TSIEM Network Devices	1	0	19	19
TSIEM Server	1	27	85	58
Application and Database Instances and z/OS Instances	2	19	31	12

Pricing Scenario 3

A federal government agency wants to purchase a Tivoli Security Information and Event Manager installation at each of three divisions to set up independent compliance management reporting for each of these divisions. These divisions want control of their own management system, policy rules, and operations, and will be set up and staffed independently. Division A is going to start by monitoring 200 servers only, division B will start with 100 servers and 45 databases, and division C will be covering 200 network devices, 2,000 servers, 400® databases and applications, and 4 mainframes. All three divisions want to use the ISO27001 Compliance Management Module.

Summary of the agency's chargeable components:

Monitored resource	Division A	Division B	Division C	Totals
TSIEM Install	1	1	1	3
TSIEM Compliance Management module	1	1	1	3
TSIEM Network Devices	0	0	200	200
TSIEM Server	200	100	2,000	2,300
Application and Database Instances and z/OS Instances	0	45	404	449

The following Scenario 3 table reflects total RVU quantities to order by applying Schedule 1 and Schedule 2 where appropriate. All fractional RVU totals are rounded up to the next whole number.

Price metric	Quantity to order	Schedule	RVU quantity (rounded up)
TSIEM Install	3	N/A	N/A
TSIEM Compliance Management module	3	2	3
TSIEM Network Devices	200	1	166
TSIEM Server	2,300	1	1,164
Application and Database Instances and z/OS Instances	449	2	150

Additional Tivoli Security Information and Event Manager pricing details, interpretations, and examples

The price charged is dependent upon the number of TSIEM Installs and the number of TSIEM Log Manager Installs and the number of event sources monitored regardless of how the data from them is collected. Events or logs may be collected individually from each resource, from a central management server (like ISS SiteProtector™, McAfee ePO), or through a central point of presence. The number of resources monitored is independent of the collection implementation used.

Examples of customer environments and interpretations on quantifying resources are listed below.

Note 1: A Tivoli Security Information and Event Manager license for an event source includes events only from that individual server log, application log, or database log.

Note 2: For platforms that support partitioning, each individual partition is considered to require separate entitlements for the resources monitored. Examples are: LPARs on the mainframe, Solaris Zones, Database Instances.

Example A: A customer is collecting Check Point Firewall-1 event logs from 25 firewalls through one Check Point Provider-1 management console connection via an OPSEC API. This counts as 25 Network Devices under Tivoli Security Information and Event Manager licensing. The fact that Tivoli Security Information and Event Manager collects the data via a single OPSEC connection is an implementation detail that doesn't affect the price.

Example B: A customer is collecting Windows Event Logs from 20 servers. These Logs are all collected through the agent on a single Windows server for collection by Tivoli Security Information and Event Manager. For Tivoli Security Information and Event Manager licensing, this counts as 20 Servers.

Example C: A customer is collecting Windows operating system event logs, UDB database audit logs, and SAP application logs all from 10 critical servers. This counts as 10 Servers plus 20 Application and Database Instances and z/OS Instances under Tivoli Security Information and Event Manager licensing.

Example D: A customer is collecting Windows operating system event logs and UDB database audit logs from two UDB instances on a single server. This counts as one Server plus two Application and Database Instances and z/OS Instances.

Example E: A customer is collecting z/OS logs from four LPARs on a single sysplex. This is counted as four Application and Database Instances and z/OS Instances, one for each LPAR.

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product group: IBM Tivoli Security
Product Identifier Description

PID

IBM Tivoli Security Information and Event Manager 5724-Z13

Product category: Security Event Management

Passport Advantage trade-up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part numbers.

Note: In the following table, TSIEM is Tivoli Security Information and Event Manager

Precursor product	Trade-up product	Trade-up part number
TSIEM Log Mgmt Evtnt RVU	TSIEM App DBs z/OS RVU Trdup Lic + SW S&S 12 Mo	D0BX6LL
TSIEM Log Mgmt Evtnt RVU	TSIEM Server RVU Trdup Lic + SW S&S 12 Mo	D0BWZLL
TSIEM Log Mgmt Evtnt RVU	TSIEM Netwrk Nodes & Sec Device RVU Trdup Lic + SW S&S 12 Mo	D0BWNLL
TSIEM Log Mgmt Ins Install	TSIEM Ins per Install Trdup Lic + SW S&S 12 Mo	D0BW3LL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Entitled maintenance offerings description	Part number
IBM Tivoli Security Information and Event Manager Install per Install	TSIEMSB17
IBM Tivoli Security Information and Event Manager Install per Install for Linux® on System z Schedule 2	TSIEMSB18
IBM Tivoli Security Information and Event Manager Log Management Install per Install	TSIEMSB19
IBM Tivoli Security Information and Event Manager Log Management Install per Install for Linux on System z Schedule 2	TSIEMSB20
IBM Tivoli Security Information and Event Manager for Network Nodes and Security Devices per Resource Value Unit	TSIEMSB21
IBM Tivoli Security Information and Event Manager for Network Nodes and Security Devices per Resource Value Unit for Linux on System z	TSIEMSB22
IBM Tivoli Security Information and Event Manager for Servers per Resource Value Unit Schedule 1	TSIEMSB23
IBM Tivoli Security Information and Event Manager for Servers Value Unit for Linux on System z Schedule 1	TSIEMSB24
IBM Tivoli Security Information and Event Manager for Apps/Databases and z/OS per Resource Value Unit	TSIEMSB25
IBM Tivoli Security Information and Event Manager for Apps/Databases and z/OS per Resource for Linux on System z	TSIEMSB26

IBM Tivoli Security Information and Event Manager for Log Management Events per Resource Value Unit	TSIEMSB27
IBM Tivoli Security Information and Event Manager for Log Management Events per Resource for Linux on System z	TSIEMSB28
IBM Tivoli Security Information and Event Manager for Client Devices per Resource Value Unit Schedule 1	TSIEMSB29
IBM Tivoli Security Information and Event Manager for Client Devices per Resource for Linux on System z Schedule 1	TSIEMSB30
IBM Tivoli Security Information and Event Manager Compliance Management Modules per Resource Value Unit	TSIEMSB31
IBM Tivoli Security Information and Event Manager Compliance Management Modules for Linux on System z	TSIEMSB32

Media packs description	Part number
IBM Tiv Sec Info and Event Mgr v2.0 Multiplatform, Multilingual, DVD Media Pack	BJ0UHML
IBM Tiv Sec Info and Event Mgr v2.0 for Agents, English, MP, CD Media Pack	BJ0UIEN

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date for Software Maintenance renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Maintenance. Software Maintenance in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Maintenance will renew at the common anniversary date for twelve full months of maintenance.

Refer to the IBM International Passport Advantage Agreement and to the *IBM Software Support Handbook* for specific terms relating to, and a more complete description of, technical support provided through Software Maintenance.

The quantity to be specified for the Passport Advantage part numbers in the following table is per required number of Resource Value Units. To order for Passport Advantage, specify the desired part number and quantity.

Description	Part number
Tiv Sec Info Evnt Mgr Compl Mgt Mdls Rsrc UV SC2 Lic + SW S&S 12 Mo	D0BXRL
Tiv Sec Info Evnt Mgr Compl Mgt Mdls Rsrc UV SC2 Annual SW S&S Rnw	E089ML
Tiv Sec Info Evnt Mgr Compl Mgt Mdls Rsrc UV SC2 SW S&S Reinstate 12 Mo	D0BXSL
Tiv Sec Info Evnt Mgr Compl Mgt Mdls RUV Lin Sys z Lic + SW S&S 12 Mo	D0BXTL

Tiv Sec Info Evnt Mgr Compl Mgt Mdls RUV Lin Sys z Annual SW S&S Rnw1	E089NLL
Tiv Sec Info Evnt Mgr Compl Mgt Mdls RUV Lin Sys z SW S&S Reinstate 12 Mo	D0BXULL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV SC1 Lic + SW S&S 12 Mo	D0BXMLL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV SC1 Annual SW S&S Rnw1	E089KLL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV SC1 SW S&S Reinstate 12 Mo	D0BXNLL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV Lin Sys z Lic + SW S&S 12 Mo	D0BXPLL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV Lin Sys z Annual SW S&S Rnw1	E089LLL
Tiv Sec Info Evnt Mgr Clnt Dev Rsrc UV Lin Sys z SW S&S Reinstate 12 Mo	D0BXQLL
Tiv Sec Info Evnt Mgr Log Mgt Evnt Rsrc UV SC1 Lic + SW S&S 12 Mo	D0BXALL
Tiv Sec Info Evnt Mgr Log Mgt Evnt Rsrc UV SC1 Annual SW S&S Rnw1	E089DLL
Tiv Sec Info Evnt Mgr Log Mgt Evnt Rsrc UV SC1 SW S&S Reinstate 12 Mo	D0BXBLL
Tiv Sec Info Evnt Mgr Log Mgt Evnt RUV Lin Sys z Lic + SW S&S 12 Mo	D0BXCLL
Tiv Sec Info Evnt Mgr Log Mgt Evnt RUV Lin Sys z Annual SW S&S Rnw1	E089ELL
Tiv Sec Info Evnt Mgr Log Mgt Evnt RUV Lin Sys z SW S&S Reinstate 12 Mo	D0BXDLL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Schedule 2 Lic + SW S&S 12 Mo	D0BX4LL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Schedule 2 Annual SW S&S Rnw1	E089ALL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Schedule 2 SW S&S Reinstate 12 Mo	D0BX5LL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Lin Sys z Lic + SW S&S 12 Mo	D0BX7LL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Lin Sys z Annual SW S&S Rnw1	E089BLL
Tiv Sec Info Evnt Mgr App DBs z/OS RUV Lin Sys z SW S&S Reinstate 12 Mo	D0BX8LL
Tiv Sec Info Evnt Mgr Servers Rsrc UV SC1 Lic + SW S&S 12 Mo	D0BWXLL
Tiv Sec Info Evnt Mgr Servers Rsrc UV SC1 Annual SW S&S Rnw1	E0896LL
Tiv Sec Info Evnt Mgr Servers Rsrc UV SC1 SW S&S Reinstate 12 Mo	D0BWYLL
Tiv Sec Info Evnt Mgr Servers Rsrc UV Lin Sys z SC1 Lic + SW S&S 12 Mo	D0BX0LL
Tiv Sec Info Evnt Mgr Servers Rsrc UV Lin	E0897LL

Sys z SC1 Annual SW S&S Rnw1	
Tiv Sec Info Evnt Mgr Servers Rsrc UV Lin Sys z SC1 SW S&S Reinstate 12 Mo	D0BX1LL
TSIEM Ntwk Nodes Scr Dvc Rsrc UV Schedule 1 Lic + SW S&S 12 Mo	D0BWLLL
TSIEM Ntwk Nodes Scr Dvc Rsrc UV Schedule 1 Annual SW S&S Rnw1	E0893LL
TSIEM Ntwk Nodes Scr Dvc Rsrc UV Schedule 1 SW S&S Reinstate 12 Mo	D0BWMLL
TSIEM Ntwk Nodes Scr Dvc Rscr UV Lin Sys z Schedule 1 Lic + SW S&S 12 Mo	D0BWPLL
TSIEM Ntwk Nodes Scr Dvc Rscr UV Lin Sys z Schedule 1 Annual SW S&S Rnw1	E0894LL
TSIEM Ntwk Nodes Scr Dvc Rscr UV Lin Sys z Schedule 1 SW S&S Reinstate 12 Mo	D0BWQLL
Tiv Sec Info Evnt Mgr Ins per Install Lic + SW S&S 12 Mo	D0BW1LL
Tiv Sec Info Evnt Mgr Ins per Install Annual SW S&S Rnw1	E088ULL
Tiv Sec Info Evnt Mgr Ins per Install SW S&S Reinstate 12 Mo	D0BW2LL
Tiv Sec Info Evnt Mgr Install per Install Lin Sys z Lic + SW S&S 12 Mo	D0BW4LL
Tiv Sec Info Evnt Mgr Install per Install Lin Sys z Annual SW S&S Rnw1	E088VLL
Tiv Sec Info Evnt Mgr Install per Install Lin Sys z SW S&S Reinstate 12 Mo	D0BW5LL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install Lin Sys z Lic + SW S&S 12 Mo	D0BWELL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install Sys z Annual SW S&S Rnw1	E088ZLL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install Lin Sys z SW S&S Reinstate 12 Mo	D0BWFLL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install Lic + SW S&S 12 Mo	D0BWCLL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install Annual SW S&S Rnw1	E088YLL
Tiv Sec Info Evnt Mgr Log Mgt Install per Install SW S&S Reinstate 12 Mo	D0BWDLL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

Description	Part number
IBM Tiv Sec Info and Event Mgr v2.0 Multilingual, Multilingual, DVD MP	BJ0UHML
IBM Tiv Sec Info and Event Mgr v2.0 for Agents, English, MP, CD MediaPack	BJ0UIEN

IBM Tivoli Security Information and Event Manager V1.0 is also available, via Web download, from Passport Advantage.

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Volume orders (IVO)

No

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