IBM Security AppScan now supports SAP code quality and data loss prevention testing with Virtual Forge CodeProfiler for IBM Security AppScan Source

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At a glance

Virtual Forge CodeProfiler for IBM® Security AppScan® Source is designed to deliver:

- Code Quality testing
  - Analyzes the ABAP coding for issues that make the code difficult to maintain and ABAP coding practices that jeopardize the reliable execution of a business application.
- Data loss prevention capabilities
  - Designed to identify data leaks and help reduce the risk of disclosure of critical assets.
- SAP Change and Transport Management integration
  - Enables you to check transports automatically before the actual release on task level as well as transport level (or both), supports the common transport and release mechanisms, and integrates with a variety of additional tools.
- SAP business intelligence (BI) Dashboard content
  - Shows all analysis details per SAP system for drill down into the test cases, as well as histograms for continuous quality improvements in your ABAP programming.

Overview

Many leading companies use SAP systems to process sensitive data and control their business processes. The core business logic is implemented in SAP's programming language ABAP and virtually all SAP customers extend the standard with custom developed functionality.

ABAP is one of the most powerful and widely used high-level languages for business applications. These applications can be entirely custom or based on open platforms that are customized and deployed as web applications. Many developer teams, different departments, and external consultants are usually involved in the development of custom ABAP applications.

Virtual Forge CodeProfiler is a leading solution for automated testing for ABAP, ABAP Objects, Business Server Pages, and WebDynpro ABAP in key quality domains: security, compliance, and performance. It is seamlessly integrated into the SAP development and quality assurance (QA) environment. Developers can use Virtual Forge CodeProfiler for self-checking while QA teams can automate checks and
enforce compliance to industry best practices. Virtual Forge CodeProfiler helps development teams to deliver quality products and systems in a shorter time period and at a lower cost by automating some of the most time consuming tasks of the development cycle.

Virtual Forge CodeProfiler helps the development organization to address the volume of security issues that can be introduced in code, streamline the development lifecycle workflow, and reduce costly security testing bottlenecks that can occur at the end of the release cycle.

IBM Security AppScan portfolio of application security testing capabilities supports SAP applications and ABAP programs, and is integrated with Virtual Forge CodeProfiler.

**Virtual Forge CodeProfiler integration with IBM Security AppScan Source:**

- Allows you to test the SAP applications for security vulnerabilities, performance problems, code quality, and data loss while managing the testing and remediation with IBM Security AppScan Source.
- Contains knowledge, methodology, and best practices of more than nine years of intense code analysis and research in the SAP environment.
- Provides a highly reliable unique analysis engine that helps find known insecure coding practices in ABAP programs. (Virtual Forge CodeProfiler is also "SAP Certified").
- Allows you to manage application testing and remediation for SAP applications with the same process and solutions applied to non-SAP applications.
- Allows developers and build managers to integrate application security testing from within their development or build environment.

### Key prerequisites

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

### Planned availability date

July 27, 2012: Electronic delivery

### Description

**What is Virtual Forge CodeProfiler for IBM Security AppScan Source**

Virtual Forge CodeProfiler provides automated application security testing for SAP ABAP applications. It helps organizations secure their SAP ABAP applications.

**How Virtual Forge CodeProfiler works**

Virtual Forge CodeProfiler is based on static code analysis. This means that each line of the SAP ABAB source code is analyzed. The solution is anchored by a security knowledgebase containing the attack surface and profile of relevant insecure coding practices for ABAP. The knowledgebase, combined with a unique analysis engine, allows Virtual Forge CodeProfiler to find security risks and vulnerabilities. CodeProfiler is "SAP Certified."

**What it does**

Key features and benefits of Virtual Forge CodeProfiler:

- Provides data flow trees for compliance testing (for example, determine which code accesses a credit card number)
• Identifies back doors potentially built into clients' business solutions
• Provides detailed background information and remediation assistance for all identified security issues
• Accelerates remediating vulnerabilities by proposing code corrections

**How Virtual Forge CodeProfiler works with IBM Security AppScan Source**

Virtual Forge CodeProfiler is integrated with IBM Security AppScan Source, enabling centralized enterprise management of the security of all SAP ABAP applications. The CodeProfile solution extends the language support and reach of IBM Security AppScan Source to SAP ABAP. The analysis results from CodeProfiler can be imported into IBM Security AppScan Source. ABAP-specific remediation assistance and vulnerability types are added to IBM Security AppScan Source to provide consistent and comprehensive vulnerability management.

**Product positioning**

Virtual Forge CodeProfiler for IBM Security AppScan Source extends application security and performance testing to cover SAP applications. Like other applications, and especially web applications, custom SAP applications often include security vulnerabilities that provide an easy path for hackers to access or steal sensitive corporate information. Virtual Forge CodeProfiler for IBM Security AppScan Source enables enterprises to integrate application security testing from within their development or build environment, so vulnerabilities can be corrected before applications are launched.

**Program number**

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**Offering Information**

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

**Publications**

No publications are shipped with these products.

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 US) 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**

Processor: AMD64, EM64T 64-bit mode compatible dual core CPU (quad-core or 2x dual-core recommended)

Memory: 4 GB RAM

For large-scale code scans (for example, a complete SAP server), the memory requirements increase to a minimum of 8 GB RAM.

Disk space: 50 GB

**Software requirements**

Operating systems

- 64 bit Red Hat Enterprise Server 5
- 64 bit Red Hat Enterprise Server 6
- 64 bit SUSE Linux™ Enterprise Server 11
- Microsoft™ Windows™ Server 2003 R2 x64
- Microsoft Windows Server 2008 R2 x64

Additional software

- Oracle Java™ 64-bit version JRE 1.6.29, 1.6.30, or 1.6.31*
- PDF Reader (Adobe™ Reader 8.x or later is recommended)
  * Newer Java versions will be tested when available and customers will be informed if the version is supported.

Optional software:

- Install the SAP Java Connector (SAP JCo) 3.0.8 for processing scenarios via RFC. SAP JCo files are mandatory for all online scans and for SAP Transport Management System Integration.
- SAP JCo for Linux:
  - sapJCo3.jar
  - libsapJCo3.so
- SAP JCo for Windows:
  - sapJCo3.jar
  - sapJCo3.dll
  - .NET Framework 2.0 SP1
  - Visual C++ 2005 Service Pack 1 Redistributable Package
  - ATL Security Update

Virtual Forge CodeProfiler

- All SAP systems with an ABAP stack based on SAP basis releases between 6.20 and 7.10 are supported.

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.
Planning information

Customer responsibilities

Technical support for this product must be purchased via IBM Elite Support which is part of IBM Selected Support Offerings (support-only offering for designated products that are not IBM products).

Refer to the IBM Software Support Handbook - Support Portfolio - IBM Selected Support Offering at


Packaging

Fulfilled by Virtual Forge.

This program, when downloaded from a website, contains the applicable license agreement and license Information, if appropriate, and will be presented for acceptance at the time of installation of the program.

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

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For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

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Definitions of Authorized User and Install are in the Virtual Forge end user license agreement provided with the product.

**Passport Advantage**

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IBM Elite support for Virtual Forge CodeProfiler Technology (5725-E03)

IBM Elite support for CodeProfiler for AppScan Source Install, Unlimited Contacts, SW Support 12 months D0JXELL

Elite support for CodeProfiler for SAP Change and Transport System Install, Unlimited Contacts, SW Support 12 Mos D0S8GLL

Elite support for CodeProfiler for SAP BI Dashboard Install, Unlimited Contacts, SW Support 12 Mos D0S8HLL

Virtual Forge CodeProfiler Content Package (5725-E02)

Virtual Forge CodeProfiler for Security Per 1000 AU, 3rd party offering D0JXYLL

Virtual Forge CodeProfiler for Performance Per 1000 AU, 3rd party offering D0JXZLL

Virtual Forge CodeProfiler for Code Quality per 1000 Authorized Users, 3rd Party Offering D0S8ELL

Virtual Forge CodeProfiler for Data Loss Prevention per 1000 Authorized Users, 3rd Party Offering D0S8FLL

Virtual Forge CodeProfiler Technology (5725-E01)

Virtual Forge CodeProfiler for AppScan Source Per Install 3rd party offering D0JXXLL

Virtual Forge CodeProfiler for SAP Change and Transport System Per Install 3rd Party Offering D0S8CLL

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