

Virsa Compliance Calibrator

Virsa Compliance Calibrator is an internal, permanent system auditor. For example, when a user is authorized to create an order and check invoices, Virsa Compliance Calibrator reacts in real time. It uses stored rules (the result of ten years of auditing experience) to identify a potential risk and notifies the person responsible for the procure-to-pay business process.

Virsa Compliance Calibrator also suggests solutions. For example, the risk of misuse can be lessened by separating duties when checking invoices. And independent of that kind of supplemental, manual process, the risk of misuse is now known, so the company can consider alternative approaches. Does the user really have to be allowed to create orders and check invoices? Might it be enough to check invoices for more than 10,000 Euros according to separation of duties?

A set of rules is the core of Virsa Compliance Calibrator. The rules cover about 200 risks that are derived from several thousand standard transactions in SAP software. The risks are classified according to business processes, such as procure to pay or order to cash. Virsa Compliance Calibrator was programmed in ABAP and can be imported directly into the my [SAP ERP](#) application with a transport request.

The screenshot displays the SAP Compliance Calibrator by Virsa interface. The top navigation bar includes tabs for Informer, Rule Architect, Mitigation, Alert Monitor, Configuration, and Business Workplace. The main content area is titled "Risk Analysis - Detail Report" and shows a table of risks for User Id: Brad Jones (BJONES) and User Group: ACCOUNTING. The table lists various risk descriptions, levels, transactions, systems, and roles. A sidebar on the left contains a tree view for Management View, Risk Analysis, Audit Reports, and Security Reports. The bottom left corner has a "Report Builder" link.

Risk Description	Level	Transaction	System	Role
F001001: Maintain fictitious GL account & hide activity via postings	High	Enter G/L Account Posting (F-02)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001001: Maintain fictitious GL account & hide activity via postings	High	Post Journal Entry (GLXJEPST)	Oracle Financials	AX Post Journal Entries
F001002: Maintain fictitious GL account & hide activity via postings	High	G/L acct master record maintenance (FS00)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001002: Maintain fictitious GL account & hide activity via postings	High	Post Journal Entry (GLXJEPST)	Oracle Financials	AX Post Journal Entries
F001003: Maintain fictitious GL account & hide activity via postings	High	Enter G/L Account Posting (F-02)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001003: Maintain fictitious GL account & hide activity via postings	High	G/L acct master record maintenance (FS00)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001004: Maintain fictitious GL account & hide activity via postings	High	Create Master Record in Chart/Accts (FSP1)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001004: Maintain fictitious GL account & hide activity via postings	High	Create Master Record (FS01)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001005: Maintain fictitious GL account & hide activity via postings	High	Create Master Record (FS01)	SAP ERP	Z_AP_SUPERVISOR: AP: Supervisor
F001005: Maintain fictitious GL account & hide activity via postings	High	Post Journal Entry (GLXJEPST)	Oracle Financials	AX Post Journal Entries

Rules of Virsa Compliance Calibrator

At first, the rules do not recognize Z transactions – the transactions created by SAP customers to meet specific needs. These transactions must be added to enable a comprehensive view of all possible combinations of transactions and the related risks. For example, if an SAP customer has simplified the screen template for order creation with an in-house transaction, system audits must also consider the new transaction.

If the Z transaction involves comprehensive, in-house development, the company should consult with an external system auditor about possibly critical combinations of transactions and the resulting risks. After that kind of inspection, customer-specific Z transactions can be stored in the automated rules for permanent, real-time checks.

Virsa Role Expert

Virsa Role Expert is a profile generator that can be used to create and manage roles. IT authorization concepts generally work very technically with transactions, but Virsa Role Expert deals with this content in a language and with an interface that both IT departments and user departments can understand.

Descriptors like "MIRO," "MIGO," and "FB03" hide transactions for invoice verification, goods receipt, or document display. An individual role, Z_INVOICE – invoice verification – bundles these examples and makes them available for the collective role of vendor management.

The screenshot displays the Virsa Role Expert web application. The interface includes a top navigation bar with the Virsa logo, the title "Role Expert™", a user greeting "Welcome Dave Roberts", and links for "Help | About | Logout". Below the navigation bar, there are tabs for "Role Expert" and "Configuration". The left sidebar contains a menu with options: "Role Library", "Role Designer", "Roles", "Org. Level", "Change History", "Mass Maintenance", and "Reaffirm Roles". The main content area is titled "Role Details" and features a workflow progress bar with steps: Definition, Authorization, Derivation, Risk Analysis, Approval (highlighted), Generation, Testing, and Assignment. Below the progress bar, role details are displayed in two columns:

System:	SAP ERP	Process:	Finance
Role Name:	Z_AP_SUPERVISOR	Sub-Process:	Accounts Payable
Description:	Accounts Payable Supervisor	Project/Release:	RE 1.0
Type:	Single	Reaffirm Period:	6
Critical Level:	Yes	Last Reaffirm Date:	10/24/05

Below the details, there is a table with tabs for "Detailed Description", "Functional Area", "Approvers", "Custom Attributes", "Org Levels", "Risk Violations", and "Test Results". The "Test Results" tab is active, showing a table with columns: Date, Time, Tested By, Test Case, and Test Result Description.

Date	Time	Tested By	Test Case	Test Result Description
1/22/2005	12:03:22	Brad Jones (BJONES)	Test the addition of the transaction: SU01 to the role: Z_AP_SUPERVISOR	Transaction SU01 was added, and the risk: F001002 was mitigated on 1/22/05
3/22/2005	16:11:37	Calvin Perkins (CPERKINS)	Test the users assigned to the role: 'Z_AP_SUPERVISOR' and performed the risk analysis (User level - object + tcode levels)	Tested successfully

At the bottom of the main content area, there are buttons for "Authorization Data", "Risk Analysis", "Compare", "Derived Roles", "Change History", and "Generate". The bottom status bar shows "Done" and "Internet".

Definition of Roles with Virsa Role Expert

These descriptions can be used to document the design of new roles together with user departments and check them with Virsa Compliance Calibrator in real time. An easy-to-understand, Web-based workflow enables user departments to evaluate authorization queries and assign them in the system. This approach requires a uniform

design of roles (even beyond the confines of individual systems), proactive evaluation of risks, and central documentation for the system auditor.

Virsa Access Enforcer

Virsa Access Enforcer can then assign the roles and authorization profiles to users with a simple workflow. If clerks in customer accounting are given additional assignments from vendor accounting, they can then request the vendor management and invoice verification roles for themselves.

The request goes to the supervisor in the user department, who can perform a brief risk analysis with Virsa Compliance Calibrator to document and then either approve or deny the request. No employees from the IT department need to become involved. The IT department simply monitors all requests for new authorization and documents the procedures for the system auditor.

The screenshot displays the Virsa Access Enforcer web application. At the top, there are tabs for 'Access Enforcer', 'Informer', 'Administration', and 'Configuration'. The 'Access Enforcer' tab is active. On the left, a sidebar menu lists various actions: 'Request for Approval', 'Create Request', 'Search Request', 'Request on Hold', 'Approver Delegation', 'Copy Request', 'Request Audit Trail', and 'Reaffirms'. The main content area shows a 'Request No : 4010'. Below this, there are two sections: 'General Information' and 'Roles/Profiles'. The 'General Information' section is divided into 'User Data' and 'Requestor and Manager Data'. The 'User Data' section includes fields for User (Wong,May), E-Mail (ermenduser@virsa systems.com), Telephone ((510)-651-5990), Location (United States Headquarter), Employee Type (Regular), Request Type (New), and Priority (High). The 'Requestor and Manager Data' section includes fields for Requestor (Wong,May), E-Mail (ermenduser@virsa systems.com), Manager (Fox Wilson), and E-Mail (ermuser@virsa systems.com). Below these sections, there is a table titled 'Roles/Profiles' with columns for 'System', 'Role/Profile Name', 'Type', 'Role/Profile Description', 'Valid From', 'Valid To', and 'Owner'. The table contains three rows of data: 'System' (checked), 'ERP' (checked), 'Z_AP PAYABLE' (checked), 'Vendor Invoice Processor', '7/22/2005', '12/31/9999', and 'BLAW'. The second row is 'ERP' (checked), 'Z_AP SUPERVISOR' (checked), 'Accounts Payable Supervisor', '7/22/2005', '12/31/9999', and 'CPERKINS'. At the bottom of the interface, there are buttons for 'Approve', 'Reject', 'Hold', 'Risk Analysis', 'Select Roles', and 'Select PD Profiles'.

System	Role/Profile Name	Type	Role/Profile Description	Valid From	Valid To	Owner
<input checked="" type="checkbox"/>	ERP	<input checked="" type="checkbox"/>	Z_AP PAYABLE	7/22/2005	12/31/9999	BLAW
<input checked="" type="checkbox"/>	ERP	<input checked="" type="checkbox"/>	Z_AP SUPERVISOR	7/22/2005	12/31/9999	CPERKINS

Assignment of Roles with Virsa Access Enforcer

The request goes to the supervisor in the user department, who can perform a brief risk analysis with Virsa Compliance Calibrator to document and then either approve or deny the request. No employees from the IT department need to become involved. The IT department simply monitors all requests for new authorization and documents the procedures for the system auditor.




Virsa FireFighter for SAP

Companies often find it necessary to work with an emergency user for a limited time. For example, if the employees who normally work with vendor accounting are on vacation or on sick leave, a clerk who normally verifies invoices might have to take over the work temporarily. Virsa FireFighter for SAP can give this user comprehensive authorizations and access to the payment program for a brief period.

Firefighter

Firefight ID	FirefightID Owner	Status	Description	FF ID Used By	Message t	Log on usi
O2C_FF	CTHEISINGER	OO	ORDER TO CASH FIREFIGHTER		Message	Log on
SALES_FF	ERIK	OO	SALES ORDER PROCESS SUPPORT		Message	Log on
VIRSA_FF	ERIK	OO	ACCESS TO ALL VIRSA APPLICATION		Message	Log on

Firefighters Log Report

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FirefightId	Firefighter	Session Date	Session Time	Reason	Activity		
Date	Time	Server Name	Transaction	Report Name	Report Title		
TCode	Time	Change Document	Table	Field Text	Old Value	New Value	
AP_FF	TNEACY	12.07.2005	12:10:09	CHECK VENDOR MASTER FOR VENDOR V-1000	TRANSACTION FK02		
AP_FF	TNEACY	14.07.2005	14:21:01	CHECK VENDOR MASTER FOR VENDOR V-1000	TRANSACTION FK02		
14.07.2005	14:21:31	e47uci_E47_00	SMEN	RFC	Session Manager Menu Tree Display		
14.07.2005	14:21:46	e47uci_E47_00	FK02	RFC	Change Vendor (Accounting)		
14:22:12	BP 0000022315	ADRC	House Number	3004	3005		
14:22:12	V-1000	LFA1	House number and street	3004 Batavia Avenue	3005 Batavia Avenue		
14.07.2005	14:21:49	e47uci_E47_00	<adm message>				
SALES_FF	CTHEISINGER	13.07.2005	03:24:18	SALES ORDER SUPPORT FOR JAPAN	CHANGES SALES ORDER		
13.07.2005	03:24:18	e47uci_E47_00	RFC				
13.07.2005	03:24:25	e47uci_E47_00	SMEN	RFC	Session Manager Menu Tree Display		
13.07.2005	03:24:43	e47uci_E47_00	VA02	RFC	Change Sales Order		
SALES_FF	ERIK	14.07.2005	10:15:14	SUPPORT A CRITICAL SALES ORDER	VA02		

Virsa FireFighter for SAP: Use and Log

The actions of the emergency user are recorded in detail and for a long period of time – up to several years. The log can then be used to check the selection criteria of the payment run. Emergency users are also subject to an additional direct control. For example, if the invoice verification clerk sets up an emergency user for specific payments, the head of the financial department is notified. That's how companies can fight against misuse, but without losing the flexibility they need.

By working together, Virsa Compliance Calibrator, Virsa Role Expert, Virsa Access Enforcer, and Virsa FireFighter for SAP round out the options available to control access to and authorizations for SAP solutions.