

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 mySAP ERP application with a transport request.

Risk Analysis - Detail Report				
User Id: Brad Jones (BJONES)		User Group: ACCOUNTING		Cross System
Risk Description	Level	Transaction	System	Role
F001001: Maintain fictitious GL account & hide activity via postings	High	Enter GL 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	GL 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 GL Account Posting (F-02)	SAP ERP	Z_AP_SUPERVISOR: AP Supervisor
F001003: Maintain fictitious GL account & hide activity via postings	High	GL 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 shows the Virsa Role Expert application. At the top, there's a navigation bar with the Virsa logo, the title 'Role Expert™', and links for 'Welcome Dave Roberts', 'Help | About | Logout', and the SAP NetWeaver logo. On the left, a sidebar menu includes 'Role Library' (selected), 'Role Designer', 'Roles', 'Org. Level', 'Change History', 'Mass Maintenance', and 'Reaffirm Roles'. The main content area is titled 'Role Details' and shows a workflow step: Definition → Authorization → Derivation → Risk Analysis → Approval → Generation → Testing → Assignment. Under 'Definition', details for the role 'Z_AP_SUPERVISOR' are listed: 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 this is a 'Test Results' table:

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 interface are buttons for 'Authorization Data', 'Risk Analysis', 'Compare', 'Derived Roles', 'Change History', and 'Generate'. A status bar at the bottom right 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 shows the Virsa Access Enforcer application window. At the top, there's a navigation bar with tabs: 'Access Enforcer' (which is selected and highlighted in blue), 'Informer', 'Administration', and 'Configuration'. Below the navigation bar, the main area has a title 'Request No : 4010'. On the left side, there's a sidebar with a tree view containing nodes like 'Request for Approval', 'Create Request', 'Search Request', etc. The main content area is divided into sections: 'General Information' (User Data and Requestor and Manager Data), 'Roles/Profiles' (a table listing roles assigned to the user), and buttons at the bottom for 'Approve', 'Reject', 'Hold', etc.

System	Role/Profile Name	Type	Role/Profile Description	Valid From	Valid To	Owner
<input checked="" type="checkbox"/> ERP	Z_AP_PAYABLE		Vendor Invoice Processor	7/22/2005	12/31/9999	BLAW
<input checked="" type="checkbox"/> ERP	Z_AP_SUPERVISOR		Accounts Payable Supervisor	7/22/2005	12/31/9999	CPERKINS

Assignment of Roles with Virsa Access Enforcer

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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	Firefight ID 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

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.