

**User Guide** 

# Risk Terminator™ Version 4.0

with Compliance Calibrator for SAP

Note: The actual application will display V1.2 This was the version number before SAP rebranding.



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# PREFACE

### TOPICS COVERED IN THIS PREFACE

About this Guide Conventions Alert Statements Product Documentation Documentation Formats Installation Guide, Configuration Guide, User Guide, and Release Notes Online Help Contacting Virsa Systems

## About this Guide

### Conventions

The following conventions are observed throughout this document:

- **Bold** sans-serif text is used to designate file and folder names, dialog titles, names of buttons, icons, and menus, and terms that are objects of a user selection.
- **Bold** text is used to indicate defined terms and word emphasis.
- Italic text is used to indicate user-specified text, document titles, and word emphasis.
- Monospace text (Courier) is used to show literal text as you would enter it, or as it would appear onscreen.

### **Alert Statements**

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The alert statements—Note, Important, and Warning—are formatted in the following styles:

Note I	nformation that is related to the main text flow, or a point or tip provided in addition to the previous statement or instruction.
Importa	ant Advises of important information, such machine or data error that could occur should the user fail to take or avoid a specified action.
Warnin	g Requires immediate action by the user to prevent actual loss of data or where an action is irreversible, or when physical damage to the machine or devices is possible.

## **Product Documentation**

### **Documentation Formats**

Documentation is provided in the following electronic formats:

- Adobe® Acrobat® PDF files
- Online help

You must have Adobe® Reader® installed to read the PDF files. Adobe Reader installation programs for common operating systems are available for free download from the Adobe Web site at www.adobe.com.

### Installation Guide, Configuration Guide, User Guide, and Release Notes

You can download the Installation Guide, Configuration Guide, User Guide, and Release Notes in PDF format.

### **Online Help**

You can access online help by clicking the **Help** link from within the application.

## **Contacting Virsa Systems**

For information on contacting Virsa Systems, refer to the table below or the Virsa Web site www.virsa.com.

If you have any questions about the Risk Terminator application, framework and its components, or would like to report a problem, please contact Virsa Global Support Services.

Phone/Fax Num	bers	E-mail Address	Postal Mail Address
Within U.S.	1-888-847-7217 (1-888-VIRSA-17)	support@virsa.com	47257 Fremont Boulevard Fremont, CA 94538
Outside U.S.	1-877-847-7268 (1-877-VIRSA-68)		USA
Direct Line	510-580-1079		
Fax	510-580-1414		

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# **RISK TERMINATOR** SEGREGATION OF DUTIES

TOPICS COVERED IN THIS CHAPTER

Introduction

Segregation of Duties (SoD) Concept

Risk Terminator is an Advanced Business Application Programming (ABAP) based solution that works with SAP's Role Generator and User Assignment. Risk Terminator employes best practices to ensure that role generator and user assignment does not introduce risk through Segregation of Duties (SoD).

It helps Role Owners and Security Administrators create and maintain role definitions and identify potential Audit and SoD issues.

### Segregation of Duties (SoD) Concept

SoDs are a primary internal control intended to prevent, or decrease the risk of errors or irregularities, identify problems, and ensure corrective action is taken. This is achieved by ensuring no single individual has control over all phases of a business transaction.

There are four general categories of duties:

- Authorization
- Custody
- Record keeping
- Reconciliation

In an ideal system, different employees perform each of these four major functions. In other words, no one employee has control of two or more of these responsibilities. The more negotiable the asset, the greater the need for proper SoDs - especially when dealing with cash, negotiable checks and inventories.

There are business processes where SoDs are extremely important. For example, in cash handling. Cash can be 'liquified' without leaving an auditable trail. Any department that accepts cash funds, has access to accounting records, or has control over any type of liquid asset should be concerned with SoDs. Some examples of incompatible duties are:

- Authorizing a transaction and receiving and maintaining custody of the asset that resulted from the transaction.
- Receiving payments and approving write-offs.
- Depositing cash and reconciling bank statements.
- Approving time cards and having custody of pay checks.

SoDs can be quite challenging to achieve in a small operation. It is not always possible to have enough personnel to properly segregate duties. In those cases, management needs to take a more active role to achieve separation of duties and check the work done by others or using other Mitigating Controls.

# 2

# **OVERVIEW**

TOPICS COVERED IN THIS CHAPTER

Introduction Configuring Risk Terminator

This manual describes the Risk Terminator version 4.0 features and functionality running on SAP 4.6c and higher.

Risk Terminator, running PFCG, provides real-time reporting during role management and user assignment. When you create or modify a role and introduce a risk, Risk Terminator's reporting screens display the SoD.

Risk Terminator uses Compliance Calibrator's Transaction Code Rules and Authorization Object Rules Tables to determine if a SoD is being introduced to roles or users. Risk Terminator also uses Compliance Calibrator's Critical Transactions Table to check for any critical transactions being added to a role or assigned to a user.

### **Configuring Risk Terminator**

Risk Terminator is activated through the Compliance Calibrator. You can setup the configuration options in Compliance Calibrator for any of the following:

- **PFCG Plug-in** Generates a role. This option must be set to **Yes** to start Risk Terminator.
- **PFCG User Assignment Plug-in** Assigns users to a role. This option must be set to **Yes** for assigning users to a role.
- **SU01 Role Assignment Plug-in** Assigns a role to a user. This option must be set to **Yes** for assigning a role to a user.
- **SU10 Multiple User Role Assignment Plug-in** Assigns multiple roles to a user. This option must be set to **Yes** for assigning multiple roles to a user.

**Note** The default value for all above configuration options is **No**.

Refer to the Compliance Calibrator User Manual for more information on Compliance Calibrator configuration options.

In addition to setting the Compliance Calibrator configuration option, Risk Terminator has its own configuration screen.

To view the configuration option screen displayed below, enter the following transaction code into the command field /n/VIRSA/ZRTCNFG and click **Enter**.





Figure 1 Risk Terminator Configuration Screen

### Field Definitions

- **Stop generation if violations exist** This field can be set to **YES** or **NO**. If it is set to **NO**, Role generation/User assignment using PFCG and User assignment using SU01 or SU10 is not affected.
- **Comments are required in case of violations** This field can be set to **YES** or **NO**. If it is set to **YES**, you are prompted to enter comments before continuing with Role generation/User assignment in PFCG or User assignment using SU01 or SU10. The information from the comments field can be viewed using the Risk Terminator Log Report.
- Send notification in case of violations This field can be set to YES or NO. If it is set to YES and you also check the Risk Owner checkbox an email is sent to the Risk Owner.

Risk Owners are defined through the **Compliance Calibrator Alerts Module Email Configuration** screen. If a Risk ID is associated with an email address specified in the Email Configuration screen, an email is sent to that email address. If no email address is associated with a Risk ID identified through Risk Terminator, no notification is sent to the Role Owner. Refer to your *Compliance Calibrator User Manual* for more information on using the email configuration screen.

**Note** The Notify role owner functionary of the Send Notification in case of violations option will be available in a future release.

 $\checkmark$ 

- **Default Analysis Level** You can choose either TCode-level or Object-level analysis as the default. When Risk Terminator performs the Risk Analysis (when you click the Change authorization data button on the PFCG Authorizations tab), this field specifies the type of analysis performed.
  - **Note** The Default Analysis Level setting determines what level of SoD is reported by Risk Terminator. If the Default Analysis Level is set to Object Level Analysis, Risk Terminator will report Object-Level SoDs. On the report screen there is an option to perform TCode-level analysis and toggle between each report.

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# **USING RISK TERMINATOR**

### TOPICS COVERED IN THIS CHAPTER

#### Introduction

When Transactions Are Added to a Role and the Role is Generated Using PFCG When User(s) Are Assigned to a Role Using PFCG When Role/Profile is Assigned to a User Using SU01 When Role/Profile is Assigned to User(S) Using SU10

Risk Terminator is activated in the following four cases:

- 1 When Transactions Are Added to a Role and the Role is Generated Using PFCG
- 2 When User(s) Are Assigned to a Role Using PFCG
- 3 When Role/Profile is Assigned to a User Using SU01
- 4 When Role/Profile is Assigned to User(S) Using SU10

A Risk Terminator report screen is displayed when you add any transactions using the **Menu** tab in PFCG and click the **Change Authorization Data** button or when you add transactions through the **PFCG Authorizations** screen and click the **Generate** button.

### When Transactions Are Added to a Role and the Role is Generated Using PFCG

When Risk Terminator is enabled, through the Compliance Calibrator's PFCG Plug-in configuration option, the following steps are added to the PFCG Role generation process:

- 1 Add transactions through the **PFCG** menu tab.
- 2 Click Change Authorization Data on the Authorizations tab.

The **Risk Terminator** report screen appears.

ation Continue Profile Generation			
alysis Type T Tcode Level Analysis SOD Violations	Role : VAP006:PROC_DOWN_PAY>000-	MODL	
Conflicting Transactions	Risk Description	Risk Level	-
Post with Clearing (F-04) and Post Document (FB01)	S026008 : Maintain an invoice and enter or change payments against it	High	
Post Document (FB01) and Post with Clearing (F-04)	P003096 : Create fictitious vendor invoice and initiate payment for it	High	
Post Document (FB01) and Post Outgoing Payments (F-53)	P003103 : Create fictitious vendor invoice and initiate payment for it	High	
Post Document (FB01) and Clear Vendor Down Payment (FBA8)	P003111 : Create fictitious vendor invoice and initiate payment for it	High	
Change Bank (FI02) and Post with Clearing (F-04)	F005020 : Maintain bank account and post a payment from it	High	
Change Bank (FI02) and Post with Clearing (F-04)	F017014 : Maintain bank account and divert incoming payments	High	
Change Bank (FI02) and Post Outgoing Payments (F-53)	F005027 : Maintain bank account and post a payment from it	High	-
Change Bank (FI02) and Clear Vendor Down Payment (FBA8)	F005035 : Maintain bank account and post a payment from it	High	
GA_acct master record in chrt/accts (FSP0) and Post with Clearing (F-04)	F001083 : Maintain fictitious GL account & hide activity via postings	Medium	
G/L acct master record in chrt/accts (FSP0) and	F022046 : Maintain fictitious GL account & hide activity via currency or tax postings	Medium	



**3** Click **Continue Profile Generation** to continue Role generation.

🖻 Risk Terminator Warı	ning	
User Assignment is (	causing SOD Violations	)
Please select an opti	on.	
Discont Observation	O sultana l	
Discard Changes	Continue	

Figure 3 Risk Terminator Warning

The following options are displayed:

✓

- Continue If you click Continue, the PFCG Authorizations screen is displayed and any changes you have made through the Menu tab are included when you generate the Role.
- Discard Changes If you click Discard Changes, PFCG is exited and any modifications you have made to your Role are discarded. You must start the process over.
- Mitigation If you click Mitigation, the Compliance Calibrator's Mitigation Controls module is displayed. Refer to the *Compliance Calibrator User Manual* for more information about using the Mitigation Controls module.

From the **Mitigation Controls** module, you can search for an existing mitigation control for the Risk ID displayed on the **Risk Terminator** report screen, or you can create a new mitigation control, and then mitigate the risk by assigning controls to the Role. Click **Back** to return to the **Risk Terminator** screen.

Once you have mitigated any risks, click **Continue Profile Generation** to go to the **Authorizations** screen.

**Note** Risk mitigation does not affect Risk Analysis reports. If you make additional modifications to a Role, any SoDs previously mitigated are included in the Risk Analysis report generated by Risk Terminator. For more reporting options, see the *Compliance Calibrator User Manual*.

4 In the Authorizations screen, click Generate. The following window is displayed.

🖻 Generate profile	$\square$
	Generate
There are open authorizations	Post-maint.
	🗙 Cancel

Figure 4 Generate profile dialog

**5** Click **Generate** and the following **Risk Terminator** screen is displayed. You can mitigate any reported SoDs.

tion Detail View Continue Profile Ger	eration	
lysis Type D Object Level Analysis SOD Violations Critical Transactions	Execute     Role : VAP006:PROC_DOW	N_PAY≻000-MODL
Conflicting Transactions	Risk Description	Risk Level
Post with Clearing (F-04) and G/L acct master record in chrt/accts (FSP0)	F00108301 : Maintain fictitious GL account & hide activity via postings	Medium
Post Document (FB01) and G/L acct master record in chrt/accts (FSP0)	F00109401 : Maintain fictitious GL account & hide activity via postings	Medium
G/L Acct Pstg: Single Screen Trans. (FB50) and G/L acct master record in chrt/accts (FSP0)	F00110001 : Maintain fictitious GL account & hide activity via postings	Medium
Post with Clearing (F-04) and Change Master Record in Chart/Accts (FSP2)	F00113701 : Maintain fictitious GL account & hide activity via postings	Medium
Post Document (FB01) and Change Master Record in Chart/Accts (FSP2)	F00114801 : Maintain fictitious GL account & hide activity via postings	Medium
G/L Acct Pstg: Single Screen Trans. (FB50) and Change Master Record in Chart/Accts (FSP2)	F00115401 : Maintain fictitious GL account & hide activity via postings	Medium
Post with Clearing (F-04) and Change Bank (FI02)	F00502001 : Maintain bank account and post a payment from it	High
Clear Vendor (F-44) and Change Bank (FI02)	F00502401 : Maintain bank account and post a payment from it	High
Post Outgoing Payments (F-53) and Change Bank (FI02)	F00502701 : Maintain bank account and post a payment from it	High
Clear Vendor Down Payment (FBA8) and Channe Bank (EID2)	F00503501 : Maintain bank account and post a payment from it	High

Figure 5 Risk Terminator Transaction Code Level Risk Analysis Report

6 Click Continue Profile Generation to display the following Authorizations screen.

🖙 Risk Terminator Warn	ing	
Role changes are cau	sing SOD violations.	
Please select an optic	in.	
Discard Changes	Continue Simulation	Generate
Discard Changes	Continue Simulation	Generate

Figure 6Risk Terminator Warning

- **7** Click **Discard Changes** to discard any modifications you have made to the Role and display the initial PFCG screen.
- 8 Click **Continue Simulation** to close the prompt and leave you in the **Authorizations** screen to continue making modifications. When you click **Generate** again, the **Risk Analysis** report screen is displayed to continue the process.
- 9 Clicking Generate to display the prompt displayed in Figure 7 on page 19:

**Note** The following prompt is displayed if the role is generated with violations configuration option set to **YES**.

J

🖻 Risk Terminator Comment	
Please specify the reason for generating role that is causing SOD Violations	
Continue Back	

Figure 7 Logging a Reason for Causing an SoD Violation

**10** Enter a justification for creating the SoD and click **Continue**. You can review the log of reasons by running the Risk Terminator report.

### When User(s) Are Assigned to a Role Using PFCG

When you assign users using the **User** tab in PFCG and click **Save**, Risk Terminator checks for violations and if any are found the report screen is displayed as shown next.

mpliance Calibrator Risk Te	rminator		
gation Continue User Save			
Trode Level Analysis	Evenute		
aliysis type	Execute		
SOD Violations Critical Transaction	15		
User : CBARBONE			
Conflicting Transactions	Risk Description	Risk Level	()-
Create asset transactions (AB01) and Enter Vendor Credit Memo (F-41)	F006001 : Pay a vendor invoice and hide it via asset depreciation	High	
Create asset transactions (AB01) and Post Document (FB01)	F006006 : Pay a vendor invoice and hide it via asset depreciation	High	
Create asset transactions (AB01) and Change Document (FB02)	F006007 : Pay a vendor invoice and hide it via asset depreciation	High	
User : JCARRAY			
Conflicting Transactions	Risk Description	Risk Level	
Create asset transactions (AB01) and Enter Vendor Credit Memo (F-41)	F006001 : Pay a vendor invoice and hide it via asset depreciation	High	
Create asset transactions (AB01) and Post Document (FB01)	F006006 : Pay a vendor invoice and hide it via asset depreciation	High	
Create asset transactions (AB01) and Change Document (FB02)	F006007 : Pay a vendor invoice and hide it via asset depreciation	High	
Create asset transactions (AB01) and Goods movement (MIGO)	F007003 : Create an invoice via ERS GR & hide via asset depreciation	High	
Goods movement (MIGO) and Transfer Posting (MB1B)	M030036 : Goods Receipts to PO & Goods Movements	Low	

Figure 8 Risk Terminator Transaction Code Level Risk Analysis Report

If you click **Continue User** the following prompt is displayed.

ning	
causing SOD Violations	
ion.	
Continue	
	ning causing SOD Violations ion. Continue

Figure 9 Risk Terminator Warning

- 1 Click **Discard Changes** to discard any user assignment you have made to the Role.
- 2 Click **Continue** to display the prompt as shown in Figure 7.

### When Role/Profile is Assigned to a User Using SU01

When you assign a Role/Profile to a user using the **SU01** transaction and click **Save**, Risk Terminator checks for violations and if any are found the report screen is displayed as shown next.

ipliance calibrator Risk Te	minator	
ation Detail View Continue Role/Profi	le Assignment	
alysis Type Tcode Level Analysis SOD Violations Critical Transaction	Execute User: RSMITH	
Conflicting Transactions	Risk Description	Risk Level
Create Master Record (FS01) and Post Document (FB01)	F001025 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and Reverse Document (FB08)	F001027 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and Change Line Items (FB09)	F001028 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and nvoice/Credit Fast Entry (FB10)	F001029 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and G/L Acct Pstg: Single Screen Trans. (FB50)	F001032 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and Cash Journal (FBCJ)	F001033 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and Enter Recurring Entry (FBD1)	F001034 : Maintain fictitious GL account & hide activity via postings	Medium
Create Master Record (FS01) and	F001035 : Maintain fictitious GL account & hide activity via postings	Medium

Figure 10 Risk Terminator Transaction Code Level Risk Analysis Report

If you click **Continue Role/Profile Assignment** the following prompt is displayed.

📴 Risk Terminator Warr	ning	
User Assignment is a	ausing SOD Violation	s
Please select an opti	on.	
Discard Changes	Continue	

Figure 11 Risk Terminator Warning

- 1 Click **Discard Changes** to discard any Role/Profile assignment to the user.
- 2 Click **Continue** to display the prompt as shown in Figure 7.

### When Role/Profile is Assigned to User(S) Using SU10

When you assign Role/Profile to User(s) using the **SU10** transaction and click **Save**, Risk Terminator checks for violations and if any are found, the report screen is displayed as shown next.

tion Detail View Continue Role/Profi	le Assignment	
lysis Type Tcode Level Analysis SOD Violations Critical Transaction	5 Execute	
User : CBARBONE		
Conflicting Transactions	Risk Description	Risk Level
Create asset transactions (AB01) and Enter Vendor Credit Memo (F-41)	F006001 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Post Document (FB01)	F006006 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Change Document (FB02)	F006007 : Pay a vendor invoice and hide it via asset depreciation	High
User : JSMITH		
Conflicting Transactions	Risk Description	Risk Level
Create asset transactions (AB01) and Enter Vendor Credit Memo (F-41)	F006001 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Post Document (FB01)	F006006 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Change Document (FB02)	F006007 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Invoice/Credit Fast Entry (FB10)	F006008 : Pay a vendor invoice and hide it via asset depreciation	High
Create asset transactions (AB01) and Cancel Invoice Document (MR8M)	F006024 : Pay a vendor invoice and hide it via asset depreciation	High
Create Vendor (Accounting) (FK01) and		

Figure 12 Risk Terminator Transaction Code Level Risk Analysis Report

If you click Continue Role/Profile Assignment the following prompt is displayed.

🖻 Risk Terminator Warr	ning 🛛 🛛
User Assignment is o	ausing SOD Violations
Please select an opti	on.
Discard Changes	Continue

Figure 13 Risk Terminator Warning

- 1 Click **Discard Changes** to discard any Role/Profile assignment to the user.
- 2 Click **Continue** to display the prompt as shown in Figure 7.



# RISK TERMINATOR LOG REPORTS

TOPICS COVERED IN THIS CHAPTER

Introduction

The Risk Terminator Log report displays the log created when you enter reasons for generating a Role with SoDs.

To run this report type the following transaction code in the command field: /n/VIRSA/ZRTRGLOG.

<b>Risk Terminator Gen</b>	eration Log			
•				
Risk Terminator Generation Log	/			
Role		0		\$
User		to		\$
Generated By		to		-
Generation Date		to		-
Generation Time	00:00:00	to	00:00:00	<b></b>

Figure 14 Risk Terminator Log Report Form

Risk Ter	minator Log Entries	s		
Role liser	Generated By	Generation Date	Generation Time	Peason
JSMITH	ManjitSingh Atwal(MANJIT)	06/20/2005	10:52:23	This role is required for GL and will be mitigated.

Figure 15 Risk Terminator Log Report



# INSTALLING RISK TERMINATOR

TOPICS COVERED IN THIS APPENDIX

Introduction

Risk Terminator is an ABAP-based tool and is delivered to the customer as a group of transport files. This is the conventional delivery method for all add-on SAP software.

- Transport files are generally delivered in ZIP format. To install Risk Terminator, simply unzip and copy the Risk Terminator transport files on to your system.
- Please consult your Basis Administrator to install Risk Terminator in your system. Refer to OSS Note 13719 for more details on this procedure.
- If delivered with PAT files, Risk Terminator can be installed using the transaction SAINT. Unzip the PAT files and import into the system using the transaction SAINT.

Risk Terminator uses **PFCG** exits. You can also insert the following **SSM\_CUST** table entries manually using transaction **SM30**, as shown next:

Name	Value to be set	11
SAP_AFTER_PROF_GEN	WIRSA/Z_AFTER_PROF_GEN	
SAP_BEFORE_PROF_GEN	WIRSA/Z_BEFORE_PROF_GEN	•
SAP_EXIT_USERS_SAVE	WIRSA/Z_EXIT_USERS_SAVE	

Figure 16 Table Maintenance



# DELETING A ROLE LOCK

TOPICS COVERED IN THIS APPENDIX

Introduction

On rare occasions, Risk Terminator prevents modifications to a Role by locking certain tables. You can use the following log utility to remove the lock and continue generating your Role.

Enter transaction code /n/VIRSA/ZRTDELLOCK, and enter the name of the Role.



Figure 17 Risk Terminator Log Utility