HowTo

Configuration of the VSA with SAP NetWeaver 2004(s) ABAP



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Scan of SAR and CAR archives





SAP System Requirements

SAP Platforms

SAP NetWeaver 6.40 with support package 7 or more; for the ABAP engine with SAP-BASIS 640 support package 11 or more; for the J2EE engine with support package 13 or more SAP NetWeaver 2004s (7.0)

OS System Requirements

Operating systems Linux/Unix (32-bit/64-bit):

Red Hat Enterprise Linux 5 Server; Red Hat Enterprise Linux 4 Server; Novell SUSE Linux Enterprise Server 10 - 10.2; Novell SUSE Linux Enterprise Server 9; Debian GNU/Linux 4 (stable); Ubuntu Server Edition 8; Sun Solaris SPARC 9; Sun Solaris SPARC 10

Operating systems Windows (for 32-bit only):

Windows 2000 Server, SP4 recommended Windows 2000 Advanced Server, SP4 recommended Windows 2003 Server Windows Server 2008 (not for Core-Setup)

Important Transactions

Transactions:

sm59	\rightarrow	Configuration of the RFC connection
spro	\rightarrow	System administration of the SAP Netweaver
vscan	\rightarrow	Virus Scan Provider Definition
vscantrace	\rightarrow	directed Trace in case of virus attack
vscanprofile	\rightarrow	direct access to the definition of the virus scan profiles in the SAP system
vscangroup	\rightarrow	direct access to the definition of the virus scan groups in the SAP system
vscantest	\rightarrow	Test for the virus scan interface





What should be considered?

Important information about the specific configuration of ABAP:

For the installation of the RFC connection it is important that the name of the RFC destination begins with "VSCAN_". The virus scanner can only work with this beginning of the name.

In the menu "Technical settings -> program ID" the RFC destination has to be entered again.

The option "Registered server program" has to be chosen as kind of activation for the RFC destination.

The procedure is valid for the virus scan server via RFC destination.





How is the VSA connected to the SAP system (ABAP)?

How to define a new RFC destination with TCP/IP

Transaction SM59

RFC Edit Goto Extras Utilities System	n Help		
	0		Se la companya de la comp
Configuration of RFC Connect	ctions		
RFC Connections	Туре	Comment	
ABAP Connections	3		
HITP Connections to External Server	G		
Internal Connections			
D SNAUCH-C connections	5		
CALLTD WindowshiT	T	Transport Tables to Interface two protects	
CALLIP_WINDOWSNI	- -	Transport Loois: tp Interface "generated"	
		Can winnerp and winword from P03	
		Graphical Screen Painter (windowsin) / windowses)	
E FI_HELF_SERVER	т Т	Windows REC server for E1 help on fields, messages and command fields	
	т Т	Windows RFC server for F1 help on fields, messages and command fields	
CALL TO DEC DEST	т Т	Generated REC dectination for IGS	
	т т	Generated REC dectination for IGS	
	т т	Starte the Program 'BECEVEC' on Front End Machine	
	Ť	Pune rfrever for X terminale	
	Ť	Trans incexed for Alternitions	
	Ť	MDX Parser for ODBO B&PI	
B R3 WINDOWS SERVER	Ť	Deckton integration for Windows (WinWord 6.0)	
	Ť	SDD command mode dbmrfc	
SAPDE DEM DAEMON	т	SDB session mode dbmrfc	
SAPEORMS	т	REC server for executing a work item using a form	
	т	SAPGUI	
SAPHTTPA	т	Automatically Generated on 19991205	
SAPIRCONTROLLER	т	Information Repository Controller	
SAPIRPCFILETRANSFER	т	IR - PC FileTransfer RFC Server	
SAPJ2EE	т		
SAPKPROTP	т	Generated automatically on 20040325	
SAP_SCHEDULE_16	т	Date calendar update front-end	
SAP_SCHEDULE_32	т	Starts the update calendar sapkale.exe for the 32-bit GUI	
SAP_SSFATGUI	т	SSF on the SAPgui machine	
SERVER_EXEC	т	Starts Program 'RFCEXEC' on Application Server	
SLD_NUC	Т	Automatically generated for System Landscape Directory (SLD)	
SLD_UC	Т	Automatically generated for System Landscape Directory (SLD)	
VFOLDER	Т	Virtual folder for AL	
VSCAN_AVIRA_WIN	Т		
Connections via ABAP Driver	Х		

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Definition of an RFC Destination

Transaction SM59

[⊈ Connection Edit Goto Editas Utilities System Help	SAP
RFC Destination VSCAN AVIRA WIN	
Connection Test Unicode Test	
RFC Destination VSCAN AVIRA WIN	
Connection Type T TCP/IP Connection Description	
Description	
Description 2	
Description 3	
Administration Technical Rottings Logan & Recurity MDMD & Unicada Chaoral Ontions	
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Activation Type	
O start on Application sever © Kegistered server Program O Start on Explicit Host	
O Start on Front-End Work Station	
Registered Server Frogram	
Start Type of External Program	
Default Gateway Value Default Gateway Value	
O Remote Shell	
O Secure Shell	
CPLC Timeout	
O Default Gateway Value	
O speciny inneout 20 Demined value in seconds	
Gateway Options	
GatewayHost vmserr/ Delete	
Gatewaysernice saphwou	
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► Create an RFC connection of the type **T** in transaction SM59

You have to use the following name convention for the configuration of the scan server:

- VSCAN_<Hostname>, in case you want to start only one virus scan server on the host
- VSCAN_<Hostname>-<Number>, in case you want to start several virus scan servers on the host.

The figure is serially numbered and separated by a hyphen from the host name. Possible names are: VSCAN_HOST123, VSCAN_HOST345-1, VSCAN_HOST345-2 etc.





- ► Choose the kind of activation "Registered server program".
- ► Use the name of the RFC destination as program ID.

► Enter the address of the system gateway as gateway host and gateway service. In case you start the virus scan server via the computing center management system on an application server, choose the gateway of this application server.

This transaction 'spro' is the way to the system administration of the Netweaver

- Virus scanner group
- Virus scan server
- Virus scan profile

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Display IMG	
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Structure	
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✓ SAP NetWeaver	
Dereral Settings	
▷ Mobile infrastructure ▷ B. Business Intelligence	
Installation Services D Declarate Contract	
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System administration	
General Change & Transport System	
Analysis of Table Changes	
📴 🕸 Maintain Number Ranges for Application Log	
Weight Carl Section Framework	
Platform-Indegendent File Names	
Delle Data Archiving	
▷ Legy Users and Authorizations ▷ Search Ennine Senice	
Definition on initial menu	
📴 🕸 Set namespace for report tree migration and specific IMG activities	
General Contractions in web addresses (URLs) Contractions in the contraction set of the contraction set o	
Management of External Security Systems	
Directory Integration	
Virus Scan Interace Define Scanner Groups	
🗟 🚱 Define Virus Scan Servers	
Comparement bAG for Virus scanners	
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D 📴 Initial Data Transfer	
▷ Lay Test Workbench ▷ Dev Konstructer Management	
Cross-Application Components	
D Integration with Other mySAP.com Components	
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Definition of a virus scanner group

► Transaction 'vscangroup'

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Constructure	Scanner Groups				
Configuration Parameters	Scanner Group	Business Add-In	Group Text		
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Choose new entries.

You get to the menu new entries: Overview of added entries. Enter the data for the definition of the scanner group.

Scanner group: Freely definable name of the scanner group.

Business add-in: If this indicator is set, the program transfers the request for a virus scan instance for this scanner group to the Business Add-In VSCAN_INSTANCE, with which customers can include their own virus scanners. If this option is not set, the program searches for a suitable virus scan server among the set of virus scan servers maintained in *Customizing* that have this scanner group.

Group text: Explanations about the scanner group.





Definition of a Virus Scan Adapter or Server

Transaction 'vscan'

Provider type choice:

Table View Edit Goto Selection Utilities System Help	SAP
New Entries: Details of Added Entries	
Provider Type ADAPTER (Virus Scan Adapter) Image: Comparison of the state of th	
Virus Scan Provider Definition Scanner Group Status Active (Application Server) Server Ik/W/2K3SP2SAP_INSP_00 Reinit. Interv. Hours Adapter Path E:IVSA\antivirvsa.dll	
	٩ ///

ADAPTER (Virus Scan Adapter):

This option can be chosen in case Avira GmbH supports the SAP operation system directly. The virus scanner runs directly in the SAP web application server and no files have to be sent to an outsourced server via the network. With this configuration, there is no need to set a **VCSAN_RFC** as the SAP system communicates directly with the virus scanner.





SERVER (Virus Scan Server):

This option has to be activated if Avira does not support the SAP operation system. The files which have to be scanned are sent to an outsourced server. After the scan the virus scanner informs the SAP system if a virus has been found or not. The further handling of the upload is done by the SAP virus scan interface.

The example underneath shows the configuration with the outsourced server.

- Choose in the IMG SAP Web Application Server/ System administration/ virus scan interface
- Choose the *Execute* option next to *Define Virus Scan Servers*. The screen View: Change "Virus Scan Servers": Overview appears.
- Choose New Entries. The screen New Entries: Details of Added Entries appears.

► Enter the name of the virus scan server into the box *Scan server*. The name has to be the same as the name of the RFC destination which contains the technical connection to the virus scan server.





C Table View Edit Onto Selection Utilities System Helm	
Display View "Virus Scan Provider Definition": Details	
Provider Type SERVER (Virus Scan Server)	
Provider Name VSCAN_AVIRA_WIN	
Status T Start	
Virus Scan Provider Definition	
Scanner Group ANTIVIR [] Oisplay	
Status Active (Application Server) Instance Name	
Trace Level Errors Only Code Page 1100	
Reinit. Interv. 24 Hours Last Initialization: 12.10.2009 14:14:05 🛐 Load	
Adapter Path E/VSAIantivirvsa.dll	
Configuration LCcal	
Engine Data	
Version 7000 4025	
Version Text AntiVir (7.9.1.35)	
Date Mon Oct 12 11:48:27 2009	
Known Viruses	
Loaded Drivers	
Version Driver Name Date Known Vinuses	
7001.6098 ANTIVIR3.VDF Mon Oct 12 11:57:12 2009 1788775	
Virus Scan Server	
Version 1.70	
Version Text Final Release of SAP Virus Scan Server, Copyright (c) SAP AG 1992-2009	
Start time Mon Oct 12 14-14:04 2009 Production Release 701 Level 0. Patch 29 for PC with Windows NT on Feb 4 2009	
Data (mt.opt.unicode,SAP_CHAR/size_t/void==16/32/32)	
Adapter Data	
Manufacturer Awra GmbH	
Product Name AntiVir Virus Scan Adapter	
Cone entry chosen	
· · · · · · · · · · · · · · · · · · ·	

The following parameters are supported by Avira AntiVir for SAP:

Supported Parameters							
Parameters	Туре	Initial	Parameter Value				
INITTEMP_PATH	CHAR	V	E:\VSA\temp\A\$V\$0E400000.TMP\				
SCANBESTEFFORT	BOOL		1				
SCANALLFILES	BOOL		1				
SCANALLEMBEDDED	BOOL		1				
SCANHEURISTICLEVEL	INT		0				
SCANEXTRACT	BOOL		1				
SCANEXTRACT_SIZE	SIZE_T		1073741824				
SCANEXTRACT_DEPTH	INT		5				
SCANEXTRACT_RATIO	INT		150				





All parameters are activated by default except for the parameter SCANHEURISTICLEVEL. You can activate it in the menu 'vscanprofile' afterwards.

Definition for profiles which control the activation of the VSA

Transaction vscanprofile

Table View Edit Goto Selection Util	ities System Help						
◎ · · · · · · · · · · · · · · · · · · ·							
Display View "Virus Scan F	Profile": Overview						
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Dialog Structure	Virus Scan Profile						
🔽 🔁 Virus Scan Profile	Virus Scan Profile	Active	Default Prof	Profile Text	4		
The Steps	/SARC/ARCHIVING_ADK			Virus Protection Using the Archive Developmer			
Configuration Parameters	/SCET/GUI_UPLOAD			File Upload Using CL GUI FRONTEND SER			
	/SCMS/KPRO_CREATE						
	/SIHTTP/HTTP_UPLOAD			File Upload Using the Method CL_HTTP_ENTI			
	ZACTIVECONTENT	V		Active Content Scanning			
	Z_AVIRA	V	×	Avira for SAP			
		4 >					
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	8	Position		Entry 1 of 6			
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Scan Profile: Specifies the name of a virus scan profile.

Profile Text: Explanatory text for a virus scan profile.

Active: Specifies that this virus scan profile is active. The virus scan profile can only be used if this indicator is set. SAP applications can use fixed profile names that are delivered. By default, these profiles are not active, meaning that the application program works without a virus scan. You can activate the virus scan for each application by setting this indicator.

Default Profile: Indicator that this virus scan profile is the default profile.

You can set this indicator for only one virus scan profile. This virus scan profile is used in the following cases:

-If an application requests a virus scanner without specifying a virus scan profile. -If a virus scan profile is requested for which the *Use Reference Profile* indicator is set, and the *Reference Profile* is empty.

Use reference: To operate multiple applications using the same virus scan profile, set the *Use Reference* indicator and specify the reference profile.



Definition of the Steps in the Virus Scan Profile

Transaction vscanprofile

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New Entries: Overview of	f Added Ent	ries				
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Dialog Structure	Scon Profile	7 8VTR8				
Virus Scan Profile	Jocan rione	2_101101				
🗢 🔁 Steps	Stens					
Configuration Parameters	Position	Type	Scanner Group	Virus Scan Profile		
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Position: Specifies the position of the scanner group in the virus scan profile.

You can activate the parameters SCANHEURISTICLEVEL in the menu Configuration parameters.

Value1 = low Value 2 = medium Value 3 = high





다 Table View Edit Goto Selection	Utilities System Help		
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Change View "Configura	tion Parameters": Overvi	ew	
🎾 New Entries 🗈 🔒 🐼 🗟 🖪			
Dialog Structure	Scan Profile Z AVIRA		
🗢 🗋 Virus Scan Profile	Position 1		
Steps			
Configuration Parameters	Configuration Parameters		
	Parameter	Value	
	SCANHEURISTICLEVEL	2	
	Position	Entry 1 of 1	
🧭 One entry chosen			2 J ///.

In case a virus scan profile uses several scanner groups, you can serialize them by a position number.

Type: Specifies whether a step in the virus scan profile refers to a scanner group or another virus scan profile. If you choose Group, the system uses a virus scan server from this group (or a BADI^{*} implementation) for the virus scan. If you choose Profile, the program processes the specified virus scan profile instead of this step. You can define any conditions by combining the steps of the virus scan profile with the linkage type of the steps (AND/OR).

^{*} The abbreviation BADI means business add-in. BADIs are the object related successors of user-exits. In comparison to the common <u>CMOD/SMOD</u>-extension they are more difficult to use. But they offer amplified development and modification possibilities. A BADI interface (transaction SE18) can contain different BADI implementations (transaction SE19) but only one can be active at the same time.

You can realize interesting combinations of different BADIs. You can find all BADIs for each transaction by means of the following steps: 1. Transaction SE24 (Display class cl_exithandler); 2. Double-click on method GET_INSTANCE; 3. Enter breakpoint in line 25 (CASE sy-subrc); 4. Start transaction, execute the corresponding actions and wait fort he debugger; 5. Evaluate the content of the box exit_name.





Scanner Group: Combines multiple virus scan servers or allows the use of a BAdI implementation. All of the virus scan servers of a scanner group have the same set of configuration parameters and will therefore use the same scan engine.

Viren Scan Profile: Specifies the name of a virus scan profile that you can include as a step in the profile that you are currently processing.

Testing the installation of the Virus Scan Server (Profile Z_AVIRA)

This procedure gives you the possibility to check your configured virus scan server.

- ► Start the transaction VSCANTEST.
- ▶ Enter the object you want to scan, the given test file or you own local file.

Program Edit Goto System Help	
■ ● ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	
Test for Virus Scan Interface	
•	
Object to Be Checked • Test Data EICAR Anti-Virus Test File O Local File O File on the Application Server	
Scanner Selection • Virus Scan Profile ¢_xv1rA • Oscanner Group • Virus Scan Provider	
General Settings Display Scan Details Action Check Only	
	a)///

- ► Choose the virus scan profile, the scanner group ort he virus scan server.
- ► Choose an action.





Cr Goto System Help A DIA A DIA A A DIA A A DIA A DA A DA A		
	* ~	
SAP		
		_
Result		
K Return Value: 2- (At least one virus found)		
Infections		
ID Virus Name Object		
39299 Elcal-Test-Signature E.tushSapiNSP/trnp/20RSIV2_AVIRA		
		 _
	1 05	
TyMessage Text	LTxt	
Virus scan profile Z AVIRA sten 01: scanner group ANTIVIR		
Virus scan server VSCAN_AVIRA_WIN was selected from scanner group ANTIVIR		
Virus scan profile Z_AVIRA, step 01: scan instance returns 2- (At least one virus found)		
Virus "39299:Eicar-Test-Signature" found in object "E:\usr\sap\NSP\tmp\26RSIVZ_AVIRA"	2	
Profile Z_AVIRA failed, since step 01 failed (AND linkage)		
		aZ
		4 ///.





Trace possibilities in the SAP system

- ► Transaction vscantrace
- Definition of a trace log for certain events

Er Program Edit Goto System Help	
Image: A market and A marke	Ser and a series of the series
Virus Scan Server Trace	
Virus Scan Server Control Virus Scan Servers VSCAN_AVIRA_WIN Current Trace Level Current	
Components for Trace Output Misible Trace Level 11.262 Server Errors Virus Infections Virus Netcon Adapter Functions Server Hormation Server Information Parameter Operations in the Virus Scan Adapter RFC Parameters and/or Table Contents of Virus Scan Server Server Instances Server Instances	
Trace Administration Self-Trace of the Memory Trace Record Everything	
	4





Trace possibilities in the SAP System

- ► Transaction vscantrace
- ► Trace runs and recollects data

List Edit Goto System Help	
◎ 4 9 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Virus Scan Server Trace Output	
🗿 Update 📋 Delete 📴 Export 🧟 Status 🏹 Stop 🕼 Configuration 🕮 Test	
Mirus Scan Provider VSCAN_AVIRA_WIN	
Availability of the Anti-Virus Engine CCC	
Virus Scan Server Utilization U France Java	
No Data Exists	
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Trace possibilities in the SAP System

- ► Transaction vscantrace
- Trace runs and collects data
 A file with an eicar (test virus) has been uploaded

Ler List Edit Goto System Help	SAP
	Si an
Virus Scan Server Trace Output	
S Undate 1 Delete 2 Fxont 2 Status X Stoo 18 Configuration 7 Test	
Virus Scan Provider VSULAR_VIN	
waiiaduing o nie Alievitus Eigine 6	
Trace Level 11.262	
2009-10-12T14:41:34.984 p002716 t3628 [vscan_rfc.:VSCAN_RFC_L0:1933]: *RFC* >>> start >>> VSCAN_RFC_LOAD(1) >> RfcAccepts=3, MODE=running Sending data EF_LOAD (I): 0 EF_NOT_AVAILABLE (): 2009-10-12T14:41:34.984 p002716 t3644 [vscan_rfc.:VSCAN_RFC_SC:2983]: *RFC* >>> start >>> VSCAN_RFC_SCAN_BYTES(3) >> RfcAccepts=2, RfcBusy=1, MODE=runni	ng
Received data	
SCANHEURISTICLEVEL INT 2	1
<pre>Table content ET_INECCANERGM (0 lines): Table content ET_INECCANERGM (0 lines): Table content ET_OWNERTHNFO (0 lines): Table content ET_SCANERGM (0 lines): Table content ET_</pre>	,021E1D58,0219DDA0) 2E58F98,68,JobID=01,Infop1 0rs=0 ,0219DDA0)
39299 Eicar-Test-Signature E:\r	sr\sap\NSP\tmp\5UXH23Z_AV:
Table content ET CONTENTINFO (0 lines):	
2009-10-12T14:41:35.000 p002716 t3644 (vscan rfc.:VScanReturnI:1427): *THR* New thread 3644 was created. 6 (-ThADM:1) threads active, 3 are waiting.	





Activation of the Active Content Scanning

Transaction vscanprofile

How to enter a new virus scan profile ZACTIVCONTENT

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Display View "Virus	s Scan Profile": O	verview	1		
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Dialog Structure	Virus Scan Profile				
Virus Scan Profile	Virus Scan Profile	Active	Default Pro	f Profile Text	
Steps	/SARC/ARCHIVING_ADK	4		Virus Protection Using the Archive Developmer 🔺	
Configuration Pai	/SCET/GUI_UPLOAD	V		File Upload Using CL_GUI_FRONTEND_SER' 📼	
	/SCMS/KPRO_CREATE	V			
	/SIHTTP/HTTP_UPLOAD	¥		File Upload Using the Method CL_HTTP_ENTI	
	ZACTIVECONTENT	V		Active Content Scanning	
	Z_AVIRA	V	~	Avira for SAP	
				▲	
	8	Position		Entry 1 of 6	
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Beneath *Steps,* the virus scan profile ZACTIVCONTENT has to be assigned to a group. Therefore a new group can be defined or an already existing group can be used.





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			89881		
New Entries: Over	view of Addeo	d Entries			
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Dialog Structure	Coop Drofilo	ZACTIVECONTENT			
🗢 🗋 Virus Scan Profile	Scarrerome	ZAGITVEGONTENT			
🗢 🔂 Steps	Stens				
Configuration Pai	Position	Tyrne	Scanner Group	Virus Scan Profile	
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		B Position	Er	try 1 of 16	0.4
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Then you can define the parameter and the value beneath the menu item *Configuration parameters.*





C Table View Edit Goto Selection	tilities System Help	SAP
8 D 4 E		Ŵ
New Entries: Overview of	Added Entries	
🏏 i b b b		
Dialog Structure	Coop Profile ZACTIVECONTENT	
Virus Scan Profile	Position 1	
🗢 🗋 Steps	r content i i	
Configuration Parameters	Configuration Parameters	
	Parameter Value	
	Entry 0 of 0	
		J ///.

📴 Key of a Configuration Parameter (2)	🖙 Key of a Configuration Parameter (2) 30 Entries found 💷 🛛 🖉			
Restrictions				
			7	
	1		· · · ·	
Parameter	_ Init.	Type	Parameter Text	
CLEANDELETE		BOOL	Object is to be deleted if it is infected	
CLEANNODELETEINARCHIVE		BOOL	Do not delete infected objects in archive	
CLEANNODELETEINEMBEDDED		BOOL	Do Not Delete Embedded Objects in the Case of Infection	
CLEANNODELETEJOKES		BOOL	Do Not Delete Infected Objects in the Case of Infection by a Hoax or Joke Virus	
CLEANQUARANTINE		CHAR	Directory for Infected Objects	
CLEANRENAME		BOOL	Infected Object Is to Be Renamed During Repair	
CUST_ACTIVE_CONTENT		BOOL	Activates the identification or filtering of active content in the scan engine	
CUST_CLEAN		BOOL	Activates repair option for infected objects in the scan engine	
CUST_NO_SCANINFO		BOOL	Scan to be performed without additional information about infection or errors	
CUST_NOT_SCANNED_AS_WARNING		BOOL	Regard the return code NOT_SCANNED only as a warning	
SCANACCESSFILESLOCAL		BOOL	Object Can Be Locally Accessed by the Scan Engine	
SCANALLEMBEDDED		BOOL	Search for Embedded Objects and Scripts	
SCANALLFILES		BOOL	Search All Files Regardless of File Name Extension	
SCANALLMACROS		BOOL	Search for Macros Regardless of File Type	
SCANBESTEFFORT		BOOL	"Best Effort" Scan	
SCANDIREXCLUDELIST		CHAR	List of Directories to Exclude	
SCANEXCLUDEMIMETYPES		CHAR	List of the MIME Types to Exclude (See RFC 2045/2046)	
SCANEXTENSIONS		CHAR	List of File Name Extensions to Search	
SCANEXTRACT		BOOL	Analyze Compressed Objects	
30 Entries found				





You choose the parameter CUST_ACTIVE_CONTENT and activate it with the value 1.

다. Table View Edit Goto Selection U	Jtilities System Help			
	I C Q Q B A A B A A			
New Entries: Overview of	Added Entries			
	Added Endres			
	7			
Dialog Structure	Scan Profile ZACTIVECONTENT			
Virus Scan Profile	Position 1			
Configuration Parameters	-			
	Configuration Parameters			
	Parameter	Value		
	CUST_ACTIVE_CONTENT	1		
			——————————————————————————————————————	
			F	
			_ _	
	E Position	Entry 0 of 0		
				4

Beneath the menu item *Steps* the virus scan profile ZACTIVCONTENT has to be assigned to a group. You can define a new group or you can assign it to an already existing group.

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Testing the Installation of the Virus Scan Server (profile ZACTIVECONTENT)

This procedure allows you to check the function of the virus scan server you have configured.

- Start the transaction VSCANTEST
- Enter the object you want to check. You can use the given test files or you own local file

Er Program Edit Goto System Help	
© ↓ ↓ ↓ C C C C ↓ ↓ ₩ ₩ 12 15 A S ₩ ₽ 0 ₪	
Test for Virus Scan Interface	
Object to Be Checked O Test Data EICAR Anti-Virus Test File © Local File C ttemptest html O File on the Application Server	
Scanner Selection © Virus Scan Profile ZACTIVECONTENT (Defaultprofil) O Scanner Group O Virus Scan Provider	
General Settings Display Scan Details Action Check for Active Content	
	٩//

Choose the scan profile you want to use for the scan beneath virus scan profile. This example uses the profile ZACTIVCONTENT.

In the General Settings you choose the action "Scan for active content".





Goto System Help	
<<<	
SAP	
Result	
X Return Value: 3- (At least one macro was found)	
Infections	
ID Virus Name Object active content E-tusrisapiNSPttmpiRVRPRitest html	
Ty, Message Text LTxt	
Start the processing of virus scan profile ZACTIVECONTENT	
Virus scan profile ZACTIVECUNTENT, step UT: scanner group ANTIVIR	
Virus scan profile ZACTIVECONTENT stan 01: scan instance returns 3, (at least one macr	
Virus "active content" found in object "E:\usr\sap\NSP\tmp\RVRPRItest.html"	
Profile ZACTIVECONTENT failed, since step 01 failed (AND linkage)	

Integration of the VSA without RFC destination

- ► It is possible to load the virus scanner directly into the SAP Netweaver
- Choose virus scan adapter in the transaction "vscan" provider type

► Important:

The basic system has to be supported by Avira if you want to use the provider type "virus scan adapter".





Environment variables VSA_LIB and VSA_DEBUG

- Used environment variables (Windows)
- ► VSA_LIB: refers to the antivirvsa.dll
- ► The variable is entered automatically
- VSA_DEBUG: refers to a path ot he debug log file of the VSA
- Variable value, f.ex. "C:\avsapvsa.log"

Application server or self-starter

You can install an application server starter (started by the application server) or a self-starter (f. ex. externally as service with Micorsoft Windows NT or daemon beneath UNIX) for the configuration of a virus scan server for ABAP systems.

In case the application server starter is used, all components are located on the same host.

In case of the self-starter, the virus scan server and the SAP WebAS can be located on different hosts. So you can use a virus scan server which is available only for a certain platform, even though the SAP Web AS is installed on a different platform!

Here you see the virus scan server on one or on two hosts:









In the running system the difference between application starter and self-starter affects the Computing Center Management System (CCMS). You can supervise the virus scanners by means of the CCMS (transaction RZ20) in the "SAP CCMS Monitors for Optional Components" in the monitor Virus Scan Server (you find further information on the SAP website)

The following differences have to be taken into consideration:

Application server starter:

The file collector of the CCMS checks automatically if a configured virus scan server is reachable. In case there is no virus scan server available the CCMS triggers an alart and starts the virus scan server again as an auto reaction.

• Self-starter:

However there is a separate MTE class in CCMS for these self-starters. You can assign an auto-reaction method to this MTE class yourself to react to alerts. You can, for example, use the MTE class CCMS_OnAlert_Email to send an e-mail or an SMS (see "Defining Automatic Alert Notification" and "Forwarding Alerts to Alert Management (ALM)" on the SAP website).

External activation of the AntiVir VSA via VSCAN_RFC (self-starter)

Command line windows:

vscan_rfc -a VSCAN_Localhost -g vmserv1 -x 3300 -V "c:\vsa\antivirvsa.dll"

Command line Linux:

 vscan_rfc -a VSCAN_Localhost -g vmserv1 -x 3300 –V "/usr/lib/Antivir/libantivirvsa.so"

Description of the parameters:

- -a Programm ID (RFC Destination)
- -g Gatewayhost
- -x Port vom SAP Gateway
- -V Pfad zur lokalen Lib





Scan of SAR and CAR archives

Usually the Avira Virus Scan Adapter is unable to unpack such archives. But you can influence this behavior by means of the configuration file savapi.ini which you find in the installation directory.

🕞 savapi.ini - Notepad	- 🗆 ×	E:\VSA		E:\usr\sap\NSP\SYS	\exe\uc\NTI386		
Eile Edit Format View Help		File Edit View >>	2	File Edit View Fav	orites Tools Help		
[SAVAPI2SERVICE] SapCarProgram=E:\usr\sap\NSP\SYS\exe\uc\NTI386\sapcar PortNumber=18370 TempDirectory=C:\Program Files\Avira\VSA\temp\ UpdateDirectory=C:\Program Files\Avira\VSA\temp\ UpdateDirectory=C:\Program Files\Avira\VSA\temp\ WordFileName_C:\Drogram Files\Avira\VSA\temp\	•.exe	🔾 Back 👻 🕤 🖌 🍞	»	3 Back 🔹 🕤 👻 🦻	🔎 Search 🜔 Folde	ers 🛛 🔂	»
		Address 🛅 E:\VS 💌 🔁	Go	Address C E:\usr\sap\N	ISP\SYS\exe\uc\NTI386	- 🖻 🖻	Go
		Name 🔺		Name 🔺	Size	Туре	D. 🔺
LogFileName=C:\Program Files\Avira\VSA\nbedv.key		backup		mtreg2cmd.exe	78 KB	Appli	04
LogFileSize=1000		temp		R/3ntreg2env.exe	100 KB	Appli	0(
ReportLevel=0		🗀 update		ntscmgr.exe	158 KB	Appli	04
undateurl=http://dl.antivir.de		antivir0.vdf		R3ldctl.exe	2.034 KB	Appli	04
UpdateInterval=120		antivir1.vdf		R3load.exe	5.034 KB	Appli	04
NetworkUserName=		antivir2.vdf		🔄 🛅 R3loadada.pdb	4.163 KB	PDB File	0(
NetworkPassword=		antivir3.vdf		R3szchk.exe	2.306 KB	Appli	04
ProxyPort=		🔊 antivirvsa.dll		R3ta.exe	2.634 KB	Appli	04
ProxyUrl=		🔊 avewin32.dll		🗖 R3ta.pdb	5.715 KB	PDB File	0:
ProxyUserName=		🔊 avpack32.dll		R3trans.exe	5.726 KB	Appli	04
SmtpMailEnabled=0		🔊 dwld.dll		🔤 R3trans.pdb	4.555 KB	PDB File	0(
SmtpMailMode=0		DwidSvc.exe		rfcexec.exe	90 KB	Appli	04
SmtpHostName=		🖬 hbedv.key		🖬 rfcexec.sec	1 KB	SEC File	12
SmtpRecipientAddress=		📋 lic_info.txt		🛾 🔊 rscparulib.dll	3.438 KB	Appli	04
		🔊 msvcr71.dll		rscpf2f.exe	374 KB	Appli	04
		Smsvert.dll		rscpf3f.exe	374 KB	Appli	04
		📔 💓 readme.htm		rscpf_ars.exe	1.162 KB	Appli	04
		🔊 savapi2m.dll		rscpf_db.exe	4.378 KB	Appli	04
		🔊 savapi2r.dll		S rspoconnector.dll	1.444 KB	Appli	19
		savapi2s.exe		rstrcscs.exe	958 KB	Appli	04
		🔊 savapi.dll		rstrfile.exe	986 KB	Appli	04
		🥵 savapi.ini		rstriscs.exe	962 KB	Appli	04
		🗐 savapi.log		rstrsscs.exe	962 KB	Appli	04
		🔊 smtplib.dll		🔄 🔤 rsyn.bin	991 KB	BIN File	0:
		StartUpdate.exe		sapcar.exe	2.972 KB	Appli	24
		🔊 unacev2.dll	-	sapccm4x.exe	8.074 KB	Appli	0
	*		•	•			<u> </u>
8	× //.	Type: Conf 476 bytes 💽 M	1y (//	Date Created: 29.1 2,90 ME	3 🛛 😼 My Compu	iter	11.

Hints:

This adjustment of the Avira Virus Scan Adapter is possible with both, a windows ABAP system and a windows Java system.

In Unix you find the configuration file "avsapvsa.conf" in the directory /etc/. In this file a link to the SAPCAR program via the parameter "SapCarProgram" is possible.