RSA NetWitness Platform

Event Source Log Configuration Guide



SAP ERP Central Component

Last Modified: Monday, March 2, 2020

Event Source Product Information:

Vendor: SAP

Event Source: ERP Central Component (formerly R3 Enterprise)

Versions: 4.6 through 7.x

Note: RSA is qualifying support for the major version. In case of any configuration changes or logs not parsing in a minor version, please open a case and we will add support for it.

Additional Downloads: zrsau_select_events_job.txt, sftpagent.conf.sap, nicsftpagent.conf.sap

Note: Downloads are available from the RSA NetWitness Platform Event Source Downloads space using the following link: SAP ERP Central Component Downloads

RSA Product Information:

Supported On: NetWitness Platform 10.0 and later Event Source Log Parser: sap Collection Method: File Event Source Class.Subclass: Host.Application Server To configure the SAP ERP event source to work with RSA NetWitness Platform, you must complete these tasks:

- I. Configure SAP ERP Central Component
- II. Set up the SFTP Agent and NetWitness Log Collector

Configure SAP ERP Central Component

Perform the following tasks to configure SAP ERP Central Component:

- I. Change SAP Configuration
- II. Create the ZRSA Table
- III. Create ZRSAU_AS Table
- IV. Create Message Class ZRSA
- V. Activate the SAP Logs Trigger
- VI. Create ZRSAU_SELECT_EVENTS_JOB
- VII. Create a Variant for Job Scheduling
- VIII. Schedule Background Job

Task I: Change SAP Configuration

To change the SAP configuration:

- 1. Log on to SAP using the appropriate user account.
- 2. In the transaction field below the toolbar, type SCC4.

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3. From the Cross-Client Object Changes list, select Changes to Repository and

cross-client Customizing allowed.



Task II: Create the ZRSA Table

To create the ZRSA database table:

- 1. Enter **SE11** for the transaction code to create a new database table.
- 2. In the **Database table** field, enter **ZRSA**, and click **Create**.
- 3. In the Short Description field, enter a description of the table.
- 4. In the Delivery and Maintenance tab, do the following:
 - a. In the Delivery Class field, type A (for Application table).
 - b. From the Data Browser/Table View Maint.list, select Display/Maintenance Allowed with Restrictions.
- 5. Click the **Fields** tab, and enter information for the table fields as shown.

Field	Key	Initial Values	Data Element	Data Type	Length	Description
MANDT	Select	Select	MANDT	CLNT	3	Client

Field	Key	Initial Values	Data Element	Data Type	Length	Description
TODATE			DATUM	DATS	8	Date
TOTIME			TIME	CHAR	6	Time in CHAR format

- 6. Click Save.
- 7. In the Create Object Directory Entry window, in the Package field, enter **\$TMP** and click **Save**.
- 8. Click Activate.
- 9. Click Technical Settings and set the following parameters:
 - In the Data class field, select APPL0.
 - In the Size category field, select 0.
 - In the Buffering section, select Buffering not allowed.
- 10. Click Activate

Task III: Create the ZRSAU_AS Table

To create the ZRSAU_AS database table:

- 1. Enter SE11 for the transaction code to create a new database table.
- 2. In the Database table field, enter ZRSAU_AS and click Create.
- 3. In the **Short Description** field, enter a description of the table.
- 4. In the **Delivery and Maintenance** tab, fill in the fields as follows:
 - a. In the **Delivery Class** field, type A (for Application table).
 - b. From the Data Browser/Table View Maint.list, select Display/Maintenance Allowed with Restrictions.
- 5. Click the **Fields** tab, and enter information for the table fields as shown.

Field	Кеу	Initial Values	Data Element	Data Type	Length	Description
DSET	Select	Select	EDIUOLDDIR	CHAR	100	Pathname and directory of source file
CHGDATE			DATUM	DATS	8	Date
CHGTIME			TIME	CHAR	6	Time in CHAR format
ARCHFLAG			FLAG	CHAR	1	General Flag

- 6. Click Save.
- 7. In the Create Object Directory Entry window, in the Package field, enter **\$TMP** and click **Save**.
- 8. Click Activate.

Task IV: Create Message Class ZRSA

You must create a message class to display messages in the ZRSAU_SELECT_EVENTS_JOB program.

To create the ZRSA message class:

- 1. Enter **SE91** for the transaction code.
- 2. In the Message Class field, enter ZRSA.
- 3. In the Create Object Directory Entry window, in the Package field, enter **\$TMP** and click **Save**.

4. Click the Messages tab, and enter the information for the table fields as shown:

Message	Message Short Text
000	File could not be opened for writing
001	Data transferred successfully to the Application Server
002	Audit event does not exist for this selection
003	Enter valid days
004	Directory does not exist. Enter valid directory

5. Click Save.

Task V: Activate the SAP Logs Trigger

To activate the SAP logs trigger:

- 1. Enter **SM19** for the transaction code to create the object.
- 2. Click **Create** to create a profile.
- 3. Enter a name for the profile. and click **Continue**.
- 4. In the Filter 1 tab, set the following:
 - a. In the Audit Classes section, select all available options.
 - b. In the Events section, select All.

c. Select Filter Active

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Security Audit: Cha	ange Audit Profile	
Static Configuratio		
Active profile	ST Activated By	ADMIN 05.04.2010
Displayed profile	M Ohenwed Du	
Displayed profile 50	Changed By	R5A 19.04.2010
Filter 1 Filter 2		
		Detail Oran Surray
Filter active		eset Detail Configurat
Selection criteria	Audit classes	Events
Client *	Dialog logon	All
0381	RFC call	
	✓ Transaction start	
	Report start	
	System	
	Other events	-

- 5. Click **Display <-> Change**, or press F6.
- 6. When prompted to confirm the changes, click **Yes**.
- 7. Click Activate.

Task VI: Create ZRSAU_SELECT_EVENTS_JOB

To create ZRSAU_SELECT_EVENTS_JOB:

- 1. Enter SE38 for the transaction code to create the object.
- 2. For the program name, type **ZRSAU_SELECT_EVENTS_JOB**, and click **Create**.
- 3. In the **Program** field, type **ZRSAU_SELECT_EVENTS_JOB**.
- 4. From the Type list, select Executable Program.

I⊂ Program Edit Goto Utilities(M) Environment System Help								
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ABAP Editor: Initial Screen								
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Program ZRSAU_SELECT_EVENTS_JOB Create								
Subobject C ABAP: Program Attributes ZRSAU_SELECT_EVENTS_JOB Change								
Source Title RSA_ZRSAU_JOB								
Original language EN English								
Created 19.05.2009 DL_10NY								
Status New(Revised)								
Attributes								
Type Executable program								
Status								
Application								
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Selection screen								
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5. Click Save.

- 6. In the Create Object Directory Entry window, in the Package field, enter **\$TMP** and click **Save**.
- 7. Click Save.
- 8. Copy the contents from the **ZRSAU_SELECT_EVENTS_JOB** script provided by RSA to the ABAP Editor.
- 9. Click Save, and check for any errors.
- 10. Click Activate.



Task VII: Create a Variant for Job Scheduling

To create a variant for job scheduling:

- 1. Enter SE38 for the transaction code to create the object.
- 2. In the **Program** field, type **ZRSAU_SELECT_EVENTS_JOB**.
- 3. In the toolbar, select **Variants** or press CTRL+F1.
- 4. In the Variant field, type **ZRSAU_VARIANT**, and click **Create**.
- 5. Specify the following information for the variant:
 - In the From Date/Time, To Date/Time, Name of the Directory, Name of the Audit File and Days to keep fields, enter appropriate values.
 - Under Audit Classes, select all options.
 - Under Events, select Every.

년 Variant Edit Goto System	n Help S	AP
S 1		
Maintain Variant: R	eport ZRSAU_SELECT_EVENTS_JOB, Variant ZRSAU_VARIAN	
Variant Attributes		
Time Restrictions		
From Date/Time	19.05.2009 14:00:00	
To Date/Time	13.03.2003 13.37.23	
Audit Files Directory		
Name of the Directory	c/irsa	
Name of the Audit File	rsa_sap_audit	
Standard Selections	Audit Logs from Multiple Application Servers can be extracted	
Server	when a wild character '*' is given in 'Server' Select-Option field	
Liser		
Audit Classes		
Dialog Logon		
RFC/CPIC Logon		
Transaction Start		
Report Start		
User Master Changes		
 Other Event 		
System Events		
Events		
O Only Critical		
O Severe and Critical		
C Every		

- 6. Click Save.
- 7. In the Meaning field, type variant.
- 8. Select the Only for Background Processing option, and click Save.

Task VIII: Schedule Background Job

This background job runs at the frequency that you specify. The system downloads events to the directory specified in the program of the application server and inserts the date and time stamp as a prefix to the filename extension.

To schedule the background job:

- 1. Enter SM36 for the transaction code.
- 2. Under General Data, do the following:
 - a. In the Job Name field, type RSA_AUDIT.
 - b. In the Job Class field, type C.
 - c. In the Exec. Target field, choose the appropriate profile name.
- 3. To define the job steps, click Step.

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Define Bac	kground Job	
🔊 Start condition	n 🐉 Step 📔 🧟 Job selection	🚯 Own jobs 🔀 Job wizard Standard jobs
General data		
Job name	RSA_AUDIT	
Job class	C	
Status	Scheduled	
Exec. Target	yew_PRD_00	Spool list recipient
Job start		Job frequency
Job steps 1 Step(s) suc	cessfully defined	

- 4. In the ABAP program area, do the following:
 - a. In the Name field, type ZRSAU_SELECT_EVENTS_JOB.
 - b. In the Variant filed, type ZRSAU_VARIANT.
- 5. Click Save.

efine Back	ground Job
Start condition	🜮 Step 📔 🤽 Job selection 📑 Own jobs 🎇 Job wizard Standard jobs
Create Step 1	X
lser	DC_TONY
rogram values	
ABAP pr	ogram External command External program
ABAP program	
Name	
Language	
External command Name Parameters Operating sys. Target server	I (command pre-defined by system administrator)
Target server	
External program ((direct command input by system administrator)
Name	
Parameter	
Target host	

- 6. Go back to the previous screen.
- 7. Click Start Condition.
- 8. Click Date/Time.
- 9. In the **Required Date** and **Time** fields, enter appropriate values, and select **Periodic Jobs**.
- 10. Click **Period Values**.

- 11. Click Other Period.
- 12. Assign the value for the frequency to run the job.
- 13. Click Save.
- 14. Click Check to check for inconsistencies.

Set Up SFTP Agent and NetWitness Log Collector

To configure RSA NetWitness Platform, set up the SFTP Agent and configure the Log Collector for file collection.

Set Up the SFTP Agent

To set up the SFTP Agent Collector, download the appropriate PDF from RSA Link:

- To set up the SFTP agent on Windows, see Install and Update SFTP Agent
- To set up the SFTP agent on Linux, see Configure SFTP Shell Script File Transfer

Configure the Log Collector for File Collection

Perform the following steps to configure the Log Collector for File collection.

To configure the Log Collector for file collection:

- 1. In the NetWitness menu, select ADMIN > Services.
- In the Services grid, select a Log Collector, and from the Actions menu, choose View > Config > Event Sources.
- 3. Select File/Config from the drop-down menu.

The Event Categories panel displays the File event sources that are configured, if any.

4. In the Event Categories panel toolbar, click +.

The Available Event Source Types dialog is displayed.

RSA RESPOND INVESTI	GATE N	MONITOR C	ONFIGURE	ADI	MIN
Hosts Services Even	t Sources	Endpoint S	Sources H	lealth	& Well
🚠 Change Service 🛛 🔟	MNC020485-	Log Collector	Config 👳		
General Remote Collectors	Files	Event Sources	Event Destin	ations	Settin
File 💙 Config		~			
Event Categories	Sc Availa	able Event Sourc	e Types	Θ×	
+ -		Name ^			
Name		iccurev icf2		- îl	
		icf2tvm		- 1	
	□ a	ipache		- 11	
		pachetomcat		- 8	
		irtaccess		- 8	
		irtie		- 8	
		irtrequest		- 8	
		oluecoat_elff		- 11	
		oluecoat_elff_tvm		- • I	
		G	ancel OK		

5. Select the correct type from the list, and click **OK**.

Select sap from the Available Event Source Types dialog.

The newly added event source type is displayed in the Event Categories panel.

Note: The image below uses **Apache** as an example only. Your screen will look different, depending on which Event Source type you are configuring.

RSA RESPOND INVESTIG	GATE MONITOR CONI	FIGURE AD	MIN	Ċ	5 Q @	admin 🏾 🧿	
Hosts Services Event	Sources Endpoint Sour	rces Healt	h & Wellnes	ss System	Security		
👬 Change Service 🔤 - Log Collector Config 💿							
General Remote Collectors	Files Event Sources Ev	ent Destinations	Settings	Appliance Ser	vice Configurat	ion	
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Event Categories	Sources						
+ -	🕂 🗕 🗹 📥 Import Source 🛛	2 Export Source					
☑ Name	File Directory	Address	Event Filter	File Spec	File Encoding	Enabled	
✓ apache	apache_logs	127.0.0.1		^.*s	UTF-8	true	
<pre>《</pre>	<pre>《 (Page 1 of 1)</pre>	» I C			I	tems 1 - 1 of 1	

6. Select the new type in the Event Categories panel and click + in the Sources panel toolbar.

The Add Source dialog is displayed.

			Add Source			
			Basic			
			File Directory *	homeapache		
			Address	127.0.0.1		
			File Spec	^.*\$		
			File Encoding	UTF-8		
			Enabled	\checkmark		
		~	Advanced			
		~	Ignore Encoding Conversion Errors	\checkmark		
*	homeapache		File Disk Quota	10		
	127.0.0.1		Sequential Processing	\checkmark		
	^.*s		Save On Error	\checkmark		
	UTF-8		Save On Success			
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				Off		
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- 7. Add a File Directory name, modify any other parameters that require changes, and click OK.
- 8. Stop and Restart File Collection. After you add a new event source that uses file collection, you must stop and restart the NetWitness File Collection service. This is necessary to add the key to the new event source.

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