

RSA Security Analytics Ready Implementation Guide

Last Modified: December 2, 2013

Partner Information

Product Information	
Partner Name	Raz-Lee Security
Web Site	www.razlee.com
Product Name	iSecurity for IBM-i
Version & Platform	Raz-Lee 11.4, IBM-i OS/400 V5R3 7.1
Product Description	Raz-Lee's iSecurity suite of products is a comprehensive, user-friendly auditing, compliance and security solution for IBM i (AS/400) environments. iSecurity products address insider threats, external security risks, and the need to monitor business-critical application.







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Solution Summary

Raz-Lee iSecurity for IBM i triggers real-time Syslog and SNMP:

- Security alerts when a potential security breach has been detected.
- Event messages when a site-defined event has occurred; messages can be of varying severity levels, from Informational through Emergency.

Pertinent Syslog definitions are defined to iSecurity only once, and thereafter are invoked when triggered.

Providing real-time alerts and event messages, and integrating this information within the larger context of RSA Security Analytics monitoring and reporting, will provide multi-platform customers the ability to add previously unsupported IBM i security-related events into their overall system.



 Appl. Data Accessess & Changes including Editing

Release Notes

Release Date	What's New In This Release
12/02/2013	Initial support for Raz-Lee iSecurity for IBM-i.





Security Analytics Integration Package

The RSA Security Analytics (SA) Community is an online forum for customers and partners to exchange technical information and best practices with each other. The forum also contains the location to download the SA Integration Package for this guide. All Security Analytics customers and partners are invited to register and participate in the <u>RSA Security Analytics Community</u>.

Once you have downloaded the package from the Security Analytics Community, the next steps are to deploy this on all log decoders. Follow the rest of this Implementation Guide to proceed.

Note: For steps to disable or remove the Security Analytics Integration Package, please refer to the Appendix of this Guide.

An overview of the RSA Security Analytics package consists of the following files:

Filename	File Function
razleepe.envision	This file is deployed during the Deploy Security Analytics Integration
	Package section in this guide.
index-concentrator-custom.xml	This file can be referenced for the Create the index-concentrator-
	custom.xml section.
table-map.xml	This file can be referenced for the Modify the table-map.xml section.
variables.txt	This file can be used to determine which variables are used within the
	enVision variable name> SA variable name> SA variable type
	•





Deploy enVision Content File

In order to use RSA Partner created content, you must first deploy the *enVision Content File* from the **Security Analytics Live** module. Log into Security Analytics and perform the following actions:

- 1. From the Security Analytics menu, select Live > Search.
- 2. In the keywords field, enter: enVision.
- 3. Security Analytics will display the Envision Content File in Matching Resources.
- 4. Click on Envision Content File.

🖒 Live 💿	O Search	resource		lanage		# O	Ą	RSA Security Analytics
Search Criteria			<1	Matching R	lesources	5		
Keyword(s):				📰 Show Results 🤇	🔊 📔 🔚 Details	Sup:		🖫 Deploy
enVision				Envision	Content Fil	e		
Resource Types:			_	type LOGD	EVICE upd Ded	– I Thu Sep (05 201	3 09:58:12 GMT-0400
Tage			~	(Eastern Da This file is u	aylight Time) ve used to undate	ersion 0.20	size 4	4.2 MB subscribed yes
Tags:			~	📚 netwitr	ness for logs	the conter	ic ne	
			\sim	e netwitr	iess for logs			

5. Next click **Deploy** in the menu bar.



6. Check your Log Decoder(s) in Devices tab and then click Push.

M	anual Resource De	eployment			8
[—Deploy the followi	ng resources		Devices	
	Flle Name	Device Type	Description	Devices Groups	
	Envision Con	LOGDEVICE	This file is used to up	🗹 💋 Name ^ Type	
				🔽 💋 vm3098 Log Decoder	

7. Once deployed, you will receive a **COMPLETE** message in the Deployment Job Progress window.





Deploy Security Analytics Integration Package

After completing the previous section, *Deploy enVision Content File*, you can now deploy the Security Analytics Integration Package. Download the appropriate RSA Partner Integration Package, then log into Security Analytics to perform the following actions:

- 1. From the Security Analytics menu, select **Administration > Devices**.
- 2. Select your Log Decoder from the list, select View > Config.

Note: In an environment with multiple Log Decoders, deploy the Integration Package on each Log Decoder that will use the new device.

- 3. Next, select the **Parsers** tab and click the **Upload** button.
- 4. From the Upload Parsers window, click the Add button and select the .envision file.
- 5. Under the file name column, select the integration package name and click **Upload**.
- 6. Navigate to Administration > Devices and check the Log Decoder than click Restart Services.

Administration		🗄 Tasks 📮 Syst	em			
Groups		Devices				
🕂 — 🗷 🎟 Vie		+ - 🗹 🎟 v	iew 📀 📑 Activate 🛛 👼 Deactivate	🙂 Restart Services 🙂 Reboot D	evice 🔁	Device Updates 📀
Name	Address Type	🔲 Llcensed 🔒 💋	Name ^	Address	Port	Туре
		🗆 yes 🔒 💋	vm3105	127.0.0.1	51113	Reporting Engine
		🔲 yes 💉	⊞ vm3106	10.100.53.106	50105	Concentrator
		🔲 yes 💉	vm3107	10.100.53.107	50101	Log Collector
		🔽 yes 💋	vm3107	10.100.53.107	50102	Log Decoder

7. From the Administration > Device screen check Log Decoder and select View > Config.

Administration	🗏 Tasks 🛛 🖵 System		
Groups	Devices		
🕂 — 🗹 🎹 View 🛇	🕂 🗕 🗹 🗰 View 💿 📪 Activate 🛛 🐺 Deactivate 🔇	🖞 Restart Services 🛛 🖞 Reboot De	evice 🛛 \overline 🗧 Device Updates 📀
Name Address Type	🗌 Licensed 🕂 👔 System 🛛 🗛	ddress	Port Type
	yes 🔓 📘 Stats 1:	27.0.0.1	51113 Reporting Engine
1	yes Config 10	10.100.53.106	50105 Concentrator





Administration 🛛 🗎 Devices 🗄 Task	rs 🖵 System				
🚠 Change Device 🖳 vm3107 👌 🌞 Config 👳					
General Files App Rules Co	orrelation Rules Feeds	Parsers	Applia	ance Service Configuration	
System Configuration				Parsers Configuration	
Name	Conflg Value			Name	Conflg Value
Compression	0		^		V
Port	50002		=	BITTORRENT	
SSL	off			FeedParser	
Stat Update Interval	1000		-	FIX	\checkmark
Log Decoder Configuration				⊞ GeoIP	
Name	Config Value			GNUTELLA	
∃ Adapter			Â	I IMAP	V
Berkley Packet Filter			E	Device Parsers Configuration	
Capture Interface Selected				Name	Conflg Value
∃ Cache				actiancevantage	\checkmark
Cache Directory	/var/netwitness/logdecoder/cache	2		actividentity	V
Cache Size	4 GB			airdefense	
				Simprost	

8. The new device will automatically be listed under General > Device Parsers Configuration.

Create the index-concentrator-custom.xml

Modify the index-concentrator-custom.xml file to retrieve meta details from log collections.

- 1. Log into the log decoder via console or SSH.
- 2. On the log decoder, go to the /etc/netwitness/ng/envision directory.
- 3. If the **index-concentrator-customer.xml** file does not exist, copy the index-concentrator-custom.xml from the Integration zip file to this directory.
 - If the index-concentator-custom.xml file already exists then append the content to the existing file.
- 4. Navigate to Administration > Devices and check the Log Decoder than click Restart Services.

Administration	Devices	🗄 Tasks 📮 Syst	em			
Groups		Devices				
🕂 — 🗹 🎟 Vie		+ - 🗹 🎟 v	iew 🕙 📑 Activate 🛛 👼 Deactivate	🙂 Restart Services 🙂 de Reboot D	evice 🗃	Device Updates \odot
Name	Address Type	🔲 Licensed 🔒 💋	Name ^	Address	Port	Туре
		🔲 yes 🔒 💋	vm3105	127.0.0.1	51113	Reporting Engine
		🔲 yes 💉	⊎ vm3106	10.100.53.106	50105	Concentrator
		🔲 yes 💋	vm3107	10.100.53.107	50101	Log Collector
		📝 yes 💋	vm3107	10.100.53.107	50102	Log Decoder

Below is an example of the index-concentrator-custom.xml for the enVision attributes macaddr and node.

```
<key description="macaddr" level="IndexValues" name="eth.host" format="Text" valueMax="100000" />
<key description="node" level="IndexValues" name="node" format="Text" valueMax="100000" />
```

Modify the table-map.xml

The table-map.xml file contains the enVision to NetWitness meta map.

- 1. Log into the Log Decoder via console or SSH.
- 2. On the Log Decoder, go to /etc/netwitness/ng/envision/etc.
- 3. Use the name fields in the index-concentrator-custom.xml file to determine the list of attributes which need to be modified in the table-map.xml file.





- 4. Copy the table.map.xml from/etc/netwitness/ng/envision/etc to /etc/netwitness/ng/envision.
- 5. Open **/etc/netwitness/ng/envision/table.map.xml** file and modify the field **flags=Transient** to **flags=None** for only the attributes that exist in the name field of the index-concentrator-custom.xml file.

The below table-map.xml maps is an example of the enVision attribute **macaddr** and **node** mapped to the correlated NetWitness attribute, with the flag field modified to **None**.



6. Navigate to Administration > Devices and check the Log Decoder than click Restart Services.

Administration	⊘ 🗐 De	vices 🚦	≡ Ta	isks (🖵 Syst	em					
Groups			De	evices	5						
🕂 — 🗹 🎹 Vier			+	- 2	1 I 💷 🗸	/iew 📀 📑 Activate	👼 Deactivate	🙂 Restart Services	😃 Reboot De	evice 🚡	🖥 Device Updates 🖂
Name	Address	Туре		Licensed	2 🖉	Name ^		Address		Port	Туре
				yes	a 💉	vm3105		127.0.0.1		51113	Reporting Engine
				yes	<i>"</i>	⊎ vm3106		10.100.53.106		50105	Concentrator
				yes	<i>S</i>	vm3107		10.100.53.107		50101	Log Collector
				yes	ø	vm3107		10.100.53.107		50102	Log Decoder

7. The Log Decoder is now ready to parse events for this device.





Partner Product Configuration

Before You Begin

This section provides instructions for configuring the Raz-Lee iSecurity with RSA Security Analytics. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All Raz-Lee iSecurity components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

SIEM Syslog Configuration

Numerous iSecurity products integrate with SEM/SIEM systems by sending security alerts instantaneously to these systems; web-based alerts are supported using Twitter <u>www.twitter.com</u> (can transmit up to 1000 lines per second). Message alerts contain detailed event information about application data changes, deletes or reads of objects and files, emergency changes in user authorities, IFS viruses detected, malicious network access to the IBM i and more.

Use iSecurity Audit to set SIEM general alert definitions and use iSecurity Action to determine if SIEM alerts will be generated in individual cases.

The iSecurity SIEM Syslog feature sends event alerts from various IBM i facilities (such as logs and message systems) to a remote RSA Security Analytics server within a range of severities such as Emergency, Alert, Critical, Error, Warning and more.

1. Type **STRAUD** on the IBM i command line; the iSecurity Audit main menu appears. Select option **81**. **System Configuration**.







2. From the iSecurity/Base System Configuration menu, select option 31. Syslog Definitions.

iSecurity/Base Syst	em Configuration
Select one of the following:	
Audit 1. General Definitions 5. Auto start activities in ZAUDIT 9. Log & Journal Retention Action *FYI* Mode Active 11. General Definitions 12. SMS Definitions 13. E-Mail Definitions	Central Administration 31. Syslog Definitions 32. SNMP Definitions 33. Twitter Definitions Authentication 71. Setup
Security Event Manager (SEM/SIEM) 21. OSYSOPR and other message queues	General 91. Language Support
22. QAUDJRN Type/Sub Severity Setting	99. Copyright Notice
Selection ===>	
Release ID	11.5 11-01-27 44DE466 520 7459 1 1

3. In the **SYSLOG Definitions** screen define whether to send Syslog messages and if so to which IP address, from which facility (list of optional facilities below), in what range of severity (list below) and the format of the message.

Send SYSLOG messages Destination address	s	Y=Yes, N=No, A=Action 62.248.19	only
"Facility" to use .	9	CLOCK DAEMON	
"Severity" range to	auto send . $0 - 7$	Emergency - DEBUG	
Sends QAUDJRN edited	d messages. Use F22	to set.	
Send all or after fi	ilter N	A=All, F=After filter	
Convert data to CCS	(D 0	0=Default, 65535=No c	onversion
Maximum length	1024	128-9800	
Message structure .	&4 iS	ecurity/ &5 : &3 &1	
Mix Variables and co	onstants (except &,	%) to compose message:	
&1=First level msg	&3=Msg Id.	&4=System	&5=Module
&6=Prod Id.	&7=Audit type	&8=Host name	k9=User
	&M=Minute	&S=Second	&X=Time
&H=Hour			D-1-
&H=Hour &d=Day in month	&m=Month (mm)	&y=Year (yy)	xx=Date
&H=Hour &d=Day in month &a/&A=Weekday (abbr/	&m=Month (mm) /full)	&y=Year (yy) &b/&B=Month name (abbr/f	ull)
&H=Hour &d=Day in month &a/&A=Weekday (abbr/	&m=Month (mm) /full)	&y=Year (yy) &b/&B=Month name (abbr/f	ull)
&H=Hour &d=Day in month &a/&A=Weekday (abbr/ F3=Exit F12=Cancel	&m=Month (mm) /full) F22=Set	&y=Year (yy) &b/&B=Month name (abbr/f SYSLOG handling per audit su	xx=Date ull) b-type

4. By using iSecurity Firewall -> 81. System Configuration -> 8. SYSLOG, a user can decide whether they want the SYSLOG to contain all Firewall events (2=All), Rejects only (1) or none (0).





5. To prompt and receive alerts, define an Alert Message in Action (STRACT \rightarrow 31. Work with Actions).

	Wor	k with Actions			
			Posit	ion to:	
Type options, pre 1=Select 3=Co	ss Enter. py 4=Delete	5=Run Action	7=Rename	8=Where used	
Opt Action ■ *FORGOT QSEC111955 - QSEC114512 - QSEC120754 - QSEC121040 - QSEC122323 - QSEC122533 - QSEC170020	Description Keep user FORG Created by Act Created by Act Created by Act Created by Act Created by Act Created by Act Created by Act	0T always *ENAE ionZ ion 2 ion ion ion ion	BLED		
F3=Exit F6=Add	new F8=Prin	t F12=Cancel			Bottom

6. Type 1 to select an Action to modify or press F6 to add a new Action. Follow the definitions screens to define pre-defined message text and one or more recipient addresses. You may prefer to have the system send a default message or you may select a pre-defined message. Finally, specify how to send the alert using the screen below.

Type cho	ices, press Enter		
Action Descri	Name ption	ACT001	
Define a	lert message reci	pients	
1=E-mai 8=Syslo	l 2=Message Queu g 9=SNMP	ie 3=User 4=Remote User 5=LAN user 6=St T=Twitter	1S 7=Specia
Messag	P ID	#AUTO #AUTO Message ID	
Tune	Recipient addres	**************************************	
Type 1	Recipient addres	ss, *USER, *DEV, *JOB, *SYSTEM	
Type 1 2 8	Recipient addres MARKETING@RAZLEE QSECOFR	ss, *USER, *DEV, *JOB, *SYSTEM	
Type 1 2 8 9	Recipient addres MARKETING@RAZLEE QSECOFR	ss, *USER, *DEV, *JOB, *SYSTEM	
Type 1 2 8 9	Recipient addres MARKETING@RAZLEE QSECOFR	ss, #USER, #DEV, #JOB, #SYSTEM	
Type 1 2 8 9 -	Recipient addres MARKETING@RAZLEE QSECOFR	ss, *USER, *DEV, *JOB, *SYSTEM	More
Type 1 2 8 9 -	Recipient addres MARKETING@RAZLEE QSECOFR	ss, *USER, *DEV, *JOB, *SYSTEM	 More
Type 1 2 8 9 - F3=Exit	Recipient addres MARKETING@RAZLEE QSECOFR F4=Prompt	F12=Cancel	More



Modify Alert Message

Your rule may send alert messages to designated personnel via one or more of the following methods:

- E-mail
- Local workstation message queue using the SNDMSG TOMSGQ command
- Local user message queue using the SNDMSG TOUSER command
- Remote user on another System over the SNADS network using the SNDNETMSG command
- SMS to a cellular telephone
- SYSLOG
- SNMP





Certification Checklist for RSA Security Analytics

Date Tested: December 2, 2013

Certification Environment				
Product Name	Version Information	Operating System		
RSA Security Analytics	10.2SP2	Virtual Appliance		
IBM-i	7.1	OS/400 V5R3 or higher		
Raz-Lee iSecurity	11.4	IBM-i		

Security Analytics Test Case	Result
Device Administration	
Partners device name appears in Device Parsers Configuration	\checkmark
Device can be enabled from Device Parsers Configuration	\checkmark
Device can be disabled from Device Parsers Configuration	\checkmark
Device can be removed from Device Parsers Configuration	\checkmark
Investigation	
Device name displays properly from Device Type	\checkmark
Displays Meta Data properly within Investigator	
GLS / PAR	\checkmark = Pass \times = Fail N/A = Non-Available Function





Appendix

Security Analytics Disable Device Parser

To disable the Security Analytics Integration Package but not delete the XML from the system, perform the following:

- 1. From the Security Analytics menu, select **Administration > Devices**.
- 2. Check your Log Decoder from the **Devices** list and then select View > Config.

De	evices					
+	- 🛛	🛄 View 💿 📑 Act	ivate 👼 Deactivate	😃 Restart Services	U Reboot Device	e 🗃 Device Updates 📀
	Licensed	👔 System		Address	Po	rt Type
	yes 🔒	Stats		127.0.0.1	51	113 Reporting Engine
	yes	Explore		10.100.53.97	50	105 Concentrator
	yes	E Logs		10.100.53.98	50	101 Log Collector
	yes	Security		10.100.53.98	50	102 Log Decoder

- 3. From the **Device Parses Configuration** window, scroll down to the device you wish to disable and uncheck the box.
- 4. Click Apply to save settings.

Security Analytics Remove Device Parser

To remove the Security Analytics Integration Package files from the environment, perform the following:

- 1. Connect to the Security Analytics Log Decoder/Collector Server using SSH and open the /etc/netwitness/ng/envision/etc/devices folder.
- 2. Search for the device you are targeting for removal and delete the folder containing the device xml.
- Returning the system to its original state will require additional changes to the table-map.xml and indexconcentrator-custom.xml files. To identify which variables were added locate the zip file downloaded from the RSA Website and open the index-concentrator-custom.xml contained within.
- 4. Edit **index-concentrator-custom.xml** on the SA server removing only the lines present in the **index-concentrator-custom.xml** extracted from the zip.



