

# **RSA Security Analytics Ready Implementation Guide**

Last Modified: December 2<sup>nd</sup>, 2013

### **Partner Information**

Product Information	
Partner Name	Array Networks
Web Site	www.arraynetworks.net
Product Name	SPX Series Universal Access Controllers
Version & Platform	8.4.6
Product Description	Engineered from the ground up for high-performance universal secure access, Array Networks SPX Series Universal Access Controllers provide secure access to networks, applications and data for any class of user, on any device in any location. Using end-point security, server-side security and encryption for data in motion, the SPX Series holds all users to the same security standards regardless of whether they are employees, partners or visitors located inside or outside the corporate network. Whether at corporate headquarters, a branch office, home, a wireless hotspot or on the go, users can quickly and easily use PCs, laptops, smart phones and tablets to quickly and easily access email, file shares and applications.







#### **Solution Summary**

Integrating Array Networks SPX Series Universal Access Controllers with RSA's enVision involves directing the SPX's logs to the Security Analytics server.

Format: log host <IP\_of\_SA\_server> <destination\_port> <protocol> Example: log host 10.10.39.60 514 udp

The Array Networks SPX Series Universal Access Controllers paired with RSA Security Analytics allows customers to monitor, provide compliance reports for government and industry regulations and perform forensic analysis of logs generated. Additional benefits include tracking user activity and detecting anomalous behavior.





#### **Release Notes**

Release Date	What's New In This Release
12/02/2013	Initial SA support for Array SPX





# **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.

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

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

Filename	File Function
arrayspxpe.envision	This file is deployed during the <b>Deploy Security Analytics Integration</b>
	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
	parser/XML. The format of the file consists of:
	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	Hesource		Manage 🔛 🍈 🖳 RSA Security Analytic				
Search Criteria			<1	Matching Resources				
Keyword(s):				📰 Show Results 💿   🔚 Details 🛛 Subscribe 🗐 Deploy				
enVision Resource Types:				Envision Content File type LOGDEVICE upd Hed Thu Sep 05 2013 09:58:12 GMT-0400				
Tags:			>	(Eastern Daylight Time) version 0.20 size 4.2 MB subscribed yes This file is used to update the content file for enVision the netwitness for logs				

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



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

м	lanual Resource Deployment								
	—Deploy the followi	ng resources		Devices					
	Flle Name	Device Type	Description	Devices Groups					
	Envision Con	LOGDEVICE	This file is used to up	✓ Ø 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.

<ul><li>Administration</li></ul>	⊙ 🗄 De	evices	Ξ Та	isks C	🖵 Syst	em						
Groups				Devices								
+ - ☑   Ⅲ View ⊙ +				- 🗆	í   🎟 v	iew 🖂 📑 Activate	👼 Deactivate	🙂 Restart Services	😃 Reboot Dev	vice 🔁	Device Updates 📀	
Name	Address	Туре		Licensed	2 🖉	Name ^		Address	1	Port	Туре	
				yes	<b>₽</b> ≠	vm3105		127.0.0.1		51113	Reporting Engine	
				yes	ø	<b>∃ vm3106</b>		10.100.53.106		50105	Concentrator	
				yes	<i>S</i>	vm3107		10.100.53.107		50101	Log Collector	
				yes	1	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 D	evice 🛛 🗧 Device Updates 📀
Name Address Type	🗆 Licensed 🔓 🥡 System	Address	Port Type
	🔲 yes 🗧 上 Stats	127.0.0.1	51113 Reporting Engine
	yes Config	10.100.53.106	50105 Concentrator





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

Administration 🛛 🗐 Devices 🔚 Tasks 🖵 System									
🚠 Change Device   🖳 vm3107 > 🎄 Config 👳									
General Files App Rules Cor	relation Rules Feeds	Parsers	Applia	nce Service Configuration					
System Configuration				Parsers Configuration					
Name	Config Value			Name	Conflg Value				
Compression	0		<b>^</b>		<b>V</b>				
Port	50002		=	BITTORRENT					
SSL	off			FeedParser	<b>V</b>				
Stat Update Interval	1000		-	FIX					
Log Decoder Configuration				∃ GeolP					
Name	Conflg Value			GNUTELLA					
∃ Adapter			Â	I IMAD	<b>V</b>				
Berkley Packet Filter			E	Device Parsers Configuration					
Capture Interface Selected		Name	Config Value						
🖃 Cache				actiancevantage	$\checkmark$				
Cache Directory	/var/netwitness/logdecoder/cache			actividentity	V				
Cache Size	4 GB			airdefense	$\checkmark$				
				airmagnot					

#### 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		evices	⊟ Та	sks C	Syste	em					
Groups	Devices										
+ - 🗹   🎟 View 🛛 🕴 + - 🗹   🎟 View 🖓 🖙 Activate 🎧 Deactivate 🙂 Restart						🙂 Restart Services	😃 Reboot De	vice 🗃	Device Updates 📀		
Name	Address	Туре		Licensed	2 💋	Name ^		Address		Port	Туре
				yes	₽ 🥖	vm3105		127.0.0.1		51113	Reporting Engine
				yes	ø	<b>⊎ vm3106</b>		10.100.53.106		50105	Concentrator
				yes	ø	vm3107		10.100.53.107		50101	Log Collector
				yes	1	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**.

2vml version_"1 0" opcoding_"utf 0"2
i versione 1.0 encournge uct-8 :>
attributes.
provision and the finale of the Conduction in the universal table
formation of the language key data time. See LanguageManagen Defaults to "Toyt"
format: optional. The anguage key data type, see LanguageManager. Defaults to Text.
riags: Optional, one of None Frielburation fransfert, befaults to None.
Tallurekey: Optional. The name of the NW key to write data if conversion fails. Defaults to system
parse.error meta.
nullTokens: Optional. The list of "null" tokens. Pipe separated. Default is no null tokens.
->
nappings>
<pre><!-- These entries are defined and created by Panorama and can be turned on/off here--> cmapping envisionName="device.class" flags="None" /&gt;</pre>
<mapping_envisionname="macaddr" flags="None" format="MAC" nwname="eth.host"></mapping_envisionname="macaddr">
<mapping envisionname="mail_id" flags="Transient" nwname="mail_id"></mapping>
<mapping envisionname="mask" flags="Transient" nwname="mask"></mapping>
<mapping envisionname="message_body" flags="Transient" nwname="message.body"></mapping>
<mapping envisionname="network_port" flags="Transient" format="Int32" nwname="network.port"></mapping>
<pre><mapping envisionname="msg" flags="Transient" format="Text" nwname="msg"></mapping></pre>
<mapping envisionname="network_service" flags="Transient" nwname="network.service"></mapping>
<pre><mapping envisionname="node" flags="None" nwname="node"></mapping></pre>
<pre>boing envisionName="nodena" " Name="node.name" flags="To the to" /&gt;</pre>
<pre><mapplu,< td=""></mapplu,<></pre>
<pre>smapping environmenter"workspace desc" nwName</pre>
<pre>mapping envisionName="workstation" nwName="alias host" flags="None" /&gt;</pre>
<pre>ampping envisionName="zone" nwName="zone" flags="Transient"/&gt;</pre>
mappings>

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

Administration	• <b>E</b> d	evices	∃Та	isks C	Syste	em					
Groups			De	Devices							
🕂 — 🗹   🎹 Viev			+	- 🗷	🎹 Vi	iew 🗵 📑 Activate	👼 Deactivate	🙂 Restart Services	😃 Reboot De	evice 🗃	Device Updates 📀
Name	Address	Туре		Licensed	2 🖉	Name ^		Address		Port	Туре
				yes	<b>e</b> 💉	vm3105		127.0.0.1		51113	Reporting Engine
				yes	ø	<b>⊎ vm3106</b>		10.100.53.106		50105	Concentrator
				yes	ø	vm3107		10.100.53.107		50101	Log Collector
				yes	\$	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 Array Networks SPX 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 Array Networks components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

#### Array SPX Configuration

- 1. Login to the WebUI.
- 2. Select Monitoring from the column on the left.
- 3. Select **Enable Logging**. If the check box is grayed out, enter *Config* mode by clicking the **Config** radio button in the upper left corner.

Arrav	Username: array	Language: English 💽 Help   Logout
NETWORKS	SPX Host Name: Test2	Save Config
Mode: C Enable C Config		
Base System	Logging SNMP Statistics	
Global Home	General Syslog Servers HTTP Logging L3 VPN Log	ging ATF Logging Email Buffer
SYSTEM CONFIGURATION	GENERAL SETTINGS	
General Settings	Enable Logging: 🔽	
Advanced Networking	Enable Timestamp: 🔽 (Check this box to include the	mestamp on log entry)
Clustering	Enable Time Zone: 🔲 (Check this box to include ti	me zone on log entry)
Webwall	Facility: LOCALO	
ADMINISTRATORS	Level: 6: INFO	
Global Admin		
Admin Roles	CLEAR LOG SETTINGS	
Admin Authentication	Clear Log Settings: Clear NOW	
GLOBAL RESOURCES	* Note: Clearing settings will a	also set HTTP Logging and Email Alert settings back to the default.
Local Databases		
SSL Backend Server	LOG TEST	
Thin Client Support	Generate a Test Log Message: Generate NOW	
ADMIN TOOLS		
System Management		
Config Management		
Troubleshooting		
Change Password		
VIRTUAL SITES		
Virtual Sites		
Service Management		





4. Navigate to Logging > Syslog Servers and click Add Server Entry.



5. Enter the **Host IP** and **Host Port** information of the Security Analytics log server. Select the log levels or leave all the boxes unchecked to enable all log levels.

	Syslog Se	rvers	HTTP Logging	L3 VPN Logging	ATF Logging	Email	Buffer	
ADD SER	VER ENTRY				Car	ncel   Sav	ve & Add Anot	ther   Save
* Note	: The Protoco	I (TCP o	or UDP) used for e	ach Remote Syslog Se	rver must be the :	same for A	ALL servers.	
	Host IP:	0.10.39	.60					
	Protocol:		(If Protocol is dis	abled, this server will i	use the same prot	ocol from	other configure	d server)
	Host Port:	514						
S	ource Port:	514						
Log Lev	el [Descript	ion (Lo	g Number)]: (D	efault = All log leve	ls if no checkbo	x below	is checked.)	
		_						
[EMERG	SENCY (7)]: I							
EMERG	GENCY (7)]:   ALERT (6)]:							
EMERG [/ CRI	ENCY (7)]:   ALERT (6)]:   TICAL (5)]:							
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6. Click Save.





7. The Security Analytics server will now appear in the list.

Username: array			Langua	ge: Engl	ish		Help   Logout		
SPX Host Name: Test	2			ļ					Save Config
Logging SNMP S	tatistics								
General Syslog S	ervers HT	FP Logging	L3 VPN I	Logging	ATF Logging	Email	Buffer		
REMOTE SYSLOG SERVER CONFIGURATION Delete Server Entry   Add Server Entry									Server Entry
* Note: The Proto	* Note: The Protocol (TCP or UDP) used for each Remote Syslog Server must be the same for ALL servers.								
Host IP	Host Port	Protocol	Source Port	Log Level					
1 10.10.39.60	514	udp	514	EMERGEN	CY, ALERT, CRITICA	L, ERROR, W	ARNING, NOT	ICE, INFO	), DEBUG

8. Click Save Config to commit the changes made to the configuration to memory.

Note: The previous configuration may also be configured via the Command Line Interface (CLI). Refer to Appendix A.





# Certification Checklist for RSA Security Analytics

Date Tested: December 2<sup>nd</sup>, 2013

Certification Environment						
Product Name	Version Information	Operating System				
RSA Security Analytics	10.2 SP2	Virtual Appliance				
Array Network SPX Series	8.4.6	Proprietary				

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	V			
Displays Meta Data properly within Investigator	$\checkmark$			
JJO / PAR	✓ = Pass × = 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 💿 📑 Ad	ctivate 👼 Deactivate	U Restart Services	😃 Reboot Devi	ice 🗃	Device Updates 📀
	Licensed	👔 System		Address	I	Port	Туре
	yes 🕻	Stats		127.0.0.1	:	51113	Reporting Engine
	yes	Explore	)	10.100.53.97	5	50105	Concentrator
	yes	E Logs		10.100.53.98	:	50101	Log Collector
	yes	Security		10.100.53.98	:	50102	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 indexconcentrator-custom.xml extracted from the zip.





### Appendix A

#### **Array SPX CLI Configuration**

Test2>enable Test2# configure terminal Test2(config)#log on Test2(config)#log host 10.10.39.60 514 udp 514 Test2(config)#write memory



