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# **OpenText ArcSight Log Anonymizer**

Software Version: 0.6.0 Beta

Installation and User Guide for Log Anonymizer

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# Log Anonymizer

This guide provides information about installing and configuring the Log Anonymizer tool.

#### **Intended Audience**

This guide provides information for IT administrators who are responsible for managing the ArcSight software and its environment.

#### Additional Documentation

The ArcSight SmartConnector documentation library includes the following resources:

- Technical Requirements Guide for SmartConnector, which provides information about operating system, appliance, browser, and other support details for SmartConnector.
- Installation and User Guide for SmartConnectors, which provides detailed information about installing SmartConnectors.
- Configuration Guides for ArcSight SmartConnectors, which provides information about configuring SmartConnectors to collect events from different sources.
- Configuration Guide for SmartConnector Load Balancer, which provides detailed information about installing Load Balancer.

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the documentation site for ArcSight SmartConnectors 8.4.

#### **Contact Information**

We want to hear your comments and suggestions about this book and the other documentation included with this product. You can use the comment on this topic link at the bottom of each page of the online documentation, or send an email to MFI-Documentation-Feedback@opentext.com.

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# **Product Overview**

Log Anonymizer is a tool that anonymizes Personally Identifiable Information (PII) defined in the security related log files. It will anonymize any text-based data, including IP, MAC, and email addresses to help ensure that PII data is obfuscated. The originating log file data is never altered.

Not having access to customer generated log files is a key contributor for increasing lag times in keeping parsers up-to-date with the latest versions of security device log data. The purpose of Log Anonymizer is to enable customers and partners to send anonymized log data to the ArcSight teams to keep the SmartConnector parsers up-to-date with the latest changes.

### **Anonymizer Features**

Log Anonymizer uses a step-by-step wizard process that supports the anonymization of:

- Field names defined in log data generated and parsed by a SmartConnector.
- Field names defined in multiple text-based log formats and field structures such as CEF, JSON, and XML.
- Unstructured log data (for example, Syslog), including any new text-based log formats.
- Single log files, multiple selected log files, or all log files in a folder. The Anonymizer may be used for anonymizing log data for Intelligence analytics using the same anonymization key for all log data.
- View log data anonymization as you select fields to be anonymized. Anonymization of strings is case-sensitive, so 'THOR' and 'thor' are different strings and must be anonymized separately.

**Note**: After a string or field is anonymized, if you do not like the resultant value, then you can re-anonymize the string value to a new value.

- Configurable and predefined text strings that are always anonymized (for example: 'root', 'admin', 'administrator', and so on.)
- Built-in scanning and anonymization of all IP, MAC, and email addresses. Note that IP Addresses might be the assigned values that are not valid (for example: 809.264.312.418).

Regardless of the anonymization option chosen, the source log file is never altered.

The Anonymizer supports previewing and anonymizing log record fields and strings prior to saving the anonymized file(s).

Anonymization Method <table-cell> 2. Ge Manual Aut</table-cell>	enerate Key 🛛 😒	3. Select Files 🖌	4. Review and Process			
Patterns ① IP addresses MAC addresses Email addresses Search Mode String Regular Expression Strings Enter value to anonymize + root × admin ×	Preview Reset * # Records <135> 02/02 SPCBId 2190 AES-256-CBC 1 "4FC0AEC570 ValidFrom " SessionId: <134> 02/02 crb\vsh1290 2 - Nat in Ma	/2022:17:38:19 GMT 09 - ServerIP 23.27. -SHA" - Session New AD70B923F32ED5744B43 Sep 22 00:00:00 2021 102 /2022:17:50:06 GMT 23.27.12.21 - Session prod. LT" - Versure	0-PPE-1 : default SSLLOG SSL 69.14] - ServerPort 443 - Pro - SERVER_AUTHENTICATED -Seria 7C" - User: "sha256" - Signat GMT" - ValidTo "Sep 22 23:59 0-PPE-3 : default SSLVEN LOGI onId: 229 - User: "sha256" -	Anonymized values (17) HANDSHAKE_SUCCESS tocolVersion TLSv1 INumber ureAlgorithm "sha2 :59 2022 GMT" - Ha N 461735 0 : Conte User crb/vsh129 -	Search 365773 0 : Back .2 - CipherSuite 56WithRSAEncrypt ndshakeTime 6 ms xt Client_ip 23.27 puv: Android 10	:end : TLS1- :ion" - ;\n"
administrator ×	KB2003) App <134> 02/02 - Nat ip Ma	leWebKit/537.36 (KHT) /2022:17:54:06 GMT	ML 0-PPE-0 : default AAATM LOGOU	T 358181 0 : User /2022:17:49:59 GMT	CRB\VSH129 - Cl " - End time	.ient_i

However, there are some limitations to previewing log record fields and strings as follows:

- Log files > 100 MB are not previewed when the **Anonymize Using a Connector** option is chosen.
- Log files > 200 MB are not previewed when the **Anonymize Manually** option is chosen.

### **Anonymizer Limitations**

The Anonymizer has the following limitations:

- It supports only SmartConnector regex parsers. For non-regex parsers, you must use the **Anonymize Manually** option.
- It does not function if you do not have access to a valid SmartConnectors unobfuscated parser folder.

### Preparing Log Files Prior to Anonymizing

The contents of a security log file can be a few records to millions of records. Although the Anonymizer obfuscates data regardless of the number of records. Ensure that the log file that needs to be anonymized and sent to the ArcSight team for parser file updates contains, at a minimum, a single record of each log record type.

Consider using a text editor (such as notepad++) to delete unnecessary records from the log data source file prior to anonymizing, limiting the number of records to those that are new log record types or contain only changes.

## **Best Practices and Warnings**

The following are the best practices for using the product and warnings you might encounter while using the product:

- Because anonymization is a CPU intensive operation, do not install and run the Anonymizer on a system that is running production or sensitive workloads.
- It is a best practice to copy the security logs to a different system from their source system, edit them with text editor to delete unnecessary log file data, and run the anonymization on a non-production machine.
- Large log files might take minutes to hours to complete, while small log files (< 10MB) might take seconds to complete. If you run anonymization for large files on your personal workstation, you might experience CPU resource contention issues.
- Ensure that you have sufficient disk space to store the anonymized log file and its compressed finished output (.zip file). Free space must be at least twice the size of the log file or files being anonymized.

# Launching the Anonymizer

The Anonymizer is a Windows-based application. It is delivered as a self-contained .zip file. To launch it, just unzip it on the system you want the anonymization process to run on.

The zip file contains:

- **\bin** Application binaries files and executable. Double-click **Anonymizer.exe** to launch the Anonymizer.
- \doc Documentation.
- \samples Sample log files for your initial testing and familiarity with the Anonymizer.
- **Readme\_before\_installing.txt** Guidance before installing the Anonymizer.

The **\samples** folder contains the following sample log files and subfolders:

Log File Name	Format	Parser	Description
2021-12-20-13-16- 22.885.cef	CEF	None	This is a structured CEF log as an example of what a vendor might provide, but it has no parser yet. Use the <b>Anonymize Manually</b> option.
allevents.xml	XML	None	This is a structured XML log as an example of what a vendor might provide but it has no parser yet. Use the <b>Anonymize Manually</b> option.
logs.json	JSON	None	This is a structured JSON log as an example of what a vendor might provide but it has no parser yet. Use the <b>Anonymize Manually</b> option.

unstructured.log	unstructured	None	This is an unstructured log as an example of what a vendor might provide, but it has no parser yet. Use the <b>Anonymize Manually</b> option.
\aixaudit\aixaudit_ syslog.log and \aixaudit\aixaudit_ syslog_45kb.log	CEF	Choose the 'syslog' connector and 'aixaudit_syslog'	Use the <b>Anonymize Using a Connector</b> option.
\whatsup\whatsup_ syslog.log	CEF	Choose the 'syslog' connector and' whatsup_syslog'	Use the <b>Anonymize Using a Connector</b> option.

### **Operating System Requirements**

Windows 10 or later

# Using the Anonymizer

To launch and use the Anonymizer, browse to the installation folder and double-click the **\bin\anonymizer.exe** executable.

### Anonymizer Methods

The following methods are available to anonymize the log files individually or all log files available in a folder:

#### • Anonymize Using Connectors

Use this method if there is a SmartConnector and Parser for the log source, even if the log source data is not fully recognized and parsed by the current version of the parser.

When this method is chosen, the Connector and its parser must match the log data source. For example, an AlXauditd log will require a parser file specifically written for AlXauditd and will neither recognize nor anonymize a Cisco Pix log.

#### Anonymize Manually

Use this method to manually anonymize all occurrences of the selected PII text strings. This method is independent of parser availability for the log source.

### **Anonymizer Settings**

You must configure the Anonymizer to anonymize any files. To open the configuration dialog, click **Anonymizer Settings**.



The following dialog is shown.

### Anonymizer Settings

Configure the unobfuscated parser folder\*



### **Configuring the Un-obfuscated Parser Folder**

The Anonymizer works only if it has access to a valid ArcSight SmartConnectors unobfuscated parser folder. The un-obfuscated parser folder is shipped with the SmartConnectors and requires an ArcSight license to access it.

To configure the un-obfuscated parser folder:

- 1. Open the **ArcSight-ConnectorUnobfuscatedParsers-v.r.sp.build.x.zip** file present in the SmartConnector installation media.
- 2. Copy the Un-obfuscated parser folders to your system and unzip them.
- 3. In the **Configure the unobfuscated parser** folder field in the **Anonymizer Settings** dialog, specify the location of the unzipped folder obtained in the previous step.

#### **Configuring Predefined Strings for Anonymization**

The predefined text strings that are anonmyzied by default are "root", "admin", and "administrator".

To add a new string, specify the string in the **Configure predefined strings to be anonymized** field in the **Anonymizer Settings** dialog, then press Enter or click +.

To remove a default or a newly added string, click **x** against the string.

### Anonymization Key

All Anonymizer methods require you to set an alphanumeric key that is used to anonymize log text. You can either provide your own key by typing it in, or you can generate a 64-character key. The key can be downloaded and saved to a text file in case you want to use the same key when anonymizing other log files. **Note**: For the ArcSight Intelligence product, logs typically spanning a 30-to-45-day duration are required to determine analytic baselines and anomalies. You must use the same anonymization key for log files spanning multiple days. For ArcSight SmartConnectors, you can use the same anonymization key or different anonymization keys when anonymizing individual log files.

### **Anonymization Pattern Matching**

The Anonymizer scans log records for specific patterns and then anonymizes the text that matches any of these patterns. You can toggle the pattern-matching on and off by checking which patterns you would like to be enabled. The supported patterns are:

- IP addresses
- MAC addresses
- Email addresses

For IP addresses, both IPv4 and IPv6 addresses are recognized and anonymized.

### Anonymization of Specific Fields

The Anonymizer enables you to search for specific fields in logs and anonymize those fields. The following are the ways by which you can search for fields to anonymize:

#### • Preview Page Search Mode

The Search Mode option is a case-insensitive search option available in the upper right corner of the **Preview** page. With this option, you specify a text in the search box, and only those records that contain the text are displayed, with every instance of the text in each of the records highlighted in yellow.

Preview	Reset 5 Anonymized values (2) computer ×
#	Records
2	<events<event xmlns="http://schemas.microsoft.com/win/2004/08/events/event"><system<provider guid="{54849625-5478-4994-A5BA-3E3B0328C30D}" name="Microsoft-Windows-&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Security-Auditing"></system<provider><eventid>4702</eventid><version>0</version></events<event>
	<level>0</level> <task>12804</task> <opcode>0</opcode> <keywords>0x80200000000000</keywords> <timecreated systemtime="2014-0&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;29T12:46:20.6689453002"></timecreated> <eventrecordid>293051558</eventrecordid> Correlation/> <execution <="" processid="484" th="" threadid="3348"></execution>
	<channel>Security</channel> <computer>THOR.d8.arcsight.com</computer> <security></security>
	Name='SubjectUserSid'>S-1-5-18 <data name="SubjectUserName">THOR\$</data> <data name="SubjectDomainName">D8</data> <dat< th=""></dat<>
	Name='SubjectLogonId'>0x3e7 <data name="TaskName">\Microsoft\Windows\Customer Experience Improvement</data>
	Frogram\Server\ServerRoleUsageCollector <data name="TaskContentNew">&lt;?xml version="1.0" encoding="UTF-16"?</data>

To exit search mode, press **X** or delete the specified text from the search box.

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• Field Name Search

When anonymizing a structured log file (such as CEF, JSON, or XML), you can specify a text in the **Fields** search box. The search result is a list of fields or tags that begin with the specified text. You can then select the required field or tag from the list for anonymization.

°2014-0 °3348'/
ata> <da< th=""></da<>

### **Anonymization Using Connectors**

This option uses a SmartConnector parser to format the log data into **FieldName=FieldValue** pairs for the fields that are recognized by the parser. You might also anonymize the default string values or specific strings as required.

Perform the following steps to anonymize the data using connectors:

- 1. Double-click the **\bin\Anonymizer.exe** file to launch the Anonymization tool.
- 2. Select the Anonymize Using Connectors option.
- 3. Select the connector from the list.
- 4. (Conditional) If you choose the **syslog** connector, you must next choose which syslog connector is associated with the log source.
- 5. Enter your Anonymization Key or generate the key automatically. To generate a 64character key, click **Generate**. The maximum length of the Anonymization Key is 64 characters.
  - To copy the key, click **Copy Key**.
  - To download the key and save it to a file, click **Download Key**.

6. Choose one of the following options to determine the log files for anonymization:

#### • Select Specific Log Files

Browse for and select one or more log files to anonymize. After selecting the files, if you need to remove any of them, click x for the corresponding file.

If you have selected only one log file to anonymize, you need to view the log file and anonmyize manually by clicking Preview Log.

If you have selected more than one log file, you need to determine which fields and strings need anonymization. All occurrences of the fields and strings in all the selected files are anonymized. You cannot manually adjust the anonymization in any of the files.

#### • Select All Log files in a Folder

Browse for the folder to anonymize. When you choose this option, all the files in the selected folder are anonymized, except for subfolders, .zip, and .exe files.

You need to determine which fields and strings need anonymization. You cannot manually adjust the anonymization in any of the files.



**Warning**: Ensure that only the required log files are available in the folder. Existence in the folder is sufficient to have the file anonymized.

7. Click **Save Anonymized Files**. The files are anonymized and saved to a **.zip** folder. The zipped folder also contains the parser that was used for anonymization.

After reviewing the contents of the .zip folder, you can share the .zip folder with OpenText to help us improve our connectors and parsers using your anonymized PII data.

### Anonymize Manually

The Anonymizer recognizes both structured and unstructured log formats. Manual anonymization on structured logs that are formatted in either CEF, JSON, or XML enables anonymization based on field names or tags defined in the log data. Unstructured log files do not conform to either of these formats. For examples of these log formats, see "Log Format Examples" on page 17.

#### Perform the following steps to anonymize manually:

- 1. Double-click the **\bin\Anonymizer.exe** file to launch the Anonymization tool.
- 2. Select the Anonymize Manually option.

- 3. Enter your Anonymization Key or generate the key automatically. To generate a 64character key, click **Generate**. The maximum length of the Anonymization Key is 64 characters.
  - To copy the key, click **Copy Key**.
  - To download the key and save it to a file, click **Download Key**.
- 4. Browse to and select the log file name to anonymize. Click **Preview Log and manually anonymize the log**. The log file details are displayed record-by-record.
- 5. In the event log shown, select the patterns, field names, string values, and custom regex values you want to anonymize. The matching text is highlighted in green. Check the patterns you want scanned for and enter the string/custom regex values you want to be anonymized.
  - For CEF, JSON, and XML formatted logs, choose the field names or tags you want to anonymize. All occurrences of the field names or tags are anonymized. Or, click **X** next to it to reset its value.
  - To add a string, type it into the Strings dialog box and press +. All occurrences of the strings are anonymized. Or, click **X** next to it to remove its value.
  - To add a custom regex, type a regular expression into the custom regex dialog box and press +. All occurrences of the strings that match the regular expression are anonymized. Or, click **X** next to it to remove it.
  - To add a pattern, select the check box of the pattern. To remove a pattern clear the check box.

**Note**: After a string or field is anonymized, if you do not like the resultant value, you can re-anonymize the original string or field by specifying it in the **Strings** dialog box, and clicking +.

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### Patterns (i)

- IP addresses
- MAC addresses
- Email addresses

### Search Mode

- String
- Regular Expression

### Strings 🛈

Enter value to anonymize

root	$\times$	admin	×	

administrator	×
---------------	---

6. To discard all your anonymization changes or to start over, click **Reset**.

A warning is displayed. Click **OK**, to revert file to its original state without anonymization.

- Use the Search text box to search for the required text within the file. Records containing the text are displayed in the table. If there are no matches, no records are shown. To exit search mode and see the full log, you must remove all text in the Search field.
- 8. Click Save Anonymized File to save the anonymized file to a .zip file.

9. To close the current log and go back to the main screen, click the **Close Log File** icon in the upper right corner and go back to the main screen. Changes performed to the file are not saved.

After reviewing the contents of the .zip folder, share the .zip folder with OpenText to help us improve our connectors and parsers.

### Log Format Examples

This section contains some sample anonymized logs formatted from unstructured, CEF, JSON, and XML log sources.

#### **Unstructured Log Example**

Previe	ew Reset 5	Anonymized values (1030)	Search X
#	Records		A
1	Oct 21 07:43:48 31.86.1.24 aaa[452]: <125022> <wah< th=""><th>N&gt;  aaa  Authentication failed</th><th>for User lejkc,</th></wah<>	N>  aaa  Authentication failed	for User lejkc,
'	Logged in from 31.86.1.53 port 20817, Connecting t	to 31.86.1.24 port 4343 connect	ion type HTTPS
2	Oct 21 07:43:53 31.86.1.24 aaa[452]: <125024> <no< th=""><th>I&gt;  aaa  Authentication Succee</th><th>ded for User lejkc,</th></no<>	I>  aaa  Authentication Succee	ded for User lejkc,
2	Logged in from 31.86.1.53 port 20818, Connecting t	to 31.86.1.24 port 4343 connect	ion type HTTPS
3	Oct 28 02:19:07 31.86.1.24 aaa[452]: <125025> <inh< th=""><th>70&gt;  aaa  Radius Authentication</th><th>is disabled</th></inh<>	70>  aaa  Radius Authentication	is disabled
4	Oct 28 02:19:07 31.86.1.24 aaa[452]: <125032> <no< th=""><th>'I&gt;  aaa  Authentication Succee</th><th>ded for User lejkc,</th></no<>	'I>  aaa  Authentication Succee	ded for User lejkc,
	Logged in from 31.86.1.53 port 13875, Connecting t	31.86.1.24 port 22 connectio	n type SSH
5	Oct 17 08:40:03 31.86.1.24 authmgr[486]: <132023>	<errs>  authmgr  802.1x authen</errs>	tication is disabled
	in profile Station 23:11:a6:21:19:24 23:11:18:fe	:e5:11	

#### **CEF Formatted Log Example**

root >	Records
1 admini	CEF:0 ArcSight ArcSight 8.2.0.8444.0 agent:030 Agent [arc_syslog] type [syslog] started Low  eventId=1 start=1639986383115
	end=1639986383115 mrt=1639986383123 categorySignificance=/Normal categoryBehavior=/Execute/Start
	categoryDeviceGroup=/Application catdt=Security Management categoryOutcome=/Success categoryObject=/Host/Application/Servi
	art=1639986385216 cat=/Agent/Started deviceSeverity=Warning rt=1639986383115 fileType=Agent cs2= <resource< td=""></resource<>
	ID\="3zILJ1n0BABCARuJbu+0RYQ\=\="/> cs2Label=Configuration Resource ahost= 42.376.697.16 agt= 42.376.697.16 agentZoneURI=/
	Zones/ArcSight System/Private Address Space Zones/RFC1918: 42.1.1.1 42.287.287.287 amac=54-18-13-18-20-23 av=8.2.0.8444
	atz=Asia/Kolkata at=syslog dvc= <mark>42.376.697.16</mark> deviceZoneURI=/All Zones/ArcSight System/Private Address Space Zones/RFC1918
	42.1.1.1 - 42.287.287.287 dvcmac= 54-18-13-18-20-23 dtz=Asia/Kolkata geid=2907917612082809344 _cefVer=0.1
	aid=3zILJ1n0BABCAAuJbu+0RYO\=\=

#### JSON Formatted Log Example

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16	"device": "Computer",
17	"id": "Ocaq2bbc2RCsUlJ194x6",
18	"ipAddress": " <mark>14.223.908.21</mark> ",
19	"geographicalContext": {
20	"city": null,
21	"state": "California",
22	"country": "United States",
23	"postalCode": null,
24	"geolocation": {
25	"lat": 34.0544,
26	"lon": -118.244
27	}

### XML Formatted Log Example

#	Records
1	xml version="1.0" encoding="utf-8" standalone="yes"?
2	<events><event xmlns="http://schemas.microsoft.com/win/2004/08/events/event"><system><provider guid="{54849625-5478-4994-A5BA-3E3B0328C30D}" name="Microsoft-Windows-&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Security-Auditing"></provider><eventid>4702</eventid><version>0</version></system></event></events>
	<level>0</level> <task>12804</task> <opcode>0</opcode> <keywords>0x80200000000000</keywords> <timecreated systemtime="2014-0&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;29T12:46:20.668945300Z"></timecreated> <eventrecordid>293051558</eventrecordid> Correlation/> <execution <="" processid="484" th="" threadid="3348"></execution>
	<channel>Security</channel> Computer>4689.22.ba08393e.416 <security></security> <eventdata><data< th=""></data<></eventdata>
	Name='SubjectUserSid'>3-5-1-824689\$>Data Name='SubjectDomainName'>D8 <d< th=""></d<>
	Name='SubjectLogonId'>18140 <data name="TaskName">\Microsoft\Windows\Customer Experience Improvement</data>
	Program\Server\ServerRoleUsageCollector <data name="TaskContentNew">61t;?xml version="1.0" encoding="UTF-16"?</data>

# Beta Component Support and Contacts

This release is a Beta version and is not supported by the ArcSight Customer Support Team. It is supported directly by ArcSight R&D and Product Management.

Contact the people listed below for assistance and feedback on the Log Anonymizer

- Feedback -
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