

Technology Add-on for HP ArcSight CEF data inputs

Release Notes

Version 2.2.0

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# Legal Notices

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## Warranty

The current version of Technology Add-on for HP ArcSight CEF data inputs is certified by Splunk and does NOT contain any malicious code which may impact the Splunk environment, including the Splunk application, the backbone infrastructure and the stored data. However, based on the GNU General Public License v3.0 agreement, Secret Visons do not hold any public liability of this product, nor should provide any warranty.

## Support Information

Currently, Secret Visons provide the community support for the Technology Add-on for HP ArcSight CEF data inputs, while the Splunk Cloud deployment is also under community support.

If you encountered any issue or have any question, please feel free to contact the support ([support@secretvisons.com](mailto:support@secretvisons.com)), or send the emails to the author ([rockey@secretvisons.com](mailto:rockey@secretvisons.com)), or you can raise the tickets via GitHub (<https://github.com/SecretVisons/Splunk_ArcSight>).

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Summary |
| 1.0 | April 28, 2018 | Yan (Rockey) Wen | Release notes for Splunk\_SA\_cefinput version 2.0.0. |
| 1.1 | May 06, 2018 | Yan (Rockey) Wen | Release notes for Splunk\_SA\_cefinput version 2.0.1. |
| 1.2 | May 21, 2018 | Yan (Rockey) Wen | Release notes for Splunk\_SA\_cefinput version 2.0.2. |
| 1.3 | May 21, 2018 | Yan (Rockey) Wen | Release notes for Splunk\_SA\_cefinput version 2.1.0. |
| 1.4 | June 5, 2018 | Yan (Rockey) Wen | Release notes for TA-ArcSightCEF\_datainputs version 2.2.0. |
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Contents

[Legal Notices 2](#_Toc516006786)

[License 2](#_Toc516006787)

[Warranty 2](#_Toc516006788)

[Support Information 2](#_Toc516006789)

[Revision History 2](#_Toc516006790)

[Change History 4](#_Toc516006791)

[Content Changes 4](#_Toc516006792)

[Support Changes 4](#_Toc516006793)

[New Features 5](#_Toc516006794)

[New features in the current version 5](#_Toc516006795)

[New features in the previous version 5](#_Toc516006796)

[Configuration Changes 8](#_Toc516006797)

[Configuration changes in the current version 8](#_Toc516006798)

[Configuration changes in the previous versions 8](#_Toc516006799)

[Fixed issues and bugs 9](#_Toc516006800)

[Bugs and issues fixed in the current release 9](#_Toc516006801)

[Bugs and issues fixed in the previous release 9](#_Toc516006802)

[Known issues 10](#_Toc516006803)

# Change History

## Content Changes

The following table lists the changes have been made in the current release (version 2.2.0):

|  |  |  |
| --- | --- | --- |
| File path | File Name | Summary |
| Splunk\_SA\_cefinput/ | README | Updated to reflect the changes in version 2.2.0. |
| LICENSE | License statement of GNU General Public License version 3.0, introduced in version 2.2.0 |
| app.manifest | Manifest file generated by the Splunk Package Toolkit. Introduced in version 2.2.0 |
| Splunk\_SA\_cefinput/default | app.conf | Updated to reflect the changes in version 2.2.0. |
| props.conf | Updated the sections for field extractions and fixed the optional field alias in version 2.2.0. |
| transforms.conf | Updated the sections for field extractions and fixed the optional field alias in version 2.2.0. |
| Splunk\_SA\_cefinput/docs | CHANGES.LOG | Updated in version 2.2.0. Brief summary of the change histories |
| REFERENCES | Updated in version 2.2.0. Listed of the reference documents and URLs. |
| Splunk\_SA\_cefinput/metadata | default.meta | No change in current version. |
| Splunk\_SA\_cefinput/static | appIcon.png | No change in current version. |
| appIcon\_2x.png | No change in current version. |
| appLogo.png | No change in current version. |
| appLogo\_2x.png | No change in current version. |

## Support Changes

The following table lists the support details between different versions of the Splunk support add-on (SA) for ArcSight Common Event Format (CEF) input:

|  |  |  |
| --- | --- | --- |
| App Version | Splunk Enterprise (on premise or public clouds) | Splunk Cloud |
| 1.0.0 | 6.5.x, 6.6.x | - |
| 2.0.0 | 6.5.x, 6.6.x, 7.0.x, 7.1.x | Experimental |
| 2.0.1 | 6.5.x, 6.6.x, 7.0.x, 7.1.x | Yes |
| 2.0.2 | 6.5.x, 6.6.x, 7.0.x, 7.1.x | Yes |
| 2.1.0 | 7.0.x, 7.1.x | Yes |
| 2.2.0 | 7.0.x, 7.1.x | Yes |
|  |  |  |

## New Features

### New features in the current version

There no new feature introduced in the current version (version 2.2.0).

### New features in the previous version

The following new features have been introduced in the previous versions:

1. The following new features have been introduced in the current version (version 2.1.0):
   * Dynamic field extractions of the additional fields [ad.someFieldName], [ad.Key[{number}], and [ad.fieldNameWithSpecialCharacters];
   * Allow the tow device custom fields (e.g., cs1 and cs1Label) merge into new fields based on the values of the original fields
2. Extended the field extractions of the following fields which are not the common fields across three main ArcSight ingestion platforms and were not included in version 2.0.0:

* catdt
* categorySignificance
* categoryBehavior
* categoryDeviceGroup
* categoryTechnique
* categoryOutcome
* categoryObject
* deviceSeverity

1. The rule-based field extraction functions have been implemented tested and verified. The configuration samples have been provided in the samples.
2. Extended the field extractions of the following fields which are not the common fields across three main ArcSight ingestion platforms and were not included in version 1.0.0:
   * eventAnnotationStageUpdateTime
   * eventAnnotationModificationTime
   * eventAnnotationAuditTrail
   * eventAnnotationVersion
   * eventAnnotationFlags
   * eventAnnotationEndTime
   * eventAnnotationManagerReceiptTime
   * cefVer
   * locality
3. Added the full names of the ArcSight CEF fields which only have the key names available in the version 1.0.0:
   * act (deviceAction)
   * app (applicationProtocol)
   * c6a1 (deviceCustomIPv6Address1)
   * c6a1Label (deviceCustomIPv6Address1Label)
   * c6a2 (deviceCustomIPv6Address2)
   * c6a2Label (deviceCustomIPv6Address2Label)
   * c6a3 (deviceCustomIPv6Address3)
   * c6a3Label (deviceCustomIPv6Address3Label)
   * c6a4 (deviceCustomIPv6Address4)
   * c6a4Label (deviceCustomIPv6Address4Label)
   * cat (deviceEventCategory)
   * cfp1 (deviceCustomFloatingPoint1)
   * cfp1Label (deviceCustomFloatingPoint1Label)
   * cfp2 (deviceCustomFloatingPoint2)
   * cfp2Label (deviceCustomFloatingPoint2Label)
   * cfp3 (deviceCustomFloatingPoint3)
   * cfp3Label (deviceCustomFloatingPoint3Label)
   * cfp4 (deviceCustomFloatingPoint4)
   * cfp4Label (deviceCustomFloatingPoint4Label)
   * cn1 (deviceCustomNumber1)
   * cn1Label (deviceCustomNumber1Label)
   * cn2 (deviceCustomNumber2)
   * cn2Label (deviceCustomNumber2Label)
   * cn3 (deviceCustomNumber3)
   * cn3Label (deviceCustomNumber3Label)
   * cnt (baseEventCount)
   * cs1 (deviceCustomString1)
   * cs1Label (deviceCustomString1Label)
   * cs2 (deviceCustomString2)
   * cs2Label (deviceCustomString2Label)
   * cs3 (deviceCustomString3)
   * cs3Label (deviceCustomString3Label)
   * cs4 (deviceCustomString4)
   * cs4Label (deviceCustomString4Label)
   * cs5 (deviceCustomString5)
   * cs5Label (deviceCustomString5Label)
   * cs6 (deviceCustomString6)
   * cs6Label (deviceCustomString6Label)
   * dhost (destinationHostName)
   * dmac (destinationMacAddress)
   * dntdom (destinationNtDomain)
   * dpid (destinationProcessId)
   * dpriv (destinationUserPrivileges)
   * dproc (destinationProcessName)
   * dpt (destinationPort)
   * dst (destinationAddress)
   * dtz (deviceTimeZone)
   * duid (destinationUserId)
   * duser (destinationUserName)
   * dvc (deviceAddress)
   * dvchost (deviceHostName)
   * dvcmac (deviceMacAddress)
   * dvcpid (deviceProcessId)
   * end (endTime)
   * fname (filename)
   * fileSize (fileSize)
   * in (bytesIn)
   * msg (message)
   * out (bytesOut)
   * outcome (eventOutcome)
   * proto (transportProtocol)
   * reason (Reason)
   * request (requestUrl)
   * rt (deviceReceiptTime)
   * shost (sourceHostName)
   * smac (sourceMacAddress)
   * sntdom (sourceNtDomain)
   * spid (sourceProcessId)
   * spriv (sourceUserPrivileges)
   * sproc (sourceProcessName)
   * spt (sourcePort)
   * src (sourceAddress)
   * start (startTime)
   * suid (sourceUserId)
   * suser (sourceUserName)
   * agt (agentAddress)
   * ahost (agentHostName)
   * aid (agentId)
   * amac (agentMacAddress)
   * art (agentReceiptTime)
   * at (agentType)
   * atz (agentTimeZone)
   * av (agentVersion)
   * dlat (destinationGeoLatitude)
   * dlong (destinationGeoLongitude)
   * slat (sourceGeoLatitude)
   * slong (sourceGeoLongitude)
4. Merge the values from custom field label and the custom fields to form new fields, as well as keep the custom field labels and the custom fields separately at the same time.
5. Dynamically extract the additional ArcSight device fields (ad.someFieldName) similar below:

|  |
| --- |
| ad.Key[2]=krbtgt/AU ad.WindowsKeyMapFamily=Windows 2003 R2|2003|XP ad.EventIndex=1551624412 ad.Key[5]=0 ad.Key[0]=acoe\_wpaas\_epo\_rd ad.WindowsParserFamily=Windows 2003 R2|2003|XP ad.Key[6]=::ffff:10.231.65.57 ad.Key[1]=S-1-5-21-1229272821-1123561945-839522115-670269 ad.Key[3]=0x40810010 ad.Key[4]=0x12 ad.Key[9]= ad.Key[8]= ad.Key[7]=61893 ad.Key[10]= ad.WindowsVersion=Windows Server 2003 R2 |

## Configuration Changes

### Configuration changes in the current version

**Configuration Changes in version 2.2.0**

The following changes have been implemented in version 2.2.0:

* Renamed the app folder from Splunk\_SA\_cefinput to TA-ArcSightCEF\_datainputs;
* Update the support id from Splunk\_SA\_cefinput to TA-ArcSightCEF\_datainputs.
* Renamed the REGEX stanzas in transforms.conf with the prefix “c\_” which stands for the community versions;
* Redesigned the field extractions for the standard CEF fields
* Added a few new non-standard CEF fields
* Added the non-standard CEF fields with multiple values

### Configuration changes in the previous versions

**Configuration Changes in version 2.1.0**

The following changes have been implemented in version 2.1.0:

* Updated the REGEX in the default/transforms.conf and switch to use the basic regex modular rather than the actual regexes in each stanzas for better quality control.

**Configuration Changes in version 2.0.2**

The following changes have been implemented in version 2.0.2:

* Remove the field alias with the prefix “cef\_”;
* Enabled the full names of the CEF fields from the key names by default;
* Removed the sections for the index time source renaming and simplify the implementation procedures.
* Change the add-on from visible back to invisible.

**Configuration Changes in version 2.0.1**

Instead of the original source base field extractions shipped by default, in the current version, the sourcetype based field extractions and source based field extractions will be both shipped by default.

**Configuration changes in version 2.0.0**

There are some changes to the stanza [cef\_header\_fields] in the transforms.conf file. The original stanza was designed to cover the normal CEF header stings as well as the ones with the Microsoft SQL server action audit group events. (Sample event below)

|  |
| --- |
| 2015/12/11 17:57:06 AEDT CEF:0|Microsoft|SQL Server||LX\|LGO|LOGIN\|LOGOUT|Low| eventId=894 externalId=33205 …… |

However, this might reduce the performance of the field extractions and transformations as the additional REGEX matches need to run. If the users can confirm that they won’t have the SQL audit action group events in ArcSight CEF format, they can switch to the alternative REGEX, which can be found in the Technical Reference guide, Deployment guide and the sample configuration files (full\_transforms.conf.sample).

## Fixed issues and bugs

### Bugs and issues fixed in the current release

**Bug #5**: Fixed the field extraction issues when some fields do not show up unless performing the extract searches by appending the strings “… | search <fieldname>=\* …”.

### Bugs and issues fixed in the previous release

The following bug exists in the version 1.0.0 of the Splunk SA for ArcSight CEF input has been fixed in the current release:

**Bug #1**: Incomplete field extraction of the custom strings and flex strings when the values of the custom strings or flex strings contain the base64 encoded identifiers.

Sample event:

|  |
| --- |
| CEF:0|ArcSight|ArcSight|6.0.2.6627.0|agent:015|Device connection down|Very-High| eventId=37350412 msg=Host Unreachable mrt=1437695604815 categorySignificance=/Informational/Error categoryBehavior=/Access/Start categoryDeviceGroup=/Application catdt=Security Mangement categoryOutcome=/Failure categoryObject=/Host/Application art=1437695604816 cat=/Agent/Connection/Device?Failure deviceSeverity=Warning rt=1437695604815 dhost=database1.sample.com dst=5.5.5.5 destinationZoneURI=/All Zones/ArcSight System/Private Address Space Zones/RFC1918: 10.0.0.0-10.255.255.255 fileType=Agent cs2=<Resource ID\="3KDZG6kkBABCAA7iSgTWqfw\=\="/> c6a4=::1 cs2Label=Configuration Resource c6a4Label=Agent IPv6 Address ahost=::1%6 agt=4.4.4.4 agentZoneURI=/All Zones/ArcSight System/Private Address Space Zones/RFC1918: 10.0.0.0-10.255.255.255 av=6.0.2.6627.0 atz=Australia/NSW aid=3ngVO6kkBABCV3m12GeFa2w\=\= at=windowsfg dvchost=auirsarc004 dvc=10.19.96.68 deviceZoneURI=/All Zones/ArcSight System/Private Address Space Zones/RFC1918: 10.0.0.0-10.255.255.255 dtz=Australia/NSW \_cefVer=0.1 |

Original field extraction outcome:

|  |  |
| --- | --- |
| Field Name | Field Value |
| cs2 | <Resource ID\ |

Current field extraction outcome:

|  |  |
| --- | --- |
| Field Name | Field Value |
| cs2 | <Resource ID\="3KDZG6kkBABCAA7iSgTWqfw\=\="/> |

The following bug exists in the version 2.0.0 has been fixed in version 2.0.1:

**Bug #3**: Fixed the inconsistent field alias for the CEF field full names and the corresponding names with the prefix “cef\_”;

The following bug exists in the version 2.0.1 has been fixed in version 2.0.2:

**Bug #2**: Fixed the REGEX issues when dynamically extract the fields (ad.someFieldNameHere and ad.Key[{num}))

**Bug #4**: Fixed the REGEX inconsistency issues for the CEF header and get the field extractions more efficient.

## Known issues

This add-on is designed to replace the old edition of technology add-on for ArcSight CEF inputs (<https://splunkbase.splunk.com/app/3694/>) due to Splunk base naming convention compliance purposes. This add-on cannot either be installed or running on the same Splunk infrastructure while the old edition of the technology add-on for ArcSight CEF inputs also installed.