



props.conf Settings You Should Have

For greater efficiency and performance when getting data into Splunk, use these [props.conf](#) settings when you define a sourcetype.



```
[mysourcetype]
TIME_PREFIX = regex of the text that leads up to the timestamp
MAX_TIMESTAMP_LOOKAHEAD = how many characters for the timestamp
TIME_FORMAT = strftime format of the timestamp
SHOULD_LINEMERGE = false (always false)
LINE_BREAKER = regular expression for event breaks
TRUNCATE = 999999 (always a high number)
EVENT_BREAKER_ENABLE = true*
EVENT_BREAKER = regular expression for event breaks*
* with forwarders > 6.5.0
```

Useful strftime() Directives

Year (four digit/two digit)	%Y/%y
Month (number/name/abbr)	%m/%B/%b
Day of month (leading zero/no zero)	%d/%e
Hour (24 hour/12 hour)	%H/%I
Minute	%M
Second/Millisecond	%S/%3N
Epoch time	%s
Time zone (UTC offset/offset w/:/ name)	%z/%:z/%Z
AM/PM	%p

Time format testing: <http://strftime.net>

Useful Regular Expressions

IP Address	\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}
Syslog-ng header (syslog cheat sheet)	[\r\n]+ ^w{3}s+d+s+[\d:]{8}s+S+s+
Match to the first pipe (negated character class)	[^]+
Metadata Rewrites (to use, add TRANSFORMS-<classname> to a sourcetype stanza in props.conf, then add rewrite to transforms.conf)	Regex testing: https://regex101.com

Host	<pre>[rewrite_host] REGEX = ^Message\s+from\s+(\S+) DEST_KEY = MetaData:Host FORMAT = host::\$1</pre>
Sourcetype	<pre>[rewrite_sourcetype] REGEX = this\s+is\s+another\s+sourcetype DEST_KEY = MetaData:Sourcetype FORMAT = sourcetype::other_sourcetype</pre>
Index	<pre>[rewrite_index] REGEX = this\s+should\s+go\s+elsewhere DEST_KEY = _MetaData:Index FORMAT = other_index</pre>

Field Extractions

Using EXTRACT	<p>In props.conf:</p> <pre>[mysourcetype] EXTRACT-user_src = \s(?:<user>\S+)\s+logged\s+in IN source_field</pre>
Using REPORT	<p>In props.conf:</p> <pre>[mysourcetype] REPORT-user_src = mysourcetype_user_source</pre> <p>In transforms.conf:</p> <pre>[mysourcetype_user_source] REGEX = \s(\S+)\s+logged\s+in\s+from\s+(\S+) FORMAT = src::\$1 user::\$2</pre>

Lookups

props.conf	<pre>[mysourcetype] LOOKUP-mysourcetype-actions = my_lookup event_field OUTPUT lookup_field</pre>
transforms.conf	<pre>[my_lookup] filename = mysourcetype_actions.csv case_sensitive_match = false max_matches = 1</pre>

Field Aliases, SED Commands, Calculated Fields (add to sourcetype stanzas in props.conf)

Field alias	FIELDALIAS-myalias = my_field AS new_field <i>my_field AS new_field2</i>	
SED command	SEDCMD-abc_to_xyz = s/abc/xyz/g	
Calculated field	EVAL-total_bytes = bytes_in + bytes_out	

Search-Time Operation Order



Review The Data



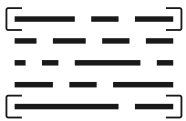
After you have correctly onboarded your data (correct meta data, line breaking, and time stamping), review the events to determine which data models the events match. A single sourcetype can contain events that are appropriate for different data models. For example, a proxy feed can have authentication events for users logging in, web proxy events showing traffic, and configuration changes as administrators adjust settings.

Extract Fields



Configure field extractions to populate as many of the data model objects (fields) as you can. See the [Splunk Common Information Model Add-on Manual](#) to learn what the field contents and names should be.

Configure Event Types



Configure [event types](#) for the data. Event types should use searches that capture all of the events you expect to fill in a particular data model. For example, to capture all login events (both successes and failures), you might use a search like:

```
sourcetype=my_sourcetype "Login for user" ("failed" OR "succeeded")
```

Tag The Event Types



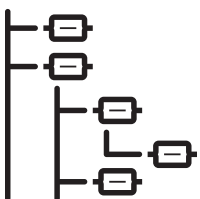
[Tag the event types](#) you just created. The [CIM Add-on Manual](#) tells you the tags which should be used for the data model you are aiming for. While tagging can be done in other ways, the current best practice is to attach the tags to event types.

Review Index Constraints



Newer versions of the CIM Add-on use [index constraints](#) to improve performance and let you control what data to accelerate. Use the CIM Add-on Setup page to confirm that the constraints include the indexes that contain the data you are working with.

Preview The Data Model



While the data model acceleration might take a while to process, you can preview the data with the [datamodel](#) command. A template for this search looks like:

```
| datamodel <data model name> <data model child object> search |  
search sourcetype=<new sourcetype> | table <data model name>.*
```