

How to integrate FIXEdge with Splunk

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i The feature is available in FIXEdge version 6.7.0 and higher or in Fix Antenna C++ version 2.26 and higher.

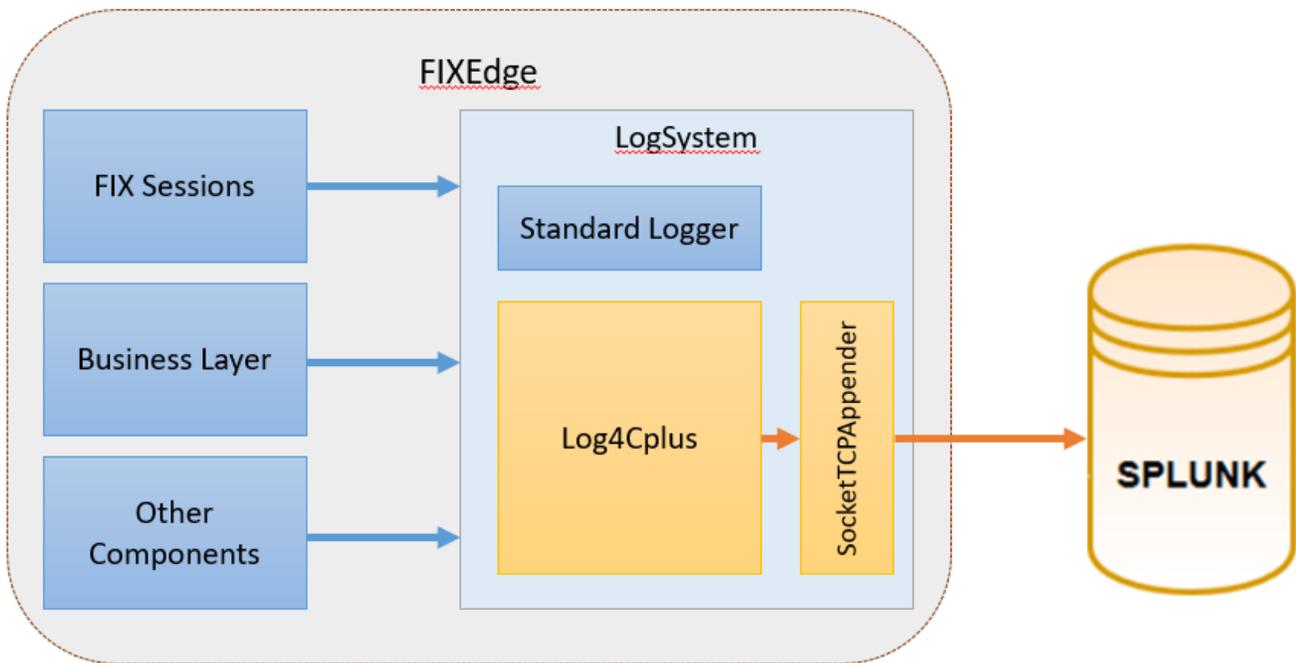
Features

Integration with Splunk supports the following features:

- Log messages forwarding to the Splunk
- Connection with Splunk is supported over TCP
- Splunk agent can be used
- Configurable timestamp

Interaction model

Interaction between FIX engine and Splunk/Splunk agent is maintained via [Log4Cplus library](#):



i The described functionality was successfully tested with version 7.2.0 of Splunk

Configuring

1. Configure Logging

To forward log messages to Splunk specify **Log4Cplus** for [Log.Device](#) property in *FIXEdge.properties* (for FIXEdge) or *engine.properties* (for FIXAntenna) file and configure `log4cplus` parameters as follows:

FIXEdge.properties or engine.properties changes

```
# add Log4Cplus device for duplication logs to the log4cplus
Log.Device = File Log4Cplus

#----- configure log4plus for forwarding to the Splunk -----
log4cplus.rootLogger = TRACE,Splunk
log4cplus.appender.Splunk=log4cplus::SocketTCPAppender
#set host/port Splunk
log4cplus.appender.Splunk.port=<PORT>
log4cplus.appender.Splunk.host=<HOST>
# using pattern for add information in log messages about
log4cplus.appender.Splunk.layout=log4cplus::PatternLayout
log4cplus.appender.Splunk.layout.ConversionPattern=%d{%FT%T.%q}Z Severity=%-5p ThreadID=%t Category=%c %m%n
```

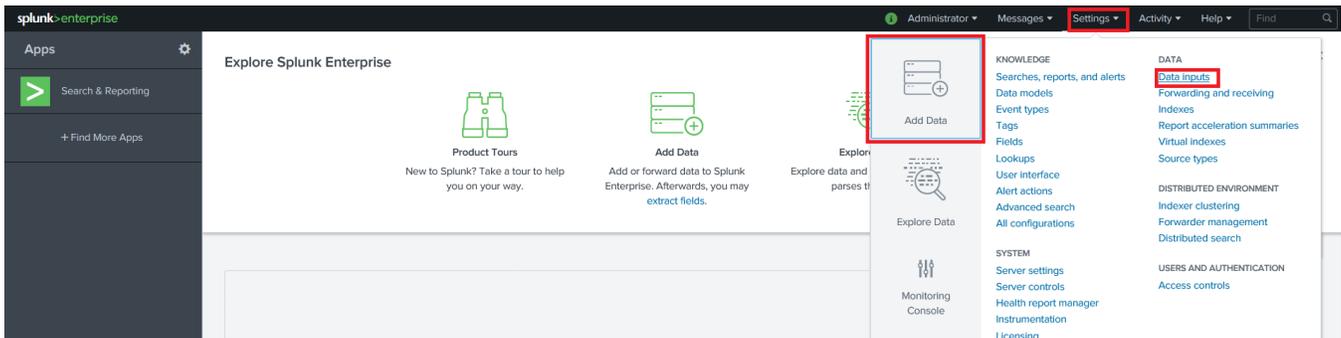
In this case logging will be performed with both creating standard log files and forwarding to Splunk (`Log.Device = File Log4Cplus` - see description of `Log.Device` parameter).

Also the example contains configuration of an extended log layout that includes severity, threadID and other additional fields (`log4cplus.appender.Splunk.layout` parameter).

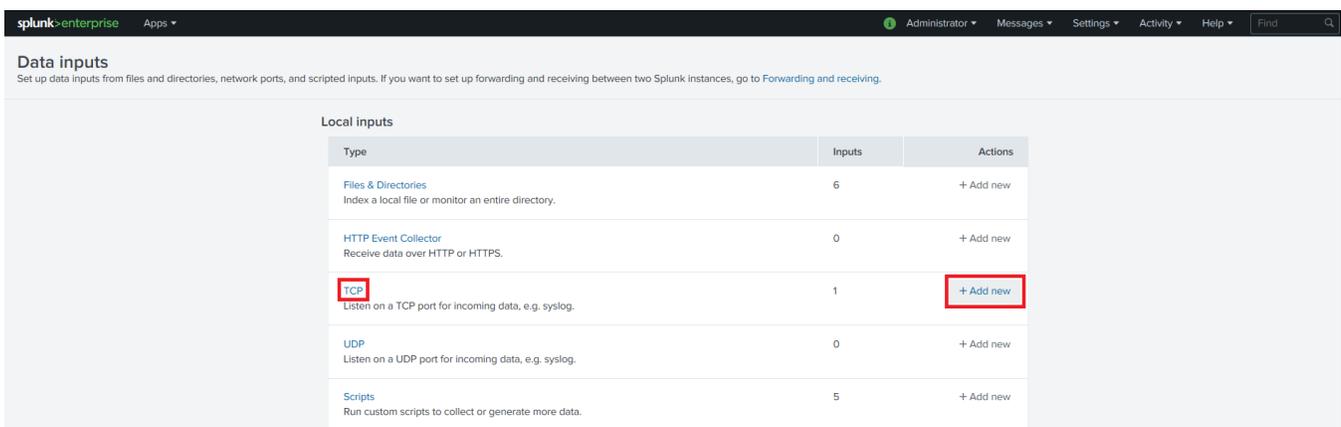
 More information about log4cplus configuration can be found here [Log4Cplus Usage](#)

2. Configure Splunk

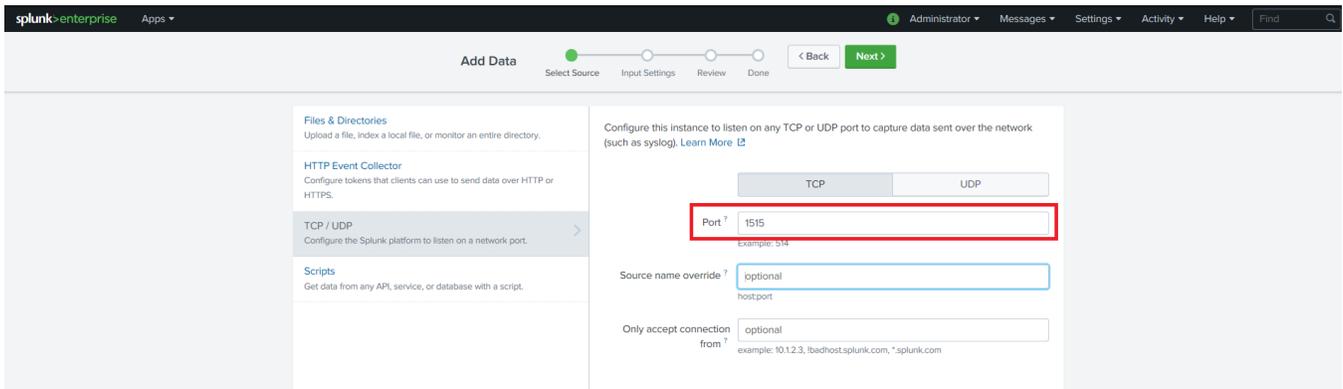
1. In Splunk Web interface configure inputs (From Splunk Home, select **Settings Add Data Data inputs**):



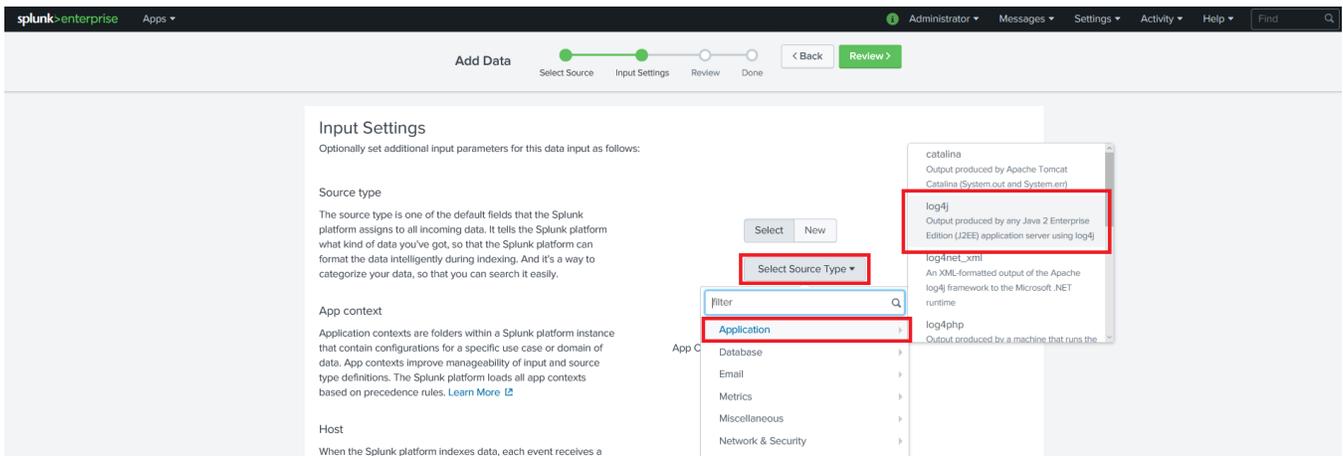
2. Add new input to TCP (From Data inputs, select **TCP Add new**):



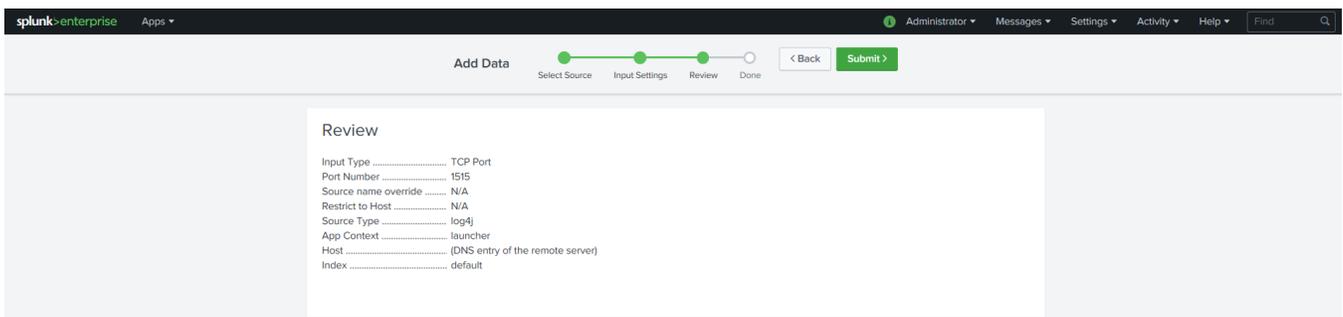
3. Select data source - choose listening port (the same port number should be set in `FIXEdge.properties log4cplus.appender.Splunk.port` parameter) and then click "**Next**":



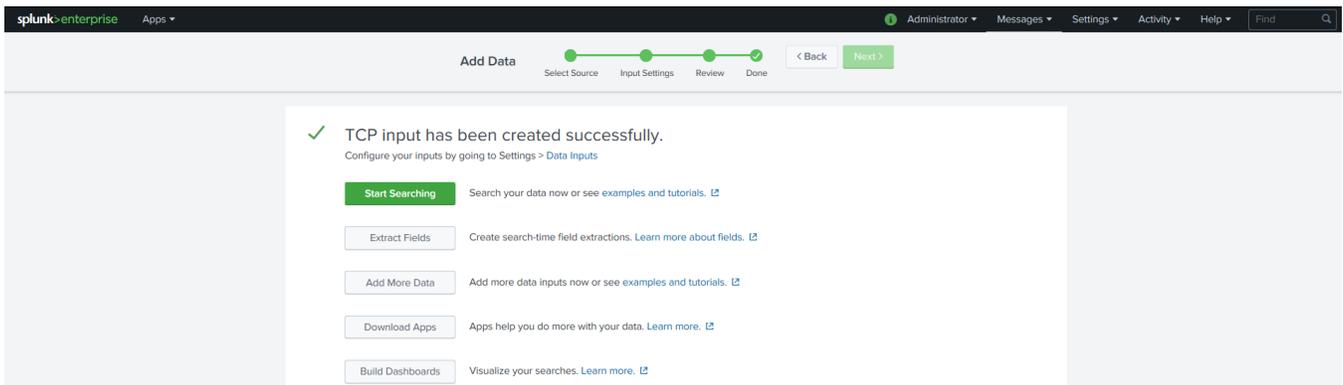
4. Configure input settings - Select source type **Application log4j** and then click "Review":



5. Check out configuration and click "Submit":



6. Click "Start Searching":



7. After starting FIXEdge session you will see FIXEdge logging in Splunk:

