



CHAPTER 4

Logging and Troubleshooting

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Introduction

This chapter describes the Cisco SCA BB Service Configuration API logging functionality. API logging allows you to monitor the operations being called by the API client.

API logging also allows you to troubleshoot the Service Configuration API integration.

Service Configuration API Client Logging

The Service Configuration API uses the Apache Jakarta log4j package for logging. This provides the ability to log every activated operation into the *apilog* file located in the *\${user.home}* directory.

Logging parameters are configured using the log4J properties files. To enable logging, make sure that this file is in the application's CLASSPATH. The file is read at startup of the application. If you make any changes you must restart the application.

The following is the installed content of the *log4j.properties* file:

```
# default Log4j configuration for Service Configuration API
log4j.rootCategory=INFO, apiStdout
# In order to enable the logging to the file Replace the above
# line with the following:
# log4j.rootCategory=INFO, files
# stdout is set to be a ConsoleAppender.
log4j.appender.apiStdout=org.apache.log4j.ConsoleAppender
log4j.appender.apiStdout.layout=org.apache.log4j.PatternLayout
log4j.appender.apiStdout.layout.ConversionPattern=%d{dd-MMM HH:mm:ss.SSS} [%t] %-5p
%c%n%m%n
# files is set to be a RollingFileAppender.
#log4j.appender.files=org.apache.log4j.RollingFileAppender
#log4j.appender.files.layout=org.apache.log4j.PatternLayout
#log4j.appender.files.layout.ConversionPattern=%d{dd-MMM yyyy HH:mm:ss.SSS} [%t] %-5p %c
%x%n%m%n
#log4j.appender.files.File=${user.home}/apilog
#log4j.appender.files.Threshold=INFO
#log4j.appender.files.ImmediateFlush=true
#log4j.appender.files.MaxFileSize=1MB
#log4j.appender.files.MaxBackupIndex=4
# In order to enable debug logging uncomment the following two lines
#log4j.category.com.cisco=DEBUG
#log4j.category.com.pcube=DEBUG
```

To enable debug logging, uncomment the last two lines in the file. By default, logging is sent to the standard output.

To direct the logging to a file, uncomment the line:

```
# log4j.rootCategory=INFO, files
```

as explained in the file.