THE INFORMATION IN THIS ARTICLE APPLIES TO:

EFT Server v6.3 and later

In EFT v8 and later, refer to "Advanced Properties" in the help for your version of EFT.

DISCUSSION

The following advanced properties control the behavior of the queue used to write to the ARM database. If the queue backs up, it will make threads wait until space is available. If you have enabled DEBUG logging for ARM (see "Logging" below), when you start the EFT server service, it will log messages indicating that these registry settings are enabled.

In EFT versions prior to v8, create the registry DWORD values in:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\GlobalSCAPE Inc.\EFT Server 4.0\
```

In v8.0 and later, create the name:value pairs in the AdvancedProperties.json file in this format:

```
{
"ARMQueueSize":"1000",
"ARMLogStalledThreadMinDuration":2000
}
```

ARMQueueSize

- The maximum size of the ARM auditing queue. You should first enable DEBUG logging and set the "ARMLogMinStalledThreads" registry setting (below) to 1, then review the EFT.log file and see if it is logging WARN messages about stalled threads. This would be evidence that the queue is falling behind.
- Type: REG_DWORD
- Default when not specified: 10 (1000 in v7 and later)
- Minimum allowed when specified: 10 (1000 in v7 and later)

ARMLogStalledThreadMinDuration

- Type: REG_DWORD
- Default when not specified: 1000 (1 second)
- Minimum allowed when specified: 1000 (1 second)
- The duration to use to determine if a thread should be considered "stalled."
 Meaning if this is set to 1000 then any thread that waits longer than 1 second is classified as stalled. This is used just for logging purposes.

ARMLogMinStalledThreads

- Type: REG_DWORD
- Default when not specified: 0
- The number of stalled threads that must be present before logging. If it is set to 1 or higher, information about stalled threads is logged to EFT.log under the ARM logger. Set this to 1 temporarily to see if anything shows up in the log. Be aware that in extreme situations this could, in theory, make it log a ton of WARN messages. If so then a higher value should be used to lessen the verbosity.

Logging

In the **logging.cfg** file (e.g., **C:\ProgramData\Globalscape\EFT Server Enterprise\logging.cfg**), enable DEBUG logging for the "ARM" log to output statistical information concerning the size of the queue and whether threads are stalling.

```
File Edit Format View Help

# Log4cplus configuration file for EFT

# More documentation on Log4cplus:
# http://log4cplus.sourceforge.net/docs/html/classlog4cplus_1

# EFT Server supported loggers (uncomment to use)
# WARNING: Using loggers will adversely impact server perform
Do not forget to comment the logger once you are done
Use only the loggers and log level (INFO, DEBUG, TRAC

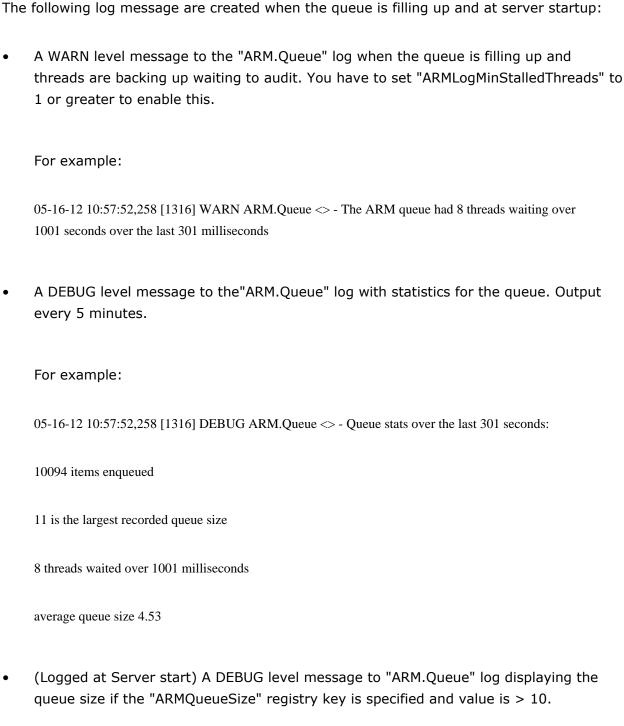
# log4cplus.logger.Administrator=TRACE
# log4cplus.logger.ARM=TRACE
# log4cplus.logger.ARM=TRACE

| log4cplus.logger.ARM.Queue=DEBUG
# log4cplus.logger.AUD.Read=TRACE
# log4cplus.logger.AUD.Write=TRACE
# log4cplus.logger.AUD.Write=TRACE
# log4cplus.logger.AUD.Write=TRACE
# log4cplus.logger.AUThManager=TRACE
# log4cplus.logger.AuthManager=TRACE
# log4cplus.logger.AuthManager.RADIUS=TRACE
# log4cplus.logger.AuthManager.RADIUS.Packet=TRACE
# log4cplus.logger.AuthManager.RADIUS.Packet=TRACE
# log4cplus.logger.AuthManager.RSA=TRACE
```

Log Messages

For example:

The following log message are created when the queue is filling up and at server sta	ecreated when the queue is filling up and at server s	startun
--------------------------------------------------------------------------------------	-------------------------------------------------------	---------



05-16-12 10:47:51,320 [1560] DEBUG ARM.Queue <> - Queue size set to 11

 (Logged at Server start) A DEBUG level message to "ARM.Queue" log displaying the queue size if the "ARMLogStalledThreadMinDuration" registry key is specified an value > 1000:

For example:

05-16-12 10:47:51,320 [1560] DEBUG ARM.Queue <> - Stalled thread minimum duration set to 1001

 (Logged at Server start) A DEBUG level message to "ARM.Queue" log displaying the queue size if the "ARMLogMinStalledThreads" registry key is specified and value > 0

For example:

05-16-12 10:47:51,320 [1560] DEBUG ARM. Queue <> - Minimum number of stalled threads to log set to 1 ARM LogMinStalledThreads > 0 output

GlobalSCAPE Knowledge Base

https://kb.globalscape.com/Knowledgebase/11099/Adjusting-the-ARM-Queue-Beha...