

Does MVA support multi-threaded applications?

Model:

N/A

Software:

MVA

Operating System:

Supports both the Linux and Windows Operating System.

Information:

Yes, MVA does support multi-threaded applications.

The MVA API documentation is available in HTML and PDF format in [/opt/mva/share/doc/](#) and in PDF format in **the MVA Group Portal**.

Without any serialization, `mva_stream_open()` and all function calls using the returned stream handle must be executed on the same thread. However, independent threads can handle separate streams without locking. This usage is beneficial when there are multiple devices because threads can be assigned CPU affinity to promote load balancing. See the [/opt/mva/share/examples/mva_multi_dev.c](#) example code for reference.

MVA API function calls for a given stream handle are not thread-safe. The application is responsible for serializing access to MVA API functions that are using the same stream handle. This usage is beneficial when there is one or several high speed devices and frame processing needs to be spread among CPU cores. See the [/opt/mva/share/examples/mva_multi_thread.c](#) example code for reference.

<u>Revision</u>	<u>Date</u>	<u>Change</u>
1	7/14/2016	Initial Draft
2	8/19/2016	Feedback Edit



