### Mark 5 Memo #095

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TO: Distribution

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SUBJECT: How to determine the Conduant version of SDK and controller type installed on

your Mark5

For the latest release of Streamstor SDK, to support large disk modules greater than 16TB, and the associated Mark5 applications, the version of Conduant SDK and controller type installed on the Mark5 must be determined. Three methods are available for the SDK version and the first two to determine the controller board type.

# **Mark5 Application**

With the Mark5 application executing on your system using the client, e.g. tstDIMino, issue a SS\_Rev query, SS\_rev?

- 1. Use Table 1 and the contents under the column "Driver Version" to determine the SDK version installed
- 2. Use Table 2 for the controller type as specified with BoardType

An example of a response to SS\_rev? with the appropriate fields highlighted is:

!SS\_Rev? 0: **BoardType AMAZON-VP**: SerialNum 2519: ApiVersion 11.25: ApiDateCode Nov 11 2011: FirmwareVersion 16.37: FirmDateCode May 13 2013: MonitorVersion 12.17: XbarVersion 2.028: AtaVersion 0.00: **UAtaVersion** 0.00: **DriverVersion 1031**: FPDP daughter board: SerialNum 2603: PCBVersion 3.00: PCBType FPDP2: PCBSubType M1 Term: FPGAConfig FPDP2: FPGAConfigVersion 1.08, NumChannels 2;

This Mark5 contains an Amazon-VP board type, of Amazon controller card and DriverVersion 1031, corresponding to SDK9.2.

# Use Conduant's ssprintVersion Utility

Utilize Conduant's ssprintVersion utility to determine the SDK and controller types.

- 1. For Debian Etch systems execute ssprintVersions located under the directory
  - a. /usr/local/src/streamstor/linux/lib/gcc\_v3/utils
- 2. For Debian Lenny or Squeeze systems execute ssprintVersions located under the directory

#### /usr/local/src/streamstor/linux/utils

An example, below, of ssprintVersion output indicates an Amazon, or Amazon, configured controller card and SDK Version 9.02, that corresponds to SDK9.2.

Device Information:

**Board Type: AMAZON-VP** 

Serial Number: 2519 Number of drives: 0 Number of Buses: 0

Version Information:

MonitorVersion:

**SDK Version:** 9.02 ApiVersion: 11.25

ApiDateCode: Nov 11 2011

Firmware Version: 16.37

FirmwareDateCode: May 13 2013

12.17

1.08

XbarVersion: 2.028 DriverVersion: 1031 Daughter Board Information: Serial Number: 2603 PCB Version: 3.00 PCB Type: FPDP2 PCBSubType: M1 Term FPGAConfig: FPDP2

2

FPGAConfigVersion: NumChannels:

Param[0]: 0 Param[1]: 0 Param[2]: 0 Param[3]: 0 Param[4]: 0 Param[5]: 0 Param[6]: 0

Param[7]: 0

# **SDK Version Only**

If only the Streamstor SDK version is required and the Mark5 system was installed with the Haystack built Streamstor Debian package simply execute:

- 1. dpkg -l | grep streamstor
- 2. Use Table 1 to match the deb package version to SDK version

An example of the output is:

"ii streamstor 9.2.1 Streamstor SDK 9.2.1" The third field provides the package version, and the last field a short package description. This examples indicates that SDK9.2 is installed on the system.

SDK Version	Shared Library version number	Linked Library	Driver Version	Debian Package version
9.3	libwdapi1110	-lwdapi1110	1110	streamstor_9.3.2-i386.deb
9.2	libwdapi1031	-lwdapi1031	1031	streamstor_9.2.1-i386.deb
9.1	libwdapi1021	-lwdapi1021	1021	streamstor_9.1.0-i386 .deb
9.0	libwdapi1011	-lwdapi1011	1011	streamstor_9.0.0-i386 (5c)
8.3beta	libwdapi1001	-lwdapi1001	1001	streamstor_1.2.2-i386 .deb
8.3	libwdapi1001	-lwdapi1001	1001	streamstor_1.2.1-i386.deb
8.2	libwdapi921	-lwdapi921	921	streamstor_1.1.4-i386.deb
8.1	libwdapi910	-lwdapi910	910	NA
7.6	libwdapi801	-lwdapi801	801	NA
6.X	libwdapi623	-lwdapi623	623	NA

**Table 1 Streamstor SDK Driver Information** 

Controller Type	BoardType Output	
Amazon	Amazon-VP	
XF2	PCI-816VXF2	
V100	PCI-816V100	

**Table 2 Controller Board Types**