7 March, 2014

TO: Distribution
FROM: Chester Ruszczyk
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:

```
```

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
a. /usr/local/src/streamstor/linux/utils

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

Device Information:

**Board Type:** AMZON-VP  
Serial Number: 2519  
Number of drives: 0  
Number of Buses: 0  

Version Information:

**SDK Version:** 9.02  
ApiVersion: 11.25  
ApiDateCode: Nov 11 2011  
FirmwareVersion: 16.37  
FirmwareDateCode: May 13 2013  
MonitorVersion: 12.17  
XbarVersion: 2.028  
DriverVersion: 1031  

Daughter Board Information:

Serial Number: 2603  
PCB Version: 3.00  
PCB Type: FPDP2  
PCBSubType: M1 Term  
FPGACfg: FPDP2  
FPGACfgVersion: 1.08  
NumChannels: 2  
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.

<table>
<thead>
<tr>
<th>SDK Version</th>
<th>Shared Library version number</th>
<th>Linked Library</th>
<th>Driver Version</th>
<th>Debian Package version</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.3</td>
<td>libwdapi1110</td>
<td>-lwdapi1110</td>
<td>1110</td>
<td>streamstor_9.3.2-i386.deb</td>
</tr>
<tr>
<td>9.2</td>
<td>libwdapi1031</td>
<td>-lwdapi1031</td>
<td>1031</td>
<td>streamstor_9.2.1-i386.deb</td>
</tr>
<tr>
<td>9.1</td>
<td>libwdapi1021</td>
<td>-lwdapi1021</td>
<td>1021</td>
<td>streamstor_9.1.0-i386.deb</td>
</tr>
<tr>
<td>9.0</td>
<td>libwdapi1011</td>
<td>-lwdapi1011</td>
<td>1011</td>
<td>streamstor_9.0.0-i386 (5c)</td>
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<tr>
<td>8.3beta</td>
<td>libwdapi1001</td>
<td>-lwdapi1001</td>
<td>1001</td>
<td>streamstor_1.2.2-i386.deb</td>
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<tr>
<td>8.3</td>
<td>libwdapi1001</td>
<td>-lwdapi1001</td>
<td>1001</td>
<td>streamstor_1.2.1-i386.deb</td>
</tr>
<tr>
<td>8.2</td>
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<td>-lwdapi921</td>
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<td>streamstor_1.1.4-i386.deb</td>
</tr>
<tr>
<td>8.1</td>
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<td>-lwdapi910</td>
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<td>7.6</td>
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<tr>
<td>6.X</td>
<td>libwdapi623</td>
<td>-lwdapi623</td>
<td>623</td>
<td>NA</td>
</tr>
</tbody>
</table>

Table 1 Streamstor SDK Driver Information

<table>
<thead>
<tr>
<th>Controller Type</th>
<th>BoardType Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amazon</td>
<td>Amazon-VP</td>
</tr>
<tr>
<td>XF2</td>
<td>PCI-816VXF2</td>
</tr>
<tr>
<td>V100</td>
<td>PCI-816V100</td>
</tr>
</tbody>
</table>

Table 2 Controller Board Types