Lightspeed K80 Server Release Notes
Vantage v6.3 UP5 Update – February 10, 2016

This Release Notes document describes the release of Telestream's Lightspeed K80 1RU server for use with Vantage software. This release is qualified for use with Vantage v6.3 Update Pack 5 running under Windows Server 2012 R2 or Windows Server 2008 R2.

Lightspeed K80 server - **Key features/improvements/fixes:**
- **Qualified with Vantage v6.3 UP5** – February 10, 2016
  - o Lightspeed K80 servers qualified for use with Vantage v6.3 UP5
  - o *Updated –* Updated NVidia GPU driver version to v354.56 WHQL.
- **Qualified with Vantage v6.3 UP4** – September 15, 2015
  - o Lightspeed K80 servers qualified for use with Vantage v6.3 UP4
- **Qualified with Vantage v6.3 UP1** – August 26, 2015
  - o Lightspeed K80 servers qualified for use with Vantage v6.3 UP1
- **Qualified with Vantage v6.3 UP3** – June 17, 2015
  - o Lightspeed K80 servers qualified for use with Vantage v6.3 UP3
  - o **New** – Supports *Tempo Time Adjustment* processing.
  - o **New** - Lightspeed K80 Run-On Rules. This release allows administrators to set run-on rules targeting the Lightspeed K80 server specifically from within the workflow designer.
  - o *Updated –* Added new K80 Session license key. This license key allows for an unlimited number of Lightspeed GPU Accelerated processes to be run concurrently.
  - o *Updated –* Changed the Lightspeed K80 Server's default Power Option to 'High Performance'
- *Initial release* with **Vantage v6.3 UP2** – June 2, 2015

Lightspeed K80 – V-LSK80

- Lightspeed K80 server is qualified for use with
  - o Vantage Software
    - ▪ Vantage v6.3 Update Pack 1 through Update Pack 5
    - ▪ Transcoder 2015.6 (or later)
  - o Operating System
    - ▪ Windows Server 2012 R2 Standard Edition
    - ▪ Windows Server 2008 R2 Standard Edition
  - o Fibre Channel Cards options:
    - ▪ ATTO Celerity FC-81EN Single-Channel 8Gb/s HBA (V-FIBRE-LS-SINGLE)
    - ▪ ATTO Celerity FC-82EN Dual-Channel 8Gb/s HBA (V-FIBRE-LS-DUAL)
    - ▪ QLogic QLE2560 Single-Channel 8Gb/s HBA (V-QLOGIC-FC-SINGLE)
    - ▪ QLogic QLE2562 Dual-Channel 8Gb/s HBA (V-QLOGIC-FC-SINGLE)
  - o Ethernet Network Interface Cards options:
    - ▪ Intel PRO/1000 PT Quad Port Server adapter (V-ETH-LS-QUAD)
    - ▪ ATTO FastFrame NS-11 Single-Channel SFP+ 10GbE (V-10GBESPF-LS-SGL)
    - ▪ ATTO FastFrame NS-12 Dual-Channel SFP+ 10GbE (V-10GBESPF-LS-DUAL)
    - ▪ MYRICOM 10G-PCIE-8B-S+E 10GbE (V-MYRICOM-10G-SGL)
    - ▪ MYRICOM 10G-PCIE2-8B2 Dual Port 10GbE (V-MYRICOM-10G-Dual)
- Lightspeed K80 ships with the following software drivers
  - o NVidia K80 GPU Driver – 354.56 WHQL
  - o Network Driver – v20.0 (Intel ProWin64 for Win 2012 or Win 2008)
  - o IPMI revision – v1.85
  - o System BIOS – v1.0b

*Refer to Lightspeed K80 operating spec for server details - at http://www.telestream.net/telestream-support/lightspeed/support.htm

Current Known Issues:

- *Lightspeed K80 server – **UP3 release** – June 17, 2015*
  - The Vantage Tempo feature and Vantage Camera Ingest feature require Vantage v6.3 Update Pack 3, Transcoder 2015.6 (or later) and appropriate license keys.
  - The K80 Session license key allows for an unlimited number of Lightspeed GPU Accelerated processes to be run concurrently. Limits still exist for individual services that utilize Lightspeed GPU Acceleration. The Edit, Transcode, Multiscreen and IPTV Service limits can be adjusted manually through the Vantage Management Console. For the Lightspeed K80 Session license key to take affect it must be run with Vantage v6.3 Update Pack 3 or later.

  > *Note*: Upon activation of the Lightspeed K80 Session license key the IPTV, Edit, Multiscreen and Transcoder services need to be restarted. This can be done directly from Vantage Management Console's Services control or by rebooting the Lightspeed server.

- *Lightspeed K80 server – **Initial release** – June 2, 2015*
  - Upon initial SQL startup an application error [*Operating system error 234 (More data is available.) encountered*] is silently added to the Event Viewer log when initializing the Vantage database instance. This error is benign and SQL will immediately recover. No action is required. This error occurs due to a known Microsoft SQL issue that will be resolved at the next major SQL release.
  - The Vantage VPL kernel libraries must be updated after each Vantage or Vantage component installation, by running Telestream's RUNBANDY.EXE application. RUNBANDY.EXE will enable full support within the VPL kernel libraries for NVidia's 64-bit driver (341.44 WHQL) interface. RUNBANDY.EXE can be found at C:\Bandy on the K80 server or can be provided by Telestream Technical Support.

Support contacts

For Lightspeed technical support and documentation, visit the Lightspeed support web site at http://www.telestream.net/telestream-support/lightspeed/support.htm.