

## Major Updates Now Available for HP Advanced Function Software

### Q: What is AFS?

**A: The HP Advanced Function Software, available through HP, is an add-on to the basic switch software that helps with:**

- Optimizing the performance of your switch
- Better management of switch infrastructure
- Integration with HP Software
- Access to continuously evolving software upgrades that deliver more reliability, scalability, security, manageability, and performance for your switches

### Q: What new features are available in AFS?

**A: Network Foundation Services software now includes the following new features:**

- **Private VLAN Edge** – Private VLANs provide Layer 2 isolation between the ports within the same broadcast domain, only allowing communication with a given "uplink". This feature is useful for isolating users in the same domain from having direct access to each other, such as a hotel providing Internet access to its guests, or for simplifying IP addressing by isolating ports from one another while still allowing them to be on the same IP subnet.
- **DHCP opt82** – provides the underlying technology for the first implementation of BLADE's ServerMobility™, in which an IP address would be "assigned" to a specific chassis/slot location, independent of the underlying physical server.
- **Hot Links** – provides basic link redundancy with fast recovery for network topologies that require Spanning Tree to be turned off. Many networks today disable use of Spanning Tree Protocol due to the slow convergence times.
- **IGMP v3** (Internet Group management protocol (IGMP)),—is a multicasting protocol that is used by IP hosts to report their host group memberships to any immediately neighboring multicast routers. IGMP v3 is a major revision of the protocol that lets hosts specify the list of hosts from which they want to receive traffic and blocks traffic from other hosts inside the network. This feature greatly increases the performance of networks and frees up network bandwidth for multicast applications such as video streaming.
- **Link Layer Detection Protocol (IEEE 802.1AB LLDP)** – this is a vendor-neutral Layer 2 discovery protocol that replaces proprietary device discovery protocols. It allows information about devices on the network to be stored on a device and queried via SNMP.
- **Uni-Directional Link Discovery Protocol (IEEE IEEE 802.3ah UDLD)** – is used between peer devices to detect and disable unidirectional Ethernet links caused, for instance, by mis-wired cable strands, interface malfunctions, or media converter faults.
- **Uplink Failure Detection** – designed to support Network Adapter Teaming on HP server blades, this release include UFD enhancements to include manual monitoring triggers for trunk links.

- **OSPF** – multiple new enhancements to the Open Shortest Path First implementation on HP blade switches.
- **sFlow** – this technology is used for monitoring traffic in data networks. The switch software includes an embedded sFlow agent which can be configured on a per-port basis to sample network traffic and provide continuous statistical report information to a central sFlow analyzer. sFlow is a very useful feature for visualizing traffic flows and traffic volume in a network to help with capacity planning, pinpoint usual or malicious behavior, billing and other tasks.
- **Access to BLADEHarmony™ Manager**, a management tool from HP partner BLADE Network Technologies that simplifies configurations and upgrades to blade switches across multiple chassis, racks, and domains through the use of an easy-to-use GUI. When you purchase AFS, you will receive a 50 device license of BLADEHarmony Manager.

**Q: How do I purchase AFS for my switches?**

**A: The AFS software is available as an add-on to your switch purchase through HP. It includes a three-year subscription for Services and Element switching management software from HP Partner, BLADE Network Technologies. AFS is available for the following switches:**

Advanced Function Software for Switch Model	HP Part Number	HP List Price
<a href="#">HP GbE2c Layer 2/3 Ethernet Switch</a>	485192-B21	\$399
<a href="#">HP 1:10 Gb Ethernet BL-c Switch</a>	485193-B21	\$527
<a href="#">HP 10 Gb Ethernet BL-c switch</a>	485194-B21	\$791

Software upgrades are available during the subscription period, and Customer support is provided through HP's CarePack. Additional support is available through Blade Premium Software Support services.

**Options**

- 438030-B21 - Qty.1 GbE2c Layer 2/3 Ethernet Blade Switch for c-Class BladeSystem
- 440627-B21 - Qty.2 Fiber SFP modules for the GbE2c Layer 2/3 Ethernet Blade Switch
- UE478E - Qty.1 HP CarePack Enhanced Three-Year Warranty
- 485192-B21 - Qty.1 HP GbE2c Layer 2/3 Ethernet Blade Switch Advanced Functionality Software

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