These release notes contain the following:

1. Description of the Release
2. Supported Controllers
3. Enhancements and Bugfixes

1. Description of the Release:

This is the official software release containing the list of software components listed below:

- Series 7 Firmware Version 7.5.0 Build 32114
- Windows Driver Version 7.5.0.52013
- Linux Driver Version 1.2.1-52033
- VMware Driver Version 1.2.1-52033
- Solaris Version 7.5.0.41018
- FreeBSD Version 7.5.0.41063
- maxView Storage Manager (MSM) Version 2.03 Build 22476

2. Supported Controllers:

- Microsemi Adaptec RAID 7805
- Microsemi Adaptec RAID 7805Q
- Microsemi Adaptec RAID 78165
- Microsemi Adaptec RAID 71605E
- Microsemi Adaptec RAID 71605
- Microsemi Adaptec RAID 71605Q
- Microsemi Adaptec RAID 71685
- Microsemi Adaptec RAID 72405

3. Enhancements and Bug Fixes:

General:
- This is a firmware patch release for Series 7 controllers.

Firmware:

Series 7:
- Resolved an issue where RAID 5 and 6 logical drives would not rebuild.
- Resolved a firmware stack overflow issue caused by excessive error handling due to a faulty attached drive or device.
- Resolved an issue where logical drive write cache could not be enabled if no Adaptec Flash Module (AFM) was attached.
- Resolved an issue where the parity cache log could cause a controller ASSERT.
- Resolved an issue where a pooled hot spare would become a dedicated hot spare after replacing a failed drive in a RAID 1 and the failed drive is reinserted and a copyback is performed.
- Resolved an issue where "Error: Controller Kernel Stopped Running" would occur during POST on some systems.

Driver:

- General:
  - NUMA support for the RAID controller products. This provides improved performance under NUMA CPU architectures.
  - Added command coalescing support for RAID devices for small block sequential I/Os.

- Windows changes:
  - Added support for Windows Server 2016
  - Resolved an issue where, in a specific scenario, the driver would wait indefinitely after a controller ASSERT and not reset the controller.
  - Resolved an issue where the controller time would not be properly set after a Soft Reset Time out.
  - Resolved an operating crash issue related to a spinlock dead lock.
  - Reduced the IOP RESET recovery time.
  - Resolved a timeout issue discovered to be caused by a coalescing request that was not dequeued.

- Linux/VMware changes:
  - Added support for building DKMS .DEB packages.
- Added support for SLES 12 SP1.
- Added support for building DKMS packages for Ubuntu kernels.
- Resolved an issue where some VMware commands would time out immediately when issued, causing a link reset on the controller.

maxView/ARCCONF:

- Enabled the configuration of the idle session timeout in maxView.
- Added support for Mode E and Mode F, along with help for expander upgrade in maxView and ARCCONF.
- Added method name, arguments, and the response data in a format for calls made to CIM in the CIMAdapter.log. Removed unwanted log messages.
- Added support for the slot information to be displayed for a drive that has a valid secondary location (slot) irrespective of enclosure for Smart Controller.
- Added code for the following items:
  - Dumping logs in Custompath.
  - Get GOS GUI and agent logs.
  - Get particular folder logs.
- Removed additional space from the set properties string in popup message box.
- Upgraded to latest version of JRE to address security issues.
- Modified code to allow 128 drives based on ADU report where it is maintained as 128.
- Added changes in storlib and ARCCONF to support Mode 3 support of SATA drive.
- Added a new Boolean "temperatureEventIsGenerated", which will be set to true on the first abnormal temperature event and will be set to false once the temperature reaches normal again. This will allow one event each to be generated whenever the temperature goes from normal to abnormal and vice versa.
- Made the following name changes:
  - Changed "Hard drive access name" to "Disk Name" to sync with the logical drive and physical drive.
  - Added proper validations to display "Disk Name".
  - Added a WWID of the SEP device for enclosure of the logical ID instead of from the expander device.
  - Added code to capture all debug logs from controller.
- Fixed the following UX issues in the Enclosure log:
  - Fixed Enclosure power supply
  - Fixed Enclosure ID issue
- Added smart controller check for task and uninit commands.
- Fixed an issue where maxView did not detect the controller; fixed the serial number and SES descriptors to fall under ASCII character set.
- Fixed an issue in maxView where the controller could not be found after installing a configured drive when the server was powered off.

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