

HITACHI エンタープライズサーバ EP8000 シリーズ マシンコード来歴

内蔵SAS ディスク外部接続用コントローラカードのファームウェア変更内容と来歴

ファームウェア変更内容と来歴	
0422003f	(1) POWER7+搭載モデルにおいて、システム起動時に、ディスクが見えなくなる問題を修正しました。 (2)システム起動時に、誤って IOASC:066B9100 が採取される問題を修正しました。
04220037	(1) 8205-E6B/E6C で Split カードが搭載された構成において、I2C(シリアルバス)上でバスの競合が発生すると、DASD バックプレーンにある LED が点灯し続ける問題を修正 (2) マルチパス構成において、ミラーリングされた HDD の交換作業中に、システムがハングアップする問題を修正 (3) SAS アダプタに LT05 のドライブが接続された構成において、SISSAS_FABRIC_ERRs が採取される問題を修正。 (4) SAS Port の障害発生時、エラー回復処理を誤り、システムがハングアップする問題を修正。
04220033	(1) 以下のエラーコードに関する軽微な修正。 IOASC/PRC:06690200/14021403, 07278C00/17034918, 04448200/11050E51, 02048000/17101c15 (2) 9117-MMB, 9179-MHB のオンボード SAS コントローラ (CCIN:572C) 向けに新しい設定を追加。
04220029	(1)Specific to MTM 8202 & 8205: Reduction in I2C bus traffic, eliminating unnecessary communication to PSOC. This change has shown to resolve situations where one Virtual "ses" device would configure as defined in DASD split backplane configurations. Note: This microcode change does not resolve other I2C bus contention issues outside of the SAS architecture. (2)Contains fixes, previously included in 042x001b levels for Power Blade architecture (1 SAS Address per phy) (3)Added Error Code combo 04678000/10440039 to report invalid Dual Controller configurations. Previous undetected invalid configurations included: MTM 8202/8205, High End DASD backplane without CCIN 2BD9 & 2BE1) (4)Fix for SSD drive errors, 0B/4400 in CCIN 57CD configuration. Reduced Overall Command Timeout Value from 16 to 2.
04220020	SAS I/O adapter error recovery enhancements for device hard media errors to prevent a very slight chance of undetected data corruption. This can only occur when a RAID-5 configuration is being used. The adapter microcode is updated to prevent the problem from occurring. Affected CCINs: All that are RAID 5 capable
04220010	First customer release in the "04xxxxxx" level.
03220066	Fixes for (1) All Adapters: IOASC/PRC 04448400/80FF0200, 04448400/80FF0300, 06678400/104212C2 (2) non-RAID (JBOD) only: 04448400/10802033 (3) Dual Controller only: IOASC/PRC 06678400/10440C10 (4) Dual Controller w/ Active/Active only: Changes to quiesce drive ops on drives that are not performing write same commands upon insertion of DASD (RAID and non-RAID) (5) CCIN 57B8 (on Link to Aux Cache): IOASC/PRC 01080000/10272385

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03220063	<p>(1)There was a small possibility that the SAS Controller' s VPD update process could be interrupted on the first pairing of a 8204/8203 System Planar & 57B8 SAS RAID Enablement Card. This could leave the 57B8 in an unusable state. See Retain Tip H195958. This microcode moves the VPD update to a place in time to avoid the interruption.</p> <p>(2)Close loophole on microcode update to a SES (split-backplane) which could potentially allow for microcode update both SAS paths to a particular device. If both paths are being updated then no paths would be active to the end device.</p>
03220059	<p>HIPER: It is of upmost importance to install this fix if Active/Active is enabled in a Dual Controller environment.</p> <p>(1)Active/Active fix: One or more disks could get lost from an array when a Link error occurs. This posed a Data Loss possibility. It is strongly recommended that Active/Active be disabled when installing this microcode! Active/Active can be re-enabled, concurrently, after microcode installation on both adapters.</p> <p>(2)Microcode Download update incomplete fix: The possibility existed where future microcode download attempts will not complete successfully and thus need to be retried. Once this code is successfully flashed that possibility is removed.</p>
03220051	<p>additional fix to address errors in CCIN 57BA, FC 5911 environment. SISSAS_ERR11T w/ error code FFFE SISSAS_FABRIC_ERROR w/ error code 4100 or 4101</p>
02220070	<p>(1)Fix for 04448400 with 10272212 and other Unit Checks conditions. (2)Corrects a situation where adapter did not enable caching in a specific dual controller scenario.</p>
0222006b	GA Level

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