IPMI Firmware / BIOS Release Notes Form

Product Name	**X10QBL (-4/4CT/CT)**
Release Version	**3.80**
Release Date	**2/14/2019**
Previous Version	**3.51**
Update Category	**Recommended**
Dependencies	**None**
Important Notes	**None**
Enhancements	**1. Added new Redfish features for download/upload IPMI configuration.** **2. Revised Redfish "Actions" for clearing event log.** **3. Improved multi-language content on the iKVM/HTML5 option menu and submenu.** **4. Disabled MCTP support on Broadcom 3108 firmware so it only supports I2C protocol.** **5. Renamed Redfish APIs as follows: from /redfish/v1/UpdateService/SSL to /redfish/v1/UpdateService/SSLCert, and from /redfish/v1/UpdateService/SSL/Actions/SSL.Upload to /redfish/v1/UpdateService/SSLCert/Actions/SSLCert.Upload.** **6. Reduced the action required to reset OOB interface of Broadcom 3108 RAID controller.** **7. Revert MAC address format to "xx:xx:xx:xx:xx:xx" for backward compatibility.** **8. Changed FirmwaveInventory to SmcFirmwaveInventory to prevent user confusing with Redfish standard definition.**

	9. Changed SNMP behavior to conform with X11 platform. 10. Migrated IPMI Event Log to the URL "redfish/v1/Systems/1/LogServices" in Redfish and renamed the function name from "Event Log" to "System Management Log" in Redfish & Web UI.
New features	1. Added adaptive temperature threshold in SDR for drives connected to 3108. 2. Enabled AC Power On Event log. 3. Improved 3108 firmware updates over BMC's web page. 4. Added enable and disable options for 3108's JBOD mode over BMC's Web page and Redfish API "/redfish/v1/Systems/1/Storage/HA-RAID". 5. Added Redfish memory information feature. 6. Added support for Redfish firmware inventory (BIOS/BMC update). 7. Patched an empty JSON payload "{}" so that a 204 http status code responds to APIs that support PATCH, while a 405 http status code responds to APIs that do not support PATCH. 8. Nested ICANN domain in "OEM" part if there is data to show. 9. Filtered out false alarm CATERR on Crash Dump. 10. Added Redfish support for new APIs. 11. Upgraded NTP package to 4.2.8p9 for security issue CVE-2016-7434. 12. Added Redfish support for storage APIs. 13. Allow updating 3108's firmware over BMC's Web page. 14. Added support for new redfish firmware inventory (3018 storage controller) to update firmware. 15. Enabled monitoring/logging of Broadcom 3108 BBU status changes. 16. Added support for saving 3108 storage controller status event. 17. Added parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking. 18. Added support for TaskService feature during BIOS, BMC, and Broadcom storage controller update in Redfish. 19. Added support for Node Manager feature in Redfish.

	20. Added new feature for GUID/BoardID in Redfish.
	21. Added new feature for event data extension in Redfish.
	22. Added Redfish support for TaskMonitor.
	23. Support Redfish APIs for SSM/SUM.
Fixes	1. Remove duplicate AOC NIC sensor on WebGUI.
	2. Report AC Power On in Event Log when BMC executes cold reboot.
	3. BMC now logs events when user removes pre-installed HDDs (connected to storage backplane and 3108) during system boot and after Broadcom 3108 storage controller is initialized.
	4. Allow disabling LDAP Authentication immediately after enabling it.
	5. Display product serial number correctly.
	6. Secondary NTP server no longer cleared after BMC is restored to default.
	7. Allow different SMTP Port Numbers.
	8. Removed unexpected alert occurring when changing date and time settings.
	9. Allow operator level access to reset iKVM.
	10. Prevent system hanging during POST with IERR errors when using 3108 AOC.
	11. Provide enough information for POST Storage.CreateVolume.
	12. Allow uppercase IPv6 addresses.
	13. Allow POST action on /redfish/v1/UpdateService/SSL being allowed.
	14. Allow all digits while using French keyboard layout.
	15. Prevent system hanging during POST with IERR errors when using 3108 AOC.
	16. IPMI Web Session value set to default value after IPMI is set to factory default.
	17. Redfish no longer returns 500 when NetworkProtocol is patched after factory default.
	18. Correct sensor reading of AOC-STG-i4S card.

	19. Corrected inconsistencies in BMC MAC address format.
	20. Power consumption history no longer shows minimum power as 0W.
	21. Correct Alert email function.
	22. Improved Java SOL console launch function
	23. Corrected "undefined" message appearing in pop-up window before uploading Broadcom 3108's ROM.
	24. SSM system information details now shows multiple storage enclosures.
	25. Allow updating 3108's firmware over BMC's Web page if Physical/Logical device is on the card.
	26. Corrected Upload button behavior for floppy disk virtual media after unmounting a file.
	27. Corrected failure to change JBOD mode.
	28. Show CPU Throttle and Thermal Trip events when Thermal Trip Event occurs.
	29. Multi-language support of iKVM/HTML5 console help page.
	30. Improved email function.
	31. Allow deleting Role Group in Active Directory page.
	32. Allow opening the 4th IKVM session in Redfish.
	33. Show consistent IP address formats on System page.
	34. Removed SEL degraded and unavailable events after Broadcom 3108 firmware is updated.
	35. Patched CVE-2019-6260.
	36. Allow setting NM power policy by Redfish API.
	37. Corrected inability to add AD group name and domain in SMCIPMITool.
	38. Allow opening Java IKVM when domain name is used to login to BMC.
	39. Removed duplicate BRCM3108 events.