Firmware Management Protocol Reduced Functionality in Intel® Ethernet Controllers

Application Note

NEX Cloud Networking Group (NCNG)

Rev. 1.0

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Revision History

Revision	Date	Comments
1.0	June 16, 2023	Initial release (Public).

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1.0   Firmware Functionality Change

Intel is reducing functionality of Firmware Management Protocol (FMP) in the UEFI driver. This change will eliminate excess code in the UEFI driver that is not used by our customers. This change will affect UEFI drivers found in the adapters containing the following:

- Intel® Ethernet Controller I210
- Intel® Ethernet Controller I350
- Intel® 82599 10 GbE Controller
- Intel® Ethernet Controller X540
- Intel® Ethernet Controller X550
- Intel® Ethernet Controller X710/XXV710/XL710
- Intel® Ethernet Controller X710-TM4/AT2

NOTE

This change will not impact the Intel® Ethernet 800 Series driver.

The following is the Firmware Management Protocol structure from the UEFI specification:

```
struct _EFI_FIRMWARE_MANAGEMENTG_PROTOCOL {
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_GET_IMAGE_INFO        GetImageInfo;
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_GET_IMAGE             GetImage;
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_SET_IMAGE             SetImage;
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_CHECK_IMAGE           CheckImage;
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_GET_PACKAGE_INFO      GetPackageInfo;
        EFI_FIRMWARE_MANAGEMENT_PROTOCOL_SET_PACKAGE_INFO      SetPackageInfo;
        };
```

Looking at the above structure, we will retain support for `GetImageInfo` and `GetPackageInfo` but will remove the remaining functions. All four remaining functions will return *EFI_UNSUPPORTED* status. (`SetPackageInfo()` does it currently).

To summarize the FMP change:

- The `GetImageInfo` and `GetPackageInfo` functions from FMP remain unchanged.
- The `GetImage`, `SetImage`, `CheckImage`, and `SetPackageInfo` functions from FMP will return *EFI_UNSUPPORTED* status for all adapters.
- The 800 Series product is not affected by this change.