



# **Intel Ethernet Controller Products**

**Release 26.2 Release Notes**

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**Intel Corporation**

Revision 1.0  
638101-001



## Revision History

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Revision	Date	Comments
1.0	March 2021	<ul style="list-style-type: none"><li data-bbox="576 413 738 434">• Initial release.</li></ul>

## 1.0 Overview

This document provides an overview of the changes introduced in the latest Intel® Ethernet controller/adaptor family of products. References to more detailed information are provided where necessary. The information contained in this document is intended as supplemental information only; it should be used in conjunction with the documentation provided for each component.

These release notes list the features supported in this software release, known issues, and issues that were resolved during release development.

### 1.1 Supported Intel® Ethernet Controller Devices

**Note:** **Bold Text** indicates the main changes for Software Release 26.2.

Controller Family	Windows* Driver Version	Linux* Driver Version	FreeBSD Driver Version	NVM Version
Intel® Ethernet 800 Series	1.7.29.0	1.4.11	0.28.6	2.4x
<b>Intel® Ethernet 700 Series</b> <b>Intel® Ethernet Network Connection X722</b>	<b>1.15.51.x</b>	<b>2.15.x</b>	<b>1.12.x</b>	<b>8.2</b>
<b>Intel® Ethernet 500 Series</b> <b>Intel® Ethernet Controller X550</b>	<b>4.1.229.x</b>	<b>5.11.x</b>	<b>3.3.x</b>	<b>3.1</b>
<b>Intel® Ethernet 300 Series</b>	<b>12.18.12.x</b>	<b>5.5.x</b>	<b>2.5.x</b>	<b>N/A</b>
Intel® Ethernet 200 Series	12.19.0.x	5.5.x	2.5.x	N/A
Intel® Ethernet 225 Series3	1.01.x	N/A	N/A	N/A
Intel® Ethernet Controller 825983	2.4.36.x	5.10.x	3.3.x	N/A
Intel® Ethernet Controller 8257x3	9.16.10.x	5.5.x	2.5.x	N/A

For help identifying a specific network device as well as finding supported devices, click here:

<https://www.intel.com/content/www/us/en/support/articles/000005584/network-and-i-o/ethernet-products.html>

### 1.2 New Features

#### 1.2.1 Hardware Support

Release	New Hardware Support
• 26.2	• None.

#### 1.2.2 Software Features

Release	New Software Support
• 26.2	• Support for FreeBSD 12.2

### 1.2.3 Removed Features

Release	Hardware/Feature Support
<ul style="list-style-type: none"><li>• 26.2</li></ul>	<ul style="list-style-type: none"><li>• Drivers and software are no longer tested on FreeBSD 12.1</li></ul>

### 1.2.4 Firmware Features

Release	New Firmware Support
<ul style="list-style-type: none"><li>• 26.2</li></ul>	<ul style="list-style-type: none"><li>• None.</li></ul>

## **2.0 Fixed Issues**

### **2.1 Intel® Ethernet 800 Series**

#### **2.1.1 Linux Driver**

None for this release.

#### **2.1.2 Windows Driver**

None for this release.

#### **2.1.3 Linux RDMA Driver**

None for this release.

#### **2.1.4 NVM Update Tool**

None for this release.

#### **2.1.5 FreeBSD Driver**

None for this release.

#### **2.1.6**

None for this release.

#### **2.1.7 Manageability**

None for this release.

### **2.2 Intel® 700 Series**

None for this release.

#### **2.2.1 Linux driver:**

- Express Data Path - On the newest Kernels system hang might be observed after eBPF program has been loaded.
- Driver reload or unbind and bind driver on an Intel® Ethernet Converged Network Adapter X710 may cause link down on first port after reboot.
- rx\_errors counter double-counts some packets when traffic doesn't pass Cyclic Redundancy Check (CRC).
- Link may be lost after changing MAC address on Physical Function (PF) using Intel(R) Ethernet Network Adapter X722.

#### **2.2.2 Windows driver:**

- OID\_GEN\_RCV\_ERROR double-counts some packets when traffic doesn't pass Cyclic Redundancy Check (CRC).

- Under heavy stress on Windows Server 2019, customers might see Event 260: "Failed to move RSS queue from VMQ." in the system event viewer using Intel® Ethernet Network Adapter X722. This is due to the driver not moving a particular queue in time for it to move to a new CPU. This is a non-fatal message and traffic is still processed as expected.

### **2.2.3 Intel(R) Ethernet Flash Firmware Utility:**

- One of the ports of Intel® Ethernet Network Adapter X710-T2L may not be initialized when using Intel® Ethernet Flash Firmware Utility.

## **2.3 Intel® Ethernet 500 Series**

None for this release.

## **2.4 Intel® Ethernet 300 Series**

None for this release.

## **2.5 Intel® Ethernet 200 Series**

None for this release.

## 3.0 Known Issues

### 3.1 Intel® Ethernet 800 Series

None for this release.

### 3.2 Intel® Ethernet 700, 500 and 300 Series

#### 3.2.1 EFI Driver

- In Bios Controller Name in Controller Handle section contains device path instead of Intel NIC Marketing Name. It's related to Intel® Ethernet Controller X710, Intel® Ethernet Controller X550, Intel® Ethernet Controller I350.

#### 3.2.2 PROSet

- It is not possible to modify a VLAN using IntelNetCmdlets. The Set-IntelNetVLAN command does not display an error.

### 3.3 Ethernet 700 Series

#### 3.3.1 Linux Driver

- When two VF interfaces are in balance-tlb bonding mode, the ICMP traffic might be interrupted for a few sequences.

### 3.4 Intel® Ethernet 500 Series

#### 3.4.1 Windows Driver

- `OID_GEN_RCV_ERROR` double counts some packets when traffic doesn't pass Cyclic Redundancy Check (CRC).

#### 3.4.2 Linux Driver

- The `rx_errors` counter double counts some packets when traffic doesn't pass Cyclic Redundancy Check (CRC).

#### 3.4.3 Intel® Ethernet 300 Series ESXi Driver

- Not all ports of Intel® Ethernet Server Adapter I350 log information about unsupported thermal sensor functionality in `vmkernel.log`

### 3.5 Intel® Ethernet 200 Series

None for this release.

## **3.6 Legacy Devices**

Some older Intel<sup>®</sup> Ethernet adapters do not have full software support for the most recent versions of Microsoft Windows\*. Many older Intel Ethernet<sup>®</sup> adapters have base drivers supplied by Microsoft Windows. Lists of supported devices per operating system are available at:

<http://www.intel.com/support/go/network/adapter/nicoscomp.htm>



## 4.0 NVM Upgrade/Downgrade 800 Series/700 Series and X550

Refer to the Feature Support Matrix (FSM) links listed in [Related Documents](#) for more detail. FSMs list the exact feature support provided by the NVM and software device drivers for a given release.

## 5.0 Languages Supported

**Note:** This only applies to Microsoft Windows and Windows Server Operating Systems.

This release supports the languages listed in the table that follows:

Languages	
English French German Italian Japanese	Spanish Simplified Chinese Traditional Chinese Korean Portuguese

## 6.0 Related Documents

Contact your Intel representative for technical support about Intel® Ethernet Series devices/adapters.

### 6.1 Feature Support Matrix

These documents contain additional details of features supported, operating system support, cable/modules, etc.

Device Series	Support Link
Intel® Ethernet 800 Series	<a href="https://cdrdv2.intel.com/v1/dl/getContent/630155">https://cdrdv2.intel.com/v1/dl/getContent/630155</a>
Intel® Ethernet 700 Series: – X710/XXV710/XL710 – X722 – X710-TM4/AT2 and V710-AT2	<a href="https://cdrdv2.intel.com/v1/dl/getContent/332191">https://cdrdv2.intel.com/v1/dl/getContent/332191</a> <a href="https://cdrdv2.intel.com/v1/dl/getContent/336882">https://cdrdv2.intel.com/v1/dl/getContent/336882</a> <a href="https://cdrdv2.intel.com/v1/dl/getContent/619407">https://cdrdv2.intel.com/v1/dl/getContent/619407</a>
Intel® Ethernet 500 Series	<a href="https://cdrdv2.intel.com/v1/dl/getContent/335253">https://cdrdv2.intel.com/v1/dl/getContent/335253</a>
Intel® Ethernet 300 Series	N/A
Intel® Ethernet 200 Series	N/A

## 6.2 Specification Updates

These documents provide the latest information on hardware errata as well as device marking information, SKU information, etc.

Device Series	Support Link
Intel® Ethernet 800 Series	<a href="https://cdrdv2.intel.com/v1/dl/getContent/616943">https://cdrdv2.intel.com/v1/dl/getContent/616943</a>
Intel® Ethernet 700 Series: – X710/XXV710/XL710 – X710-TM4/AT2 and V710-AT2	<a href="https://cdrdv2.intel.com/v1/dl/getContent/331430">https://cdrdv2.intel.com/v1/dl/getContent/331430</a> <a href="https://cdrdv2.intel.com/v1/dl/getContent/615119">https://cdrdv2.intel.com/v1/dl/getContent/615119</a>
Intel® Ethernet 500 Series – X550 – X540	<a href="https://cdrdv2.intel.com/v1/dl/getContent/333717">https://cdrdv2.intel.com/v1/dl/getContent/333717</a> <a href="https://cdrdv2.intel.com/v1/dl/getContent/515715">https://cdrdv2.intel.com/v1/dl/getContent/515715</a>
Intel® Ethernet 300 Series	<a href="https://cdrdv2.intel.com/v1/dl/getContent/333066">https://cdrdv2.intel.com/v1/dl/getContent/333066</a>
Intel® Ethernet 200 Series – I210 – I211	<a href="https://cdrdv2.intel.com/v1/dl/getContent/332763">https://cdrdv2.intel.com/v1/dl/getContent/332763</a> <a href="https://cdrdv2.intel.com/v1/dl/getContent/333015">https://cdrdv2.intel.com/v1/dl/getContent/333015</a>

## 6.3 Software Download Package

The release software download package can be found at:

<https://www.intel.com/content/www/us/en/support/products/36773/network-and-i-o/ethernet-products.html>

## 6.4 Intel Product Security Center Advisories

Intel product security center advisories can be found at:

<https://www.intel.com/content/www/us/en/security-center/default.html>

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