



# Technical Advisory

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## Intel® IP Network Server NSW1U

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Products Affected	Product Code	Top Assembly Numbers
Intel® IP Network Server NSW1U, Base Model 0, AC, Rear NIC	NSWA0201W	D74310-003
Intel® IP Network Server NSW1U, Base Model 0, DC, Rear NIC	NSWD0201W	D74311-003
Intel® IP Network Server NSW1U, Base Model 0, AC, Front NIC	NSWA0301W	D74313-003
Intel® IP Network Server NSW1U, Base Model 0, AC, Fron NIC with Bypass	NSWA0401W	D74312-001

### Description

If a SATA drive signal cable is routed such that it touches the Ethernet Front Panel (EFP) board, rotational vibration from the fans may be transmitted to the hard drive through the SATA drive connector. This vibration can affect drive performance under some conditions.

### Root Cause

Excessive fan vibration is transmitted to the SATA hard drive though the connector.

### Corrective Action / Resolution

The long term resolution is to change the fan bracket to isolate the fans with rubber fasteners.

Until a new fan bracket design is implemented, the immediate corrective action is to route SATA drive signal cables high enough so they do not touch the EFP board anywhere and transmit the fan vibration. Figures 1 -- 4 show how to route the signal cable (i.e., large blue cable with the label "SATA cable") by folding it so that it does not lie on the EFP board.

### SATA Cable Routing Instructions:

When installing the SATA hard drives into the system, do not allow the SATA signal cables to touch the EFP board. The SATA cables exit the SATA drive connectors towards the Ethernet Front Panel (EFP) board and bottom of the chassis, as shown in Figure 1. Fold the cable upwards as it exits the SATA drive connector so it is sure to clear the EFP board.

Figure 1 and Figure 2 show how the longer SATA signal cable from the rightmost drive (bay 0) should arch over the SATA power cables in front of the fan power connectors.

Figure 3 and Figure 4 show how the shorter SATA signal cable from the leftmost drive (bay 1) must be folded sharply on the other side of the optical drive IDE signal cable.

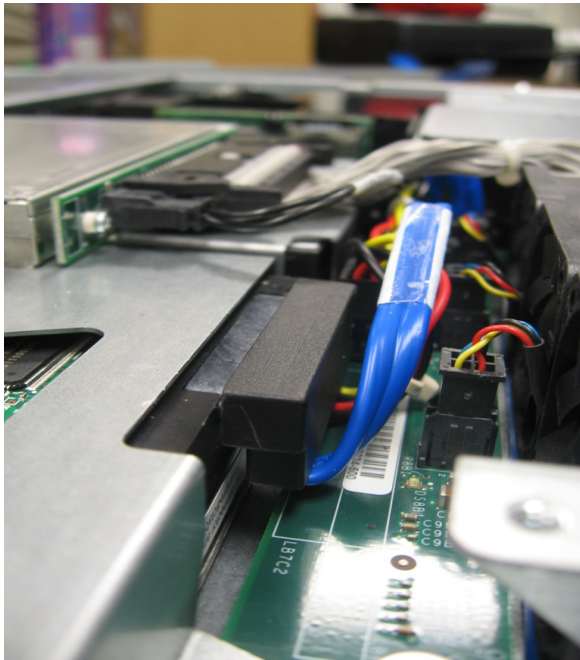


Figure 1

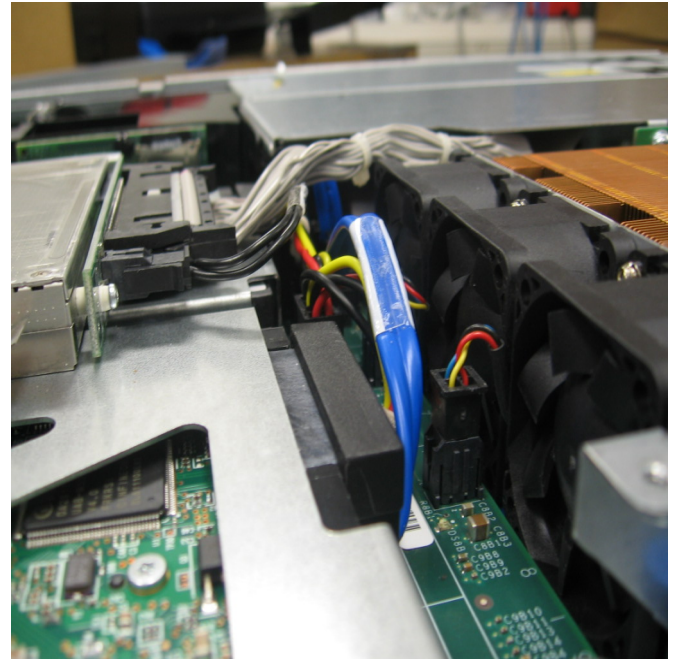


Figure 2

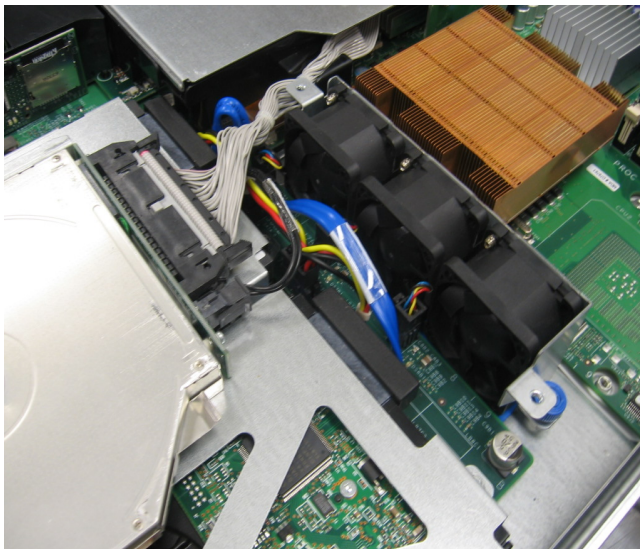


Figure 3

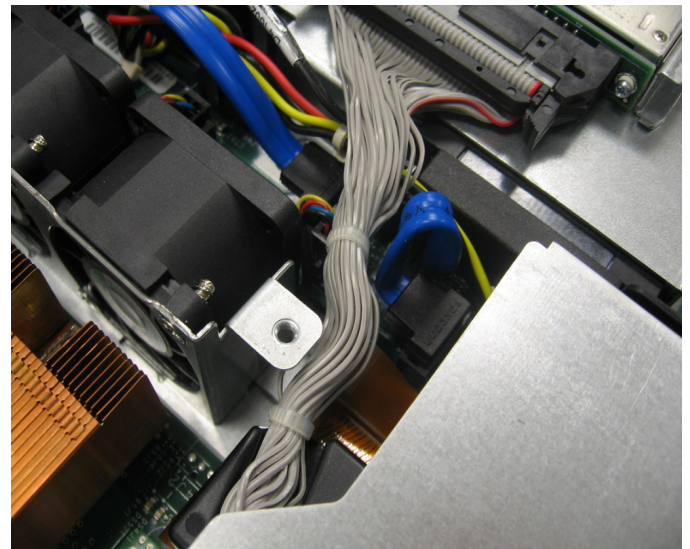


Figure 4

### Further Action

The factory is taking corrective action to ensure that future builds do not have this fan vibration issue. Please contact your Intel Sales Representative if you require more specific information.

Modular Communications Platform Division (MCPD)  
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