



# Technical Advisory – TA-341998-001

## SMBus Hangs May Occur on Intel® Optane™ SSD 905P

December 10, 2019

### Description

On some platforms, customers are unable to read Intel® Optane™ SSD 905P real-time temperature information out-of-band with the onboard SMBus controller.

Table 1: Affected Intel Products

Product Code	Intel® Optane™ SSD 905P
SSDPEL1D380GA01	380 GB

### Problem Statement

On some customer platforms with Intel® Optane™ SSD 905P, SMBus hangs may occur. As a result, the real-time temperature data being returned by the onboard SMBus controller, for example, may show “NA” instead of the expected value.

### Root Cause

1. High leakage current was discovered in the Intel® Optane™ SSD 905P circuit design on the SMBUS Data and Clock pins, the high leakage current band that has a strong dependency on temperature and host loading.
2. On some platforms, Intel® Optane™ SSD 905P does not account for the host characteristics while running.

### Intel Recommendations

1. If issue occurs, we suggest the customers read Intel® Optane™ SSD 905P's SMART temperature attribute using NVMe.
2. To remedy the situation, Intel will revise the circuit design for future hardware revisions.

Please contact your Intel Sales Representative if you require more specific information about this issue.

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