



# **Intel® Integrated Sensor Solution 5.4.1.4449**

## **ISH Release**

### **Release Notes**

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**July 2020 – WW30**

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# 1 Introduction

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## 1.1 Scope of Document

This document provides information about release components included in the Intel® Integrated Sensor Solution 5.4 Firmware kit. Additionally, this document contains information about changes and closed/opened defects relevant for these firmware releases.

## 1.2 Acronyms

Term	Description
Intel® ISS 5.4	Intel® Integrated Sensor Solution 5.4
ISH	Integrated Sensor Hub (A.K.A. to ISS)
DFS	Data File System (section within the ME Region)
FDK	Firmware Development Kit
IUP	Independent Upgradable Partition
ISH	Integrated Sensor Hub
I <sup>2</sup> C	Inter-Integrated Circuit, referred to as I-squared-C, I-two-C, or IIC.
MEU	Intel® Manifest Extension Utility
PDT	Platform Descriptor Table consisting of two sections: (1) sensor configuration including sensor driver and I2C address. (2) Calibration data including the sensor driver and I2C address.
SUT	System Under Test



## 2 Release Kit Details

This document covers Intel® Integrated Sensor Solution Firmware kit for all the supported platforms.

### 2.1 Release Version Numbering Information

Typical release version numbering is as follows (example):

**5.x.y.z** (for example: 5.0.0.zzzz) where:

'5' refers to the Intel® Integrated Sensor Solution Major release version for SKL platforms

'x' represents point releases where new features or changes to existing features may be added.

'y' refers to Maintenance and Hot Fix release designations.

'z' refers to firmware release revision.

### 2.2 Components

Component	File/Folder Name	Description
<b>Firmware</b>	<ol style="list-style-type: none"> <li>1. Pre_Production_ishC_5.4.1.4449.bin</li> <li>2. Production_ishC_5.4.1.4449.bin</li> </ol>	<ul style="list-style-type: none"> <li>• Intel® Integrated Sensor Solution Firmware binary</li> <li>• By default supports all sensors included in the Intel BOM list</li> </ul>
<b>Configuration files</b>	<ol style="list-style-type: none"> <li>1. INTC_pdt_TGL_MOSAIC_BOM1_SENSORS</li> <li>2. INTC_pdt_TGL_MOSAIC_BOM2_SENSORS</li> <li>3. INTC_pdt_TGL_RR3_BOM1_SENSORS</li> </ol>	<ul style="list-style-type: none"> <li>• Intel BOM default configurations for Intel® Integrated Sensor solution</li> </ul>
<b>OS Level Drivers</b>	<ul style="list-style-type: none"> <li>• Drivers (3.1.0.4446)               <ul style="list-style-type: none"> <li>○ Bus</li> <li>○ HECI_ISH</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Drivers and Installer to support Intel(R)</li> </ul>



	<ul style="list-style-type: none"> <li>○ Miniport</li> <li>● Drivers Installer</li> <li>○ SetupISS.exe</li> <li>○ MUP.xml</li> <li>○ WiXLicenseNote.txt</li> </ul>	Intel® Integrated Sensor Solution
<b>PDT Editor</b>	<ul style="list-style-type: none"> <li>● PDT_Editor_1.0.5.451</li> </ul>	<ul style="list-style-type: none"> <li>● Intel® Integrated Sensor Solution Configuration Tool</li> </ul> <p>Note: This tool is also included in the Integrated Sensor FDK</p>
<b>Calibration Tool</b>	<ul style="list-style-type: none"> <li>● Windows/WinPE</li> <li>● Intel ISS Calibration Tool User Guide.pdf</li> </ul>	Note: This tool is also included in the Integrated Sensor FDK
<b>Calibration Analysis Tool</b>	<ul style="list-style-type: none"> <li>● CalibrationAnalysisTool.exe</li> </ul>	<ul style="list-style-type: none"> <li>● Should be used for generating the Golden Reference for Per-Model Calibration</li> </ul>
<b>Trace Tools</b>	<ul style="list-style-type: none"> <li>● TraceConfigTool.exe</li> <li>● ISSTraceCollector.exe</li> <li>● TraceCatalog.xml</li> <li>● TraceComponents.xml</li> </ul>	
<b>Intel Sensor Viewer Tool</b>	<ul style="list-style-type: none"> <li>● SensorViewer_v2.77.zip</li> <li>● Intel_Sensor_Viewer_Manual.pdf</li> </ul>	
<b>ISH Diagnostic Tool</b>	<ul style="list-style-type: none"> <li>● ISHDiagnosticTool.app 1.0.0.1</li> </ul>	
<b>FDK SWAP package</b>	<ul style="list-style-type: none"> <li>● FDKTools_WS_5.4.1.4449.zip</li> </ul>	



## 3 **Important Notes**

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**Below list the features or bug fix since last release.**

- \* 852849 TGL: remove LDO Config programming and LDO Calibration
- \* 852864 TGL: Change SRAM PG to Retention
- \* 850645 Remove A&G mpu6500 and baro lps25h from TGL platform since the ishc size is bigger than 256KB
- \* 841491 sensor core: fix potential sensitivity arbitration issue.
- \* 840556 [virtual als] fix sensitivity parsing bug
- \* 837475 [TGL][PDT] bom2 set rotation matrix to not-exposed
- \* 837334 Remove syslog in sideband\_write\_raw function.
- \* 832664 fix sdt update failed when sdt is null
- \* 827793 bmi160 bist refine