Advanced security built on the Intel vPro® platform

Key messages
- Every Intel product is architected with security in mind
- The Intel vPro® platform provides enhanced hardware-level security
- Intel vPro® security meets key IT priorities: protect, detect and recover

Customer benefits

Protect data
- Better security capabilities built directly into the silicon
- 100+ new system integrations per year from top manufacturers
- Improve data protection with discrete Trusted Platform Module cryptography

Recover a device using remote management (Intel® AMT)
- Secure device waking and access to restore, upgrade and protect
- Quickly and remotely recover data and devices

Detect and prevent threats
- Improve threat detection via memory scanning with virtually no additional impact on user experience or system performance
- Built-in firmware attack protection
- Better PC component tracing with Intel® Transparent Supply Chain
- Ensure that operating systems are running on legitimate hardware

Device attack surfaces
- Applications
- Operating system/virtual machine manager
- BIOS/firmware
- Hardware

A built-in more secure foundation
- Device authentication and traceability from factory to delivery with Intel® Transparent Supply Chain
- Better security below the OS and enhanced app and data protection
- Help discover the attack and quickly limit the spread with the advanced threat protection
- Help reimage quickly and improve security moving forward

Security must be rooted in hardware to offer a better end-to-end defense
### Built-In, More Secure Foundation

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#### Proactive PC protection with the Intel vPro® platform with Intel® Hardware Shield

**HOW IS THE SECURITY LANDSCAPE SHIFTING?**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% of INCIDENTS</td>
<td>Result from exploits in software¹</td>
</tr>
<tr>
<td>EVERY 4.2 SECONDS</td>
<td>New malware in the first quarter of 2017²</td>
</tr>
<tr>
<td>COST OF A BREACH</td>
<td>Digital records stolen, brand damage, etc</td>
</tr>
<tr>
<td>62% IT EXECS INCREASING BUDGET ON SECURITY⁴</td>
<td></td>
</tr>
<tr>
<td>ATTACKS ON THE RISE</td>
<td></td>
</tr>
<tr>
<td>INCREASING REGULATION</td>
<td></td>
</tr>
<tr>
<td>INCREASED SPENDING</td>
<td></td>
</tr>
</tbody>
</table>

#### WORLDWIDE SECURITY SPENDING³

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount (Billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>~$102 BILLION</td>
</tr>
<tr>
<td>2018</td>
<td>~$114 BILLION</td>
</tr>
<tr>
<td>2019</td>
<td>~$124 BILLION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>🗝️</td>
<td>Helps prevent malicious software injection by locking down memory and critical system resources</td>
</tr>
<tr>
<td>🚀</td>
<td>Helps dynamically ensure OS and virtual environment are running directly on Intel® Hardware</td>
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<tr>
<td>ナー</td>
<td>OS visibility into how BIOS is using hardware protection</td>
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The Intel vPro platform provides a hardware foundation for an end-to-end security strategy

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For more information please contact your Intel Sales Representative
Built-In More Secure Foundation

[1] McAfee Labs Threat Report, June 2018

Notices & Disclaimers

No computer system, product or component can provide absolute security under all conditions.
Built-in security features available on select Intel® Core™ processors may require additional software, hardware, services and/or an Internet connection.
Results may vary depending upon configuration.
Consult your PC manufacturer for more details.
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