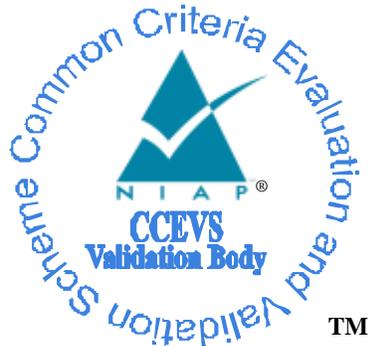


National Information Assurance Partnership
Common Criteria Evaluation and Validation Scheme



Validation Report

for

Microsoft Windows 8.1 and Microsoft Windows Phone 8.1

Report Number: CCEVS-VR-10635-2015
Dated: August 27, 2015
Version: 1.0

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1 Executive Summary

This report is intended to assist the end-user of this product and any security certification agent for that end-user to determine the suitability of this Information Technology (IT) product in their environment. End-users should review the Security Target (ST), (which is where specific security claims are made) as well as this Validation Report (VR) (which describes how those security claims were evaluated, tested, and any restrictions that may be imposed upon the evaluated configuration) to help in that determination. Prospective users should carefully read the Assumptions and Clarification of Scope in Section 4 and the Validator Comments in Section 10, where any restrictions on the evaluated configuration are highlighted.

This report documents the National Information Assurance Partnership (NIAP) assessment of the evaluation of Microsoft Windows 8.1 and Microsoft Windows Phone 8.1. It presents the evaluation results, their justifications, and the conformance results. This VR is not an endorsement of the Target of Evaluation (TOE) by any agency of the U.S. Government and no warranty of the TOE is either expressed or implied. This VR applies only to the specific version and configuration of the product as evaluated and as documented in the ST.

The evaluation of Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 was performed by Leidos (formerly Science Applications International Corporation (SAIC)) Common Criteria Testing Laboratory (CCTL) in Columbia, Maryland, in the United States and was completed in August 2015. The evaluation was conducted in accordance with the requirements of the Common Criteria and Common Methodology for IT Security Evaluation (CEM), version 3.1, revision 4 and the assurance activities specified in the Protection Profile for Mobility Device Fundamentals, version 1.1. The evaluation was consistent with NIAP Common Criteria Evaluation and Validation Scheme (CCEVS) policies and practices as described on their web site (www.niap-ccevs.org).

The Leidos evaluation team determined that Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 is conformant to the claimed Protection Profile (PP) and, when installed, configured and operated as specified in the evaluated guidance documentation, satisfied all of the security functional requirements stated in the ST. The information in this VR is largely derived from the publically available Assurance Activities Report (AAR) and the associated proprietary test report produced by the Leidos evaluation team.

The TOE is a hardware and software solution that consists of Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Operating Systems, running on the following devices:

- **Microsoft Surface 3**, Windows 8.1 Pro, 64-bit, Intel Atom Z8700, Marvell 8897 Wi-Fi a/b/g/n adapter, Bluetooth 4.0, Bluetooth LE, Intel TPM 2.0
- **Microsoft Lumia 635**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0
- **Microsoft Lumia 830**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0

The validation team monitored the activities of the evaluation team, examined evaluation evidence, provided guidance on technical issues and evaluation processes, and reviewed the evaluation results produced by the evaluation team. The validation team found that the evaluation results showed that all assurance activities specified in the claimed PP had been completed successfully and that the product satisfied all of the security functional and assurance requirements as stated in the ST. Therefore the validation team concludes that the testing laboratory's findings are accurate, the conclusions justified, and the conformance results are correct. The conclusions of the testing laboratory in the evaluation technical report are consistent with the evidence produced.

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Table 1: Evaluation Details

| Item | Identifier |
|--------------------------------|--|
| Evaluated Product | Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 |
| Sponsor & Developer | Michael Grimm Microsoft Corporation |
| CCTL | Leidos Common Criteria Testing Laboratory 6841 Benjamin Franklin Drive Columbia, MD 21046 |
| Completion Date | August 2015 |
| CC | Common Criteria for Information Technology Security Evaluation, Version 3.1, Revision 4, September 2012 |
| Interpretations | There were no applicable interpretations used for this evaluation. |
| CEM | Common Methodology for Information Technology Security Evaluation: Version 3.1, Revision 4, September 2012 |
| PP | Protection Profile for Mobility Device Fundamentals, Version 1.1 |
| Evaluation Class | None |
| Disclaimer | The information contained in this Validation Report is not an endorsement of the Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 by any agency of the U.S. Government and no warranty of Windows 8.1 and Windows Phone 8.1 is either expressed or implied. |
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2 Identification

The CCEVS is a joint National Security Agency (NSA) and National Institute of Standards and Technology (NIST) effort to establish commercial facilities to perform trusted product evaluations. Under this program, security evaluations are conducted by commercial testing laboratories called Common Criteria Testing Laboratories (CCTLs) in accordance with National Voluntary Laboratory Assessment Program (NVLAP) accreditation.

The NIAP Validation Body assigns validators to monitor the CCTLs to ensure quality and consistency across evaluations. Developers of information technology products desiring a security evaluation contract with a CCTL and pay a fee for their product's evaluation. Upon successful completion of the evaluation, the product is added to NIAP's Product Compliant List (PCL).

The following table identifies the evaluated Security Target and TOE.

Table 2: ST and TOE Identification

| Name | Description |
|----------------------|---|
| ST Title | Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Security Target |
| ST Version | 1.0 |
| Publication Date | August 27, 2015 |
| Vendor and ST Author | Microsoft |
| TOE Reference | Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 |
| TOE Hardware Models | Microsoft Surface 3 (Windows 8.1 Pro) Microsoft Lumia 635 (Windows Phone 8.1) Microsoft Lumia 830 (Windows Phone 8.1) |
| TOE Software Version | Microsoft Windows 8.1 (Pro) and Microsoft Windows Phone 8.1 (GDR2) |
| Keywords | Mobility Device |

2.1 Threats

The ST identifies the following threats that the TOE and its operational environment are intended to counter:

- An attacker is positioned on a wireless communications channel or elsewhere on the network infrastructure. Attackers may monitor and gain access to data exchanged between the Mobile Device and other endpoints.
- An attacker is positioned on a wireless communications channel or elsewhere on the network infrastructure. Attackers may initiate communications with the Mobile Device or alter communications between the Mobile Device and other endpoints in order to compromise the Mobile Device. These attacks include malicious software update of any applications or system software on the device. These attacks also include malicious web pages or email attachments which are usually delivered to devices over the network.
- The loss or theft of the Mobile Device may give rise to loss of confidentiality of user data including credentials. These physical access threats may involve attacks which attempt to access the device through external hardware ports, through its user interface, and also through direct and

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possibly destructive access to its storage media. The goal of such attacks is to access data from a lost or stolen device which is not expected to return to its user.

- Applications loaded onto the Mobile Device may include malicious or exploitable code. This code could be included intentionally by its developer or unknowingly by the developer, perhaps as part of a software library. Malicious apps may attempt to exfiltrate data to which they have access. They may also conduct attacks against the platform's system software which will provide them with additional privileges and the ability to conduct further malicious activities. Malicious applications may be able to control the device's sensors (GPS, camera, microphone) to gather intelligence about the user's surroundings even when those activities do not involve data resident or transmitted from the device. Flawed applications may give an attacker access to perform network-based or physical attacks that otherwise would have been prevented.
- Persistent access to a device by an attacker implies that the device has lost integrity and cannot regain it. The device has likely lost this integrity due to some other threat vector, yet the continued access by an attacker constitutes an on-going threat in itself. In this case the device and its data may be controlled by an adversary at least as well as by its legitimate owner.

2.2 Organizational Security Policies

There are no Organizational Security Policies for the Mobile Device protection profile.

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3 Architectural Information

The TOE is a hardware and software solution that consists of Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Operating Systems, running on the following devices:

- **Microsoft Surface 3**, Windows 8.1 Pro, 64-bit, Intel Atom Z8700, Marvell 8897 Wi-Fi a/b/g/n adapter, Bluetooth 4.0, Bluetooth LE, Intel TPM 2.0
- **Microsoft Lumia 635**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0
- **Microsoft Lumia 830**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0

Windows 8.1 and Windows Phone 8.1 are preemptive multitasking, multiprocessor, and multi-user operating systems. In general, operating systems provide users with a convenient interface to manage underlying hardware. They control the allocation and manage computing resources such as processors, memory, and Input/Output (I/O) devices. Windows 8.1 and Windows Phone 8.1, collectively referred to as Windows, expands these basic operating system capabilities to controlling the allocation and managing higher level IT resources such as security principals (user or machine accounts), files, printing objects, services, window station, desktops, cryptographic keys, network ports traffic, directory objects, and web content. Multi-user operating systems such as Windows keep track of which user is using which resource, grant resource requests, account for resource usage, and mediate conflicting requests from different programs and users.

The TOE includes the following variants of Windows and Windows Phone:

- Windows 8.1 Pro
- Windows Phone 8.1 GDR2

Windows Phone 8.1 is based on the same core operating system as Windows 8.1 and provides a simplified user interface that makes Windows Phone a communications hub for voice, text, and web access.

The TOE includes both physical and logical boundaries. Its operational environment is that of a networked environment with IEEE 802.11 (Wi-Fi), mobile broadband networks (3G/4G and LTE) and Bluetooth networks.

4 Assumptions

The ST identifies the following assumptions about the use of the product:

- It is assumed that the TOE's security functions are configured correctly in a manner to ensure that the TOE security policies will be enforced on all applicable network traffic flowing among the attached networks.
- It is assumed that the mobile user will immediately notify the administrator if the Mobile Device is lost or stolen.
- It is assumed that the mobile user exercises precautions to reduce the risk of loss or theft of the Mobile Device.

4.1 Clarification of Scope

All evaluations (and all products) have limitations, as well as potential misconceptions that need clarification. This text covers some of the more important limitations and clarifications of this evaluation. Note that:

1. As with any evaluation, this evaluation only shows that the evaluated configuration meets the security claims made, with a certain level of assurance (the assurance activities specified in the claimed PPs and performed by the evaluation team).
2. This evaluation covers only the specific device models and software version identified in this document, and not any earlier or later versions released or in process.
3. The evaluation of security functionality of the product was limited to the functionality specified in the claimed PPs. Any additional security related functional capabilities of the product were not covered by this evaluation. Any additional non-security related functional capabilities of the product, even those described in the ST, were not covered by this evaluation.
4. This evaluation did not specifically search for, nor attempt to exploit, vulnerabilities that were not "obvious" or vulnerabilities to objectives not claimed in the ST. The CEM defines an "obvious" vulnerability as one that is easily exploited with a minimum of understanding of the TOE, technical sophistication and resources.

5 Security Policy

The TOE enforces the following security policies as described in the ST.

5.1 Cryptographic Support

Windows provides FIPS 140-2 validated cryptographic functions that support encryption/decryption, cryptographic signatures, cryptographic hashing, cryptographic key agreement, and random number generation. The TOE additionally provides support for public keys, credential management and certificate validation functions and provides support for the National Security Agency's Suite B cryptographic algorithms. Windows also provides extensive auditing support of cryptographic operations, the ability to replace cryptographic functions and random number generators with alternative implementations, and a key isolation service designed to limit the potential exposure of secret and private keys. In addition to using cryptography for its own security functions, Windows offers access to the cryptographic support functions for user-mode and kernel-mode programs. Public key certificates generated and used by Windows to authenticate users and machines as well as protect both user and system data in transit.

- *Software-based disk encryption:* Windows implements BitLocker to provide encrypted data storage for fixed and removable volumes and protects the disk volume's encryption key with one or more intermediate keys and authorization factor
- *IPsec:* Windows implements IPsec to provide protected, authenticated, confidential, and tamper-proof networking between two peer computers.

5.2 User Data Protection

In the context of this evaluation Windows protects user data at rest and provides secure storage of X.509v3 certificates.

5.3 Identification and Authentication

In the context of this evaluation, Windows provides the ability to use, store, and protect X.509 certificates that are used for IPsec and authenticates the user to their mobile device.

5.4 Security Management

Windows includes several functions to manage security policies. Policy management is controlled through a combination of access control, membership in administrator groups, and privileges.

5.5 Protection of the TSF

Windows provides a number of features to ensure the protection of TOE security functions. Windows protects against unauthorized data disclosure and modification by using a suite of Internet standard protocols including IPsec, IKE, and ISAKMP. Windows ensures process isolation security for all processes through private virtual address spaces, execution context, and security context. The Windows data structures defining process address space, execution context, memory protection, and security context are stored in protected kernel-mode memory. Windows includes self-testing features that ensure the integrity of executable program images and its cryptographic functions. Finally, Windows provides a trusted update mechanism to update Windows binaries itself.

Like TSF processes, user processes also are provided a private address space and process context, and therefore are protected from each other. Additionally, the TSF has the ability to protect memory pages using Data Execution Prevention (DEP) which marks memory pages in a process as non-executable

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unless the location explicitly contains executable code. When the processor is asked to execute instructions from a page marked as data, the processor will raise an exception for the OS to handle.

The Windows kernel, user-mode applications, and all Windows Store Applications implement Address Space Layout Randomization (ASLR) in order to load executable code at unpredictable base addresses. The base address is generated using a pseudo-random number generator that is seeded by high quality entropy sources when available which provides at least 8 random bits for memory mapping.

5.6 Session Locking

Windows provides the ability for a user to lock their session either immediately or after a defined interval. Windows constantly monitors the mouse, keyboard, and touch display for activity and locks the computer after a set period of inactivity. Windows allows an authorized administrator to configure the system to display a logon banner before the logon dialog.

5.7 Trusted Path/Channels

Windows uses the IPsec suite of protocols to provide a Virtual Private Network Connection (VPN) between itself, acting as a VPN client, and a VPN gateway in addition to providing protected communications for HTTPS and TLS.

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6 Documentation

Microsoft offers a number of guidance documents along with a CC-specific supplemental document describing the installation process for the TOE as well as guidance for subsequent use and administration of the applicable security features.

The guidance documentation examined during the course of the evaluation and delivered with the TOE is as follows:

- Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Common Criteria Supplemental Admin Guidance, Version 1.0, May 7, 2015

The above document is considered to be part of the evaluated TOE. Any additional customer documentation delivered with the TOE or made available through electronic downloads should not be relied upon for using the TOE in its evaluated configuration.

The Security Target used is:

- Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Security Target, Version 1.0, August 21, 2015

7 Independent Testing

This section describes the testing efforts of the evaluation team. It is derived from information contained in the following proprietary documents:

- Microsoft Windows Surface 3 Common Criteria Test Report and Procedures for Mobility Device PP, Version 1.1, August 27, 2015
- Microsoft Windows Lumia 635 and Lumia 830 Common Criteria Test Report and Procedures for Mobility Device PP, Version 1.0, July 17, 2015

A non-proprietary version of the tests performed and samples of the evidence that was generated is summarized in the following document:

- Microsoft Windows Common Criteria Evaluation Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Assurance Activities Report, Version 1.0, August 25, 2015

The purpose of the testing activity was to confirm the TOE behaves in accordance with the TOE security functional requirements as specified in the ST for a product claiming conformance to MDFPP v1.1.

The evaluation team devised a Test Plan based on the Testing Assurance Activities specified in MDFPP. The Test Plan described how each test activity was to be instantiated within the TOE test environment. The evaluation team executed the tests specified in the Test Plan and documented the results in the team test report listed above.

Independent testing took place at the CCTL location in Columbia, Maryland.

The evaluators received the TOE in the form that normal customers would receive it, installed and configured the TOE in accordance with the provided guidance, and exercised the Team Test Plan on equipment configured in the testing laboratory.

Given the complete set of test results from the test procedures exercised by the evaluators, the testing requirements for MDFPP v1.1 were fulfilled.

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8 Evaluated Configuration

The evaluated version of the TOE is:

TOE Software Identification: The following Windows Operating Systems (OS):

- Microsoft Windows 8.1 Pro Edition (64-bit version) on Microsoft Surface 3
- Microsoft Windows Phone 8.1 GDR2 on Microsoft Lumia 635 and Microsoft Lumia 830

The following security updates must be applied to the above Windows 8.1 products:

- All critical updates as of April 30, 2015

The following security updates must be applied to the above Windows Phone 8.1 products:

- All critical updates as of April 30, 2015

TOE Hardware Identification: The following hardware platforms and components are included in the evaluation:

- **Microsoft Surface 3**, Windows 8.1 Pro, 64-bit, Intel Atom Z8700, Marvell 8897 Wi-Fi a/b/g/n adapter, Bluetooth 4.0, Bluetooth LE, Intel TPM 2.0
- **Microsoft Lumia 635**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0
- **Microsoft Lumia 830**, Windows Phone 8.1, Qualcomm Snapdragon 400, GSM, HSPA, LTE, Qualcomm WCN3620 Wi-Fi b/g/n adapter, Qualcomm TPM 2.0

The TOE must be deployed as described in section 4 of this document and be configured in accordance with the Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Common Criteria Supplemental Admin Guidance, Version 1.0, May 7, 2015.

Per Policy Letter #22, user installation of vendor-delivered bug fixes and security patches is encouraged between completion of the evaluation and the Assurance Maintenance Date; with such updates properly installed, the product is still considered by NIAP to be in its evaluated configuration.

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9 Results of the Evaluation

The evaluation was conducted based upon the assurance activities specified in Protection Profile for Mobility Device Fundamentals Version 1.1, in conjunction with version 3.1, revision 4 of the CC and the CEM. A verdict for an assurance component is determined by the resulting verdicts assigned to the corresponding evaluator action elements.

The validation team's assessment of the evidence provided by the evaluation team is that it demonstrates that the evaluation team performed the assurance activities in the claimed PPs, and correctly verified that the product meets the claims in the ST.

The details of the evaluation are recorded in the Evaluation Technical Report (ETR), which is controlled by the Leidos CCTL. The security assurance requirements are listed in the following table.

Table 3: TOE Security Assurance Requirements

| Assurance Component ID | Assurance Component Name |
|-------------------------------|-----------------------------------|
| ADV_FSP.1 | Basic functional specification |
| AGD_OPE.1 | Operational user guidance |
| AGD_PRE.1 | Preparative procedures |
| ALC_CMC.1 | Labeling of the TOE |
| ALC_CMS.1 | TOE CM coverage |
| ALC_TSU_EXT.1 | Timely Security Updates |
| ATE_IND.1 | Independent testing – conformance |
| AVA_VAN.1 | Vulnerability survey |

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10 Validator Comments/Recommendations

The functionality evaluated is scoped exclusively to the security functional requirements specified in the Security Target, and only the functionality implemented by the SFR's within the Security Target was evaluated. All other functionality provided by the Microsoft Surface 3 with Windows 8.1 Pro, Microsoft Lumia 635 with Windows Phone 8.1, and Microsoft Lumia 830 with Windows Phone 8.1, to include software that was not part of the evaluated configuration, needs to be assessed separately and no further conclusions can be drawn about their effectiveness.

To be in the evaluated configuration, the Lumia devices must be enrolled in MDM; when not enrolled in MDM, the devices do not support data at rest encryption, nor do they support configuration of a maximum number of unsuccessful authentication attempts.

In order to remotely lock the Surface 3 device, remote administrators are required to set the timeout period to the smallest possible value.

The applications that may be loaded and used in an evaluated configuration are limited to applications from the Windows Apps Store. The MDFPP has requirements it places on TOE system services that applications can leverage and this evaluation used only apps from the Windows App Store to comply with those requirements. The ability or inability to "side-load" unapproved applications onto the devices, bringing it out of the evaluated configuration, was not tested; likewise, the capabilities and limits of such an application were not considered in this evaluation.

Microsoft is using Trusted Platform Modules (TPMs) for products under this evaluation. The cryptography in TPMs is not currently CAVP-validated. NIAP recognizes and temporarily accepts this limitation.

This product uses a key with strength 112 bits to protect all keys used for data encryption, thus limiting the strength of data encryption to 112 bits.

11 Annexes

Not applicable.

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12 Security Target

| Name | Description |
|------------------|---|
| ST Title | Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Security Target |
| ST Version | 1.0 |
| Publication Date | August 21, 2015 |

13 Abbreviations and Acronyms

| | |
|----------------|---|
| AAA | Authentication, Authorization and Accounting |
| AAR | Assurance Activities Report |
| CAVP | Cryptographic Algorithm Validation Program |
| CC | Common Criteria |
| CCEVS | Common Criteria Evaluation and Validation Scheme |
| CCTL | CC Testing Laboratory |
| CEM | Common Methodology for IT Security Evaluation |
| CLI | Command Line Interface |
| EP | Extended Package |
| ESP | Encapsulating Security Payload |
| ETR | Evaluation Technical Report |
| FIPS | Federal Information Processing Standard |
| IKE | Internet Key Exchange |
| IOS | Inter-network Operating System |
| IPsec | Internet Protocol security |
| IT | Information Technology |
| LAN | Local Area Network |
| NIAP | National Information Assurance Partnership |
| NIM | Network Interface Module |
| NIST | National Institute of Standards and Technology |
| NSA | National Security Agency |
| NTP | Network Time Protocol |
| NVLAP | National Voluntary Laboratory Assessment Program |
| OS | Operating System |
| PCL | Product Compliant List |
| PP | Protection Profile |
| RADIUS | Remote Authentication Dial In User Service |
| RFC | Request For Comment |
| SA | Security Association |
| SAR | Security Assurance Requirement |
| SFP | Small Form-factor Pluggable |
| SFR | Security Functional Requirement |
| SNMP | Simple Network Management Protocol |
| SSHv2 | Secure Shell version 2 |
| SSL | Secure Sockets Layer |
| ST | Security Target |
| TACACS+ | Terminal Access Controller Access-Control System Plus |
| TLS | Transport Layer Security |
| TOE | Target of Evaluation |
| TSF | TOE Security Functions |
| TSS | TOE Summary Specification |
| USB | Universal Serial Bus |
| VPN | Virtual Private Network |
| VR | Validation Report |
| WAN | Wide Area Network |

14 Bibliography

The Validation Team used the following documents to produce this Validation Report:

- [1] Common Criteria for Information Technology Security Evaluation Part 1: Introduction, Version 3.1, Revision 4, September 2012.
- [2] Common Criteria for Information Technology Security Evaluation Part 2: Security Functional Requirements, Version 3.1 Revision 4, September 2012.
- [3] Common Criteria for Information Technology Security Evaluation Part 3: Security Assurance Components, Version 3.1 Revision 4, September 2012.
- [4] Common Methodology for Information Technology Security Evaluation, Evaluation Methodology, Version 3.1, Revision 4, September 2012.
- [5] Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Security Target, Version 1.0, August 21, 2015
- [6] Common Criteria Evaluation and Validation Scheme - Guidance to CCEVS Approved Common Criteria Testing Laboratories, Version 2.0, 8 Sep 2008.
- [7] Evaluation Technical Report for Microsoft Windows 8.1 and Microsoft Windows Phone 8.1, Version 1.0, August 21, 2015
- [8] Microsoft Windows 8.1 and Microsoft Windows Phone 8.1 Common Criteria Supplemental Admin Guidance, Version 1.0, May 7, 2015