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MICROSOFT DEFENDER ANTIVIRUS SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) OVERVIEW

Version 2, Release 8

01 April 2026

Developed by DISA for the DOD

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1. INTRODUCTION

1.1 Executive Summary

The Microsoft Defender Antivirus Security Technical Implementation Guide (STIG) provides the technical security policies, requirements, and implementation details for applying security concepts to the Defender Antivirus application. This document is meant to improve the security of Department of Defense (DOD) information systems.

1.2 Authority

DOD Instruction (DODI) 8500.01 requires that “all IT that receives, processes, stores, displays, or transmits DOD information will be [...] configured [...] consistent with applicable DOD cybersecurity policies, standards, and architectures” and tasks that Defense Information Systems Agency (DISA) “develops and maintains control correlation identifiers (CCIs), security requirements guides (SRGs), security technical implementation guides (STIGs), and mobile code risk categories and usage guides that implement and are consistent with DOD cybersecurity policies, standards, architectures, security controls, and validation procedures, with the support of the NSA/CSS, using input from stakeholders, and using automation whenever possible.” This document is provided under the authority of DODI 8500.01.

Although the use of the principles and guidelines in these SRGs/STIGs provides an environment that contributes to the security requirements of DOD systems, applicable NIST SP 800-53 cybersecurity controls need to be applied to all systems and architectures based on the Committee on National Security Systems (CNSS) Instruction (CNSSI) 1253.

1.3 Vulnerability Severity Category Code Definitions

Severity Category Codes (referred to as CAT) are a measure of vulnerabilities used to assess a facility or system security posture. Each security policy specified in this document is assigned a Severity Category Code of CAT I, II, or III.

Table 1-1: Vulnerability Severity Category Code Definitions

| | DISA Category Code Guidelines |
|---------|--|
| CAT I | Any vulnerability, the exploitation of which will directly and immediately result in loss of Confidentiality, Availability, or Integrity. |
| CAT II | Any vulnerability, the exploitation of which has a potential to result in loss of Confidentiality, Availability, or Integrity. |
| CAT III | Any vulnerability, the existence of which degrades measures to protect against loss of Confidentiality, Availability, or Integrity. |

1.4 STIG Distribution

Parties within the DOD and Federal Government's computing environments can obtain the applicable STIG from the Cyber Exchange website at <https://cyber.mil/>. This site contains the latest copies of STIGs, SRGs, and other related security information. Those without a Common Access Card (CAC) that has DOD Certificates can obtain the STIG from <https://public.cyber.mil/>.

1.5 SRG Compliance Reporting

All technical NIST SP 800-53 requirements were considered while developing this STIG. Requirements that are applicable and configurable will be included in the final STIG. A report marked Controlled Unclassified Information (CUI) will be available for items that did not meet requirements. This report will be available to component authorizing official (AO) personnel for risk assessment purposes by request via email to: disa.stig_spt@mail.mil.

1.6 Document Revisions

Comments or proposed revisions to this document should be sent via email to the following address: disa.stig_spt@mail.mil. DISA will coordinate all change requests with the relevant DOD organizations before inclusion in this document. Approved changes will be made in accordance with the DISA maintenance release schedule.

1.7 Other Considerations

DISA accepts no liability for the consequences of applying specific configuration settings made on the basis of the SRGs/STIGs. It must be noted that the configurations settings specified should be evaluated in a local, representative test environment before implementation in a production environment, especially within large user populations. The extensive variety of environments makes it impossible to test these configuration settings for all potential software configurations.

For some production environments, failure to test before implementation may lead to a loss of required functionality. Evaluating the risks and benefits to a system's particular circumstances and requirements is the system owner's responsibility. The evaluated risks resulting from not applying specified configuration settings must be approved by the responsible Authorizing Official. Furthermore, DISA implies no warranty that the application of all specified configurations will make a system 100 percent secure.

Security guidance is provided for the DOD. While other agencies and organizations are free to use it, care must be given to ensure that all applicable security guidance is applied both at the device hardening level as well as the architectural level due to the fact that some of the settings may not be able to be configured in environments outside the DOD architecture.

1.8 Product Approval Disclaimer

STIGs provide configurable operational security guidance for products being used by the DOD. STIGs, along with vendor confidential documentation, also provide a basis for assessing compliance with Cybersecurity controls/control enhancements which supports system Assessment and

Authorization (A&A) under the DOD Risk Management Framework (RMF). DOD Authorizing Officials (AOs) may request available vendor confidential documentation for a product that has a STIG for product evaluation and RMF purposes from disa.stig_spt@mail.mil. This documentation is not published for general access to protect vendor's proprietary information.

AOs have the purview to determine product use/approval IAW DOD policy and through RMF risk acceptance. Inputs into acquisition or pre-acquisition product selection include such processes as:

- National Information Assurance Partnership (NIAP) evaluation for National Security Systems (NSS) (<http://www.niap-ccevs.org/>) IAW CNSSP #11
- National Institute of Standards and Technology (NIST) Cryptographic Module Validation Program (CMVP) (<http://csrc.nist.gov/groups/STM/cmvp/>) IAW Federal/DOD mandated standards

2. ASSESSMENT CONSIDERATIONS

This document is based on the Microsoft Defender Antivirus application within the Windows 10, Windows Server 2016, and Windows Server 2019 operating systems. The security requirements detailed in this document target the application on those platforms specifically.

This document and associated STIG have set forth requirements based on having a secured Windows environment. The superset of these requirements can be found in the appropriate Windows STIG, which is also available from the Cyber Exchange website. Failure to apply these requirements will significantly diminish the value of the specifications in this document and the overall security posture of the asset to which these settings apply.

Security controls applied to the underlying operating system platform will directly affect the strength of the security that surrounds desktop applications.

2.1 Manual Review

To conduct a manual review of compliance with the Microsoft Defender Antivirus requirements, it is necessary to use some tools that are provided with the Windows operating system. Some of these tools are as follows:

- Windows Registry Editor – regedit.exe or regedt32.exe.
- Group Policy Object Editor – gpedit.msc (or used with MMC).
- Microsoft Management Console (MMC).

Registry paths and values identified in each control assume the use of Group Policy Object Editor in the Microsoft Management Console. Installations not using Group Policies to administer the Defender application may observe alternate registry paths for stored configuration values. Instructions for the manual remediation of vulnerabilities, including adding, deleting, and modifying settings, can be found in the Fix information.

2.2 Other Considerations

Prior to Windows 10 v1703 (which includes Windows Server 2016 and Windows 2019), the Administrative Template path name will be “Windows Defender” versus “Windows Defender Antivirus”. With each new release of Windows 10 operating system, new settings and features may be added. When this occurs, new requirements may be added to the STIG but older Windows platforms will not support the additional settings.

3. APPLICABILITY AND USAGE

The Windows Antivirus STIG settings must be configured unless using a third-party antivirus product.