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# **CITRIX XENDESKTOP 7.X SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) OVERVIEW**

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**Developed by Citrix Systems Inc. and DISA for the DOD**

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TABLE OF CONTENTS

	Page
<b>1. INTRODUCTION.....</b>	<b>1</b>
1.1 Executive Summary.....	1
1.2 Authority.....	1
1.3 Vulnerability Severity Category Code Definitions .....	2
1.4 STIG Distribution.....	2
1.5 Document Revisions .....	2
1.6 Other Considerations .....	2
1.7 Product Approval Disclaimer .....	3
<b>2. ASSESSMENT CONSIDERATIONS.....</b>	<b>4</b>
2.1 Security Assessment Information .....	4

## LIST OF TABLES

	<b>Page</b>
Table 1-1: Vulnerability Severity Category Code Definitions .....	2

## LIST OF FIGURES

	<b>Page</b>
Figure 1-1: XenDesktop STIG Components in Scope.....	4

## 1. INTRODUCTION

### 1.1 Executive Summary

The Citrix XenDesktop 7.x Security Technical Implementation Guide (STIG) is published as a tool to improve the security of Department of Defense (DOD) information systems. This document is meant for use in conjunction with other STIGs such as the Enclave, Network Infrastructure, Microsoft IIS, SQL, Active Directory, and appropriate Windows Operating System STIGs.

The Citrix XenDesktop 7.x STIG is composed of five subcomponent STIGs. The following is a brief description of each. All component STIGs must be applied to the Citrix XenDesktop 7.x environment:

- **StoreFront** – Installed on a Windows server in the data center, StoreFront gives users access to the virtual desktops and applications that they are authorized to use. Users log on to StoreFront through Citrix Receiver. StoreFront retrieves an Independent Computing Architecture (ICA) file containing the information required for user to connect to the Virtual Delivery Agent (VDA) for access to an authorized virtual desktop or application.
- **Receiver** – Runs on a client endpoint to securely display the application or desktop running in the data center or cloud, including optimized multimedia.
- **License Server** – Installed on a Windows server in the data center, this maintains the licenses for Citrix products through an administration interface to license services.
- **Delivery Controller** – Installed on servers in the data center, the Delivery Controller authenticates users and administrators, manages the assembly of desktop users' virtual desktop environments, and brokers connections between users and their virtual desktops and applications.
- **Windows Virtual Delivery Agent** – VDAs are installed on the machines inside the data center that host virtual desktops and applications that are available to users. VDAs enable direct ICA connections between a user device and these virtual desktops and applications.

### 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 <b>directly and immediately</b> result in loss of Confidentiality, Availability, or Integrity.
CAT II	Any vulnerability, the exploitation of which <b>has a potential</b> to result in loss of Confidentiality, Availability, or Integrity.
CAT III	Any vulnerability, the existence of which <b>degrades measures</b> 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 Document Revisions

Comments or proposed revisions to this document should be sent via email to the following address: [disa.stig\\_spt@mail.mil](mailto: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.

### 1.6 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 configuration 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 Department of Defense. 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.

## 1.7 Product Approval Disclaimer

The existence of a STIG does not equate to DOD approval for the procurement or use of a product.

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](mailto:disa.stig_spt@mail.mil). This documentation is not published for general access to protect the 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.
- DODIN Approved Products List (APL) (<https://aplits.disa.mil/processAPList.action>) IAW DODI 8100.04.



## 2. ASSESSMENT CONSIDERATIONS

### 2.1 Security Assessment Information

Figure 1-1: XenDesktop STIG Components in Scope

