

Wonderware Security Advisory

Title

Tableau OpenSSL Vulnerabilities (LFSEC000000100)

Rating

Medium

Published By

Schneider Electric Security Response Center

Overview

Potential security vulnerabilities have been discovered in multiple versions of the OpenSSL library used by Tableau Desktop/Server Software previously posted on WDN. Tableau Software has released a new product install which addresses these security vulnerabilities.

Tableau Desktop/Server components that use OpenSSL SSL/TLS/DTLS are susceptable to man-in-the-middle and denial of service vulnerabilities.

The rating is Medium.

This Security Advisory announces the Tableau Desktop/Server Software v8.1.8 installs with the security updates are available to customers and has been tested on Wonderware Intelligence 1.5 SP1.

For detailed information about the OpenSSL vulnerability please refer to the following links:

CVE-2014-0195, CVE-2014-0198, CVE-2014-0221, CVE-2014-0224, CVE-2014-3470, OpenSSL.org

Recommendations

Customers who have enabled SSL using Tableau Desktop/Server version 8.0.6 through 8.0.9 or 8.1.0 through 8.1.6 (these would have been installed from WDN as Tableau product updates) should apply the new product install to all nodes where the Tableau Desktop/Server is installed. The process consists of un-installing the Tableau Desktop/Dashboard Server and installing the new version. The Server configuration and published dashboards will be preserved during the installation of the new version.

Additionally, it is highly recommended that any certificates used to configure the SSL communication are revoked, new certificates re-acquired, and used after patching the vulnerability. Any passwords used for accessing the server should also be changed after applying the update.

No reboot should be required after these upgrades.



Background

The Tableau Analytics Software enables users to gather, store, and report on both historical and real-time operational data, using a dashboard to present Key Performance Indicators that are used to visualize, tune and maximize operations.

Security Update

June 2014: Tableau Desktop/Server Software version **8.1.8** addresses the vulnerabilities outlined in this Security Advisory. You can either:

- Click here to upgrade: Tableau Server <u>32-bit</u>, or Tableau Server <u>64-bit</u>
- Proceed to the new product installs for version 8.1.8 (following section).

Affected Products and Components¹

The following table identifies the currently supported products affected². Software updates can be downloaded from the Wonderware Development Network ("Software Download" area) using the links embedded in the table below.

Product and Component	Supported Operating System	Security Impact	Severity Rating	Software Update
Tableau Desktop/Server versions 8.0.6 through 8.0.9 or 8.1.0 through 8.1.6	Windows Server 2003, 2003 R2, 2008, 2008 R2 also well as XP, Vista and Windows 7	Disclosure of information	4.3 - 6.8	Tableau OpenSSL Vulnerabilities (LFSEC00000100) <u>32-bit</u> or <u>64 bit</u>

Update Information

Any machine where the Tableau Desktop/Server components have been updated to versions 8.0.6 through 8.0.9 or 8.1.0 through 8.1.6 are affected and must be updated.

Install the new versions of Tableau Desktop/Server components using instructions provided in the ReadMe for the product and component being installed. The user must uninstall the older Tableau Desktop/Server version and install the newer one.

Revisions: V1.0 - 6/30/2014: Advisory published

¹ Registered trademarks and trademarks must be noted such as "Windows Vista and Windows XP are trademarks of the Microsoft group of companies."

² Customers running earlier versions may contact their support provider for guidance.



Vulnerability Characterization

The Tableau Desktop/Server Software components delivered through Wonderware Developers Network (WDN) contain a vulnerability that may allow unauthorized disclosure of information. This vulnerability is characterized within the Technical Details Section of each CVE Entry.

NVD Common Vulnerability Scoring System

The U.S. Department of Homeland Security has adopted the common Vulnerability Scoring System (CVSS) that provides an open framework for communicating the characteristics and impacts of IT vulnerabilities. The system is comprised of components: impact, exploitability and complexity as well as added determinants such as authentication and impact type. In summary, the components such as impact are given an individual score between 0.0 and 10.0. The average of all components is the overall score where the maximum is 10.0. Details about this scoring system can be found here: http://nvd.nist.gov/cvss.cfm

The Tableau OpenSSL Vulnerability (LFSEC00000100) has multiple CVSS Scores. The CVSS Scores are as follows:

CVE-2014-0195 - 6.8

CVE-2014-0198 - 4.3

CVE-2014-0221 - 4.3

CVE-2014-0224 - 6.8

CVE-2014-3470 - 4.3

Customers have the option in the Environmental Score Metrics section of the calculator to further refine the assessment based on the organizational environment of the installed product. Adding the Environmental Score Metrics will assist the customer in determining the operational consequences of this vulnerability on their installation.³

Other Information

Acknowledgments

Schneider Electric thanks the following for the disclosure and collaboration with us on this vulnerability:

- Tableau Software
- ICS-Cert

Support

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³ CVSS Guide



For information on how to reach Schneider Electric support for your product, refer to this link: **Customer FIRST Support**. If you discover errors or omissions in this Advisory, please report the finding to support.

Wonderware Cyber Security Updates

For information and useful links related to security updates, please visit the **Cyber Security Updates** site.

Cyber Security Standards and Best Practices

For information regarding how to secure Industrial Control Systems operating in a Microsoft Windows environment, please reference the **Wonderware Securing Industrial Control Systems Guide**.

Wonderware Security Central

For the latest security information and events, visit **Security Central**. (Note that this site requires a login account.).

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