erwin Data Modeler Vulnerability Assessment Report 12.1 and 12.1 SP1

This document walks you through the vulnerabilities that were identified and fixed under the File System Vulnerability Assessment for erwin Data Modeler (erwin DM) 12.1 and 12.1 SP1.

#	Vulnerability Description	Reason	Fix
1	erwin DM 12.1 installs Microsoft Visual C++ 2010 x64 Redistributable file.	Microsoft no longer provides maintenance and security support for this component.	All files associated with Microsoft Visual C++ 2010 x64 Redistributable have been replaced with the latest supported versions of Microsoft Visual C++.
2	erwin DM 12.1 SP1 installs elements of Microsoft C++ Runtime Library version 7.00.9466. The affected files are: • c:\program files (x86)\windows resource kits\tools\msvcp70.dll • c:\program files (x86)\windows resource kits\tools\msvcr70.dll	Microsoft no longer provides maintenance and security support for this component.	rktools.exe has been removed from erwin DM in 12.1 SP1 29229. Now, after installing erwin DM, windows resource kits folder is not created in program files (x86).
3	erwin DM 12.1 SP1 installs and uses elements of OpenSSL v0.9.8i. The affected files are: • c:\program files\erwin\data modeler r9\libddt32.dll • c:\program files\erwin\data modeler r9\sslddt32.dll	This version is no longer supported.	All associations of OpenSSL have been upgraded to use the latest non-vulnerable version.
4	erwin DM 12.1 SP1 installs and uses elements of OpenSSL v1.0.2t. The affected files are: c:\program files\erwin\data modeler r9\ssleay32.dll	This version is no longer supported. Read more here.	All associations of OpenSSL have been upgraded to use the latest non-vulnerable version.

	c:\program files\erwin\data modeler r9\libeay32.dll		
5	erwin DM 12.1 SP1 installs and uses the following elements of the following OpenSSL versions: • OpenSSL v1.1.1g • OpenSSL v1.1.1i • OpenSSL v1.1.1k The affected files are: • c:\program files\erwin\data modeler r9\ssl\openssl.exe • c:\program files\erwin\data modeler r9\libcrypto-1_1-x64.dll • c:\program files\erwin\data modeler r9\libssl-1_1-x64.dll • c:\program files\erwin\data modeler r9\pythondblayer\python39\dlls\libcrypto-1_1.dll • c:\program files\erwin\data modeler r9\pythondblayer\python39\dlls\libssl-1_1.dll • c:\program files\erwin\data modeler r9\ssl\libcrypto-1_1.dll • c:\program files\erwin\data modeler r9\ssl\libssl-1_1.dll	The National Vulnerability Database has determined that these versions of OpenSSL 1.1.1 contain High and Medium Vulnerabilities. For more information, visit: • https://nvd.nist.gov/vuln/detail/CVE-2021-3712 • https://nvd.nist.gov/vuln/detail/CVE-2021-3711 • https://nvd.nist.gov/vuln/detail/CVE-2021-23841 • https://nvd.nist.gov/vuln/detail/CVE-2021-23840	All affect files have been updated for OpenSSL v1.1.1q
6	erwin DM 12.1 SP1 installs activeX v6.x. The affected file is:	activeX v6.x is no longer supported.	rktools.exe has been removed from erwin DM in 12.1 SP1 29229.

			Now, after installing erwin DM, windows resource kits folder is not created in program files (x86).
	• c:\program files (x86)\windows resource kits\tools\comctl32.ocx		
7	erwin.exe installs unauthorized firewall rules	These unauthorized firewall rules use TCP/UDP protocols to open any port from any IP address, allowing access to the system.	These firewall rules are disabled. Note: This needs verification whether the application function after disabling these rules.

Apart from the above fixes, the msvcr100.dll file has been removed from the following locations in erwin DM 12.1 SP1 b29259:

1. C:\Program Files\erwin\Data Modeler r9\
2. C:\Program Files\erwin\Data Modeler r9\OpenAccess\oaserver81\bin\

Note:

OpenSSL v1.1.1 and subsequent minor versions will no longer be supported after 2023-09-11 which will greatly reduce the allowable certification time of the application. Read more here.