

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

## Vmax 28-7 Anti-Virus False Positives

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Date: 2020-10-13 (last update)

### Background

Vyaire Medical has identified the potential for false positive anti-virus detections identifying specific files within the Vmax 28-7 software installer or installation directories. The anti-virus engine may be detecting files within the installer or installation directories as a virus or malware.

The specific files impacted are

VIMERGE.EX_	VIMERGE.EXE
VISB02.EX_	VISB02.EXE
VIWASH.EX_	VIWASH.EXE
VIPTRAC.EX_	VIPTRAC.EXE

Please note that the file extension can be .EX\_ instead of .EXE when the anti-virus engine scans the Vmax 28-7 software installer which contains those the executables in a compressed format.

### Response

#### How Vyaire Is Responding

Vyaire Medical has reviewed the impacted files and has verified that the anti-virus detection is a **false positive**.

The Vmax 28-7 software **can be safely installed** while ignoring anti-virus findings regarding the files listed as impacted above.

Vyaire has also provided a list of MD5 checksums for the Vmax 28-7 installer executable and all executable (EXE) and dynamic-link library (DLL) files contained in the installer in Appendix A.

Customers may check the MD5 checksum of any file in question against this list to verify the validity of the file.

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

## Generic controls

- Ensure your data has been backed up and stored according to your individual process and that your disaster recovery procedures are in place.
- Update your anti-virus and malware protection dictionary, where available.

For product or site-specific concerns, contact your Vyaire service representative.

For more information on Vyaire's proactive approach to product security and vulnerability management, contact us under: <http://www.vyaire.com/productsecurity>



Timo Kosig  
timo.kosig@vyaire.com  
Product Security Leader  
Vyaire Medical

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

## Appendix A

### Vmax 28-7 installation executable checksum

Vmax Installation Program	MD5 checksum
visetup.exe	187db9fdd1347d515274e3946dfd1741

### Executable file checksums

EXE file	MD5 checksum
29DBASE.EXE	424d0f289fd917efbcae1ed4a239f865
CheckPromoteVmaxDb.EXE	9224a0733046418aa936b46a096e6b50
CKS.EXE	82e2ee33889c07fd3b10a0c3d1c94200
COLLPATS.EXE	db5e393f1db663490c035ea38ccda7a6
JANIMAT.EXE	790cbffc8be0bd7762d35b406ce64ee4
MicroLoopConvert.EXE	1885271fd593f514f0dd2565fde8b417
MicroLoopToVmax.EXE	597c2142b9afdd9428ed6236b5eb0927
SETUPEX.EXE	d2d7379c122f88be60918c248cadae78
Transfer2Local.EXE	c33c4bc9eca6d1fc870d1b89c1a747e5
TransferVmaxDatabase.EXE	9dae40198c8ead3d653f88a993481e34
UNZIPDIR.EXE	0f8c247523db39f2f2b075dd5e6d030d
VIBRNCCTRL.EXE	3d09abf31a33c3dabe3652424d51226e
VIBXB.EXE	fbcee9802f7f41575dd7a2835ede570c
VIBXBCAL.EXE	a6670e2230dc99b4eab4971029779ce0
VICOMINT.EXE	d4978c960b361dabce5eed9202e49308
VICOMPL.EXE	ffb70fc5fe7f4118900cc897c027d8e8
VIEXTMP.EXE	dbd970fe978984277b967a5e57ce0d7c
VIFMTRPT.EXE	68475b9c9bba38d68f50385ab8d3cd52
VIGAME.EXE	239bd1b2c3b5b545086d32a2dab979a8
VIGRCNV.EXE	fc02e7de0a142ab43b1bb034ab7ca93
VIIBDLCO.EXE	4741f6f43225df9852fb4a745da68508
VIIMPRT.EXE	ffc5c0f02aa6d1d842753eb67cf38c56
VIINFO.EXE	e264c3b46720a6348ff2aee106916d75

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

EXE file	MD5 checksum
VIINTERP.EXE	54d2c75ef3b8a2e97fe243e76824d3d0
VILOOP.EXE	2bc46f0d3fac7a07d4830217608dfbc8
VIMAIL.EXE	047551bce7d72529ec7edbc25884b4fd
VIMAXP.EXE	bc27b255ce00ebad821dce9bd49b528c
VIMERGE.EXE	81c5fbba924ebbd01b0e9b0273855e4b
VIMETREVIEW.EXE	a31a78dd3e1590d3a3572a518584ac0a
VIMFSCAL.EXE	cbf6bde677371844ecf3240ca81ea240
VIMVV.EXE	a64d201f981efde7f7712adc45f68fdb
VINORM.EXE	4c12d554e7771a328a056bbe5d715698
VIP100.EXE	a724743153968bc5cd7776e91c51fe78
VIPTRAC.EXE	c591c41b8b0326dbde14ada57c660f2b
VIRAW.EXE	a952ff14c535955a3d6029c21b865caa
VIRDM.EXE	e5d76b0954ab868e2b2476bb2a145ae7
VIREPAIR.EXE	d6c610138d8d50d3a38ab719d001cded
VIROS.EXE	48766b52850a2a7fadc85c1d50ecfc0a
VISBDLCO.EXE	2c4122996892399bb9fd11ddf13012ab
VISBO2.EXE	1f07ba4d428974bc9505051a1e7513c6
VISHORPT.EXE	bcd3db7c1f82a1544a17cde3e2655f7f
VISPC01.EXE	b2a1d135a5917e0f307ea6b3cfdb177b
VISPC02.EXE	0e178ebe49a0a0cc5a46d8a07b3e6034
VITRAIN.EXE	990e7c52f13caebddf255ea0d421f700
VITRANS.EXE	5d93f92bc7331fa09dfd7051fc267922
VITRANS.D.EXE	2235721f1ff6485feb8ed90ca7a981b8
VIWASH.EXE	30e60e727552ccd9933178802c2fc7b5
VIXMIT.EXE	cdbd9042e8bc78c619544c9569917dcf
VmaxStartup.EXE	4c67a60d06705354c9ce1f1fd831ef81
VMSTPRJ.EXE	3d9755e821ea8d7694a814521de45780
ZIPDIR.EXE	8e386a421f6d8dd1df7c8eb83f917fe3

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

## Dynamic-link library file checksums

DLL file	MD5 checksum
55MFHR.DLL	af90ed05da626e14b5988d2c67490910
AmbiCubeDriver.dll	3e0375d8651bd6e2e0039927ec737f73
CDINTF450.DLL	67f3528835f6949d10cd27f7f20f0622
CheckDBxStatus.DLL	c411804be64dc4b2a3c25e6200178b04
CisServiceBase.Client.dll	3ae3de01810ad5d658301efc7d696c5f
CRP32DLL.DLL	d3f4d0068d5e8823598700a2a5ac0919
DataAdapterEntities.dll	94892281ae6cf9aca8fbf2642f31d2d2
dbfaccess.dll	d494ad3cde9514626c98cd57959dbb2b
dbfaccess_vmax.dll	6789d6a89dee9466ff8103f61b7b8969
dbfclass.dll	8879623678e63f091a14f4a3cffbab63
DBFDLL.DLL	92bf0e38056e873e6e45005b83a16c25
dbfdll2.dll	29359dd36b0dc83cb56fb3fe4e2e5110
DbfDotNet.dll	3f41306fc2b01b27817abef68206c189
DBx.Contracts.Demographics.dll	000af2e111d8def04cd79a16d72ce54f
DBx.Contracts.dll	bf74add8c97bf13502e3547ca6f6d037
DBx.Contracts.VisitUpload.dll	c5e53d307d47908a72c7f5e000afe1b3
DBx.Entities.dll	f7459c2c9b91201e7fa17aebad6739a
DBx.Localization.dll	075a00712c428e0552867a6b5878b15b
DBx.Proxy.Demographics.dll	b33ec08b7fb41e8899c7d2c17b450c2b
DBx.Proxy.dll	c5fc256d5ba63558409da20c1a4c29fe
DBx.Proxy.VisitUpload.dll	d0e3c223aad317ca4d615575ea9e181e
DBxVmaxWorkstationAdapter.dll	bfc270a7619e447a735830279bd81ef0
DragonInterface.DLL	35a03064bfc4c8b374169a8b024d1b19
ErrorHandling.dll	b1717d9c288268d479702d76556d28f0
HRT.DLL	973fef2dde17259b80869c455835fa07
JANIMAT.DLL	61abce87e3be5665b6c8808654459a79
JEE.DLL	fd352bd3d387f6a115c1e900943dc2ef
MFC71.DLL	f35a584e947a5b401feb0fe01db4a0d7
micromedical.generic.dll	1140e863ad6dbd559e5e53a851485cf1
MSVCP110.DLL	3e29914113ec4b968ba5eb1f6d194a0a
MSVCP71.DLL	561fa2abb31dfa8fab762145f81667c2

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

DLL file	MD5 checksum
MSVCR110.DLL	4ba25d2cbe1587a841dcfb8c8c4a6ea6
MSVCR120.DLL	034ccadc1c073e4216e9466b720f9849
MSVCR71.DLL	86f1895ae8c5e8b17d99ece768a70732
Newtonsoft.Json.dll	f33cbe589b769956284868104686cc2d
PluginHandling.dll	072fa81d1c00838390bcc498b8c507b0
PredCalcModule.DLL	704efe1474bbd703144f915da914e46b
SentryLib_Loader.DLL	9f7447a2f9f8fcf53c137ace3e216066
SERIALIO.DLL	1858547192393a4d600cd6d9102f6fc3
SeSCalculationService.Client.dll	94664a5eb21bf0f1564d63a1cb8e3581
SeSCalculationService.Common.dll	80c724daa1ab0ab24dbd4c6d8e5adeed
SesReferenceProvider.dll	b35d3abbb1ec76ebf68a6716cc8d8968
SLABHIDDevice.dll	80fc6527a2e58a1d60e55458b5d8a2cc
SLABHIDtoSMBus.dll	eb57b25758e4217cfde5d7a133aced87
SMCMATH.DLL	f6d06e1aaae5b7ce04a8f746e93ae264
SPIRODLL.DLL	258d8aeb013eb78f6938f412ca3ffb67
System.Net.Http.Formatting.dll	9b2675e8000f1a7189609f8c8ff57c5a
USBINF.DLL	338641e58837f2a6f9a95e4137f2e17e
vdbclass.dll	c7dbbeb0f0cd4ed0799670b3391d6a4c
vdbutil.dll	5399badd667eac4585bcce1331610145
VIEXCDEV.DLL	60e77c743ce506e548a386f76d7e91e5
viextpat.dll	d6ff8fb956c26be6b0db284029a0d00c
vifileio.dll	3e55b9b2934314ddcf4d785778c49f55
VIMIRROR.DLL	6fc3123a543e751d02b68a8730d9e273
VIPRTOCL.DLL	ae7a8f1c1242695d9492073b72c1f499
VIRECTST.DLL	52b1c42631a840ce7ea4591d636b120a
VIRTISR.DLL	662b5edfca86f7fca523fdf7051b8bb8
VISECURE.DLL	917a88dc9f6b2f63b16d40cf63b75247
VmaxCommonObjects.dll	18fec141a97f70c605cd97253556b604
VmaxDataInterface.DLL	9b603e7ab9a356b614dba82f1fb690b3
VmaxDataInterfaceManaged.dll	5bad976aff9b0b986401e685ab6c9485
VmaxDataSerializer.dll	f58641dfe9ee3e9c532b27b49ef51030
VmaxLogger.dll	73b81a2ad5a01621adf5f53e56e01e22

# Product Security Bulletin

IMPORTANT INFORMATION – PLEASE READ AND KEEP

DLL file	MD5 checksum
VmaxReportDataOutput.dll	3684cc2afeab15287b2b319c2b80a944
VmaxSeiDataAccess.dll	b4b73fd591d65d5dfb367edd019144cd
VmaxSentryIntegration.dll	38e2585d812c1a74f4260ad927094c7e
VmaxSentryIntegration215.dll	40bbe2dc54fcbea4a0e90ddc8cf762bd
VmaxSentryIntegration219.dll	4864ea80d00ab75043c6e62c40b67f71
VmaxSentryIntegration221.dll	6c452ca61997a4a1d466f924383879c9
VmaxSentryIntegration300.dll	03b284ce5ffe586bc46b38f8229405fe
VmaxXmlExportLib.dll	a5066cbbc9a6502a61a9a3a3b608946e
WindowsSecurityLibrary.DLL	febfb0ab81d7b20871cbef43275f106
WPFToolkit.dll	195ed09e0b4f3b09ea4a3b67a0d3f396