

## Security Patches for Mindray Products Running on Windows OS (March, 2022)

**CONTENT**

To Whom It May Concern,

Below content is only for your information.

**Introduction:**

We have reviewed the applicability to Mindray products of the Microsoft Windows security patches released in March, 2022. The following CVEs have been evaluated:

**CVE Identifiers**

- CVE-2022-24507 Windows Ancillary Function Driver for WinSock Elevation of Privilege Vulnerability
- CVE-2022-24505 Windows ALPC Elevation of Privilege Vulnerability
- CVE-2022-24503 Remote Desktop Protocol Client Information Disclosure Vulnerability
- CVE-2022-24502 Windows HTML Platforms Security Feature Bypass Vulnerability
- CVE-2022-24460 Tablet Windows User Interface Application Elevation of Privilege Vulnerability
- CVE-2022-24459 Windows Fax and Scan Service Elevation of Privilege Vulnerability
- CVE-2022-24455 Windows CD-ROM Driver Elevation of Privilege Vulnerability
- CVE-2022-24454 Windows Security Support Provider Interface Elevation of Privilege Vulnerability
- CVE-2022-23299 Windows PDEV Elevation of Privilege Vulnerability
- CVE-2022-23298 Windows NT OS Kernel Elevation of Privilege Vulnerability
- CVE-2022-23297 Windows NT Lan Manager Datagram Receiver Driver Information Disclosure Vulnerability
- CVE-2022-23296 Windows Installer Elevation of Privilege Vulnerability
- CVE-2022-23294 Windows Event Tracing Remote Code Execution Vulnerability
- CVE-2022-23293 Windows Fast FAT File System Driver Elevation of Privilege Vulnerability
- CVE-2022-23291 Windows DWM Core Library Elevation of Privilege Vulnerability
- CVE-2022-23290 Windows Inking COM Elevation of Privilege Vulnerability
- CVE-2022-23288 Windows DWM Core Library Elevation of Privilege Vulnerability
- CVE-2022-23287 Windows ALPC Elevation of Privilege Vulnerability
- CVE-2022-23286 Windows Cloud Files Mini Filter Driver Elevation of Privilege Vulnerability
- CVE-2022-23285 Remote Desktop Client Remote Code Execution Vulnerability
- CVE-2022-23284 Windows Print Spooler Elevation of Privilege Vulnerability
- CVE-2022-23283 Windows ALPC Elevation of Privilege Vulnerability
- CVE-2022-23281 Windows Common Log File System Driver Information Disclosure Vulnerability
- CVE-2022-23253 Point-to-Point Tunneling Protocol Denial of Service Vulnerability
- CVE-2022-22010 Media Foundation Information Disclosure Vulnerability
- CVE-2022-21977 Media Foundation Information Disclosure Vulnerability
- CVE-2022-21975 Windows Hyper-V Denial of Service Vulnerability
- CVE-2022-21973 Windows Media Center Update Denial of Service Vulnerability
- CVE-2022-21967 Xbox Live Auth Manager for Windows Elevation of Privilege Vulnerability

For more details, please refer to the Microsoft website:

<https://portal.msrc.microsoft.com/en-us/security-guidance>.

## Impacted Mindray Products:

The following table lists the impacted device and those hotfixes determined to be applicable to each device:

Product	OS	Hotfix	Download website	Pre-installed patch
BeneVision CMS	Windows 10 Professional SP1 64bit 1809	KB5011503	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows Server 2019	KB5011503	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows 10 1607 for 32-bit	KB5011495	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011495-x86_f275c41b70004653d97499963fc1ae453f6ba577.msu</a>	KB4498947 KB4132216
	Windows 10 1607 for x64-based	KB5011495	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2dafb6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
	Windows Server 2012 R2	KB5011560	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows8.1-kb5011560-x64_878c623a64cec1be862f63c03f0a644e088949af.msu</a>	
	Windows Server 2016	KB5011495	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2dafb6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
CMS Viewer	Windows 10 Professional SP1 64bit 1809	KB5011503	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows 10 1607 for 32-bit	KB5011495	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011495-x86_f275c41b70004653d97499963fc1ae453f6ba577.msu</a>	KB4498947 KB4132216
	Windows 10 1607 for x64-based	KB5011495	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2dafb6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
	Windows Server 2012 R2	KB5011564	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows8.1-kb5011564-x64_5a580cee56603bc7e278f24bbc1e28fed7ab1f71.msu</a>	
Hypervisor X	Windows 10 Professional SP1 64bit 1809	KB5011503	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows Server 2019	KB5011503	<a href="https://www.microsoft.com/download/details/download.aspx?downloadid=95929">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735

	Windows 10 1607 for 32-bit Systems	KB5011495	<a href="#">windows10.0-kb5011495-x86_f275c41b70004653d97499963_fc1ae453f6ba577.msu</a>	KB4498947 KB4132216
	Windows 10 1607 for x64-based Systems	KB5011495	<a href="#">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2daf_b6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
eGateway	Windows 10 Professional SP1 64bit 1809	KB5011503	<a href="#">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows Server 2019	KB5011503	<a href="#">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
	Windows 10 1607 for x64-based	KB5011495	<a href="#">windows10.0-kb5011495-x86_f275c41b70004653d97499963_fc1ae453f6ba577.msu</a>	KB4498947 KB4132216
	Windows Server 2012 R2	KB5011560	<a href="#">windows8.1-kb5011560-x64_878c623a64cec1be862f63c03f0a644e088949af.msu</a>	
	Windows Server 2016	KB5011495	<a href="#">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2daf_b6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
MLDAP Server	Windows 10 1607 for x64-based	KB5011495	<a href="#">windows10.0-kb5011495-x86_f275c41b70004653d97499963_fc1ae453f6ba577.msu</a>	KB4498947 KB4132216
	Windows Server 2012 R2	KB5011564	<a href="#">windows8.1-kb5011564-x64_5a580cee56603bc7e278f24bbc1e28fed7ab1f71.msu</a>	
	Windows Server 2016	KB5011495	<a href="#">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2daf_b6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
	Windows Server 2019	KB5011503	<a href="#">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
Mobile Server	Windows Server 2016	KB5011495	<a href="#">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2daf_b6d159b47f4d9bd.msu</a>	KB4498947 KB4132216
	Windows Server 2012 R2	KB5011564	<a href="#">windows8.1-kb5011564-x64_5a580cee56603bc7e278f24bbc1e28fed7ab1f71.msu</a>	
	Windows Server 2019	KB5011503	<a href="#">windows10.0-kb5011503-x64_4ffdd7a077a2c94d093a445f7a0efa10e0b92d95.msu</a>	KB5005112 KB5003243 KB4587735
iView	Windows 10 1607 for x64-based	KB5011495	<a href="#">windows10.0-kb5011495-x64_5687d125f32cb1b43ad1c2daf_b6d159b47f4d9bd.msu</a>	KB4498947 KB4132216

**Conclusion and Recommendation:**

We have validated that the Mindray products of the latest version can perform to specification with the applicable patches applied to the OS. It is recommended that the applicable patches defined in the table above should be installed on the affected Mindray products.

If you need information on how to obtain the approved patches or have any question, please feel free to contact Mindray regional service engineer or Mindray Service Department (email: [service@mindray.com](mailto:service@mindray.com)).

Thank you for your kind attention and cooperation.

Sincerely yours,

Mindray Service Department  
Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

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